

2020 **ENGINEERS WEEK**



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2020 Delaware Valley Engineer of the Year



STEPHEN M. HALL, P.E.

helped to assure me that engineering was the right path for me.

Much of your work has been focused on pharmaceutical engineering, including holding leadership positions at Day & Zimmermann, Burns and Roe, AMEC, Bristol-Myers Squibb, MannKind Corporation, and Genesis Engineers. How did your beginnings in chemical engineering transfer to pharmaceutical engineering?

Chemical engineers are the architects of the chemical industry. Think of an architect – someone who imagines a high-rise building, lays out the floor plan, figures out what the lobby is going to look like – their work then directs structural engineers to build the structure, civil engineers for the foundations, mechanical engineers for the air conditioning, and electrical engineers for the infrastructure. Chemical engineers do the same thing by imagining a chemical (or pharmaceutical) process, determining how to arrange the equipment and automation, and directing the piping designers and the engineers who design the supporting electrical and mechanical systems. To make active pharmaceutical ingredients, it's a chemical process first. As a chemical engineer in the pharmaceutical industry, my field is focused on the design and construction of manufacturing facilities to make pharmaceutical products. I design manufacturing plants to make pharmaceuticals, ranging from the reactors that create the active ingredients, all the way to support systems like cleaning systems and water purification and packaging the final product into vials or bottles. I do the conceptual design for these plants and through the documentation that we do, I interface with all of the other engineering disciplines.

With more than 46 years of experience as an engineer, what are some of your most notable projects?

There have been so many notable projects. One was a project I managed at MannKind Corporation in Connecticut for a plant that produced an inhaled insulin product. It was a \$200 million project that won two categories in the Facilities of the Year Awards distributed by ISPE. As the senior director of project management, I was responsible for the final design and construction of the facility.

Another notable experience was a two-year assignment in Stuttgart, Germany. At the time, the company I worked for, Life Sciences (LSI), a division of Day & Zimmerman, was forming a joint venture with

Meissner+Wurst. The new company was a grassroots engineering company that wanted to replicate in Europe the success that Life Sciences had in the pharmaceutical industry for engineering projects in the U.S. I was there for the first two years of the company, and 25 years later, the company is still in business today.

For the past five years, you've been working at Genesis Engineers, and you now are a chief process engineer. Tell us about your role and what you enjoy most.

My role here is to be an in-house subject matter expert for process engineering for the company. I do a lot of design work myself, like consulting on small projects that need the specialized knowledge that I have, but I also do a lot of mentoring and personnel development. The mentorship piece is really what drives me now. The thing that keeps me coming to work every day is the ability to interact with bright young engineers and help see them into their careers.

Throughout the course of your career, you have published frequently. Tell us about that aspect of your work.

I've written a lot of articles about pharmaceutical and chemical engineering for Chemical Engineering Magazine and others. However, my biggest writing accomplishment is my book, "Rules of Thumb for Chemical Engineers." The book is in its sixth edition now, but I didn't write the first four. The publishing company that produced the book found me when looking for someone to take over from the original author who had passed. I ended up rewriting about 95% of the 500-page technical handbook. The production was time consuming, as you might imagine. About five years after my first edition had been published, I was contacted to create a sixth edition, which was published two years ago, and now I'm starting to do advanced planning for the seventh edition.

How does it feel to be recognized as the 2020 Delaware Valley Engineer of the Year? What does recognition and programs like this mean for the field?

It's great! I'm so excited because it gives me more motivation to continue my work. My biggest fear is that because of my age, I'm going to become out of touch with the industry as it progresses. I want to be sure that in my older age, I make an effort to not fall into the trap of continuing to do things the way I know how to do them now without continuously learning from the next

generations. Essentially, receiving this award has rekindled and reignited my passion for technical engineering by giving me access to people who have their fingers on the pulse of engineering. I'm so excited, and I hope that I can spread some of my own enthusiasm to inspire younger people who are undecided about engineering to enter the field.

Thinking back to when you were just getting started in your career, what advice can you share with recent engineering graduates or young people who may have just begun their education?

Engineering is complicated, and it is a never-ending process of learning how to do it. I learn new things every day. I think early in my career I didn't recognize the importance or value of making connections, doing the networking, and being able to absorb from others, which is what it is all about.

I think younger engineers can benefit from being active in organizations like the Engineers' Club where you get to interact with like-minded and experienced people. Exposing yourself to industry professionals in these settings can really help jump-start learning.

Has the Greater Philadelphia region always been home to you?

I was born in South Jersey and lived there through fourth grade. After that, we moved a lot for my dad's job. We moved to North Jersey, Buffalo, and then back to North Jersey, and landed in Connecticut for my high school years. Regardless of all the moves, I always have considered myself to be from the Delaware Valley, and now I've planted roots in Center City.

Outside of your career, what other interests do you have?

I like to do typical family things, but I'm also very into photography – I have been my whole life – mostly digital photography now. Also, family history is a big hobby of mine, tracing the roots, collecting old photos, hearing stories, and filling out family trees. My wife of 37 years, Barbara Ann Hall, and I have two sons and two grandsons who keep us busy, too.

Each year, one professional from the Philadelphia region is recognized by the area's engineering and technical societies to serve as an ambassador and leader for the engineering profession. The Delaware Valley Engineer of the Year Award is given to a local engineer who reflects the qualities and talents that define professional excellence, civic duty, society leadership, and community stewardship. This year, the Engineers' Club of Philadelphia, through its Delaware Valley Engineers Week (DVEW) Committee, is pleased to present Stephen M. Hall, P.E., chief process engineer at Genesis Engineers, as the 2020 Delaware Valley Engineer of the Year.

Let's go all the way back to the start of your interest in engineering. What led you to engineering?

When I was in high school, I was very good in math and science, and my dad was a chemical engineer. I'm sure the latter influenced me more than I'd like to admit. When beginning college at Penn, I was filling out a survey about what branch of engineering I was interested in. I checked off chemical engineering because [of my dad's background] and because I liked chemistry in school.

