



Valley Engineer Newsletter

June, 2014

UPCOMING PROGRAMS

- July 1-6 NSPS Annual Meeting, Grand Hyatt, Washington, DC
- August 4-7, STEAM Camp, Lafayette College Acopian Engineering Center, Easton, PA. For 4th, 5th, & 6th graders. bauern@lafayette.edu 484-541-3360
- September 17-19 PSPE Conference, Holiday Inn, Fogelsville.
- 2014 Northeast Regional Meeting/ Maryland Engineers Conference, October 30-November 1



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**LEHIGH VALLEY CHAPTER
(ORGANIZED 1935)**

President's Message

Kevin T. Campbell, PE, LEED AP

On June 5, Chapter members and guests spent a delightful evening at Coca-Cola Park. This tour was different from our usual fare, but perhaps we should make this an annual event to cap off the year. Most of our monthly tours were sold out, as was the Coca-Cola Park event. It's been a good year.

I recently received an e-mail from Lee Ann M. Slattery, CSI LEED AP. She alerted me to a four day STEAM (science, technology, engineering, arts, math) "camp" at Lafayette College for 4th, 5th, and 6th graders. I encourage everyone to consider signing up their children, grandchildren, neighbors, etc.; our profession has a great future, and we should continually support it. Contact Nikki Bauer at bauern@lafayette.edu or 484-541-3360. Our Chapter will be a sponsor and will provide scholarships and volunteers. Their ad is at the end of this newsletter. Anyone interested in volunteering please contact Don Kohn, PE, at kohnengineering@ptd.net.

Also, don't forget the State Conference at the Holiday Inn in Fogelsville on September 17 - 19. We are the host Chapter. There are some really great PDH presentations, so this is a great opportunity to accumulate PDHs,

I thank you all for the support you have given me and the other officers, and I am looking forward to our August meeting.

Lehigh Valley Health Network Tour

Alfred Gruenke, PE

All of us are familiar with the extensive complex of buildings which comprise the Lehigh Valley Health Network adjoining Cedar Crest Boulevard and I-78, a few miles west of Allentown. To the community at-large the campus represents doctors, and healing, from the myriad of illnesses and accidents that befell us in the course of our daily lives.

But as Engineers, we know that the high-tech wizardry of modern medicine depends on more basic hardware and systems in the background to keep them operational. Two dozen members of the Delaware Valley Green Building Council and Lehigh Valley Chapter, Pennsylvania Society of Professional Engineers were allowed to view this hidden world.

Craig Onori, Vice President of Support Services gave a short presentation extolling the many features of the complex, concentrating on the Kasych Family Pavilion.

The hospital encompasses five campuses; LVH-Cedar Crest, LVH-17th Street in Allentown, LVH-Muhlenberg in Bethlehem, LVH-Hazleton, and LVH-Tilghman in west Allentown. Each year there are 60,585 admissions. With 13,100 employees, LVHN is the Valley's largest employer. There are over 3,700 nurses and 1,340 physicians.

The Kasych Pavilion at the LVH-Cedar Crest hospital was the first LEED-certified health care facility in Pennsylvania, and energy efficiency is an ongoing concern. The hospital is in the process converting from fluorescent to LED lighting wherever feasible. The LVHN offices in One City Center adjacent to the Allentown Arena is in the process of

"harvesting daylight" by installing light level sensors and dimmable lighting.

The roofs of the LVH-Cedar Crest and LVH-Muhlenberg hospitals have solar photovoltaic cells on them. These solar cells consists of 1,347 panels, and can generate 306,000 kWh per year, enough to power 27 homes. The Hackerman-Patz house, an on-campus facility at LVH-Cedar Crest to house the families of long-term patients, has all of its hot water supplied by the solar thermal panels.

The hospital had participated in a two-year test of a hydrogen powered shuttle bus at the LVH-Cedar Crest campus in partnership with Air Products, Ford, and US DOT. LVHN is currently using the first commercial vans powered by compressed natural gas (CNG) in the Lehigh Valley. There are also bicycle racks and a LANTA bus stop at the LVH-Cedar Crest campus.



Solar Panels atop of Kasych Pavilion

The hospital has received the Green Campus award for its continual recycling. It recycles 384 tons of paper per year. Toilets are dual function, and there is no bottled water. The hospital kitchens generate 185,000 lbs. of waste annually which is composted on nearby farms.

We had a tour of the building. Autoclaves treat 746 tons of medical waste per year, converting it to material inert enough to be disposable in a landfill. The Cleaver Brooks boilers can be fired with either gas or oil, and utilize waste stack heat to preheat boiler feed water.

Five Caterpillar 1,250 kW generators fueled with Diesel oil provide emergency power for the hospital. They are tested on a regular basis to ensure they will start in the event there is a power outage.

We thank Craig and his staff for an interesting view of the complex infrastructure necessary to keep this high-tech facility operational, and to do it in an environmental friendly manner.

