



The Philadelphia Engineer

Founding Chapter 1934 – January 2022 issue

2021-22 Chapter Program

The Pennsylvania Society
of Professional Engineers
Philadelphia Chapter

Monthly Meetings, Tours and Courses

January 6th 2022

Boeing V22 Future Factory Presentation & Tour

This course will be accredited for 1.0 Professional Development Hour by the Pennsylvania Society of Professional Engineers through PIE to meet continuing education license requirements in New York State. 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. Proper answer of challenge questions required to receive Certificate of Participation for those attending virtually on-line.

for Reservations click [HERE](#)

or go to www.pspe-philly.org

Did You Miss Our Last Meeting?

It is not too late - View the Presentation
Get PDH Credits On-Demand
Click [HERE](#) - Only \$7.50 for 1.5 PDH

Outstanding Engineering Achievement Program

Top regional projects judged by
Presidents of regional chapters

Winners for 2021:

Outstanding: ADCON Consultants

[HVAC Replacement at](#)

[Torresdale Filtered Water Pumping Station](#)

Notable: LANGAN Engineering

[The Pavilion - Penn Medicine](#)

Honorable: Pennoni Associates

[Schuylkill River Trail- 58th Street Extension](#)

Click projects above for VIDEO of presentations
Click [HERE](#) for a Statement from the Judges

2022 NATIONAL ENGINEERS' WEEK

BANQUET Hosted by the Philadelphia Chapter
Saturday - February 26, 2022 - 5:00PM to 10:00PM

Chart House Restaurant

555 S Christopher Columbus Blvd

Philadelphia, PA 19147

(215) 625-8383 - Free Parking

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

**90 Minute Reception before dinner is served
(with Hot Butlered Hors d'Oeuvres and Cash Bar)
then a Full Course Dinner
and an after dinner Dessert Reception**

- Program and Presentations -

Presentation of Outstanding Engineering Achievement Awards
Presentation of MathCounts and STEM Awards

- Keynote -

"How Engineers Ramp Vaccines from Lab to World"

By Mark DeLuca, PE

Consultant to Merck, Johnson and Johnson, and Medimmune and others
to build facilities to make vaccines for a wide variety of infections

No Banquet was held in 2021 due to the Covid Pandemic

Our Board 2021-22

Please see <http://pspe-philly.org/officers/officers.html>
for a list of our current Board

NOMINATIONS for 2022-23 are now OPEN
See **BYLAW 12 – NOMINATION AND ELECTION OF
OFFICERS AND DIRECTORS**

at <http://pspe-philly.org/bylaws/PhilaChapterBylawsVersion4-7-2005.pdf>

SECTION 1. The nomination of officers and Directors shall be made by a **Nominating Committee**. This committee shall be appointed by the President early in the administrative year, and shall consist of at least five members of the Chapter, in good standing, one of whom shall be the living most recent Past President currently on the rolls of the Chapter, who shall serve as chair of the Committee.

Interested individuals may contact president@pspe-philly.org

Join us for #PECON22 in



Philadelphia August 1-3, 2022

CALL for Presentations OPEN November 5th to 30th

<https://www.nspe.org/resources/2022-professional-engineers-conference>

President's Message

Dear colleagues and friends. On behalf of the officers and board members of the Philadelphia Chapter, very best wishes for a Happy Holiday Season as we will bid farewell to 2021 in a few weeks. 2021 has clearly been a year where the Chapter did its best to "return to normal" activity. We maintained a focus on virtual meetings for course approved credits and hosted our first in person tour in September. Earlier this month, the Chapter had an excellent OEA (Outstanding Engineering Award) virtual event with three great projects submittals. We look forward to our second tour on 1/6/2022 at Boeing. Our February 2022 Engineer's Banquet is set for the Chart House with a very interesting and timely speaker. Our Chapter is alive and thriving and looking forward to expanding its membership in the year ahead. Be safe!

Please Join the New Jersey State Board of Professional Engineers and Land Surveyors to celebrate 100th Anniversary.

Click to <https://61016cbfd8bd9.site123.me/>.

ALSO an early reminder

the professional engineer and land surveyor biennial renewal will begin at the end of the first quarter in 2022. [Get PDH credits now!](#)

NSPE President's Message

Dear NSPE member, 2021 is almost over. Where did the time go? We can't stop the calendar from changing, but we can help you to hang on to your free webinars before they expire on 12/31/21.

[As a member of NSPE, you get access to a new selection of 15 FREE PDHs every year.](#) If you don't have time to view a free 2021 course before December 31, don't worry, just register for the free webinars before December 31. This will save them in your NSPE member account until you're ready to view them. These webinars, when saved in your account, can be accessed for up to one year!

[Access Your 15 Free Courses](#)

Engineers' Creed (2021)

As a Professional Engineer, I dedicate my professional knowledge to the advancement and betterment of public health, safety, and welfare.

