Farewell to Thee

This is my final president’s corner message now as past president, for this newsletter. The annual election of officers and directors was held in June and the new board members assumed their duties as of the August board meeting. The new section president is John Caperilla. His various accolades, work experience and dedication to ASCE are summarized later in this newsletter. Thank you to everyone’s help and contributions making this year a great success. Congratulations to the rest of the new Board of Directors listed below.

President’s Corner

Introducing the 2016-2017
ASCE Lehigh Valley Section Board of Directors

President: John Caperilla, EIT
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Member Director: Col. Steven Ressler, Ph.D., P.E.
Associate Member Director/YMF President: Joe McFadden
Associate Member Director: Chris Skrabak, EIT

UPCOMING EVENTS:

Structural Committee
Dinner Meeting
Thurs. October 27, 2016

Transportation Committee
Dinner Meeting
November 10, 2016

Holiday Banquet
December 8, 2016

email:
lvasce1922@gmail.com

Website:
www.lvasce.org

Facebook:
http://facebook.com/lvasce

Twitter:
https://twitter.com/LVASCE

LinkedIn:
http://bit.ly/1MPx7kg
Meet LVASCE’s New President, John Caperilla E.I.T, M.ASCE

John came to the Lehigh Valley two years ago when he joined Borton-Lawson in their Bethlehem office as a Highway Engineer in March 2014. A year later, John was promoted to Project Manager where he focuses on PennDOT projects in eastern and central Pennsylvania and County transportation projects in the Lehigh Valley and well as advising the transportation leadership team on business development opportunities in the Philadelphia region. John is an experienced transportation engineer with over a decade of experience in highway design, project management and construction. John began his career with Allan Myers in their corporate office in Worcester, PA as an Estimator/Project Engineer where he primarily focused on water and waste water treatment plant construction projects in Pennsylvania, Delaware and Maryland. In 2006, John decided to take a different direction in his career and moved to the design side joining Gannett Fleming as Highway Engineer in their Valley Forge, PA office. John worked on a wide variety of projects for PennDOT, municipal, and railroad clients. While working at Gannett Fleming, John was a member of the project team for the South Street Bridge in Philadelphia which won several awards including the ACEC/PA Diamond Honor Award for Engineering Excellence – Structural Systems and 1st place from Roads & Bridges – 2011 Top 10 Bridges. He spent two years working as a Consultant Project Manager for PennDOT in their District office in King of Prussia under contract with Gannett Fleming, where he oversaw project development for a variety of design efforts by design consultant firms.

John graduated from Montgomery County Community College (MCCC) where he received his Associate’s Degree in 2001 and continued his education graduating from Temple University in 2003. John continues to be active with both institutions and is the current President of the MCCC Alumni Association and serves as the Immediate Past President for the Temple University College of Engineering Alumni Association and is a Past President of their Young Alumni Association.

John is also the Second Vice President of the Delaware Valley Section of the American Society of Highway Engineers where he chairs the Student Chapters Committee and was instrumental in the creation of Student Chapters for both Temple and Widener Universities. In addition, John is actively involved with several professional societies in the Philadelphia region including the Engineers Club of Philadelphia, Future City and MATHCOUNTS.

For his work, John has been recognized by several organizations. He is the 2015 LVASCE Young Civil Engineer of the Year, was awarded the 2016 National Young Member of Year by the American Society of Highway Engineers and is in 2014 was selected as a member of the Montgomery County Community College’s fabulous 50 alumni which celebrated the College’s 50 Fabulous Representatives of Montgomery County Community College’s Outstanding Alumni over their 50 year history.
LVASCE 2016 Summer Picnic
By: Mike Derr, P.E., M.ASCE

August again provided some hot weather this summer but luckily it cooled down in time for the Lehigh Valley Section’s members and their families to enjoy the summer evening together on August 25th. This year the LVASCE Summer Picnic returned to Hugh Moore Park and the National Canal Museum in Easton. Historian Charles Derr was on hand to provide tours of the museum showing off some of the local engineering marvels of the canal system. In between tours of the museum, walks on the towpath, and kidding around on the playground, the rest of us enjoyed a great summer picnic spread of hot dogs, burgers, salads, and new this year, steamed Maryland Blue Crabs. Even though the free crab feast seemed to push the picnic to its highest attendance in recent years with 40 attendees, there were still plenty of crabs available at the end of the night. Hopefully even more can join us next summer where we plan to continue the free crab feast and maybe the introduction of some competitive backyard games hosted by the Younger Members.
Volunteers Needed for EPIC Educational Outreach Program

