President’s Farewell Message:

As I write my final message, I want to thank you for your support and for the Board for their hard work this past year. The officers and Directors for the 2017-18 year were installed at our annual Summer Picnic in August where I handed the reigns over to Mike Derr who will be your Section President for this coming year and I now take on the role of Immediate Past President.

Mike has proven to be a great leader both professionally and through his active involvement with the Section over the past several years. I look forward to working with Mike and the Board as they continue to carry the torch.

As we take a quick overview of the past year, the Section has several key successes that I would like to highlight.

- Dream Big, a movie about Civil Engineering which ASCE, in conjunction with several corporate partners produced, was released during Engineers Week. The Section’s EPIC committee took the lead in having a showing of the film as well as inviting several school Districts in the Region to bring their students to see this movie. Mike Derr and Steve Ressler did an outstanding job during Engineers week with the opening night showing and subsequent presentations to over a thousand middle school students throughout the Region.

Continued on next page
- YMF President Joe McFadden has been able to recruit several younger members to take on a Board position within the YMF. The engagement of young engineers is key to the long term success of any professional organization and with the growth of our YMF, we will be able to tap these members into leadership positions both with the YMF and, eventually the Section.

- Discussions took place on where the Reading Branch, which was at the time was inactive, would be best served. It was agreed that the Branch should be transferred from the Philadelphia Section to the Lehigh Valley Section. Since the transfer, several members from the Branch have stepped up and are working to bring more events to the Berks County area.

I will continue to stay involved in the Section. My focus will turn towards the Reading Branch and helping them continue their re-establishment efforts as well as continue my role on the PA State Council where we are preparing to put together the 2018 Report Card for Pennsylvania’s Infrastructure which will be released in the Spring of 2018.

I wish you all the best and I’ll see you at an upcoming event.

John Caperilla, E.I.T., A.M.ASCE
President, ASCE Lehigh Valley Section
Meet LVASCE’s New President Mike Derr, P.E., M. ASCE

Born and raised in the Lehigh Valley, Mike attended Bethlehem Catholic High School and participated in Bethlehem Area Vocational-Technical School’s engineering program. Following high school, Mike attended Drexel University in Philadelphia and Colby-Sawyer College in New London, New Hampshire. Mike earned a Bachelor’s degree in Civil Engineering from Drexel and a Bachelor’s degree in Business Management from Colby-Sawyer. While attending Drexel, Mike worked as an engineering field technician for Schnabel Engineering in West Chester, Pennsylvania. Mike continues to pursue his Masters in Geotechnical Engineering at Drexel.

In 2002, Mike moved to Philadelphia and joined Geo-Technology Associates, Inc. in Wilmington, Delaware. Over the course of the next 10 years, Mike held the positions of Senior Technician, Staff Engineer, and Project Manager. While working in Delaware, Mike specialized in Construction Materials and Testing during construction and in Geotechnical Field Explorations. In 2012, Mike moved back to the Lehigh Valley and joined GTA’s office in Quakertown. Mike currently manages the office’s laboratory and geotechnical exploration/design department while providing technical expertise on a variety of construction projects from Philadelphia to Scranton/Wilkes-Barre in Eastern Pennsylvania and New Jersey.

Mike was first licensed as a Professional Engineer in Maryland in 2009. He is also licensed to practice engineering in the states of New Jersey (2012) and Pennsylvania (2013). He has been an active member of ASCE since joining the Student Chapter at Drexel in 1997 and the Younger Members Forum in Delaware in 2003. While living in Philadelphia, he was active in both the Delaware and Philadelphia sections. Upon returning to the Lehigh Valley, Mike joined the LVASCE board in 2013 as a Member Director. Mike was also a MATHCOUNTS co-coordinator for the State of Delaware from 2010 through 2012.

Mike currently lives in Freemansburg, PA with his wife Kate and son Owen and their rescued pitbull terrier, Gertrude. He is an active volunteer with the Old Freemansburg Association and the D&L National Heritage Corridor. In the winter he works part-time for the Blue Mountain Competition Center as a snowboard coach and as a race-hill support staff member. In the fall and spring he volunteers as a coach for the Bethlehem Soccer Club. He is an active snowboarder, mountain biker, and golfer and spends a lot of his summer free time in their garden.

