



# Valley Engineer Newsletter

DECEMBER, 2016

## UPCOMING PROGRAMS

---

- February 11, 2017 (snow date February 12), MATHCOUNTS®, Southern Lehigh High School, Center Valley
- February 24, 2017, LVEC Engineer's Week Banquet, Holiday Inn, Breinigsville.
- February 20, 2017, "Dream Big" Screening and Reception, ArtsQuest's Cinemas

## PRESIDENT'S MESSAGE

Alfred Gruenke, PE  
 December, 2016

The Lehigh Valley Chapter, Pennsylvania Society of Professional Engineers celebrated the Holiday Season on December 15<sup>th</sup> at Morgan's Restaurant, on Cedar Crest Boulevard. About thirty members and guests imbibed and partook of an excellent dinner, courtesy of Chef Blake Morgan. The ambience of the setting added to everyone's holiday spirit.

The toast:

A toast to all, who are gathered here,  
 This most joyous time of the year.  
 To all our friends, you are our love,  
 There is nothing that we hold above.  
 So, drink up, be merry and be jolly,  
 And enjoy yourself, by golly!

Thank you all, all of our friends.  
 Thank you for listening, to these odds and ends.  
 God has been good, God has been great,  
 This is a year we'd like to emulate.  
 But please don't make a fuss,  
 Because God has been good to us.  
 Amen.

The speaker of the evening, George Kinney from the Lehigh Valley Planning Commission gave us a very pragmatic analysis of motorized traffic in the Lehigh Valley area, with projections of future needs. George was a late-minute replacement for the scheduled speaker, Becky Bradley.



**PENNSYLVANIA SOCIETY  
 OF  
 PROFESSIONAL ENGINEERS**  
  
**LEHIGH VALLEY CHAPTER**  
 (ORGANIZED 1935)



Morgan's dressed for the Holidays

George gave us an insight into long range Lehigh Valley traffic plans. We have been aware of the influx the last couple of years of warehouses and truck terminals in the area, especially along the I-78 corridor. This is due to the unique location of the Lehigh Valley, situated close to the Philadelphia, New York, and New England markets. George sees no letup in this trend.

Of some surprise to us, factors entering into traffic needs not only include the obvious, such as population density, but also the miles of sidewalks, and number of pedestrian deaths in an area!

One of George's revelations was that the Northeast Extension of the Pennsylvania Turnpike is slated to expand to six lanes up to the Lehigh Valley Exit. George fully expects this project to be completed within the lifetimes of many of the younger members in attendance!

Of special interest is the addition of traffic lanes to Rt. 22, the main East-West thoroughfare in the Lehigh Valley. This project is expected to be finished in 2023. His suggestion is, gird your loins and suck it up for the long haul! The project hit a

snag recently. The foundations for the Lehigh River Bridge caissons passed through a thin layer of rock into a void underneath. The project is still on schedule, however.



Attentive members listening to George Kinney. Ray Szczucki, Brian Kutz, Frank Walsh, Rob Cleland, Chris Williams, and Joan Gruenke.

Many thanks to George Kinney and the Lehigh Valley Planning Commission for giving us an insight into the planning the Commission provides. It gave us a good feeling, knowing that someone is analyzing the long-term traffic requirements, and has solutions before they become problems.

---

One of our objectives with our Scholarship fundraising efforts is to expand our contributor base. This year we have two new contributors. The first is from Lehigh White Cement, who contributed \$500.00 for a Junior level contribution. We thank Larry Rowlands for his efforts.

The second is Mass Mutual Financial Group, located in Center Valley, also for a Junior level contribution. Their local representative is Nermin Ferhadbegovic, Please check out both information entries later in this Newsletter.

---

Engineers have often been portrayed as a rather boring, lackluster lot. The Dilbert comic strip elucidates this image. Yes, we create fantastic structures and things, from the pyramids to the moon shots to smartphones and Dorney Park rides, but the image persists. Who gets credit when some structure is inaugurated? The local politician, or the engineer?

Partially to counter this image, the American Society of Civil Engineers has produced a film, entitled "Think Big", presented by Bechtel Corporation in partnership with the ASCE. The movie is going to be released during Engineers Week on Monday February 20, 2017, at ArtsQuest's Frank Banko Alehouse Cinemas. Details to follow.

