



Valley Engineer Newsletter

May, 2014

UPCOMING PROGRAMS

- June 5 – IronPigs tour followed by game
- July 1-6 – NSPS Annual Meeting, Grand Hyatt, Washington DC
- September 17-19 – PSPE Conference, Holiday Inn, Fogelsville
- October 30-November 1 – 2014 Northeast Regional Meeting/ Maryland Engineers Conference



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OF
PROFESSIONAL ENGINEERS**

**LEHIGH VALLEY CHAPTER
(ORGANIZED 1935)**

CARBON, LEHIGH, MONROE, & NORTHAMPTON COUNTIES

Scholarship Awards and Installation of Officers Banquet

The Lehigh Valley Chapter, Pennsylvania Society of Professional Engineers held its Scholarship Awards and Installation of Officers Banquet on May 8, 2014, at DeSales University.

After libations and socializing, the members, guests, and scholarship winners sat down for a delicious repast for which DeSales University has a well-deserved reputation.

Chapter President Kevin T. Campbell, PE, LEED AP, presided over the proceedings.

Barry E. Isett, PE, PLS, F.NSPE, gave the Invocation, asking the members to use their God-given talents to protect the quality of life for everyone.

President Campbell issued a number of awards recognizing individuals that have contributed to the betterment of the organization.

The first was the Truman Yeager Award, given to Alfred Gruenke, PE, for his monthly Newsletter, and fundraising for our Scholarship Fund. Thanks to Al's efforts, our Chapter is able to award \$2,000.00 scholarships to four graduating high school seniors, up from \$750.00 only a few years ago.

Tracy Torres received the Distinguished Friend of the Chapter Award, for her assistance to Kevin Campbell with organizing MATHCOUNTS, sending Activities notices, proofreading and distributing the Newsletter, plus a myriad of other functions.

Peter Staffeld, PhD, PE, F.NSPE, has been accepted as an NSPE Fellow. The NSPE Fellow Program is a national program intended to recognize deserving professional engineers who have demonstrated long term professional service at the chapter, state and national levels of NSPE, and have demonstrated exemplary service to the profession, the Society, and the community. Peter has served as Chapter President, PSPE Treasurer and served on various State committees, member of the NSPE Membership Marketing Task Force, and Founder & Faculty Advisor, Villanova University NSPE Student Chapter.

Barry E. Isett, PE, PLS, F.NSPE, founder, Chairman of the Board and CEO of Barry Isett & Associates, Inc. received the 2014 NSPE Distinguished Service Award. This award is accorded by the National Society of Professional Engineers and is presented annually to a licensed member of the organization in recognition of exceptional contributions to the Engineering profession, to one's community, and to the NSPE. Mr. Isett will accept his award on Thursday, July 3 during the NSPE Annual Meeting at the Grand Hyatt Washington, Washington DC. Barry is a past president of our Chapter, and served as President of the Pennsylvania Society of Professional Engineers from 1995-96.

<http://pspe.org/barry-e-issett-receives-nspe-distinguished-service-award/>

The highlight of the evening was the awarding the Chapter Scholarships.

Scholarship Chairman Al Dezubay, PE, awarded \$2,000.00 to four recipients, who

were chosen for their academic achievements and service to the community at-large.



Chairman Al Dezubay, PE; Michael B. Duffy; Marlee Rose Senderowitz; Jacob Daniel Alfieri; Katie Marie Yannarell; President Kevin T. Campbell, PE, LEED AP

Michael B. Duffy

Michael Duffy, a student at Bethlehem Catholic High School, is planning to study civil engineering at Lehigh University. He is a member of the National Honor Society and is a two time state competition winner for the Pennsylvania Junior Academy of Science in the Physics category, and has won first place in the state competition for the Junior Engineering Team. Michael is a Wendy's High School Heisman State Finalist, a Donley Award for Excellence recipient, and the Scholar Athlete for his Varsity Golf Team. Michael serves as captain of the Track and Field team, Junior Engineering Team, and Science Olympiad Team. He attended the National Youth Leadership Forum in Washington, DC and participates on the Bethlehem Catholic Debate Team. He is a member of the FIAT Church Youth Group and volunteers his time with St. Anne's CYO cross country and track teams.

Marlee Rose Senderowitz

Marlee is graduating from Moravian Academy and plans to attend Georgia Institute of Technology, majoring in Materials Science and Engineering. She is involved in many activities; Peer Tutoring, Scholastic Scrimmage, Moravian Academy Student Ambassadors, Moravian Academy Pride Mentor, Bethlehem Boys and Girls Club, Coffee House Variety Show, Rutgers model Congress, University of Pennsylvania model UN, and Prom Committee Planner. She has also won scholarships and academic awards: Mensa, Carson Scholarship, Leader of Tomorrow, Kohl's Cares scholarship, Comenius Honors Independent Study, Presidents Education Award, International Leadership Network Young achiever Award, and was on High Honor Roll 3 years. She also contributes to her community with Coups for Troops and Super Sunday Jewish Federation.