A first job is very formative in building a career. After completing your undergraduate education at the University of Pennsylvania, where did you start your career? From this work experience, are there any stand-out moments that helped guide you?

I had summer jobs in the industry while I was at Penn, and those were very helpful in giving me an understanding about the field. Then I took a semester off, because I was young and had some uncertainty about going into engineering. I got a job as a pipefitter apprentice in California to help build a spaghetti sauce factory for four months. That experience was valuable, and although it was not my ideal job, it

2020 Delaware Valley Young Engineer of the Year



JESSE T. GORMLEY, PE., ENV SP

transitioned into a full-time position at Pennoni. Tell us how these experiences laid the foundation for the beginning of your career.

First, I cannot say enough about Drexel's co-op program and the opportunity it offers to students who typically lack real-world experience. I also give a lot of credit to my Pennoni co-workers, who, throughout my 11 years, have consistently kept tabs on what I'm working on, what I would like to be working on, and what experiences I'd like to have. I am constantly encouraged to find new types of projects and areas that I would like to pursue for my development. That has been one of the key factors I attribute to my success.

You are now a project engineer for Pennoni. How does this position fit into the company and your career path?

As a project engineer, I often lead phases or tasks of projects. I'm in the early stages of project management at Pennoni and have managed a few smaller projects. One of the things I'm proud of is the level of responsibility I've been given, especially on one of our company's largest current projects. At this time, I'm mostly technically focused, but I can feel my career heading in the project management direction.

What has been one of your favorite projects?

It's always difficult to choose a favorite, but right now I'll say the I-95 CAP (Central Access Philadelphia) project, on which I have a high level of responsibility, primarily on a new bridge over I-95 and Columbus Boulevard. We're replacing the smaller Penn's Landing park and Great Plaza area currently there with a much larger park designed with a ton of amenities, which will make for a great, highly accessible public space.

My role is focused on design of the bridge substructure, which are the components that provide support for the proposed beams. It is a huge challenge because the waterfront has been artificially expanded into the river over time, with buildings, a railway, and other structures that are now buried, and we will have to work around that to put in our foundation. Once we accomplish that, the project really takes a turn toward the transportation side. The large public space will hopefully be a gathering place for large events in the city.

You're an active member of the American Society of Civil Engineers (ASCE). You were a member of the Committee on Younger Members

and are the current president of the Philadelphia Section Younger Member Forum. How has leading and participating in these groups worked in tandem with your career and how you hope to support young professionals?

ASCE has been vital to my career and the type of person I've become. It's provided me with a lot of resources over the past 10 years. It's given me innumerable leadership, professional and technical development opportunities. My experiences locally, regionally, and nationally have really defined how I interact with people. The Younger Member Forum is an extremely motivated, high-achieving group of people with whom I am very fortunate to work. We have a 25-member board, all of whom I expect will be managing companies one day. As much as I hope that I am teaching them something, there is no doubt I am learning way more from them.

Aside from professional organizations within the engineering industry, you also give back to the community through service. You've served as Pennoni's campaign lead with the United Way of Greater Philadelphia and Southern New Jersey for the past three years. Why is this work rewarding?

My favorite part of being Pennoni's United Way campaign lead was having the leeway to approach it in my own way. Through some surveying, I found most of my colleagues didn't want to just cut a check, so we focused our campaign on engagement. We ran an in-office community service activity where we collected healthy snack foods and other supplies and packed snack bags for a public school in South Philly that had underfed students and was focusing on nutrition. It was a great experience, and the campaign was a success!

You've progressed quickly in your career, which has really only just begun. In looking to the future, what are some goals that you hope to accomplish in the coming years?

There's always more to learn, so I want to continue to learn and grow both in terms of technical knowledge and communication skills. I want to provide meaningful guidance, to my younger colleagues and encourage them to participate in local technical groups and societies. And most importantly, I want to accomplish these and my professional goals without compromising the amount and quality of time with my family.

What advice would you give to students who are considering the engineering field?

Two things come to mind. One is to try to embrace the fun in engineering. I do a lot of outreach through ASCE, including talking with our student chapters at local universities. I try to remind students that at the end of the day we are problem solving, and there's always room for creativity. Yes, a lot of what we do is ruled by standards, from federal, state, or local levels, but that doesn't need to be stifling. There are always unique details to projects that demand thinking outside the box and developing new, elegant solutions.

Second, our industry is becoming more technology driven. Though civil engineering has classically been one of the more static engineering disciplines, the field is changing rapidly. I encourage all engineering students to study programming to better understand the tools on which we are increasingly relying.

What can you share about the importance of internships and co-ops?

Engineering as a whole is this vast, sometimes nondescript, bubble. One of the big challenges we face is just getting people to understand what engineering means, so the big value of co-ops is the ability to use these work experiences to try out a couple different sectors that you are interested in exploring.

What makes the 2020 Delaware Valley Young Engineer of the Year award a particular honor for you?

Recognition from peers is the highest form of praise, so this means a lot to me. It was an honor to be nominated at all, so thanks especially to the ASCE Philadelphia Section and YMF. On top of that, I have the excellent fortune of knowing several past recipients, and I hold all of them in the highest esteem. It feels really special to be on a list with these folks.

Where are you originally from?

I'm from the Poconos, but now I live in Havertown.

What interests do you have outside the engineering field?

I'm an avid runner and an ultimate Frisbee player. The ultimate community in Philadelphia is amazing, and anyone interested in a fun, social sport should check out the Philadelphia Area Disc Alliance (PADA). I'd also be remiss if I did not give my family a huge shout out; they are my everything. I have an amazing wife, Christina, and daughter, Sadie, who provide constant love, support, and humor. My mom, Nancee, has also always supported me, through successes and failures and made me the person I am.