The two-minute trailer can be viewed at <http://www.asce.org/dream-big/>. I urge you to view it, plus the YouTube videos linked to this website. It's awesome, and inspiring. Show it to your children and grandchildren. It's obviously slanted to the civil engineers, but engineers of every discipline will find it moving.

---

About a year ago, this Chapter toured Cetronia Ambulance Corps, located on Broadway in Allentown. The tour inspired the Board to donate \$1,000.00 over four years to the Corps. In return, a brick dedicated to the Chapter would be forever displayed on their Wall of Fame.



The commemorative brick! Something to be proud of.

The brick is installed, and is on display at Cetronia's headquarters. I went there recently to view it. Jennifer Glose, Director of Marketing and Public Relations, showed it to me, and it really looks great! If you have the opportunity, please stop by to view it.

---

Last issue we featured the "vanity" PSPE license plate of Don Kohn. This time we are featuring Eric Tappert's vanity plate. Vanity plates are interesting, since they always display some feature of the owner. For example, Don's plate, "FIRE",

publicly displays his profession, fire control systems. Fair enough, but as I've pointed out to Don, it's a good thing fire had been invented; if it hadn't he would have had to find another line of work!

Eric's vanity plate, 31416, rounded off from 3.14159, requires more cerebral convolutions. It's pi, without the decimal point. The rounding off and eliminating the decimal point was to conform to PSPE requirements for vanity plates, five characters max. To you non-sparkies, pi, 3.1416, is part of almost every electrical formula, especially with alternating current. Electrical Engineers have taken the simple ratio of the circumference of the wheel of the diameter of a wheel to heights unimaginable to the Greek mathematicians who discovered it over 2,000 years ago.

So, send me your PSPE license plates. If you send me an explanation for the for vanity plate, we'll publish that. If you leave it up to me, you will suffer my explanations. Enough said.

-----  
 Let me never fall into the vulgar mistake of dreaming that I am persecuted whenever I am contradicted.

-Ralph Waldo Emerson

-----  
 Always speak the truth, think before you speak, and write it down afterwards.

- Lewis Carroll

-----  
 Did you ever stop to think, and forget to start again?

- A. A. Milne (Winnie-The-Pooh)

-----  
 One language sets you in a corridor for life. Two languages open every door along the way.

-Frank Smith

-----  
 Keep your face always toward the sunshine and shadows will fall behind you"

- Walt Whitman

-----  
 No matter what people tell you, words and ideas can change the world

- Robin Williams

Continued on page 17

## **SCHOLARSHIP SPONSORS**

A great way to be involved in the LVPSPE Chapter is to contribute to the **LVPSPE SCHOLARSHIP FUND**. Please Contact the Valley Engineer Editor to sponsor scholarships for the remainder of the calendar year.

If you would like to contribute in any amount – please send your TAX DEDUCTIBLE donation to PA ENGINEERING FUND. Donations should be mailed to:

LVPSPE  
P.O. Box 3441  
Allentown, PA 18106

Please note “LVPSPE Scholarship Fund” on the comment line.

Or, you may contribute via the LVPSPE website <http://www.lvpspe.org/Donations>.

Scholarship application is at <http://www.lvpspe.org/Scholarships>. Any questions regarding scholarships can be directed to

Alex Dezubay, PE  
610-597-2007  
[Scholarship@LVPSPE.org](mailto:Scholarship@LVPSPE.org)

## **PSPE SCHOLARSHIPS**

The Pennsylvania Engineering Foundation currently administers the following scholarships for engineering students:

### **Undergraduate**

- \$1,000 PEF Grant: (2 awards)

### **Upperclassman**

- \$2,000 Pennsylvania Engineering Foundation Grant

Applications and guidelines are on-line now at <http://www.pspe.org/scholarships>

## **2015 – 2016 LVPSPE SCHOLARSHIP DONORS**

### **Graduate**

FLSmith, Inc.  
Bethlehem, PA  
Bridge Gap Engineering  
Northampton, PA

### **Senior**

Lutron Electronics Co., Inc.  
Coopersburg, PA  
Millenium Electro-Hydraulics Services  
Whitehall, PA  
Victaulic Company  
Easton, PA

