



The Philadelphia Engineer

Founding Chapter 1934 – May 2023 issue

2022-23 Chapter Program

Pennsylvania Society of Professional Engineers
Philadelphia Chapter

Monthly Dinner Meetings, Tours and Courses

May 4th, 2023 5-6pm

Chapter Annual Meeting

including installation of 2023-24 Board
and

Pennoni Material Testing Lab Tour

Location: 3100 Horizon Drive, King of Prussia, PA 19406

Hoagie provided - [here for more information](#)

Tour Pennoni's newly expanded and renovated, 4,700 SF materials inspection and testing lab to see first-hand cutting-edge technology used on analyzing and testing some of the technologically advanced materials used in construction today. Some tried and true materials test apparatus will also be described and there will be live demonstrations throughout the one-hour tour.

This Event has been accredited for 1.0 Professional Development Hours by the Pennsylvania Society of Professional Engineers. PSPE believes that this course will be accepted for credit in PA, NJ and other National Model states where courses do not require pre-approval. This Course APPROVED for NY Credit.

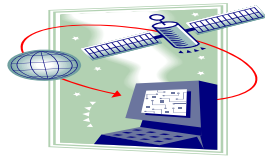
Visit <http://pspe-philly.org/#reservations> to Register

News from State PSPE

Our State Legislature has Officially
Approved Use of Electronic Seals



to



Read about it in PA Bulletin 22-1930

www.pspe-philly.org/images/PABulletin22-1930.pdf



Download the PE Signature and Stamp Process Resource Guide

https://www.nspe.org/sites/default/files/resources/pdfs/GR/NSPE_COPA_Stamp_Doc.pdf

2023 NATIONAL ENGINEERS' WEEK

BANQUET Hosted by the Philadelphia Chapter
Saturday - February 25, 2023 - 5-10PM

Recognize, Promote and Celebrate the Role
Engineers fill in the Greater Philadelphia Area



Outstanding Engineering Achievement Award 2022

Presented to Langan for their involvement upon the
[Laborer's District Council Education Center](#)

Outstanding Engineering Achievement Program

Top regional projects judged by
Presidents of regional chapters

Winners for 2022:

Outstanding

Langan: Laborer's District Council Education Center
[VIEW PRESENTATION HERE](#) - [VIEW Q&A HERE](#)

Notable

Pennoni: Pennswood Road Bridge over Amtrack
[VIEW PRESENTATION HERE](#) - [VIEW Q&A HERE](#)

Honorable

STV: SEPTA Wayne Junction Static Frequency Rehab
[VIEW PRESENTATION HERE](#) - [VIEW Q&A HERE](#)

PSE: Passaic School District Dayton Childhood Center
[VIEW PRESENTATION HERE](#) - [VIEW Q&A HERE](#)

SEPTA: Elwyn to Wawa Station Restoration
[VIEW PRESENTATION HERE](#) - [VIEW Q&A HERE](#)

Click Entry above to view Nomination, PRESENTATION, Q&A

[Click for Final Comments by Officers of PSPE and NJSPE](#)
[VIEW Judges' Comments](#)

2022-23 Chapter Program

Our Philadelphia Chapter program for 2021-22 was awarded **PSPE Chapter Outstanding Program Award** presented at the State PSPE Annual Meeting September 23rd. Our program for 2022-23 draws to a close with our May 4 tour. We are developing our 2023-24 program. We continue to look to our Members for suggestions and to volunteer to share knowledge with your peers. Contact our leadership at President@PSPE-Philly.org.

| Pennsylvania Society of Professional Engineers Philadelphia Chapter 2022-2023 Program | |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Date | Event - Click Event for Details |
| Sep.8, 2022 | Tour of New WAWA Septa Station |
| Sep 13&15 State | PSPE State Conference Virtual |
| Sep. 23 State | PSPE State Annual Conference Live |
| Oct. 6, 2022 | Electric Power Systems and Vehicles |
| November 2022 | ETHICS for Engineers |
| Dec. 1, 2022 | Delaware Valley Region Outstanding Engineering Achievement Program |
| Jan. 5, 2023 | Elevators, Complex Machines |
| Feb. 9, 2023 | Legislation Impacting Engineers |
| Feb 4, 2023 MathCounts | Phila Chapter MathCounts Live at Temple |
| Feb 25, 2023 NSPE PA/NJ Engr's Week | Greater Philadelphia and Delaware Valley Regional National Engineers' Week Banquet |
| Mar 2, 2023 | DVGI 2022 Project of The Year |
| Apr 6, 2023 | Postponed to May |
| May 4, 2023 | Annual Meeting & Officers Installed Pennonni Material Testing Lab Tour |