The LVASCE Education and Professionals Integration Committee (EPIC) needs your help. EPIC was recently established to facilitate educational outreach to local schools. We are in the process of contacting and establishing working relationships with science and technology teachers around the Lehigh Valley and are already receiving requests for outreach support.

We are seeking LVASCE volunteers who are interested in participating in the following types of educational outreach activities:

1) Participate in a phone interview with a student, in fulfillment of an “Interview an Engineer” course requirement.
2) Host one or more students on a “job shadow” in your workplace.
3) Give a “What is civil engineering?” presentation to a middle school or high school class.
4) Work with a school teacher to develop and present a civil engineering focused classroom presentation in support of an existing math, science, or technology curriculum.
5) Mentor a student team on an engineering project.

If you are interested in any of these activities, please contact Stan Shelosky (stanshelosky@yahoo.com) or Steve Ressler (sjressler@gmail.com), and please specify the specific type(s) of outreach activities in which you are willing to participate. We hope to establish a large pool of interested volunteers, to provide maximum flexibility in responding to requests for educational outreach support.
LVASCE’s Night with the IronPigs
By: Dave Alban, P.E., M.ASCE

On Friday, July 15th LVASCE members, families and friends attended the Lehigh Valley IronPigs vs. Buffalo Bisons baseball game at Coca-Cola Park. Watching the game from the VI"Pig" Suites which included a buffet in the climate controlled suite with plenty of room both inside and outside to watch the Pigs play ball and everyone enjoying the company of Fefe. The game was a dominate performance by the Iron Pigs defeating the Bisons with a 10-0 victory. The evening ended with the traditional Friday night fireworks.

We are currently seeking professionals in various disciplines and locations. Visit us at www.TrafficPD.com to check out our openings.

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TWO POST-DOCTORAL RESEARCH ASSOCIATES
Department of Civil and Environmental Engineering
Lehigh University

Professor Dan M. Frangopol is looking for two Post-Doctoral Research Associates on projects related to life-cycle reliability, maintenance, health monitoring, management and optimization of civil and marine infrastructure systems. Candidates must have a Ph.D. and background and research accomplishments in structural engineering in one or more of the following areas:

Structural Reliability and Probabilistic Methods, Monitoring-Maintenance-Management-Cost of Civil and Marine Infrastructure (particularly bridges and ships), Structural Optimization, and Life-Cycle Engineering.

Starting date is December 2016, but this is negotiable.

Lehigh has internationally respected programs and outstanding structural research facilities including the Computational Laboratory for Life-Cycle Civil Engineering. The interdisciplinary research program brings together internationally recognized faculty and staff that have a well-established tradition of developing and implementing technology. Applicants should send a detailed resume, along with the names and addresses of three references to:

Geri Kery
Coordinator to Professor Dan M. Frangopol
Fazlur R. Khan Endowed Chair of Structural Engineering and Architecture
Department of Civil and Environmental Engineering
Center for Advanced Technology for Large Structural Systems (ATLSS Center)
Lehigh University
117 ATLSS Drive, Imbt Laboratories
Bethlehem, PA 18015-4729, USA
Phone: (610) 758-6123
Email: gek211@lehigh.edu
Within the boundaries of the Lehigh Valley Section there are six ASCE National Historic Civil Engineering Landmarks: the Old Bethlehem Waterworks, Roebling’s Delaware Aqueduct, the Starrucca Viaduct, the Tunkhannock Viaduct, Fritz Engineering Laboratory, and the Northampton Street Bridge.