### **Junior**

Barry Isett & Associates  
Allentown, Phoenixville, Hazleton and  
Forty Fort, PA; Phillipsburg, NJ  
Borton Lawson Engineering  
Bethlehem, PA  
Hanover Engineering Associates  
Bethlehem, PA  
McTish, Kunkle & Associates  
Allentown, PA  
Rettew  
Lancaster, PA  
Pennonni Associates, Inc.  
Bethlehem, PA  
The Pidcock Company  
Allentown, PA  
Mass Mutual Financial Group  
Center Valley, PA  
Lehigh White Cement  
Allentown, PA

### **Sophomore**

PEAK Technical Staffing USA  
Horsham, PA  
Advantage Engineers  
Allentown, PA  
DME Alliance  
Allentown, PA  
Newton Engineering  
Allentown, PA  
Staffeld Engineering Services  
Center Valley, PA

Continued on page 14



**MONARCH**  
PRECAST CONCRETE CORPORATION

Paul L. Stein, Jr.

425 North Dauphin Street      Phone: 610-435-6746  
Allentown, Pa 18109-2199      Fax: 610-437-7133  
pstein@monarchprecast.com  
www.monarchprecast.com




**McTish, Kunkel & Associates**  
Consulting Engineers & Surveyors

Site Planning & Design  
Land Surveying  
Transportation Engineering  
Structural Engineering  
Environmental Permitting  
Municipal Engineering  
Construction Inspection

3500 Winchester Rd., Suite 300  
Allentown, PA 18104  
610.841.2700  
email: info@mctish.com

*Engineering firm of choice since 1972*



**KEYSTONE CONSULTING ENGINEERS**

Three Regional Locations

**East Office**  
Bethlehem, PA  
610-865-4555


**West Office**  
Wescosville, PA  
610-395-0971

**North Office**  
Kresgeville, PA  
610-681-5233

www.KeystoneConsultingEngineers.com


**Johann F. Szautner, D.I., P.E., P.L.S.**

**CIVIL & FORENSIC ENGINEERING**



1775 Euclid Avenue  
Bethlehem, PA 18018-2112

Phone: 610 216 3918  
forensicengineerszautner@verizon.net



**R. Peruzzi Inc.**  
Electrical Engineering Consultant

**Robert Peruzzi, PhD, PE**  
President

P: 610 462 3939  
E: peruzzi@rperuzzi.com  
W: www.rperuzzi.com

719 Fourth Avenue  
Bethlehem, PA 18018

Behavioral Modeling and Verification for RF  
Analog and Mixed-Signal IC and SOC Design



**STAFFELD ENGINEERING SERVICES**

Staffeld Engineering Services (SES) provides business and engineering consulting services, primarily to chemical and manufacturing companies.

We develop and implement economical solutions for a wide range of manufacturing and technical issues. SES offers the following services:

- Process Troubleshooting
- Process Improvements
- Equipment Specifications
- Modeling & Optimization
- Project Economics
- Technical Training Services

Scan the QR code below to visit our website (www.staffeld.com) for more information.



**STAFFELD ENGINEERING SERVICES**  
Post Office Box 241  
Center Valley, PA 18034-0241

www.staffeld.com  
1-855-STAFFELD  
peter@staffeld.com

**www.newtonengineering.us**



**newton**  
ENGINEERING

TRAFFIC, SURVEYING AND DEVELOPMENT PROFESSIONALS  
- *Tomorrow's Engineering Solutions Today* -

**TRAFFIC, TRANSPORTATION & HIGHWAY**

- Highway Occupancy Permits
- Highway and Driveway Design
- Traffic Counts, Analysis & Projections
- Traffic Impact Studies

**LAND DEVELOPMENT & SUBDIVISION ENTITLEMENTS**

- Subdivision Layout and Design
- Land Development Engineering
- Sketch and Concept Plans
- Soil and Erosion Control Plans

**PRECISION SURVEY**

- Boundary Surveys
- Topographic Surveys
- Construction Stake-Out
- As-Built Plans