Resources from NSPE

free to Members of NSPE

Click to access:

- [How to apply for licensure](#)
- [Continuing Education Requirements](#)
- [Defining the Practice of Engineering](#)
- [Digital Signing and Sealing](#)
- [Exemptions to Engineering Licensure](#)
- [Violations and Enforcement of Laws](#)
- [Disciplinary Self-Reporting Rules](#)
- [More Resources](#)



LEADERSHIP for 2023-24

| Nominated Slate elected per Bylaws: | |
|-------------------------------------|------------------------|
| Robert Cargill, PE | President |
| Robert Cargill, PE | President-Elect |
| Brandon Swartley, PE | Vice President |
| Thomas Friese, PE | Past President |
| Linda Douthwaite, PE | Secretary |
| Linda Douthwaite, PE | Treasurer |
| Chris Fell, PE | Membership Secretary |
| Abraham El | State Director, 2024 |
| Thomas Friese, PE | Alt State Director |
| Erik Hoet, PE | Chapter Director, 2024 |
| Fredric L. Plotnick, PE | Chapter Director, 2024 |
| Yefim Gudesblat, PE | Chapter Director, 2025 |
| Justin Alexander, PE | Chapter Director, 2025 |
| Ed Pluciennik, PE | Chapter Director, 2026 |
| Thomas Friese, PE | Chapter Director, 2026 |

* Directors are 3 year positions completing May year noted

| State Officers from our Chapter | |
|---------------------------------|-------------------------|
| Thomas Friese, PE | State Treasurer |
| Fredric L. Plotnick, PE | SERegion Vice President |
| Leonard Bernstein, PE | Past State President |

MathCounts Philadelphia 2023 Winners

Top Teams:

- 1st: Germantown Friends School - Coach: Kate Jones
- 2nd: Julia Reynolds Masterman - Coach: Chris Taranta
- 3rd: Penn Alexander School - Coach: Matthew Hunn

Top Individuals:

- Calvin Wang, Julia Reynolds Masterman School
- Jonathan Yang, Germantown Friends School
- Sohail Aji, CCA Baldi Middle School

Pennsylvania State MATHCOUNTS Competition 2023 INDIVIDUAL RESULTS

| PLACE | CHAPTER | STUDENT | SCHOOL |
|-------|-----------------|-------------|--------------------------------------|
| 1 | Lehigh Valley | Eddy Zhang | SPRINGHOUSE MIDDLE SCHOOL |
| 2 | Valley Forge | Rayoon Kim | BLACK ROCK MIDDLE SCHOOL |
| 3 | Harrisburg | Neil Peter | MOUNTAIN VIEW MIDDLE SCHOOL |
| 4 | Pittsburgh | Erick Zhao | SOUTH FAYETTE TOWNSHIP MIDDLE SCHOOL |
| 5 | Philadelphia | Calvin Wang | JULIA R. MASTERMAN |
| 6 | Valley Forge | Jeffrey Fan | ARCOLA INTERMEDIATE SCHOOL |
| 7 | Delaware County | Eden He | GARNET VALLEY MIDDLE SCHOOL |

FOUR OF SEVEN TOP INDIVIDUALS FROM OUR SouthEast REGION

2023 TEAM RESULTS

| PLACE | CHAPTER | SCHOOL | COACH |
|-------|-----------------|---------------------------------|------------------|
| 1 | LEHIGH VALLEY | Springhouse Middle School | Kevin Hallman |
| 2 | CENTRAL | Mount Nittany Middle School | Rebekah Sjoberg |
| 3 | VALLEY FORGE | Arcola Intermediate School | Brooke Sheplock |
| 4 | PITTSBURGH | Marshall Middle School | Shannon Coulter |
| 5 | PITTSBURGH | Ingomar Middle School | Zhi-Hong Mao |
| 6 | DELAWARE COUNTY | Garnet Valley Middle School | Saima Sohail |
| 7 | HARRISBURG | Hershey Middle School | Dave Cavic |
| 8 | CHESTER COUNTY | Lionville Middle School | Kenuo Pan |
| 9 | CHESTER COUNTY | Charles F. Patton Middle School | Shenshen Cai |
| 10 | BUCKS COUNTY | Charles Boehm Middle School | Melissa Williams |