 I long to accomplish a great and noble task, but it is my chief duty to accomplish small tasks as if they were great and noble.
 -Helen Keller

A Night at the Ball Park

Alfred Gruenke, PE

The crack of the bat! The roar of the crowd! Members of the Lehigh Valley Chapter, Pennsylvania Society of Professional Engineers and guests were treated to a tour of Coca-Cola Park and a Lehigh Valley IronPigs baseball game on a shirt-sleeves-and-shorts night on June 5th in Allentown's East Side. The home team played a scheduled game against the Louisville Bats. Kurt Landes, President and General Manager of the IronPigs presided over the tour. The Lehigh Valley IronPigs are a Triple A level minor league baseball team and a farm team for the Philadelphia Phillies.

Ground was broken on September 6, 2006, and was completed in February 2008. The first game was against the Philadelphia Phillies before the season opener on March 30,

2008. The Park was built on land on which the manufacturing facility of Western Electric stood. It became an overnight sensation and has drawn rave reviews for its intimacy, fan-friendly atmosphere, and architectural design. Following a trend started by the Baltimore Orioles and their stadium, Camden Yards, fans can view the game even when in the concourse area, which is open to the field for 360°. The field layout is similar to Citizens Bank Park in Philadelphia, home of the Phillies.

Kurt stated that the goal is keep everyone entertained, since eighty percent of the attendees are not necessarily baseball fans. Watching a game should be fun for everyone! Coming up with innovative 120 second entertainment segments is a challenge the staff meets every game day. He stated that the price of a ticket is less than the price of a movie ticket, thanks to a great fan base and loyal corporate sponsors.

The concept has been a resounding success. Lehigh Valley IronPigs fans are the best fans in all of Minor League Baseball. The stadium maximum capacity is 10,100; 8,200 seats plus seating for 1,900 on the grass berm in center field. Attendance averages 9,100 per game. With 613,075 visitors in 2013, including 20 consecutive sellouts to conclude the year, Coca-Cola Park remains Minor League Baseball's most visited venue since debuting in 2008. Dugout suites (behind home plate) are an IronPigs innovation and is being copied by other ball fields. They're sold out by Christmas. There are twenty suits and two party suites. The PPL Pavilion, where we sat to eat, drink, and watch the game, is sold out 75% of the time.

Continued on page 15

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:

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

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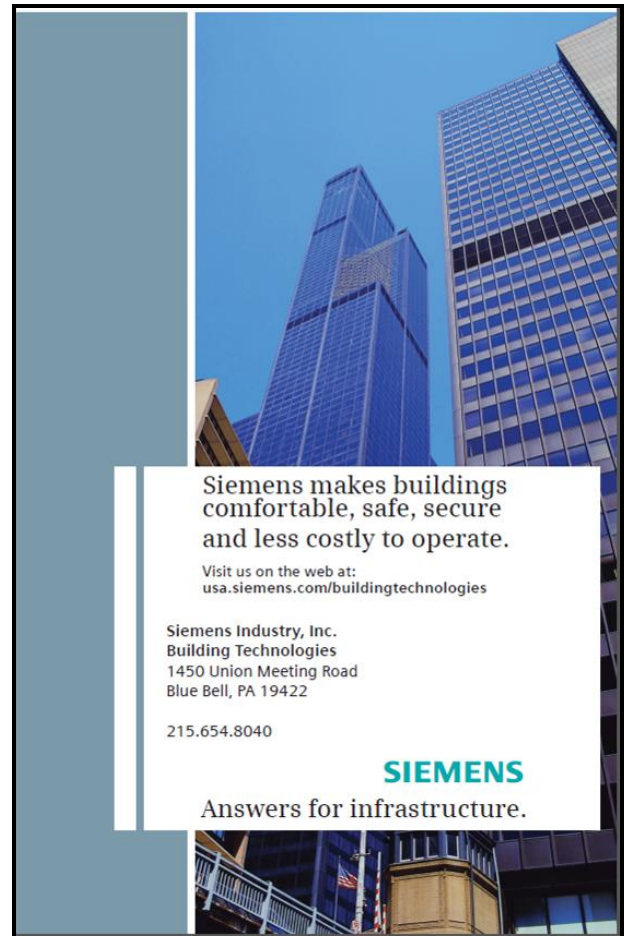
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Kurt emphasized that the name IronPigs and the logo are a tribute to the industrial history of the Lehigh Valley. The name is replicated in numerous concourse vendors, the bullpen (Pig Pen), and the fans on the lawn area (Pigs on a Blanket). The club house is decorated with a mural of the Bethlehem Steel blast furnaces. The recently introduced logo, Bacon, has become a favorite for fans not only in the Lehigh Valley but throughout the league.

There are forty full time and around 400 part time employees; 350 – 375 people are on duty during any given game. The ground crew consists of six persons. There are seven “mascots”, Fe Fe and Ferous. The stadium has a full kitchen and is the largest restaurant in Allentown.