**PROFESSIONAL, CPESC & CERTIFIED**

- Professional Civil Engineers
- Professional Surveyors
- Professional Traffic/Operations Engineers
- Certified Stormwater Quality Professionals
- Certified Erosion & Sedimentation Professionals

**CONTACT US AT:**  
Suite 212, Zack Building  
6235 Hamilton Blvd. Allentown, PA 18106  
(p) 610-366-0060 (f) 610-366-7818  
(e) info@newtonengineering.us



**KOHN ENGINEERING**

**FIRE PROTECTION CONSULTING**

**Donald J. Kohn, P.E.**  
Principal

4220 Mountain Road  
Macungie, PA 18062

KohnEngineering@ptd.net www.KohnEngineering.com

Phone 610-967-4766 Fax: 610-967-6468



**PEAK TECHNICAL STAFFING USA**

Engineering Talent. Guaranteed.

**Rob Cleland**  
VICE PRESIDENT - NORTHEAST REGION

215.586.3600 866.234.PEAK (7325) cel 267.221.2038  
robcleland@peaktechnical.com www.peaktechnical.com  
601 DRESHER ROAD, SUITE 250, HORSHAM, PA 19044

**Michael F. Basta, PE**

**Kevin Campbell, PE**

**Alex Dezubay, PE**



**Minuteman Press**

Design • Print • Copy • Posters • EDDM  
Mailing Services • Promo Products • Post Office

**BLUEPRINTS**  
New Service!

D Size Prints  
**\$1.50**

<b>ALLENTOWN</b> 1801 West Tilghman Street Allentown, PA 18104 484.223.3311 M-F 8am-6pm Sat 8am-2pm	<b>BETHLEHEM</b> 123 East Broad Street Bethlehem, PA 18018 610.865.9946 M-F 7:30am-5:30pm
<b>EASTON</b> 661 South 25th Street Easton, PA 18045 610.923.9266 M-F 8am-6pm Sat 8am-2pm	<b>DESALES UNIVERSITY</b> 2755 Station Ave Center Valley, PA 18034 610.282.1100 x1201 M-Th 9am-5pm Sat 9am-4pm

WWW.MMPLV.COM

 **UNITED STATES POSTAL SERVICE.** **FULL SERVICE CONTRACT UNITS**

NOW AT OUR ALLENTOWN & EASTON STORES

**THE PIDCOCK COMPANY**

**CIVIL ENGINEERING  
LAND PLANNING  
ARCHITECTURE  
LAND SURVEYING**

**FOUNDED 1924**

Oxford Drive at Fish Hatchery Road  
2451 Parkwood Drive  
Allentown, Pennsylvania  
18103-9608

TELEPHONE: 610-791-2252  
TELEFACSIMILE: 610-791-1256  
EMAIL: [info@pidcockcompany.com](mailto:info@pidcockcompany.com)  
WEBSITE: [www.pidcockcompany.com](http://www.pidcockcompany.com)

**Pennoni**

**PENNONI ASSOCIATES INC.  
CONSULTING ENGINEERS**

**PROVIDING ENGINEERING  
SERVICES SINCE 1966**

Construction Services  
Energy & Sustainability  
Environmental  
Geotechnical  
Laboratory Testing  
Landscape Architecture  
Materials Testing & Inspection  
MEP  
Municipal  
Planning  
Site Design  
Structural  
Survey & Geomatics  
Transportation  
Water/Wastewater



2041 Avenue C, Suite 100, Bethlehem, PA 18017  
**610-231-0600 | [www.pennoni.com](http://www.pennoni.com)**

**RETTEW**  
We answer to you.



**Engineers, environmental consultants, surveyors, site designers, and safety advisors committed to sustainable development and resource conservation.**

Charles Myers, PE  
Director of Energy & Environmental Engineering  
[cmyers@rettew.com](mailto:cmyers@rettew.com)  
484-240-4519

**610-866-8330**  
[rettew.com](http://rettew.com) |   

**PENNSYLVANIA**  
Athens • Lancaster  
Lehigh Valley • Mechanicsburg  
Pittsburgh • Williamsport

**Integrity  
Ownership  
Trust**

MULTIDISCIPLINE  
ENGINEERS  
& CONSULTANTS

**BARRY  
ISETT &  
ASSOCIATES INC**



Landscape Architecture Land Planning  
Water & Waste Water Construction Se  
Development  
Inspections Lan  
Land Planning  
Services La  
Municipal Engineering Plumbing Water