Introducing the 2017-2018 ASCE Lehigh Valley Section Board of Directors

President: Mike Derr, P.E., M.ASCE
President-Elect: David Wieller, Aff.M.ASCE
Vice-President: Kyle John, E.I.T., A.M ASCE
Secretary: Janelle L. Hall, P.E., M.ASCE
Secretary-Elect: Dave Alban, P.E., M. ASCE
Treasurer: Chas Snyder, P.E., M.ASCE
Past-President: John Caperilla, E.I.T., A.M.ASCE
Member Director: Dion Campbell, P.E., M.ASCE
Member Director: Col. Steven Ressler, Ph.D., P.E.
Associate Member Director/YMF President: Joe McFadden, A.M ASCE
Associate Member Director: Chris Skrabak, E.I.T, A.M ASCE
June LVASCE Dinner Meeting—Environmental Committee
By: Dave Wieller, Aff., M.ASCE

The Environmental Committee held its dinner meeting on June 14th and was fortunate enough to have William Erdman, P.E., M.ASCE of Keystone Consulting Engineers as the guest presenter. Bill’s topic of the night was an overview of the US EPA Administrative Order (AO) first bestowed upon the City of Allentown and ultimately the entire service area of the Kline’s Island Wastewater Treatment Plant. The AO was imposed following a series of sanitary sewer overflows (SSOs) which occurred during wet weather conditions. Interestingly, the issue lies not only with inflow and infiltration (I&I), but with that fact that portions of the sewer system are nearly at capacity during dry weather.

In conjunction with the AO, PADEP is limiting new connections due to capacity concerns. In all, portions of 15 municipalities are impacted. To address a problem of such breadth, significant inter-municipal and inter-agency coordination will be required. Currently, an extensive flow metering plan is underway in effort to identify sources of extraneous flows to better understand portions of the system which need to address I&I.

Long term solutions under consideration (to one extent or another) include source reduction, equalization tanks, additional interceptors, new pump stations and force mains, and flow blending. This last one has been of particular interest given the controversial nature in the eyes of the US EPA and PADEP.

In short, this regional problem will not be solved overnight. Regardless of the ultimate solution, the price tag will reach into the hundreds of millions of dollars. In the end, the solution will need to be a delicate balance between environmental protection and the public’s ability to pay for the upgrades.

Thank you, Bill, for your very engaging presentation!
LVASCE Summer Picnic  
By: Kyle John, E.I.T, A.M.ASCE

LVASCE section members and their families gathered at Hugh Moore Park in Easton on August 24th for the annual summer picnic. The guests could not have asked for better weather as it was a nice clear, cool summer evening. Last year’s crab feast was a hit so it was continued again this year, once again drawing a good crowd. Burgers, hot dogs, salads and a variety of deserts also accompanied the menu. Phil Gauffreau was present to do the honors of introducing and swearing in the new 2017-18 board members in front of their section peers. We hope you can join us for next years celebration!
“Dream Big” Follow-up: Assessment and Future Plans
By Stephen Ressler, P.E., Ph.D., Dist.M.ASCE

In February 2017, the LVASCE Education and Professionals Interaction Committee (EPIC) partnered with ArtsQuest to celebrate National Engineers Week with a series of educational outreach events. These events centered on public screenings of “Dream Big”—an inspirational film produced by ASCE, MacGillivray Freeman Films, and Bechtel. During the four-day period from February 21st through 24th, EPIC team members conducted seven free daytime “Dream Big” screenings for regional high schools and middle schools. All of these screenings were conducted in the 200-seat theater at ArtsQuest in Bethlehem. An EPIC volunteer introduced each screening; and afterwards, volunteers from LVASCE and other professional engineering societies conducted a question-and-answer session with the students and teachers. At the end of each Q&A session, all attendees—students and teachers—were asked to complete a short assessment survey.

In the months since February, we have analyzed the responses to these surveys, as a means of assessing the extent to which the “Dream Big” project accomplished its principal educational goals: (1) leverage the “Dream Big” film to enrich and enhance the LVASCE’s educational outreach program and (2) provide Lehigh Valley middle school and high school students with an opportunity to learn about engineering and to better appreciate engineers’ contributions to our world.

Participation Summary

782 students and 42 teachers attended the seven school screenings, as detailed below.

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<th>Number of Participants</th>
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<td></td>
<td>St. Anne’s School</td>
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<td>Bethlehem Catholic High School</td>
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<tr>
<td></td>
<td></td>
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</tr>
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</table>

TOTALS 475 307 42
Twins Oaks Consulting wins award in 2017 American Society of Civil Engineers (ASCE) Innovation Contest

(HAZLE TOWNSHIP, PA – June 26, 2017) – Twin Oaks Water Systems’ RainMaker water harvester has selected as the "Best Value in Green Engineering" in the 2017 American Society of Civil Engineers (ASCE) Innovation Contest.

Twin Oaks President John R. Ackerman, PE, PG, BCEE, F.NSPE, M.ASCE of Hazle Township, and Director of Operations Al Handy, PE of Blairstown, NJ, received their award certificates at a recent event in Reston, Virginia, where Ackerman gave a presentation entitled "Water Harvesting from Unconventional Sources" and received their award certificates.

The annual ASCE Innovation Contest is part of the ASCE Grand Challenge, where civil engineers from around the world are taking a pledge to meet the Grand Challenge goal of cutting infrastructure life-cycle costs in half by 2025. Potential ASCE Grand Challenge solutions revolved around four key elements: life-cycle cost analysis, performance-based standards, resilience, and innovation.

“Innovation is interesting because one of the things is it sometimes takes a little bit longer to consider. Innovation doesn’t happen in that fast framework of things you’re familiar with in your routine,” said Kristie Dunkin, a managing director for the Chambers Group in Santa Ana, CA. “It happens in the times when you can sit back and think about something. One of the fundamental approaches is to give people some time to think about things.”

The American Society of Civil Engineers represents more than 150,000 members of the civil engineering profession in 177 countries. Founded in 1852, ASCE is the nation’s oldest engineering society. ASCE stands at the forefront of a profession that plans, designs, constructs, and operates society’s economic and social engine – the built environment – while protecting and restoring the natural environment.

Through the expertise of its active membership, ASCE is a leading provider of technical and professional conferences and continuing education, the world’s largest publisher of civil engineering content, and an authoritative source for codes and standards that protect the public.

The Society advances civil engineering technical specialties through nine dynamic Institutes and leads with its many professional- and public-focused programs.

For more information on the contest and award winners, visit http://news.asce.org/innovation-contest-winners-showcase-forward-thinking-ideas/.
Welcome Reading Branch to LVASCE Section

By: John Caperilla, E.I.T, A.M. ASCE

I would like to welcome the Reading Branch to the Lehigh Valley Section. Over the past several months, the Philadelphia and Lehigh Valley Sections along with Region 2 had lengthy discussions about where the Reading Branch would be best served.

Bob Wright who is a Past President with the Philadelphia Section and Editor of their Section Newsletter was able to provide me with some history on how the Branch came to be which was published in the December 2016 Edition of the Philadelphia Section’s newsletter.

“The Section’s Reading Branch was founded in 1975 to establish an ASCE presence in the northwestern corner of our Section’s geographic area, namely Berks County along with northwestern segments of Chester and Montgomery Counties, and to better serve the growing Civil Engineering population in that area. Over the years, the Branch had roughly 200 members at its peak and provided a useful meeting program and events. From time to time activity waned a bit, and with changes in the Engineering business in the Reading area in the last decade, membership in the Branch began to decline. During that time, a few attempts have been made to revive the Branch, with limited success.”

In addition, many of the Philadelphia Section meetings are held in Center City and the commute from Reading can take several hours in rush hour traffic. This can prove to be a challenge for many of the members who live and work in this area and not many made the trip to these meetings.