The third Landmark named within the Section was the Starrucca Viaduct, designated on October 14, 1973. The Viaduct is part of one of the earliest links between the Eastern seaboard and the Midwest. The structure is 1,040 feet long from abutment to abutment, about 90 feet above the ground, and about 25 feet wide at the top. The bridge has 17 semi-circular arches of 50-foot diameter supported on slender piers. The arches support outside parapet stone walls and three inside parallel longitudinal brick walls. The five walls carry the bridge floor including a flagstone base and ballast. The viaduct was constructed of blocks of bluestone quarried locally and laid in mortar made of natural cement mixed with sand and lime. The labor force in May of 1848 is said to have numbered about 800.

Construction started in the Spring of 1847 and the first locomotive crossed the viaduct on December 9, 1848. Locomotives crossing the viaduct have increased in weight from about 15 tons to a maximum of 422 tons.

The viaduct was designed by Julius W. Adams and built by James P. Kirkwood, his brother-in-law. Both were founders of ASCE and served later as ASCE Presidents, Kirkwood as the second and Adams as the sixth.

To visit the Starrucca Viaduct travel north on I-81 to Lanesboro (see detailed directions and pictures at lanesboropa.com). Lanesboro is about 2 hours north of the Lehigh Valley near the New York border.
ASCE Grand Challenge: Lehigh's contribution

Highlights

- The ASCE Grand Challenge: significantly enhance the performance and value of infrastructure projects over their life cycles, reduce the life-cycle cost of infrastructure by 50 percent by 2025, and foster the optimization of infrastructure investments for society.

- As a preliminary step in facilitating the Grand Challenge, the Industry Council Leaders of ASCE asked Dr. Frangopol and his research team to create a survey, called “Utilization of Life-Cycle Cost Analysis (LCCA) and Performance Based Design (PBD) for New and Existing Infrastructure.” The survey was shared with 18,000 civil engineers in the weeks leading up to the 2015 ASCE National Convention.

- The ASCE plans to publish the findings of the survey in a special publication on life-cycle performance of civil infrastructure systems, which is anticipated to be available in 2017.

Summary

The Industry Council Leaders of the American Society of Civil Engineers (ASCE) has turned to Dr. Dan Frangopol to help solve the ASCE Grand Challenge: significantly enhance the performance and value of infrastructure projects over their life cycles, reducing the life-cycle cost of infrastructure by 50 percent by 2025, and fostering the optimization of infrastructure investments for society. Therefore, over the next ten years, the leading civil engineering professional organization hopes that by encouraging its members to adopt life-cycle engineering principles into their everyday practice, they can collectively reduce life-cycle costs of civil infrastructure investments by 50 percent. As a preliminary investigation, the ASCE and Eno Center for Transportation released a report, “Maximizing the Value of Investments Using Life Cycle Cost Analysis,” that reviews the current use of life-cycle cost analysis and how it might be used to make informed decisions about future projects and costs.

To kick off the effort, Dr. Frangopol, Mohamed Soliman '15 Ph.D., and Ph.D. candidate Samantha Sabatino created a survey, called “Utilization of Life-Cycle Cost Analysis (LCCA) and Performance Based Design (PBD) for New and Existing Infrastructure,” that was shared with 18,000 civil engineers in the weeks leading up to the 2015 ASCE National Convention.

The results were compiled from this survey and the initial findings were presented at both the ASCE National Convention in New York City (October 11-14, 2015) and at the ASCE International Workshop on Life-Cycle Performance of Civil Structure and Infrastructure Systems at the ASCE headquarters in Reston, VA (November 10, 2015). The latter event was co-chaired by Dr. Frangopol and Dr. Fabio Biondini, an associate professor of structural engineering at the Politecnico di Milano, Italy. It was attended by 32 participants including industry leaders and prominent educators from North America, South America, Asia, and Europe.

Going forward, the ASCE plans to publish the findings of the survey and of the workshop in a special publication on life-cycle performance of civil infrastructure systems, which is anticipated to be available in 2017.
LVASCE to host P.E. Review Course in the spring for PE Exam!

Are you scheduled for the April P.E. Exam? Do you have employees or co-workers preparing for the exam? For the benefit of ASCE members and any others who are interested, the Lehigh Valley Section is making arrangements to host ASCE’s live P.E. Civil Exam 22-Part Review Course right here in the Lehigh Valley.