The annual Delaware Valley Young Engineer of the Year award recognizes an outstanding engineer who is age 35 or under, has demonstrated leadership capabilities, and has made a recognized contribution to the engineering profession within the Philadelphia region. Beyond the field of engineering, the recipient must also have contributed to and participated in charitable, civic, and technical affairs. This year, the Engineers' Club of Philadelphia, through its Delaware Valley Engineers Week (DVEW) Committee, has selected Jesse Gormley, PE, ENV SP, project engineer at Pennoni, as the 2020 Delaware Valley Young Engineer of the Year.

You earned both your bachelor's degree in architectural engineering and master's degree in civil engineering from Drexel University. At what point did you realize that you were passionate about pursuing a career in engineering?

Growing up, my mom had me and my siblings do science experiments, often through cooking, and encouraged us to do puzzles. This kick-started my love of math and science. When I was in high school, I had a physics teacher who really pushed engineering. I had a strong support network in Philadelphia, so I made the decision to attend Drexel University for engineering. My passion for engineering has only grown from there.

In earning both of your degrees, you had a concentration in structural engineering. What drew you toward that area?

For me, the appeal of structural engineering is the scale at which I get to impact people. Our work enables millions of people at a time to do what they do. The magnitude of the impact is sometimes tough to process, but that only makes it more amazing.

During your time at Drexel University, you completed a co-op at Pennoni in the transportation division. After graduating, you

The “Handoff”

On February 13, at the Opening Ceremony for Engineers Week, 2019 Delaware Valley Engineer of the Year John J. Peirce, Jr., PE, will end his term and our incoming 2020 Engineer of the Year, Stephen M. Hall, PE will be introduced and inducted.





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Congratulations to 2020 Delaware Valley Young Engineer of the Year, Jesse T. Gormley, PE, BS/MS '10!



Delaware Valley Engineering Hall Of Fame

- **Carl A. Baumert, Jr., PE**, Renowned structural engineer
- **Samuel S. Baxter**, Municipal engineer extraordinaire
- **Benjamin Franklin Bridge**, Permitting efficient travel across the Delaware River
- **Joseph Bordogna, PhD**, International authority on science and engineering education and research
- **Center City [Philadelphia] Commuter Tunnel**, Connecting Suburban Station and Market East Station
- **City Plan of Philadelphia**, Conceived by William Penn in 17th Century, model for city planning and development throughout colonial North America
- **Discovery of Electricity**, By Benjamin Franklin
- **ENIAC**, The first electronic digital computer
- **Fairmount Waterworks**, At one time the most advanced municipal system in the world and initial portion of Fairmount Park
- **Frankford Avenue** (The King's Road) Bridge, City of Philadelphia, Critical connection for colonial America, stone-arch bridge built in 1697 and still in continuous use
- **Golden Age Engineers of GE Aerospace and Lockheed Martin**, Innovators of re-entry vehicles, spacecraft and related products beginning in 1956
- **Ralph Modjeski**, Civil engineering pioneer
- **C. R. "Chuck" Pennoni, PE**, Exemplary civil engineer and businessman
- **Pennsylvania Railroad**, At one time the "Standard Railroad of the World" and one of the largest
- **Philadelphia City Hall**, The nation's largest municipal building and the largest and tallest Masonry Building in the world
- **Frank Piasecki**, Pioneer of the United States' helicopter industry
- **Hilliard W. Page**, Aerospace pioneer
- **Constantine Papadakis, PhD, PE**, Engineer and educator
- **PSFS Building**, Landmark in modern high-rise air conditioning
- **RCA Victor, Camden**, For the development of Victrola Recordings
- **Reading Terminal Train Shed**, Last surviving single-span arched train shed in the United States, repurposed for use as part of the Pennsylvania Convention Center
- **Removal of the "Chinese Wall"**, Elevated rail line between 30th Street and Suburban Stations; divided Philadelphia at Market Street
- **Schuylkill Expressway**, The first limited access roadway in the area, predating the Interstate Highway System
- **Leo Steg, PhD, PE**, Innovator in re-entry systems and director of GE's Space Systems Laboratory
- **J. Edgar Thomson**, First chief engineer of the Pennsylvania Railroad
- **Vukan R. Vuchic, PhD**, Internationally-recognized authority in transportation engineering
- **Walnut Lane Memorial Bridge**, Bridge over Lincoln Drive, first precast, prestressed concrete girder bridge in the United States
- **Roy F. Weston, PhD (Hon), PE, DEE**, Renowned environmental engineer

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2020 Delaware Valley Engineers Week Awards

One of the purposes of Engineers Week is to cultivate interest in math, science, and engineering among the nation's youth – tomorrow's work force. A key component of that is the recognition of outstanding students and teachers. With the support of the Philadelphia Engineering Foundation, we proudly recognize the following secondary school students and teachers and undergraduate college students.

Delaware Valley Science Fairs Awards (2019)

- 9th and 10th Grades: Leo Wylonis, Tredyffrin-Easttown Middle School, Berwyn, PA

Outstanding High School Student Award

- Paige Laning, St. Elizabeth High School, Wilmington, DE
- Cody Carnes, Great Valley High School, Malvern, PA

Delaware Valley Engineers Week Undergraduate Scholarships

- Nicholas Lubeck, Widener University
- Gina Venuto-Gabriella, Rowan University

Delaware Valley Engineers Week/ASCE Undergraduate Scholarship*

- Albert Hanan, Drexel University

Lewis A. Caccese Scholarship

- Henri Doucet, Villanova University
- Brinn Hindermeyer, Widener University

Walter G. Neal, Jr. Memorial Scholarship

- Assunto Daprano, AECOM/University of Delaware

Undergraduate Student Paper Awards

- Nathaniel Maute, Luke Anderson, Michael Moroski, Jiwon Yang and Mark Vail, Rowan University *Crack Remediation Using Bio-Cement and Bottom Ash Admixture for Clay Under Wetting-Drying Cycles*
- Britton Williams, Christopher Rovelli and Jonathan Muller, Rowan University *Densification of Asphalt Using Varying Compaction Frequencies at Low Laydown Temperatures to Increase Construction Season for Department of Defense Projects in Arctic Regions*
- Jeffrey Dobkowski, Gina Venuto-Gabriella, Connor Mack, Samantha Andeer and Leo Thottumari, Rowan University *Evaluating the Implementation of a Grit Removal System in the ACUA Wastewater Treatment Plant*
- Rob Church and Nick Vitello, Rowan University *Evaluation of Different Insulation Materials to Reduce Pavement Damage in Arctic Regions*

- Benjamin J. Chierici and Michael Cangialosi, Rowan University *Evaluation of Storage Stability of Soft Binder Containing Soft Agenda and High Polymer*

Outstanding Teacher Awards

- Curt Reichwein, North Penn High School, Lansdale, PA – Engineering
- Raymond Carlin, Bishop Eustace Prep, Pennsauken, NJ – Math
- Philip Cameron, Roman Catholic High School, Philadelphia, PA - Science
- Sharon Cornwall, Little Flower Catholic High School for Girls, Philadelphia, PA (retired) - STEM

*The Delaware Valley Engineers Week/American Society of Civil Engineers Scholarship is funded by the Philadelphia Section ASCE. The remaining scholarships and student paper awards are financed by contributions from the engineering community or endowments administered by the Philadelphia Engineering Foundation.



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Delaware Valley Engineers Week Events



Thursday, February 13

Opening Ceremony/Dinner

DoubleTree Philadelphia Hotel, Center City

2020 Engineers Week in the Delaware Valley starts off with the Opening Ceremony. A networking and cocktail hour will begin at 5:00 PM. At this time, recipients of our Student and Teacher awards will be available to interact and network with guests. These awards include Student Papers, Scholarships, Outstanding High School Students, Delaware Valley Science Fairs, and Outstanding High School Teachers. The Future City Competition regional winners will be featured along with their working model. Participating Affiliate Societies will also be available to feature their awards and special events from the past season. Dinner follows at 6:00 PM.

After dinner, the Engineer of the Year and the Young Engineer of the Year will be formally introduced and make brief remarks to kick off the celebration of Engineers Week in the Delaware Valley. All Engineers Week awardees will be formally recognized as well.



Tuesday, February 18

Young Engineers Social

Brickwall Tavern, Center City

The Young Engineers Social is a mid-week happy hour/networking type event where young engineers (and those young at heart!) can have an opportunity to meet engineers of all disciplines from around the region. You'll get to enjoy appetizers and drinks. We will be giving out door prizes as well. As part of the evening's festivities the Delaware Valley Young Engineer of the Year is recognized and makes brief remarks.



Past Delaware Valley Engineers of the Year

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Past Delaware Valley Engineers of the Year

The Delaware Valley Engineer of the Year award was initiated in 1953 by the Philadelphia Chapter of the Pennsylvania Society of Professional Engineers (PSPE). Within a few years, the other regional chapters of PSPE joined the Philadelphia Chapter in this selection and in the celebration of Engineers Week. Since the early 1970's, the other regional engineering and technical societies have been part


of both the selection of the EOY and the celebration. The Delaware Valley EOY award is bestowed upon a colleague who reflects the qualities and talents that define professional excellence, civic duty, and community stewardship. The following is a listing of the distinguished individuals who have been so recognized.

1953	Nevin E. Funk, PE	1971	Samuel T. Hudson, PE	1988	Gunnar E. Sarsten, PE	2004	Matthew J. Burns, PE
1954	Walter A. Kruger, Jr.	1972	James L. Everett III, PE	1989	Gerald E. Speitel, PE	2005	Donald D. Dalessandro
1955	Harry A. Kuljian	1973	Louis T. Klauder, PE	1990	E. Ross Forman, PE	2006	Eric L. Flicker, PE
1956	Francis S. Friel, PE	1974	Lewis A. Caccese, PE	1991	Mark Z. Hanlon, PE	2007	Joseph J. Viscuso, PE, PLS
1957	Lester M. Goldsmith, PE	1975	John L. Rumpf, PE, PhD	1992	Joseph V. Mullin, PE, PhD	2008	Dianne Dorland, PE, PhD
1958	Kilshaw M. Irwin	1977	John Lotz, PE	1993	Stephen B. Lester, PE	2009	David D. Lowdermilk, PE
1959	Samuel S. Baxter, PE	1978	H. Robert Sharbaugh	1994	John E. Kampmeyer, PE	2010	Selçuk Güçeri, PhD
1960	Hilliard W. Page	1979	Vincent S. Boyer, PE	1995	Harry M. Perks, PE	2011	Douglas W. Kriebel, PE
1961	I. Melville Stein	1980	W. Spencer Bloor, PE	1996	Edward E. Gilvey, PE	2012	Timothy Hyungrock Haahs, PE AIA
1962	James M. Harlow, PE	1981	Robert M. Koerner, PE, PhD	1997	Joseph R. Syrnick, PE, PLS	2013	Charles A. Clerecuzio, PE, CPIP
1963	Leroy A. Brothers, PhD	1982	Walter F. Spiegel, PE	1998	Thomas G. McWilliams, Jr, PhD	2014	Suzette M. Schultz
1964	Henry M. Chance, II, PE	1983	August D. Pistilli, PE	1999	Lawrence M. Moy, PE	2015	Adam K. Fontecchio, PhD, PE
1965	Leo Steg, PE	1984	Joseph Bordogna, PhD	2000	Bruce A. Eisenstein, PE, PhD	2016	Kevin L. Johnson, PE
1966	Carl C. Chambers, PE, PhD	1985	C. R. Pennoni, PE	2001	Pasquale A. Dougherty, PE, PLS	2017	John A. Nawn, PE
1967	Frank N. Piasecki, PE	1986	John S. Kemper, PE	2002	Edward M. D'Alba, PE	2018	Deborah L. Grubbe, PE
1968	Nathan Cohn, PE	1987	Richard E. Woodring, PE, PhD	2003	Robert M. Rodgers, PE	2019	John J. Peirce, Jr., PE