Katie Marie Yannarell

Katie is graduating from Allentown Central Catholic High School. She will be attending Penn State Schreyer Honors College. She participated in Pennsylvania and Catholic math Leagues, Debate Team and Model United Nations. She captaining her Varsity Volleyball team, was on the varsity track team, and was Secretary of Best Friend Forever [outreach to handicapped students] at Mercy Special Learning Center and Kairos Retreat Leader. She is also a member of the National Honor Society and won a Bishop's Catholic Scholar Award. She has also given her time volunteering to the American Red Cross and Meals on Wheels. Her major in college will be Bioengineering and Biomedical Engineering.

Jacob Daniel Alfieri

Jacob is graduating #1 in his class of 616 from Easton High School. He will be atten-

ding Penn State's Schreyer Honors College in the fall to study Chemical Engineering. He was on his varsity cross country, track and soccer teams. He is also an Eagle Scout. He is a member of the National Honor Society, and participated in Technical Student Association, Pennsylvania Junior Academy of Science Competition, and Engineering Olympics. He has also won numerous academic awards.

PSPE President Elect Eric Tapper, PE, installed the Chapter officers for the coming year.



Chapter Director Don Kohn, PE; Secretary Chris Williams, PE, LEED AP; President Kevin T. Campbell, PE LEED AP; Chapter Director Al Dezubay, PE; State Director Angelika Forndran, PE; Treasurer Raymond Szczucki, PE; Vice President Alfred Gruenke, PE. Missing: Chapter Director Nicole Gasda, PE, and Alt State Director Mike Basta, PE.

Eric gave a short talk to the up-and-coming Engineers. He emphasized the importance of the need of people skills in engineering; technical skills are not enough.

Pennsylvania MATHCOUNTS Team 5th in the Nation

The Pennsylvania MATHCOUNTS team consisting of Christopher Lee (Carson Middle School, Pittsburgh); Joseph Feffer (Mt.

Nittany Middle School, State College); Kiran Rebholz (The Shipley School, Bryn Mawr); and Wanlin Li (Ingomar Middle School, Pittsburgh) advanced from the Pennsylvania MATHCOUNTS competition to take fifth place as a team at the Raytheon 2014 MATHCOUNTS National Competition.

The competition was held May 8-11, 2014, in Orlando, FL. The 224 final Mathletes® from 50 U.S. states, U.S. territories, State Department schools and Department of Defense schools and their coaches were treated to a National Competition experience like no other, including Disney theme parks and The Sum of All Thrills at Epcot.

Congratulations to the Pennsylvania team for their fine showing.

The “Green” Grocery Store

Alfred Gruenke, PE

When the subject of energy efficient buildings or operations arises, supermarkets seldom come to mind. We see them as big, box-like structures whose function is to provide us with food and other amenities to which we have been accustomed.

That premise was dispelled by Jihad Rizkallah, LEED AP, Vice President of Responsible Retailing at Ahold USA, the parent company of Giant Food in Trexler-town, to over a dozen members of the Lehigh Valley Chapter and guests on April 7 of this year.

Jihad explained that Giant Foods has a “Better Neighbor” Promise. This Promise manifests itself in promoting best practices in recycling, supporting local, schools, charities and food banks, and sourcing own brand products from socially responsible suppliers. For example, all seafood wild caught or farm-raised comes from sources that utilize practices ensuring the longevity of the fishery/aquaculture operation while working to

minimize environmental impacts and promote positive economic and social growth.

Giant has its own product line of natural and organic foods, with a distinctive brand name, Nature's Promise, and a distinctive logo.



But it is with energy reduction that this and other Giant facilities are making a break from the past and its impact on the environment. The corporation made a commitment that all new stores be LEED certified. These new stores are on average 20% more energy efficient than the generation of stores they are replacing. This is an ongoing process, with 60 new and existing stores having received LEED certification since 2008. Energy usage of completed stores are studied, with successful features incorporated into new stores.

GIANT
This Store is LEED Certified
Our Commitment

Stop & Shop is committed to our customers and the environment. This commitment extends to all of our stores, and translates our savings into low prices for you—the shopper. All new stores are being constructed with the green building features described here, and in the coming years, most new stores will become officially LEED Certified.

We first took action in the 1990s with the Rocky Mountain Institute to transform design ideas for our Low Energy Superior (LESS) model that have been applied to our stores for over a decade. We are one of only a few supermarket companies across the country to have achieved recognition by the U.S. Environmental Protection Agency ENERGY STAR™ program. We have a portfolio of 50 stores that were certified in 2008 as part of the LEED for Existing Buildings: Operations & Maintenance program. We continue to innovate in the supermarket industry by installing solar PV panels on rooftops, utilizing advanced CO2 based refrigeration in some stores, and testing hydrogen fuel cell systems which can produce 50% of the electricity for any given store.

For more details on our Corporate Responsibility (CR) commitment, including our healthy living, waste management, and sustainable foods initiatives, or to read our annual CR report, please visit: www.ahold.com/responsible

SUSTAINABLE SITES	WATER EFFICIENCY	ENERGY & ATMOSPHERE	MATERIALS & RESOURCES	INDOOR ENVIRONMENTAL QUALITY
<ul style="list-style-type: none"> • Pollution prevention measures were in place during construction activity. • Minimized heat gain from the sun with a roof when relative wind and extra layers of insulation. • Site suited for alternative transportation. • Stormwater management design prevents runoff into local waterways. 	<ul style="list-style-type: none"> • New stores have brought outdoor irrigation systems. • In-store water savings was achieved with low-flow toilets and faucets with water-efficient ice machines, dispensers, and food servers. 	<ul style="list-style-type: none"> • Skylights provide natural light and lighting (dim-to-wake) to reduce electricity use. • Low-energy fluorescent lamps, motion and heating and air conditioning units, which contain no ozone-depleting CFCs or HCFCs. • Use of LED lighting, which uses less energy and produces no heat in warm climates. • Some stores have solar PV panels on the roof which produce the electricity for a given store. 	<ul style="list-style-type: none"> • 75% of construction waste was diverted from landfill through reuse and recycling. • Our store design provides materials that are recycled and made from recycled content. • Our store design promotes sustainability throughout. • Over 50% of this store's solid waste is recycled, including cardboard, packaging, cups, and containers. We recycle plastic grocery bags and also encourage the use of our reusable grocery bags. 	<ul style="list-style-type: none"> • We used low-VOC paint, flooring, glues, and other materials to improve indoor air quality. • Careful procedures and strict safety controls and before occupancy were followed to ensure a better indoor air quality. • This is a smoke-free facility. • We practice green cleaning methods with non-toxic materials to improve indoor air quality.

What is LEED?
The LEED® (Leadership in Energy and Environmental Design) green building certification program is the internationally accepted benchmark for the design, construction, operation, and maintenance of high performance buildings. The LEED rating system provides building owners and operators a common framework for identifying and implementing practical and measurable green building practices.

LEED offers third-party verification that a building or community well designed and fully using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO2

In the U.S., buildings account for:

- 73% of electricity consumption
- 40% of primary energy consumption
- 60% of new materials used
- 39% of CO2 (in greenhouse gas emissions and non-greenhouse gas emissions)
- 14% of total water (potable water consumption)

Construction & Demolition waste accounts for:

- 40% of the total waste sent to landfills in the U.S.

This building, which opened in December of 2011, has a LEED rating of 42 points. All aspects of the campus were designed with recycling and energy efficiency as the primary criteria. It started out with construction materials and techniques that met LEED specifications. The parking lot plants are native to this area and do not require extra watering. The roof has a white membrane which reflects sunlight, reducing heat transmitted into the building, thus reducing the cooling requirements throughout the store. The restrooms use low flow fixtures consuming less water and have no paper towels. Many of the rooms have occupancy sensors, turning off the lights when not in use. The storm water runoff is managed. Fans use ECMs (Electrically Commutated Motors), which are the new generation of fan motors that are on average 30% more energy efficient than the older fan motors they are replacing. Low wattage heaters on the freezer cabinet doors are used to prevent condensation. Heat from the refrigeration compressors is reclaimed and used to heat the water and for first stage space heating inside the store. Low volatile organic compound (VOC) paints, sealants and adhesives were used during construction as well as ongoing maintenance. Even the cleaning fluids are eco-friendly. Emphasizing the latter point, the comment was made that LEED buildings smell fresher! Giant has a goal to achieve zero waste by 2020. This means that at least, 90% of the waste it generates will be diverted from the landfills

Interior lighting has a special emphasis. There are fifty skylights in the ceiling. Light level sensors control the dimmable fluorescent lights to maintain a constant, pleasing level of lighting. Lighting in the various display cases are LEDs, which use on average 40 to 50% less electricity when compared to regular fluorescent light bulbs. Track lighting is also LED. There is a conscious effort to convert all lighting to LED

lighting as the technology becomes available in the future.