An agreement was drafted and signed by both the Lehigh Valley and Philadelphia Section Presidents, as well as the Region 2 Director to transfer the Branch to the Lehigh Valley Section. The Reading Branch members will continue to receive announcements from the Philadelphia Section and now from our Section.

Over the past several months the Section has been working with Nick Johnson, Phil Harter and Kyle Turner who have been the champions for the Branch as they reach out to the roughly 150 members who are in the region. They are currently planning for the coming year and look to have events in the region.
ASCE AWARD WINNERS

ASCE congratulates the following 2017 winners of the Civil Engineering Entrepreneur of the Year Award, the Edmund Friedman Professional Recognition Award, the Government Civil Engineer of the Year Award, the Outstanding Public Official Award, and the Parcel-Sverdrup Civil Engineering Management Award. These awards will be presented during the 2017 ASCE Convention in New Orleans, LA.

Civil Engineering Entrepreneur of the Year Award

Keith Meyer, P.E., MASCE is the winner of the 2017 Civil Engineering Entrepreneur of the Year Award for founding Ditesco, LLC in 2006 as an opportunity to merge civil engineering with construction project management to meet a need in the industry as well as create a company culture that fosters creativity and innovation.

Edmund Friedman Professional Recognition Award

Chris A. Gwaltney, P.E., M.ASCE is the winner of the 2017 Edmund Friedman Professional Recognition Award for his exemplary contributions to the status of the engineering profession, outstanding civil engineering accomplishments and dedication to ethical practice.

Outstanding Public Official Award

Roger M. Millar, Jr., P.E., F.ASCE is the winner of the 2017 Outstanding Public Official Award for his sound, innovative application of engineering principles and ethics to transportation problems with an emphasis on quality of opportunity, sustainability, and the improvement of quality of life for the residents of Washington State.

Government Civil Engineer of the Year Award

James C. Dalton, P.E., M.ASCE is the winner of the 2017 Government Civil Engineer of the Year Award for his significant accomplishments as an engineer, construction manager, strategic leader, mentor, and coach—over his nearly 40-year career with the U.S. Army Corps of Engineers—where he designs and delivers projects that not only improve the quality of life, but reshape the direction of civil engineering and construction in the process.

Parcel-Sverdrup Civil Engineering Management Award

Stephen J. Ressler, Ph.D., P.E., Dist.M.ASCE is the winner of the 2017 John I. Parcel- Leif J. Sverdrup Civil Engineering Management Award for his profound and long-lasting contributions to the civil engineering profession, evidencing extraordinary character and high professional integrity while establishing an international reputation as an engineering educator, scholar, leader, manager, and role model.

Consider nominating one of your colleagues next year. Nominations are due March 1, 2018. The complete nomination rules and forms can be found on the Civil Engineering Entrepreneur of the Year Award, Edmund Friedman Professional Recognition Award, Government Civil Engineer of the Year Award, Outstanding Public Official Award, and Parcel-Sverdrup Civil Engineering Management Award pages of the ASCE web site.

If you have any questions or need guidance on the nomination process, please contact awards@asce.org.
As your Region 2 Director it is my privilege to represent you on the ASCE Board of Direction. At the July 28-29 Board meeting in Baltimore, members rolled up their sleeves and did a deep dive into strategy planning in what proved to be a very productive weekend. We began the process in January, looking at ways to sharpen goals, strategies, and metrics for our work as a Board and for ASCE. We workedshopped six goal statements and prioritized a variety of strategies and programs to achieve each. It’s exciting to see diverse perspectives combining to form a cohesive and focused strategy for our Society. Additional highlights were as follows:

- The Board voted to adopt a new canon to the Society’s Code of Ethics that expresses a professional obligation to provide fair and equal treatment for all (see story in ASCE News).

- The Board received annual reports from several committees, which generated valuable debate and high-level conversation among Board members. The Member Communities Committee stressed the importance of student transition as we continue to develop new strategies for engaging and retaining our Younger Members.

- The Task Committee on Governance Structure reviewed Board feedback. The Board voted in a straw poll to allow the Committee to revise its final recommendations for the next Board meeting.