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Past Delaware Valley Young Engineers Of The Year



1990	K. Jim Jem
1990	Susan L. Best, PE
1991	William K. Grauer, PE
1992	Stanley Yuen, PhD, PE
1993	James M. Matthews, PhD, PE
1994	Sandra Joyce May
1995	Phillip W. Wursta, PE
1996	Lisa M. Walton, PE
1997	Carol M. Reich, PE
1998	Elaine Elbich, PE
1999	Lucia Chan
1999	Thomas K. Cassidy
2000	John Zarsky, PE
2001	Christopher John (CJ) Sabol, PE
2002	Casey A. Moore, PE
2002	Carol C. Martsolf, PE
2003	Christopher J. Menna, PE
2004	Michael J. McAtee, PE

2005	Thomas Brady, PE
2005	James P. Markham, PE
2006	David Thatcher, PE
2007	Jeremy D. Colello, PE
2007	Keith S. Yamatani, PE
2008	Rajeev K. Arora, PE
2009	Joesph A. Platt, Jr., PE
2010	Michael Witkowski, PE, LEED AP
2011	Angela Fante, PE, LEED AP
2012	Catherine Golata Farrell, PE
2013	Alan S. Levy, PE
2014	Philip M. Gonski, PE
2015	Brian Mark Crokston, PhD, PE
2016	Daniel Sujo
2017	Kazi M. Hassan, PE
2018	Alexa Egan Harper, PE
2019	Eleanor F. Small, PhD

2020 Delaware Valley Engineers Week Committee

The Delaware Valley Engineers Week Committee of the Engineers' Club of Philadelphia sponsors Delaware Valley Engineers Week on behalf of the Engineering and Technical Societies. The events are supported by area corporations, universities, individuals and, participating societies. The Committee members are volunteers, several having volunteered their time for many years, supported by Club staff and consultants. We thank all the members and their employers for their support of the program.



The Key Leadership of the 2020 Delaware Valley Engineers Week Committee includes:

- Chair**
 - Robert Wright, PE
- Advisory Committee Chair**
 - Suzette Schultz
- Director, Awards**
 - AnnMarie Vigilante, PE
- Director, Events**
 - Christopher Menna, PE
- Director, Fund Development**
 - Jennifer Walsh, PE
- Key Deputy Directors**
 - Briana Earle, PE – Awards
 - Erica Antoine, PE – Events
 - Kevin Brown, PE – Events
 - Christopher Gray, PE – Events
 - Dennis Wilson, PE – Events
 - Ruben David, PE – Fund Development

- Casey Moore, PE – Fund Development
 - Chris Rood, PE – Fund Development
 - Helene Brennan, PE – Administration/Website
 - Engineers' Club President Christopher Holliday, PE
- Other Planning Committee Members**
 - Christine Alizzi
 - Anthony Cirillo, PE
 - T. James Cokonis, PE
 - Eammon Farley, PE
 - Ernest Hanna, PE
 - Alexa Egan Harper, PE
 - Andrew Hartmann, PE
 - Emily Hoffman, PE
 - Mark A. Kinnee, PE
 - Jacob Nichols
 - Evan Rosario
 - Carol A. Rose

Award Selection Assistance

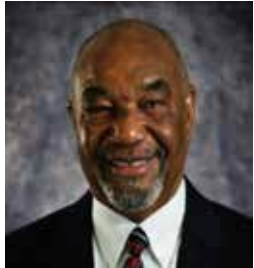
- Kevin Brown, EIT
- Assunta Daprano
- Abbey Gancz, PE
- Christopher Gray, PE
- Tyler Ladd, PE
- Helen Lam, PE
- Carol C. Martsolf, PE
- Catherine Martsolf
- Christopher Menna, PE
- Robert M. Wright, PE

Support Staff and Consultants

Jocelyn Craighead
Alyssa Zinar

We are always looking for more people to provide ideas and help plan for the celebration of engineering during Engineers Week. If you are interested in getting involved, or simply want to provide input on next year's events, email engineer-sclubofphiladelphia@gmail.com or call (267) 639-1234 and indicate your interests and time availability.

Outstanding Service to Engineering Award



HERMAN W. LLOYD

The Delaware Valley Engineers Week Committee

of the Engineers' Club of Philadelphia is proud to recognize Herman W. Lloyd for his Outstanding Service to Engineering.

Herman recently joined Traffic Planning & Design, Inc., as a Vice President, where he will focus on further expansion of the firm's Philadelphia presence, continuation of relationships with current clients, and pursuit of new clients and relationships. He will additionally lead diversity and inclusion (D & I) efforts. He comes to TPD following an 11-year career as a Senior Vice President, and the Chief Diversity & Inclusion Officer at Johnson, Mirmiran and Thompson (JMT). He had opened JMT's Philadelphia office in 2007. Beginning with just one employee, himself, his vision fueled the growth of the office and helped establish JMT as a major player in the market, especially with construction inspection services. From those humble beginnings, he, along with his capable staff, grew JMT's

Philadelphia presence to over 115 employees and more than 10 different disciplines.

Herman's development and growth from a construction inspector into an industry leader provided JMT and its employees a wealth of understanding and perspective that is offered by few. He was gratified to know that, through his leadership, JMT became a trusted partner, and the consultant of choice, to a wide array of multi-disciplinary clients in and around the city. Under his leadership the Philadelphia office received numerous awards and became involved in many of the area's highest-profile programs and projects.

Herman began his career in the AEC industry more than 50 years ago, during a time when diversity was not valued as it is today, starting in 1962 at the Pennsylvania Department of Highways (PDH), now the Pennsylvania Department of Transportation (PennDOT). During his 29-year career with the State, he served as a Construction Inspector, a Resident Engineer on high profile projects, and more than four years as an Assistant District Construction

Engineer for District 6-0. He retired from PennDOT in January 1991, and he is still the only African American to ever serve in the position of Assistant District Construction Engineer at PennDOT.