FIVE OF TEN TOP TEAMS FROM OUR SouthEast REGION

President's Message

The past year as president has gone quickly, but nonetheless has been successful for the Chapter. Through a true group effort, we have been able to continue serving our fellow professionals and supporting the community in which we live and work; in particular events that promote Science, Technology, Engineering and Math (STEM) educational activities. Our programs for members have included opportunities for continuing education such as geotechnical engineering of new buildings in University City, electrical engineering topics such as the need for evolution of electric power systems for Electric Vehicles, and ethics for engineers. We had a tour of the new SEPTA WAWA rail extension and station, and as I write we are looking forward to a tour of a construction materials testing lab in King of Prussia (sign up on this web page: <http://pspe-philly.org/#reservations> .)

Our annual banquet gave us an opportunity to publicly congratulate the winners of the Delaware Valley Outstanding Engineering Achievement Awards and hear presentations by the award winners. And of course, we cannot forget about MathCounts which has recovered from COVID-19 and was held live at and sponsored by Temple University. We are still trying different ways to bring our programs to our fellow engineers after COVID-19 caused all-virtual programs, but there is more work to be done as we acclimate to the new normal. I wish our incoming president, Bob Cargill, good luck and success in guiding the Chapter for the next 2 years and thank all those in the Chapter who have made this year the success that it was.

Thank you,
Tom

2023

is a Pennsylvania PE License Renewal Year
Don't get caught without required PDH credits
Philadelphia Chapter, on behalf of Chapter, Region and State, will be conducting a Continuing Education BootCamp on September 18-19-20, where Attendees may earn up to the FULL 24 PDH credits required for license renewal. Details are currently being developed but format will be similar to that of the Philly BootCamp held in 2019 (now three days rather than two. See format at <http://pspe-philly.org/bootcamp/bootcamp.html>.)
\$100 for 8 PDH, \$160 for 16 PDH, \$200 for 24.PDH
BootCamp will be held LIVE at Drexel University and Zoom Simulcast for those beyond driving distance
The Philadelphia Chapter is now seeking Presenters. Topics desired include ALL fields of Engineering, as well those pertaining to Ethics and Ethical Practice.

Please send inquiries to President@PSPE-Philly.org.

SouthEast VP's Message

Be proud to be a Professional Engineer

As a Professional Engineer, I pledge:

To place service before profit, the honor and standing of my profession before personal advantage, and the public welfare above all other considerations

What does this pledge, differing from the ethical oath of any other professional, mean? Our original Society Creed of 1954 was before God, and perhaps limited to "according to the laws of man." This was updated in 2021 to be solely "To live and work according to the highest standards of professional conduct." Which perhaps places our obligation to be beyond that which may be gleaned from religious scripture and beyond what is fashionable by what is deemed to be a slim majority of our local (township, state or national) citizenry.

We, as Engineers, stand alone to determine how to interpret our pledge. In my classes on Law for Engineers, I ask my students to answer this question: In design of the instructions to be given the computer coders for the "brain" of a self driving automobile, does the **public welfare** favor accepting the death of the eighty year old passenger of the car to be caused by a head on collision with an oncoming truck run amuck, or veering to run over the four eight year old children on the adjoining sidewalk?

What does our pledge say about our obligations to design accounting for claims of global warming? What does our pledge say about our obligations to design accounting for claims of needs to address diversity equity and inclusion? Here I was concerned the instructions from my employer or client were somewhat unclear. I did not think an additional year studying at a seminary would be necessary to fulfill my pledge as a Professional Engineer.

As your SouthEast Region Vice President, I have mostly merely viewed from the sidelines the Achievements of our Chapters. Each has struggled and succeeded in coming back from the restrictions placed by the 2020 Pandemic to continue to serve Chapters, ALL Professional Engineers and others practicing engineering, and the general public whose welfare we pledge to place above all other considerations.

Thank you,
Fred

The Delaware County Chapter
Pennsylvania Society of Professional Engineers
17th Annual Golf Outing
NSPE-PA DELAWARE COUNTY CHAPTER
PENNSYLVANIA SOCIETY OF PROFESSIONAL ENGINEERS
Springfield Country Club
400 W. Sproul Road, Springfield, PA 19064
Thursday, May 25, 2023

Registration is available online (<https://www.delcopspe.org/>),