- The Committee on Sustainability presented the four priorities of its strategic roadmap – sustainable project development, standards and protocols, expanding technical capacity, and communication and advocacy.

- Several Department Heads and Chairs from around the country addressed the Board, calling for ways to collaborate with ASCE to attract students to civil engineering programs by fostering more innovation and creativity in college curricula. The Board agreed to work on this objective.

The next ASCE Board meeting is Oct. 7-8 in New Orleans, kicking off the ASCE 2017 Convention. The 2017 ASCE Region 2 Assembly will be Saturday November 4 at the University of Pittsburgh. Please email John Casana ideas on how ASCE can better serve you and our profession. Thanks.

Until next time,

John

John Casana, PE, F ASCE, D WRE, LEED AP
ASCE Director, Region 2
Lehigh University Student Chapter Update

By: Chris Gulicap S.M.ASCE, President of Lehigh University Student Chapter

The American Society of Civil Engineers at Lehigh University is getting ready for a busy semester promoting the organization toward new members and inviting companies to present. Lehigh’s chapter has companies such as Kiewitt, ESC Mid-Atlantic, and ExxonMobil coming in to provide seminars, information sessions, and offering interviews for positions with them. The Lehigh Valley YMF is also planning social events throughout the semester with our chapter which should be a great way to build connections and share what being a civil engineer is all about. The semester is off to a great start with many events planned to keep students and faculty involved with Lehigh’s chapter of ASCE.

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Honorary member of the Romanian Academy: Dan Frangopol

Dan M. Frangopol, Ph.D., P.E., F. SEI, F.EMI, Dist.M. ASCE, has been elected an Honorary Member of the Romanian Academy. He was the only new member elected to the academy’s Engineering Section, which has 17 members. The honor is the third academic accolade of its kind that Frangopol has received in the past two years. In 2015, he was inducted into the Academy of Europe (Academia Europaea), and in 2016 he was inducted into the Royal Academy of Belgium for Science and the Arts. Frangopol has earned international renown as a pioneer of life-cycle engineering, which seeks to improve the lifetime performance of infrastructure and to minimize its lifetime costs, by accounting for the effects of time when designing and building new structures and when maintaining and managing decaying infrastructure.

Learn more about this at

https://www1.lehigh.edu/news/dan-frangopol-elected-romanian-academy

Reading Branch – ASCE

The Reading Branch is in the beginning stages of revitalization, with the help of the Lehigh Valley Section. At this time, the leadership consists of Phillip Harter of Worley Parsons, Nicholas Johnson of Great Valley Consultants, and Kyle Turner of Cedarville Engineering Group. We are currently developing a plan to complete administrative tasks such as update the bylaws, develop an annual budget, and survey the Branch’s members for what they would like to get out of membership. We are hoping to arrange a fall event to follow-up our successful January mixer, so please stay posted for additional information. We are still looking for additional personnel in leadership positions, so if you are interested in assisting with the revitalization, please contact us at phillip.harter@worleyparsons.com, njohnson@greatvalleyconsultants.com, and KTurner@CedarvilleEng.com.
Calling All Volunteers! It's PA Infrastructure Report Card Time Again!

ASCE in Pennsylvania needs your help to research, analyze, write and promote the 2018 Report Card for Pennsylvania's Infrastructure. The report card is one of ASCE's greatest tools to convey to elected officials and the public the status of Pennsylvania's infrastructure. The committee is looking for people in each of the following categories to help evaluate the state's conditions: Dams, Drinking Water, Hazardous Waste, Levees, Solid Waste, Waste Water, Aviation, Bridges, Inland Waterways, Ports, Rail, Roads, Transit, Parks and Recreation, Schools and Energy.

We're also looking for people to publicize the report card once it's released. Volunteers can anticipate a 4-8 hour/month commitment over a six month period with most of the work occurring on your schedule. New volunteers, students and younger members are welcomed!

If interested in helping with the Report Card in some fashion, please fill out the following survey, which will help track our volunteer pool. [Click Here](#)

Please reach out to Jason Bowes at jbbowes@gpinet.com or 570-703-0458 for more information or with any questions.

4th Annual YMF Mini Golf Outing

The 4th Annual YMF Mini Golf Outing was bigger than ever! August 16 marked the date of this year's affair at Putt-U with a total of 15 golfers competing for 3 coveted ice cream scoops. For the second time in 3 years, Bill Eibach took home the gold medal beating his personal best by ten strokes with a 44 on the red course; followed by Eammon Farley (of the Philadelphia YMG) with a 46, and John Caperilla who shot a 49. We hope to have another great turnout next year!

LVASCE Community Service

On a humid Saturday in July, 10 members of the LV Section gave back to the local community by volunteering to cut trees, clear brush, and install wayfinding signs along the Delaware & Lehigh Trail at the Weissport Trailhead. Afterward, the group was handsomely rewarded with ice cream at Chantilly Goods for their efforts. Thank you to Jason Steigerwalt, Jeff Curran, Ralph Eberhardt, Janelle and Chris Hall, Matt Blair, Margueritte Ngami, and Brad and Ian Frable for donating your time!
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

Younger Members Forum

Please join me in welcoming the newly appointed leadership of the Younger Member Forum for the 2017-2018 calendar year!

President – Joe McFadden, A.M.ASCE
Past-President – Bethany Malusa, P.E., M.ASCE
Vice President – Mark Hammerstone, EIT, A.M.ASCE
Secretary – Kevin Savage, EIT, A.M.ASCE
Finance Committee Chair – Bill Eibach, P.E., M.ASCE

SEILV & YMF Chapter
SEILV & YMF Chapter

SEI Lehigh Valley Chapter Officers
Chair: Matt Kawczenski, P.E., S.E.
Vice-Chair: Sougata Roy, Ph.D
Secretary: Christopher Blechschmidt, P.E.

SEILV Upcoming Events:
October 19 – Liberty Bridge Emergency Response

YMF Upcoming Events:
10/4 - Joint Social/ATLASS tour (Lehigh)
10/18 – Bethlehem Bridge Tour
11/9 – Joint Social @ TBD (Lafayette)

YMF June Happy Hour

In June, a contingent of 11 younger member and students visited Weyerbacher Brewing in Easton, PA and was fortunate enough to be guided on a private tour of the facility.
Job Postings:

Barry Isett and Associates – Various Positions
BASE Engineering Inc. - Civil Engineer
TPD – Various Positions
Keystone Consulting Engineers – Civil Engineer
City of Reading – Engineering Division Manager

Please visit our website for a full list of job openings and full job descriptions.
LVASCE 2016-2017 Board of Directors

President: John Caperilla, EIT
President-Elect: Mike Derr, P.E.
Vice-President: Dion Campbell, P.E.
Secretary: Kyle John, EIT
Secretary-Elect: Janelle L. Hall, P.E.
Treasurer: Chas Snyder, P.E.
Past-President: Muhammad Suleiman, Ph.D
Member Director: Dave Wieller, P.E.
Member Director: Col. Steven Ressler, Ph.D., P.E.
Associate Member Director/YMF President: Joe McFadden
Associate Member Director: Chris Skrabak, EIT

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Ott Consulting Inc.
Vibra-Tech Engineers
Aeris Industries
Lehigh Valley Technical Associates
Minuteman Press

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

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<tr>
<th>One-time ad in newsletter (includes logo on website)</th>
<th>Sponsor a Student</th>
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<td>$100 for business card size</td>
<td>$20 per dinner meeting or event</td>
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Sponsor an LVASCE Meeting

Bronze – ($100) Firm Logo in event announcements and displayed on screen at event or printed in program

Silver ($250): All items listed in Bronze, plus two (2) admissions to event; and option to hang company banner and table for advertising at the dinner.

Gold ($500): All items listed in Silver, except four (4) admissions to event and opportunity to introduce firm or scrolling slide show during dinner or cocktail hour

Contact Joe McFadden via email if you are interested at jmcfadden@mbakerintl.com