Following his retirement, Herman spent 16 years at SITE-Blauvelt Engineers (now TRC), a 400-person consultant engineering and construction management firm. Starting as a Construction Manager in 1991, he progressed to President where he served until he retired again in 2006. His long-tenured career has allowed him to develop an outstanding reputation within the engineering and construction industry.

Herman's prior professional organization leadership accomplishments include service as President and as a Board Member for the Delaware Valley Section of the American Society of Highway Engineers and a Board Member for Pennsylvanians for Transportation Solutions. He has been a strong supporter of the Women's Transportation Seminar organization since his introduction to the group in 2007 and was selected as one of the first WTS Philadelphia Chapter Advisory Board Members. He is a Past Chair for the prestigious Philadelphia

March of Dimes Transportation, Building and Construction Awards Luncheon, having served as Chair of the event in 2016 and 2017.

Herman also serves as a trusted advisor for the Philadelphia Chapter of the Conference of Minority Transportation Officials and he received the 2015 COMTO Executive of the Year Award. He was the Keynote Speaker for the COMTO Philadelphia Scholarship Luncheon in 2019. He is a member of the ACEC/PA Diversity & Inclusion Committee and is a member of the ACEC-DPC Diversity & Inclusion Working Group. Furthermore, he is a close associate with the Chamber of Commerce for Greater Philadelphia's Diversity & Inclusion Committee, currently working with the Supplier Diversity Roundtable.

Herman holds a bachelor's degree from Eastern University in Organizational Management, and an associate degree in Civil Engineering from Delaware County Community College. On the personal side, he is a life-long member of Calvary Baptist Church in West Philadelphia, where he serves on its Board of Directors. He and his wife, Mattie, have been married more than 57 years, and have four children, along with a host of grandchildren and great-grandchildren.

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Affiliate Award Recognition Program

To help us celebrate engineering in the Delaware Valley, the Engineers' Club undertook an effort to recognize the many and various projects and individuals cited by the engineering and technical societies in our region. This illustrates the varied fields and specialties covered by these groups and the notable contributions made in these specialty areas by engineers.

We have listed below the various projects and individuals submitted to the Engineers Week Committee by the noted engineering related technical societies. We greatly appreciate these people and efforts that have had positive effects on life in the Delaware Valley for the benefit of all of us.

American Society of Civil Engineers, Philadelphia Section

Philadelphia Civil Engineer of the Year
Anthony Bartolomeo, Pennoni

Young Civil Engineer of the Year
Joseph P. Natale, DVRPC

Young Government Engineer of the Year
Ajin Fatima, Philadelphia Department of Streets

Geotechnical Engineer of the Year
M. Ayub Iqbal, Ph.D., Applied Geoscience and Engineering

Environmental and Water Resources Engineer of the Year
Michael D. DeVuono, Arcadis

Structural Engineer of the Year
D. Kirk Harman, The Harman Group

Transportation Engineer of the Year
Joseph F. Roth III, Jacobs

Community Outreach and Service Award
Assunta Daprano, AECOM
Caroline Voigtsburger, NV5

American Society of Highway Engineers, Delaware Valley Section

2018 Project of the Year (over \$10 million)
Vine Street Expressway (SR 676) Overhead Bridges Replacement

Pennsylvania Department of Transportation (owner), Pennoni (designer), Urban Engineers (construction manager), Buckley & Company (contractor)

2018 Project of the Year (\$10 million and under)
Frankford Avenue (SR 13) Bridge Rehabilitation

Pennsylvania Department of Transportation (owner), TranSystems (designer), Traffic Planning & Design (construction manager), Loftus Construction (contractor)

Pennsylvania Society of Professional Engineers, Delaware County Chapter

2020 Engineer of the Year
Carol C. Martsolf, PE, Urban Engineers

2020 Young Engineer of the Year
Michael Senior, EIT, Schnabel Engineering

2020 Outstanding Project Award
Villanova University Pedestrian Bridge

Villanova University (owner), McMahon Associates (designer)

Pennsylvania Society of Professional Engineers, Philadelphia Chapter

Outstanding Engineering Achievement

Pennsylvania Capitol Police Integrated Command Center

Professional Systems Engineering

Notable Engineering Achievement
Sky Diving Wind Tunnel Power and Drive Systems

Maida Engineering

Honorable Mention

Edge Hill Road/Tyson Avenue Improvement Project

Pennoni

Women's Transportation Seminar, Philadelphia Chapter

Diversity Award
Philadelphia Minority Enterprise Diversity Week, City of Philadelphia Office of Equal Opportunity