**SOCIETAS AWARD**  
FOR RESPONSIBLE CORPORATE CONDUCT

[www.barryisett.com](http://www.barryisett.com)

- ALLENTOWN 610.398.0904
- PHOENIXVILLE 610.935.2175
- PHILLIPSBURG 908.454.9500
- HAZLETON 570.455.2999
- FORTY FORT 570.285.8200



# Hanover

Engineering Associates Inc



*Proudly serving our clients and community for over 40 years  
with offices throughout Pennsylvania*

- Municipal Engineering and Planning
- Structural Engineering
- Mechanical Engineering
- Environmental Services
- Subdivision and Land Development
- Stormwater Management
- Transportation Planning and Permitting
- Surveying
- Utility Line Design and Permitting
- CAD/GIS/GPS Services

**Office Locations**

<i>Bethlehem</i>	<i>610.691.5644</i>
<i>Pocono</i>	<i>570.688.9550</i>
<i>Lehigh</i>	<i>610.395.9222</i>
<i>Lancaster</i>	<i>717.721.7444</i>
<i>Elizabethtown</i>	<i>717.367.0144</i>
<i>Towanda</i>	<i>570.265.1020</i>
<i>Wellsboro</i>	<i>570.724.5326</i>
<i>New Castle</i>	<i>724.598.6414</i>

*Putting your project needs first ... always*

[www.hanovereng.com](http://www.hanovereng.com)



THE COLDEST SEASON IS ALSO  
**THE WARMEST.**



Nermin Ferhadbegovic is a proud sponsor of the Pennsylvania Society of Professional Engineers. Happy Holidays!



Nermin Ferhadbegovic  
Financial Advisor  
MassMutual Eastern Pennsylvania  
3701 Corporate Parkway, Suite 320  
Center Valley, PA 18034  
610-798-2557  
nferhadbegovic@financialguide.com  
www.easternpa.massmutual.com



**EASTERN PENNSYLVANIA**

We'll help you get there.®

PHILANTHROPY + DIVERSITY AND INCLUSION + ENVIRONMENTAL STEWARDSHIP + ETHICS AND INTEGRITY

MassMutual Financial Group refers to Massachusetts Mutual Life Insurance Co. (MassMutual) and its affiliated companies and sales representatives. Local sales agencies are not subsidiaries of MassMutual or its affiliated companies. Nermin Ferhadbegovic is a registered representative of and offers securities through MML Investors Services, LLC. Member SIPC. Supervisory office: 3701 Corporate Parkway, Suite 320, Center Valley, PA 18034. 610-798-2557. CRN201809-186185

**LEHIGH**  
WHITE CEMENT

*For extraordinary designs*



Visit [www.AECDaily.com](http://www.AECDaily.com) for our online AIA/CES course  
"Reflective Concrete Floors: Durable & Sustainable"

[www.lehighwhitecement.com](http://www.lehighwhitecement.com)



# Develop Your Career with Us

“I’ve been a part of Lutron for 3 ½ years.”

**Jamie McMahon** (Electrical Engineering Major)  
Design and Development Engineer

At Lutron, we’ve been designing and manufacturing energy-saving light control solutions since 1961.

Our success depends on your success. Join Lutron’s Innovation Leadership Program and you’ll develop the skills and knowledge needed to win in the world of innovation.

- Immediately join an engineering development team
- Receive formal mentor support
- Collaborate regularly with business unit managers and directors
- Acquire real-world experience through field assignments
- Foster relationships with Lutron’s global customers

**Key opportunities include:**

**Engineering**—Electrical, Mechanical, Computer, Software, Manufacturing, Industrial, Architectural

**Science**—Physics, Chemistry, Math

Opportunities are also available in sales leadership and field engineering leadership—**hiring all majors.**



To learn more about how you can be a part of our future visit

[www.lutron.com/careers](http://www.lutron.com/careers)



▲ Dynamic keypad in Black



©2012 Lutron Electronics Co., Inc. | PN 308-0717 REV/B

*Bridging the World  
through Relationships of Trust*



**Bridge Gap Engineering** is an agile and highly responsive engineering company lead by a uniquely diverse team of trusted cement and minerals industry experts. Based on service, solutions and relationships, Bridge Gap Engineering is a learning organization focused on knowing our customers and their changing needs in the 21st Century. Our experience spans decades and our knowledge spans multiple industries encompassing plant design, process design, and plant maintenance and operations.