Course Description
Earning your P.E. license is one of the most pivotal steps in your career – make sure you are well prepared for this essential milestone by enrolling in an ASCE Review Course. This course is a series of 22 two-hour, live webinars held over a six-week period, covering topics and material that have high probability of appearing on the exam, according to your instructors’ experiential insight. You’ll benefit from immediate feedback and assistance from your instructors during the live webinars, and supplement your learning with on-demand recordings of the sessions.

Course Schedule
All Live Webinar sessions are scheduled for 3:00-5:00 p.m. Eastern Standard Time. ASCE has not yet released seminar dates. Please check back in the fall newsletter for further details.

Registration
Normally the individual course costs $1,995; however, LVASCE will be offering the group rate at $450 per person. This is a great way to prepare for the PE Exam. Please contact Jim Hendricks at jhendricks@rettew.com or any board member if you have an interest in the upcoming spring sessions. More information is available at www.ASCE.org by selecting the Exam Reviews under the Education & Careers heading.
Region 2 Director’s Message End May 2016

I hope that all of you are having a nice spring. As summer approaches, many things are going on within the Region. At the time of this writing, we are trying to get the word out as much as possible about the importance of Society voting. Please keep in mind that the Society has specific policies and eligibility requirements in place that must be followed. Only certain member grades may vote. For example Student members and Affiliate Members are not eligible to vote. We often emphasize the importance of Student Member to Associate Member transition. This is not automatic. All Student Members upon graduation must contact ASCE to upgrade their membership.

Schedule of Activities

• A Regional Governor contingent will attend with me at the 6/3/16 -100th Anniversary NCS Section Celebration/Symposium in Washington, DC.
• The Region 2 Board of Governors will host its annual summer face to face planning meeting on 6/18/16 in Mount Airy, MD. This meeting will be extra special, as this will mark the beginning of the Director transition.
• Over the summer we will strive to become 100% whole before I leave, by:
  o Working to fill an Appointed Governor Position and a new YMG Region 2 Representative.
  o We work to get our new website up and running and get our file structure in order
  o Finish and evaluate our year-long student chapter pizza party pilot project
  o Firm up planning for our next Assembly on November 14, 2016 at Morgan State University, Baltimore and
  o We assist the Philadelphia Section with the future of its Reading Branch.

As we look toward the fall, we will try to visit as many geographic entities as possible and perform new officer installations. We will also promote the 2017 roll out of the Dream Big Initiative Region wide, encouraging events such as red carpet promotions and movie viewing for school aged children.

On behalf of the Board, I wish all of you a safe and happy summer.

LVASCE Online

Link In with ASCE - Did you know that ASCE Lehigh Valley has our own LinkedIn group? Use the following link to connect with other local ASCE members: ASCE Lehigh Valley - LinkedIn

Share Photos on Facebook – Have you taken photos of local bridges, dams, or construction projects? Share your civil engineering related photos and pictures from ASCE events on our Facebook page. Some of the best photos taken by local ASCE members are featured on the front page of our website.

Job Postings – The job postings page on our website has been recently updated to include new career opportunities from local firms. Remember to check back regularly to view new postings.

Subscribe to our Calendar – Did you know you can subscribe to our calendar to sync ASCE events to your Google or Outlook calendar? Just visit www.lvasec.org/events/ and follow the instructions at the bottom of the page.
YMF Upcoming Events:

Covered Bridge Bike Tour
Sat. October 22, 2016

Happy Hour @ College Hill Tavern
Thurs. November 03, 2016

Holiday Bowling @ Revolutions
Wed. December 14, 2016

SEILV Upcoming Events:

Structural Committee Dinner Meeting
Thurs. October 27, 2016

We are now seeking young engineering professionals to serve on the Executive Committee to help organize events and operate our social media pages. Duties will include interaction with the student chapter and hosting networking opportunities as well as social gatherings. If you or someone you know is interested in joining the YMF, please contact Joe McFadden at jmcfadden@mbakerintl.com.