Employer of the Year Award
Rybinski Engineering

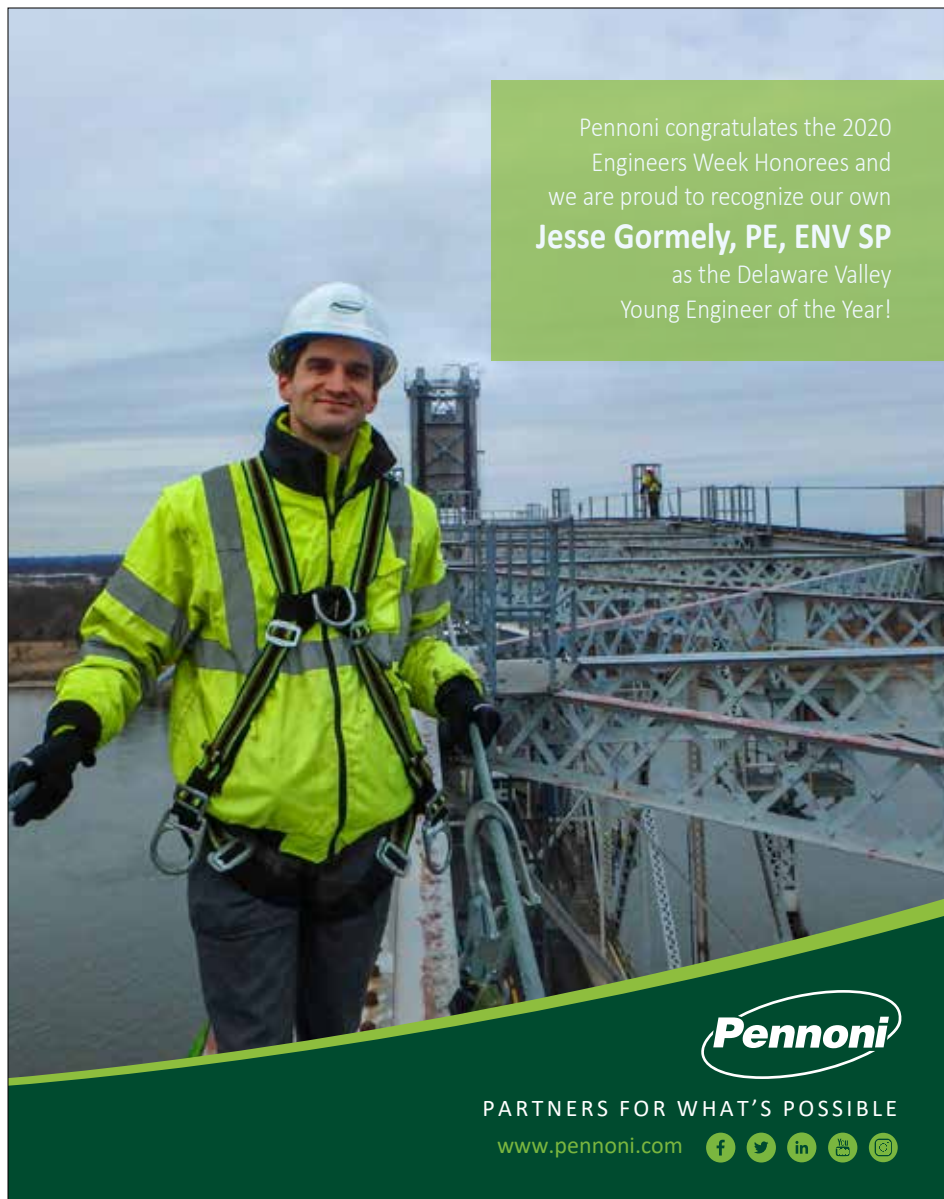
Innovative Transportation Solutions Award
Frankford Avenue Bridge Rehabilitation

Man of the Year
Jeffrey D. Knueppel, PE, SEPTA

Member of the Year
Abbey Gancz, PE, Urban Engineers, Inc.

Philadelphia Award
Joseph Guzzi, Jr., PE, HNTB (posthumous)

Woman of the Year
Clarena Tolson, Philadelphia Parking Authority



Pennoni congratulates the 2020 Engineers Week Honorees and we are proud to recognize our own **Jesse Gormely, PE, ENV SP** as the Delaware Valley Young Engineer of the Year!

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Engineering Education for the 21st Century

The Henry M. Rowan College of Engineering at Rowan University has a long history of being a leader in engineering education. While Rowan continues to make investments in its award-winning and highly-ranked undergraduate programs, Rowan's graduate programs are attracting industry professionals who want to take their education, and in turn, their careers to the next level.

Rowan Engineering takes tremendous pride in its hands-on, minds-on, industry-focused approach to engineering education at the undergraduate and graduate levels. Rowan engineering's recently expanded research mission features four dedicated research centers, with expertise in virtual and augmented reality, advanced materials and manufacturing, transportation, and sustainable facilities.

Rowan Engineering continues to offer a nationally recognized undergraduate curriculum, rooted in the signature "engineering clinic" and through formal cooperative education opportunities (co-op), both of which foster interdisciplinary collaborations, and project-based learning. Both clinic and co-ops are an effective method for industry to tap into the research and development potential of Rowan Engineering and serve as effective channels to recruit engineering interns and graduates. In addition, Rowan offers certificates of graduate study (CUGS), Master of Science

(MS), Master of Engineering Management (MEM), and Doctor of Philosophy (Ph.D) opportunities in a broad range of engineering disciplines. These advanced credentialing and degree opportunities ensure that students are better prepared to meet the demands of industry, advance in their careers, and prepare them for academic postings at prestigious universities.

Rowan Engineering provides graduate students with a range of opportunities to work directly with research faculty, including fellowships and teaching assistant positions. For individuals possessing a Ph.D., Rowan Engineering offers a variety of post-doctoral opportunities as well.

Whether it's an undergraduate education with a world class faculty, facilities, and internship opportunities or it's a post-graduate education that gives its students a decided advantage when they begin their career in industry or higher education, Rowan Engineering has everything that students in the 21st Century need to get the best education possible.

Rowan University
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rowan.edu/engineering

Regional Student Outreach

The Philadelphia Regional Future City Competition is an educational outreach program of DiscoverE. This year's regional competition was held on January 18, 2020 at Archbishop Carroll High School, Radnor, PA and featured teams of 6th, 7th and 8th graders from over 30 middle schools located in Pennsylvania, New Jersey and Delaware. Philadelphia is one of 39 regional programs conducted throughout the country with the goal to introduce middle school students to the engineering profession.

Students form teams and work with a teacher and an engineer mentor from September to January to design and lay out a city of the future using SimCity computer software, build a table-top model using recycled materials that illustrates one section of the city, write an essay on a specific topic related to their city, and present their model and city to a team of judges on competition day in January. The winner of the competition goes on to compete at the Annual Future

City National Finals in Washington, DC during Engineers Week.

The winner of this year's Philadelphia Regional Future City Competition is the team from Lionville Middle School.

For more information on the Philadelphia Regional Future City Competition please visit www.futurecityphilly.org.