The aforementioned ground crew has a relatively easy job since the field is designed for easy drainage. It consists of twelve inches of gravel plus twelve to fourteen inches of sand. The field is playable in a relatively short time after even a deluge.

The IronPigs lost to the Louisville Bats by a score of 10-9.

On this particular evening the best mascot in all of professional sports, the Philly Phanatic, graced us with his presence, adding to the festive atmosphere.

It was a pleasant way to end our Chapter’s very successful year! Our thanks to Kurt Landes and the IronPigs organization.

On a lighter note, your humble correspondent was asked to represent the Chapter and throw out the first pitch. Not wishing to blow my own horn, I will merely say that I razzle-dazzled the catcher, who was unable to handle my sizzling 50 mph (or less) fastball, merely because I was slightly (no more than a foot or two) off the plate!

To commemorate my athletic endeavors, I was awarded the game ball. ‘Nuff said.



I've missed more than 9,000 shots in my career. I've lost almost 300 games. Twenty-six times, I've been trusted to take the game winning shot and missed. I've failed over and over and over again in my life. And that is why I succeed.

-Michael Jordan

Service to others is the rent you pay for your room here on earth.

-Muhammad Ali

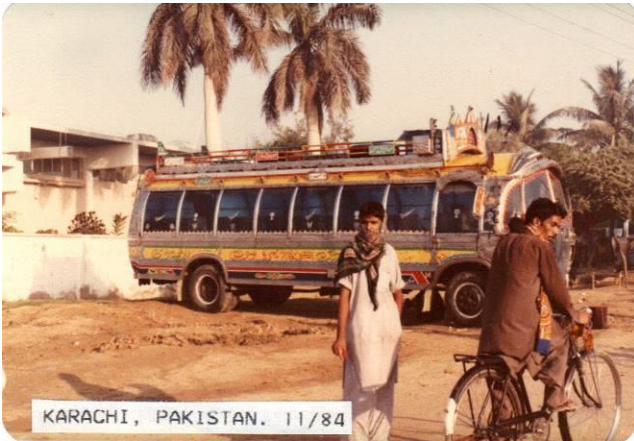
For me, winning isn't something that happens suddenly on the field when the whistle blows and the crowds roar. Winning is something that builds physically and mentally every day that you train and every night that you dream.

- Emmitt Smith

Crab Fishing in Karachi

Alfred Gruenke, PE

When thinking of fishing of any kind, the environs of Karachi, Pakistan, rarely comes to mind. One envisions dusty streets jammed with traffic, people in strange dress and headgear, different customs. And you would be correct. It's not the most hospitable of places, even in the "Americans are the good guys" days of the 1980s.



Street scene, Karachi



"Low Tech" transport, Karachi

Strange as it may seem, there is, indeed, fishing in Karachi.

The venue was "Bunderboots", loosely translated from German as party boats. These were small boats, less than twenty feet in

length, in which the locals took groups out into Karachi harbor to catch blue crabs. The name "Bunderboots" originated from Swiss Air; Karachi was a turn-around for the airline. Their flight crews stayed at the same Holiday Inn as I did, across the street from Jinnah Park and a short walk to the American Consulate.

So, on a sunny Friday afternoon, a couple of companions and I made our way to the docks and hired a "Bunderboot" with a crew of two for ten bucks a person. The motorized craft took us away from the shipping lanes and dropped anchor. Karachi may conjure images of gross pollution, but the water was remarkably clear, similar to the Jersey shore.

We were each given a fishing rod and reel with a large hook, some dead fish as bait, and a landing net. The concept was simple. You put a piece of fish on the hook and dropped it overboard until it hit the bottom. Then you slowly moved the rod up and down until you could feel an added weight. That meant that a crab was chewing on the bait. Then you very slowly reeled in the line until the crab was visible, still in the water. The net was then used to scoop up the crab. If the crab was lifted out of the water, it would let go of the bait and drop off. One had to be careful, and quick with the net.

Knowing that the foreigners were likely incompetent, the crew was also engaged in catching crabs.

Then came the good part. The crew had a small stove on board and cooked the crabs. How fresh can you get? They made crab soup and broiled crabs. Added to the vegetables and bananas the crew had brought, it was simply delicious!

Coupled with some adult beverages and orange juice, a very pleasant way to spend an afternoon.

OUR BEAUTIFUL WORLD

Lafayette College STEAM Camp 2014

When:
August 4th-7th from
9am to 4pm

Where:
Lafayette College
Acopian Engineering Center
740 High Street
Easton, PA 18042



What is STEAM?

We're not talking about the August weather! It's Science, Technology, Engineering, the Arts, and Mathematics. Growing from last year's STEM camp, come explore how the STEAM fields interact and make our world amazing!

Open to rising 4th, 5th, and 6th graders of the Greater Lehigh Valley.

For more information, or to sign up, contact:

Nikki Bauer at bauern@lafayette.edu or (484) 541-3360