**PE Engineers**

Josh Cooney • Peter Paone • Roger Wall • Frank Walsh • Dan Sautter

**E.I.T.**

Jeff Kutz

1717 Main Street, Northampton, PA 18067 • 610-400-8145

[www.bridgegapengineering.com](http://www.bridgegapengineering.com)

# COUPLING INNOVATION WITH CONFIDENCE



Since 1919, Victaulic has been the world's leading producer of pipe joining solutions. Our products are used in the most recognizable landmarks, from the Hoover Dam to Egypt's Alexandria Library, making bold designs possible.

Backed by 1,800+ patents, Victaulic is committed to our customers' needs, providing solutions for your design challenges. We draw it, train on it and certify the installation, all while utilizing best-in-class technology. From concept through construction, we ensure your project runs efficiently as possible.

## Engineering Solutions:

- Construction Piping Services (CPS) helps reduce risk and increase reliability for a smoother project experience.
- BIM Software keeps communication and collaboration in sync.
- Proprietary truck loading software saves time and confusion on the job with phased product schematics.

[victaulic.com](http://victaulic.com)



VICTAULIC IS A REGISTERED TRADEMARK OF VICTAULIC COMPANY.  
© 2014 VICTAULIC COMPANY. ALL RIGHTS RESERVED.

## **Proud to Honor our Engineers in the Lehigh Valley & Around the Globe**



# **FLSMIDTH**

Engineering is what we do at FLSmidth. As a world leader in providing equipment and services to the cement and minerals industries, our success begins with our engineers who plan and design the systems and equipment for which our customers rely.

2040 Avenue C · Bethlehem, PA 18017 · [www.flsmidth.com](http://www.flsmidth.com)

## Internet Addresses

### National Society of Professional Engineers

[www.NSPE.org](http://www.NSPE.org)

### Pennsylvania Society of Professional Engineers

[www.PSPE.org](http://www.PSPE.org)

### Lehigh Valley Chapter – PSPE

[www.LVPSPE.org](http://www.LVPSPE.org)

## 2016 – 2017 State Officers

### State Director

Angelika Forndran, PE  
StateDirector@LVPSPE.org  
215-536-7075

### Alt. State Director

Brian Kutz PE  
VicePresident@LVPSPE.org  
484-821-0470

### VP Northeast:

Michael F. Basta, PE  
StateVP@LVPSPE.org  
610-767-1617

## Board of Direction Meetings

The monthly Board of Direction meetings are 6:00 PM on the second (2<sup>nd</sup>) Monday of each month. Open to all members; they are held at the office of Barry Isett & Associates, 85 South Route 100, Allentown, PA.

## 2016 – 2017 Chapter Officers

### President:

Alfred Gruenke, PE  
President@LVPSPE.org 610-395-6561

### Vice President:

Brian Kutz, PE  
VicePresident@LVPSPE.org 484-821-0470

### Secretary:

Chris Williams, PE, LEED AP  
Secretary@LVPSPE.org 610-398-0904

### Treasurer:

Ray Szczucki, PE  
Treasurer@LVPSPE.org 610-614-1245

### Immediate Past President:

Kevin Campbell, PE, LEED AP  
PastPresident@LVPSPE.org 610-398-0904

### Chapter Directors:

Alex Dezubay, PE  
Directors@LVPSPE.org 610-597-2007

Nicole Gasda, PE  
Directors@LVPSPE.org

Frank Walsh, PE  
Directors@LVPSPE.org

## 2015 – 2016 LVPSPE SCHOLARSHIP DONORS


(cont'd)