Philadelphia Engineering Foundation Golf Outing

Our 20th Annual Golf Outing, also known as the Mulford Classic, occurred on October 14, with over 70 participants, and, as usual, it was all for a good cause. The proceeds of the outing will go toward Delaware Valley Engineers Week scholarships, activities and programs supported by PEF.

The winner of the prized Mulford Prism, awarded to the low scoring team in the Outing, was the Brehm Nofer & McCarter squad, taking home the Prism for the third year in a row.

Thanks to all who participated and sponsored as well as our diligent volunteers and Golf Committee for making the Outing a success once again.

Outing Sponsors:	-Richard Mulford
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-Bentley Systems	-Menna Engineers & Associates
-STV	-Subcontractors Association of Philadelphia
Bronze	-Traffic Planning & Design
-Brehm, Nofer & McCarter	Putting Contest
-Greyhawk	-Electrical Association of Philadelphia
-McMahon Associates	
-Michael Baker International	

This year, an additional contest was offered, with the Affiliate Cup Challenge. Affiliate societies were permitted to enter foursomes to compete for this cup, with teams representing these groups participating (and ASCE YMF taking home the first Cup!):

- American Society of Civil Engineers, Philadelphia Section, Younger Member Forum
- American Society of Highway Engineers, Delaware Valley Section (2 teams)
- Electrical Association of Philadelphia
- Instrumentation Society of America
- Subcontractors Association of Philadelphia

Our 21st annual Golf Outing is scheduled for Monday, October 12. Please mark your calendar and plan to attend. More details will be provided this Summer.

Special Interest: Local Engineering Achievement - 100+ Years Ago Publicker Industries - An Iconic Philadelphia Distiller

In 1913, Harry Publicker, an ambitious and enterprising immigrant from Ukraine, began his alcohol production business, taking old whiskey barrels and extracting the residue from them to sell as industrial alcohol. This evolved into a distillery which he opened on the Delaware River waterfront in far South Philadelphia, selling products to the federal government during World War I.

With the start of Prohibition not long after the War ended, the plant continued to produce alcohol which was limited to industrial use. Despite this limitation, the business prospered, increasing production capacity from 6 million gallons to 60 million gallons in the early 1920's, the lion's share of the 70.5-million gallon total "ceiling" on such imposed by federal regulations. When Prohibition ended, Publicker expanded its line of industrial alcohols and continued to prosper, with new all-time-high levels reached with government purchases during World War II. The business had over 5000 employees and \$350 million in annual revenue as the war drew to a close.

Following the war, company management changed and the firm branched out into the burgeoning alcoholic beverage market, expanding the original plant and building new sites for production along the



Delaware waterfront as well as a number of adjacent locations in South Philadelphia. New brands included Old Hickory whiskey and Inver House scotch, which became locally popular. The original plant building installed a sign on its roof adjacent to the then-new Walt Whitman Bridge (photo above) advertising the Old Hickory brand and offering various messages to passing drivers. This sign became a familiar landmark in our area.

With the communist takeover of Cuba in 1959, molasses, a key ingredient in the distilling process for the company's whiskeys and scotches, was no longer readily available, and the firm had to switch to artificial sources. The new management did not anticipate consumer demand accurately and began to over-produce, and was not keeping current with changing technologies in the distilling industry. Another change in management amidst these issues

occurred in the mid-1970's, leaving the firm nearly \$40 million in debt with a power struggle within the company leadership resulting in further troubles for Publicker.

To respond to the debt and other issues, the new management began to sell off brands and assets in the late 1970's, but could not get out from under its substantial debt and had no tangible succession plan. As a result, the company's operations in Philadelphia were idled in 1982 and the company was sold in 1986. The years of mismanagement had created an environmental disaster, and the Commonwealth's Department of Environmental Resources found improper records, a lack of licenses, hazardous leaks, illegal drums, and water contamination. In 1987 an explosion and five-alarm fire ravaged the original plant building. The federal Environmental Protection Agency stepped in and declared the site a threat to human health, and placed it on the national Superfund cleanup list. The site was later remediated and converted into a holding yard for imported automobiles arriving on ships at the nearby Packer Marine Terminal.

Thanks to philaplace.org for this information.

About This Supplement...



This Engineers Week Supplement to the Philadelphia Business Journal has been prepared by the Delaware Valley Engineers Week (DVEW) Committee of the Engineers' Club of Philadelphia. The Club is pleased to sponsor DVEW on behalf of the affiliated engineering-related societies and supported by those organizations that have advertised in the supplement.

The Engineers' Club of Philadelphia was founded in 1877. The Club works to maintain and expand a strong connection with affiliated engineering-related societies that has existed since its earliest days. By organizing and delivering Engineers Week, the Club is working toward this goal by strengthening

its resources and allowing Engineers Week organizers to plan strategically for improved celebrations and greater visibility.

The Engineers' Club offers individual, student, and corporate memberships to further the goals of relationship building and networking among technical professionals, communication and collaboration among engineers, raising the awareness of engineering in our society, and the professional development of its members. The Philadelphia Engineering Foundation, a 501(c)3 organization, is the charitable arm of the Club to support its student outreach efforts.

Please visit the Club's website at www.engrclub.org for more information.

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American Society of Civil Engineers, Philadelphia Section

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We salute our members who are being honored during Delaware Valley Engineers Week 2020

Jesse Gormley, PE, Delaware Valley Young Engineer of the Year

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.

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The Pennsylvania Report Card (PARC) on Infrastructure was released in November 2018, which graded PA as C-. Learn more about the report card by visiting pareportcard.org. By educating ourselves on the challenges and solutions, we can all help raise the grade for Pennsylvania.

Visit asce.org to learn more about civil engineering.

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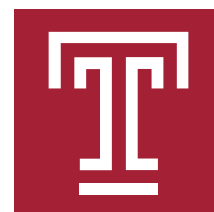
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