If you would like to get involved with SEILV or have any ideas for seminar/webinar topics, please contact SEI LV Chair, Matt Kawczenski, at mkawczenski@mgmclaren.com.
To commemorate the 150th Anniversary of Lafayette Engineering, students, faculty, alumni and parents will build a replica of the Free Bridge on the Quad!

The 150-foot long, 4-foot wide bridge will be assembled from 8 a.m. to noon using kits which have been prefabricated by Lafayette’s engineering shop. From noon through Sunday evening, Oct. 2, visitors can view and walk the replica.

The Northampton Street Bridge connecting NJ and PA, known locally as the “Free Bridge,” was designed by James Madison Porter III, a graduate of Lafayette’s Civil Engineering program and faculty member from 1890-1917. Porter’s grandfather, James Madison Porter, was one of the College’s founders in 1826. Lafayette Engineering will donate the materials to Habitat for Humanity of the Lehigh Valley after the bridge is dismantled.
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Member Director: Michael Derr, P.E.
Associate Member Director: Chris Skrabak, EIT
Associate Member Director/YMF President: Bethany Malusa, P.E.

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Program – John Caperilla (jcaperilla@borton-lawson.com)
Membership – Joe McFadden (jmcfadden@mbakerintl.com)
Nominating & Awards – Dion Campbell (dcampbell@rkrhess.com)
Engineer’s Week – Mike Derr (mderr@gtaeng.com)
Younger Member Forum – Bethany Malusa (bmalusa@benesch.com)
Student Chapter – Chris Skrabak (cskrabak@cherryweber.com)
Continuing Education – Jim Hendricks (jhendricks@rettew.com)
Legislative Affairs – John Caperilla (jcaperilla@borton-lawson.com)
Hospitality – Chas Snyder (csnyder@pennoni.com)
History & Heritage – Tom Christopher (civilchris@aol.com)
Geotechnical – Phil Gauffreau (pgauffreau@maserconsulting.com)
Structures – Matthew Kawczenksi (mkawczenksi@mgmclaren.com)
Transportation – Ben Guthrie (bguthrie@trafficpd.com)
Environmental/Water Resources – Aaron Frantz (frantzar@cdmsmith.com)
Newsletter – Kyle John (kyle.john@whiting-turner.com)
Newsletter Editor – Dave Alban (dalban@keystoneconsultingengineers.com)
Website – Ben Guthrie (bguthrie@trafficpd.com)

Job Postings:

HDR Job Postings
PPL – Civil-Structural Engineer
RETTEW – Senior Project Manager (Land Development)
FIGG Bridges – Bridge Designer
Barry Isett & Associates
Upper Macungie Township – Sewer System Operations Director
MKA – Survey Technician
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UTRS – Civil Engineer
UTRS – CAD Designer Technician
UTRS – Professional Land Surveyor
Keystone Consulting Engineers – Civil Engineer

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THANK YOU!!

Your generous contributions to the Section are greatly appreciated and enable us to provide our members with opportunities to build relationships and further their careers within the engineering community.

Other Advertisement Opportunities with the Lehigh Valley Section

One-time ad in newsletter (includes logo on website)
$100 for business card size
$150 for double business card size
$250 for full page

Sponsor a Student
$20 per dinner meeting or event

Sponsor an LVASCE Meeting
Gold $250: Includes one (1) admission; recognition in the meeting announcement sent to entire section; a PowerPoint slide, and option to hang company banner and table for advertising at the dinner.

Platinum $500: Includes Gold above plus two (2) admissions and opportunity to introduce your firm or project.
LVASCE October Dinner Meeting

Ultra High Performance Concrete
By: Gregory Nault, PE

When: Thursday, October 27, 2015
Time: 5:30 pm – Social Hour
6:30 pm – Buffet Dinner
7:30 pm - Presentation

Cost: $30 for members & future members
$15 for students

Where: Samuel Owens Restaurant
128 Chestnut Street
Coplay, PA 18037

Register Now!

SAVE THE DATE

LVASCE - Holiday Banquet

Renaissance Hotel Ballroom
Thursday, December 8, 2016

Topic: "Civil Engineering Education for Afghanistan."

Please watch for more details in upcoming email blasts.