### Freshmen


Kohn Engineering  
Macungie, PA  
Civil & Forensic Engineering  
Bethlehem, PA  
R. Peruzzi, Inc.  
Bethlehem, PA  
J.P. Mascaro & Sons  
Audubon, PA  
Keystone Consulting Engineers  
Bethlehem, Wescosville and Kresgeville, PA  
Monarch Precast Concrete Corporation  
Allentown, PA

### Contributors

Michael F. Basta, PE  
Kevin Campbell, PE  
Alex Dezubay, PE  
Alfred Gruenke, PE  
Grayson McNair, PE



**ADVANTAGE ENGINEERS**  
your engineering advantage



Providing timely, professional, cost effective  
**Design & Construction Phase Geotechnical Services**  
for over 1,300 projects and counting.

6520 Stonegate Drive, #110  
Allentown, PA 18106 • (610) 366-7120

Serving the Mid-Atlantic Region from 5 offices in  
Pennsylvania, Maryland, and New Jersey  
[www.advantageengineers.com](http://www.advantageengineers.com)



**Borton  
Lawson**  
ENGINEERING  
ARCHITECTURE

---

**PROUDLY SUPPORTS**  
MATHCOUNTS and the  
LVPSPE Scholarship Program

484.821.0470 | [borton-lawson.com](http://borton-lawson.com)



**J.P.  
MASCARO  
& SONS**

*If it's service, it's us!*

**1-888-MASCARO**    [www.jpascaro.com](http://www.jpascaro.com)

**Alfred Gruenke, PE**

**Grayson McNair PE**



**Engineering Solutions For Life**

PROCESS ♦ MECHANICAL ♦ ELECTRICAL ♦  
PLUMBING

- Life Sciences
- Food & Beverage
- Chemical Process
- Research & Development

[www.DMEforLife.com](http://www.DMEforLife.com)    610.366.1744

**Engineering Design Services for  
Advanced Technology Industries**

DME Alliance Inc., 7540 Windsor Drive, Suite 311, Allentown, Pennsylvania 18195

## Our Scholarship Fund

The primary purpose of the Scholarship Fund, is, of course, to give scholarships to graduating high school students who are enrolled in an engineering curriculum in pursuit of an engineering career.

In 2013 one of the Scholarship recipients was Alan Johnson, who went on to Penn State University.

Alan sent us the following. He is a fine example of what we are trying to accomplish.

Dear esteemed members of LVPSPE,  
Alan O. Johnson

Four years ago I had the honor of accepting the scholarship that your organization generously provides to aspiring engineers. The scholarship aided in my professional development and provided me the means to hone my engineering skills while studying chemical engineering at Penn State.

As a student, I had many opportunities to grow as a leader and as an engineer. In spring 2015, I was Penn State's team leader for BP's Ultimate Field Trip competition. As a team, we developed an innovative hydraulic fracturing method and presented our work at BP's headquarters in Houston, TX. In the summer of 2015, I worked for P&G as a utilities intern at their manufacturing plant in Mehoopany, PA. This was my first internship, and it gave me invaluable experience in the operations end of the consumer goods industry. This past summer I had the pleasure of working for ExxonMobil as a supply chain intern at their polyethylene plant in Mont Belvieu, TX. This experience required that I utilize the problem-solving skills I learned in my chemical engineering education and apply them to an industrial engineering role. Now, in my senior year, I am still searching for my first full-time employment opportunity. Additionally, I am a TA for the senior-level chemical reactor design class, and have begun writing my honors thesis which is to be completed before my graduation in May 2017.

I am grateful to have been awarded the LVPSPE scholarship in 2013. The scholarship enriched my education, and helped mold me into the engineer that I am today. Thank you.

Regards,

**Alan O. Johnson**

The Pennsylvania State University | Schreyer Honors College | Class of 2017  
College of Engineering | Chemical Engineering

What we think, we become. All that we are arises with our thoughts. With our thoughts, we make the world.

- The Buddha

An optimist may see a light where there is none, but why must the pessimist always run to blow it out?

- Rene Descartes



You can fool some of the people all of the time, or all of the people some of the time, but you cannot fool all of the people all of the time.

- Abraham Lincoln





Eric Tapper vanity plate "As easy as  $\pi$ "