All in all, an interesting glimpse into a world beyond the stocked shelves, display cases, and fresh produce. We thank Mr. Jihad Rizkallah, LEED AP, for the opportunity.

 When I dance, I don't try to be better than anyone else. I try to be better than myself.
 -Mikhail Baryshnikov

 There is no point so high that one can say, "This is the peak."
 -Violin virtuoso Jascha Heifetz

 Fortune knocks at every man's door once in a life, but in a good many cases the man is in a neighboring saloon and does not hear her.
 -Mark Twain

 In skating over thin ice our safety is in our speed.
 -Ralph Waldo Emerson

 No great deed is done by falterers who ask for certainty.
 -George Eliot

 Only a man who knows what it is like to be defeated can reach down to the bottom of his soul and come up with the extra ounce of power it takes to win when the match is even.
 -Muhammad Ali

 The bureaucracy must be served, even if it's at the expense of progress, or profit.
 -Dr. August Polinske

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 “Pennsylvania Engineering Foundation” or “PEF”. Donations should be mailed to:

Peter O. Staffeld, PhD, PE, F.NSPE
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Please note “LVPSPE Scholarship Fund” on the comment line.

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

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

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Joseph B. McCarthey, PE
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Board of Direction Meetings

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

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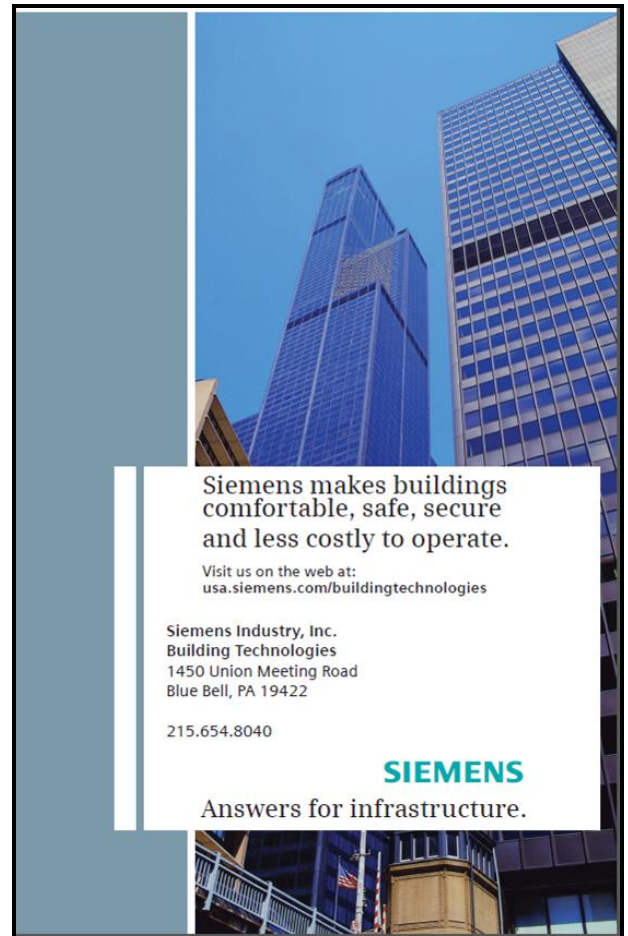
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WE WANT YOU!

The Lehigh Valley Chapter, Pennsylvania Society of Professional Engineers is seeking engineers to become more active in our organization. We have many roles to fill, which will require a minimal of your time.

The Lehigh Valley Chapter prides itself on service to the engineering community, the communities in which we live, and to our fellow engineers. We sponsor the MathCounts program, in which over 200 students from thirty area schools compete annually. Our Scholarship program disbursement to graduating high school seniors enrolled in an engineering curriculum has risen from \$750.00 to \$2,000.00 during the last couple of years. These programs are invaluable for ensuring another generation of quality Engineers. However, such programs require volunteers to solicit funds, organize, and staff. Participation is rewarding on both the personal and professional level. As an added bonus, you will display your pride in your profession to the impressionable youth of our country.

The Commonwealth of Pennsylvania requires every Professional Engineer registered in the Commonwealth to complete 24 PDHs bi-annually in order to renew their licenses. The Lehigh Valley Chapter offers monthly tours of area businesses and presentations which often qualify for PDHs. By attending these tours you will become more familiar with the great industries in our area and obtain PDHs with minimal effort. These events also offer networking opportunities during these uncertain times.

Last, but not least, our Officers and Board of Director members are seeking individuals to step in as a member of our governing body. The present officers have served for a couple of years and are actively looking for replacements. Our Chapter is one of the most active in the state, and we have a legacy of service.

Your PE license is of value to you and to others. Involvement in the Lehigh Valley Chapter, Pennsylvania Society of Professional Engineers can only enhance its value