I pledge:

To give the utmost of performance;

To participate in none but honest enterprise;

To live and work according to the highest standards of professional conduct;

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

In humility, I make this pledge.

MATHCOUNTS 2021 Participants

<u>School Name</u>	<u>Coach</u>	<u>Participants</u>
Germantown Friends School	Kate Jones	15
J R Masterman School	Chris Taranta	15
Springside Chestnut Hill Academy Boys Middle School	Andrew Wolf	15
Springside Chestnut Hill Academy Middle School Girls	Abbie Willing	12
St Francis Xavier School	Natalie Damora	1
The Philadelphia School	Liz McCannell	11
William Penn Charter School	Jennifer Ketler	15

2021 Philadelphia Chapter Winners

Top Individuals:

Calvin Wang, Julia Reynolds Masterman
Tomas Falleti-Moore, Julia Reynolds Masterman
Mia Melishchuk, Julia Reynolds Masterman
John C. Cao, Germantown Friends School
Ben Russo, The Philadelphia School

**Thank you to our Chapter MathCounts Team
Alex Sopin - Pedro Pinto - Abraham El
and all volunteers and coaches**

To Donate to Mathcounts:



Resources from NSPE

Compiled for each State
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](#)



Philadelphia Chapter Program 2021-22

Our program for 2021-22 continues under development and we continue to look to our Members for suggestions and to volunteer to share knowledge with your peers. Please contact our leadership at President@PSPE-Philly.org.

Pennsylvania Society of Professional Engineers Philadelphia Chapter 2021-2022 Program	
Date	Event - Click Event for Details
Sep.9, 2021	Tour Schuylkill Banks
Sep 21-22	PSPE State Conference Virtual
Oct. 7, 2021	Green Buildings Fall Short on Energy
Nov. 4, 2021	Modeling Neck Biomechanics
Dec. 2, 2021	Delaware Valley Region Outstanding Engineering Achievement Program
Dec 16, 2021 ECP	ECP Multi-Society Ethical Practice - Virtual 12pm-1pm No Fee
Jan. 6, 2022	Boeing V22 Future Factory Tour
Feb. 3, 2022	Live Class (Simulcast) TBD
Feb 5, 2022 MathCounts	Phila Chapter MathCounts Live at Temple University
Feb 26, 2022 NSPE PA/NJ Engrs Week	Greater Philadelphia and Delaware Valley Regional National Engineers' Week Banquet
Mar 3, 2022	Live Class (Simulcast) TBD
Apr 7, 2022	Live Class (Simulcast) TBD
May 5, 2022	Annual Meeting & Officers Installed

To view [Past Year Programs](#) click [HERE](#)



Report from MathCounts Chair

Much has been brewing at the Chapter, State, and National levels for MathCounts. Not having live Chapter Competitions last year and this year has both let some of the steam out of the engine, and taken away a few chances to engage a few regular volunteers into taking on more of a leadership role.

Aside from that, the other major concern is facilities, which is a primary reason all of the Chapter Competitions are virtual again this year. While Temple and its College of Engineering have been great partners, sponsors, and supporters over the years, National MathCounts put out a survey of Chapter Coordinators earlier this year, and learned that most were challenged by additional costs, regulations for visitors, and spatial limitations imposed by potential host facilities. Our group has strong ties and great relationships at Temple, but the University now has rules in place that would make it very challenging to host an event there.

On the National Board level, we have had intense talks about the future of the Competition (Chapter, State, National) Series, and how technology may need to be integrated more going forward. I think as Coordinators continue to experience the evolving impacts of the pandemic, and things continue to be fluid, we may need to see if our current model becomes more of a norm than a short-term solution.

At the State Board level, we have a "Task Force" committee focused specifically on addressing issues and concerns that impact Chapter Coordinators and Pennsylvania's State Competition as we venture forward. PSPE is firmly committed to the sustained success of MathCounts. We have Chapters where there may not be a Board, budget, regular meetings, or any other activities, but MathCounts is still held there every year.

Involvement at Chapter, State, and National MathCounts allows for engagement that is hopefully beneficial for the entire program and each of its levels. It is safe to say this is a pivotal juncture for the program. How the program is navigated at all three levels over the next few years will be critical to its relevance and impact. With that said, locally, it does make sense to strategically engage new volunteers for MathCounts. Even if things move toward use of more technology and/or Chapter Competitions being completely virtual, our Committee will still be needed to keep things running smoothly.

MathCounts is a program where your involvement may be large or small, and whether you are the Senior Engineer or still a student. One area where a student member may be best may be as a mentor at a local Middle School to explain to our possible Engineers of Tomorrow how 6-7-8th grade math is the backbone of college math and professional practice. But we need mentors at all levels to engage with these 6-7-8th graders and their teachers and coaches, and we are learning that much can be done remotely, even just a Zoom-style meeting during the lunch or club period provided.

To Donate to Mathcounts:

