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# POLISH-AMERICAN ENGINEERS ASSOCIATION

FOUNDED



IN 1934

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All members and friends of Polish-American Engineers Association are cordially invited to attend our meeting.

- DATE:** Friday, October 20<sup>th</sup>, 2017
- TIME:** Doors Open 7:30 p.m.; Business Meeting begins 8:00 p.m.
- PLACE:** \*\*\*\*\* **PLEASE NOTE THE LOCATION CHANGE** \*\*\*\*\*  
**Our Lady Mother of the Church**  
8747 W Lawrence Ave.  
Chicago, IL 60656
- SPEAKER:** Dr. Piotr D. Moncarz
- TOPIC:** Innovation, Strategic Development, and Electromobility as a National Project of Poland
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## Dr. Piotr D. Moncarz

Professor Piotr D. Moncarz, a 1968 graduate of the Bridge and Road Construction Vocational school in Poznan; a 1981 Ph.D. of Stanford University School of Engineering; currently Adjunct Professor at Stanford University, teaching at graduate classes for 30 some years. Dr. Moncarz specializes in the study and prevention of engineering and scientific in nature failures and disasters. He is employed since 1980 by Exponent Failure Analysis Associates ([www.exponent.com](http://www.exponent.com)), a leading failure analysis and prevention firm in the world. Today he is a Principal Engineer and Senior Fellow in this publicly held think tank of some 400 Ph.D.'s and about thousand employees. This year Dr. Moncarz was inducted into the National Academy of Engineering of the United States. He has authored hundreds of publications, lectures and speeches.

Dr. Moncarz is also Co-founder and chairman of the US-Polish Trade Council ([www.usptc.org](http://www.usptc.org)), a pro-bono professional organization dedicated to the transfer of knowledge and the strengthening of co-operation between Poland and the United States. He is Vice President of the Board of Polish Engineering Council of North America; ex-member of the 1st Board of NCBiR; and co-organizer and academic director at Stanford University's Top 500 Innovators Program. On behalf of U.S. State Department, he was Co-Chair of Subcommittee for Financing of Innovations in the Polish-American PLUS-IT program. He is also co-creator of the Polish Electromobility Program, and Chairman of the Supervisory Board of Electromobility Poland SA.

Dr. Moncarz is an engineer, entrepreneur and academic teacher, actively involved in the Polish diaspora efforts on behalf of Poland.

## ABSTRACT

What is behind this obsessively over-used term “innovation” and how to differentiate it from “good idea” and modernization? Those are not just philosophical questions, as each year investors, corporations, and governments around the world entrust billions of dollars to a process known as supporting the next unicorn. The talk will attempt to present the Silicon Valley / Stanford University definition of innovation, present examples of real and pseudo innovation, and at the end of that introductory section provide some guidelines on how to test the prospect for its innovation content.

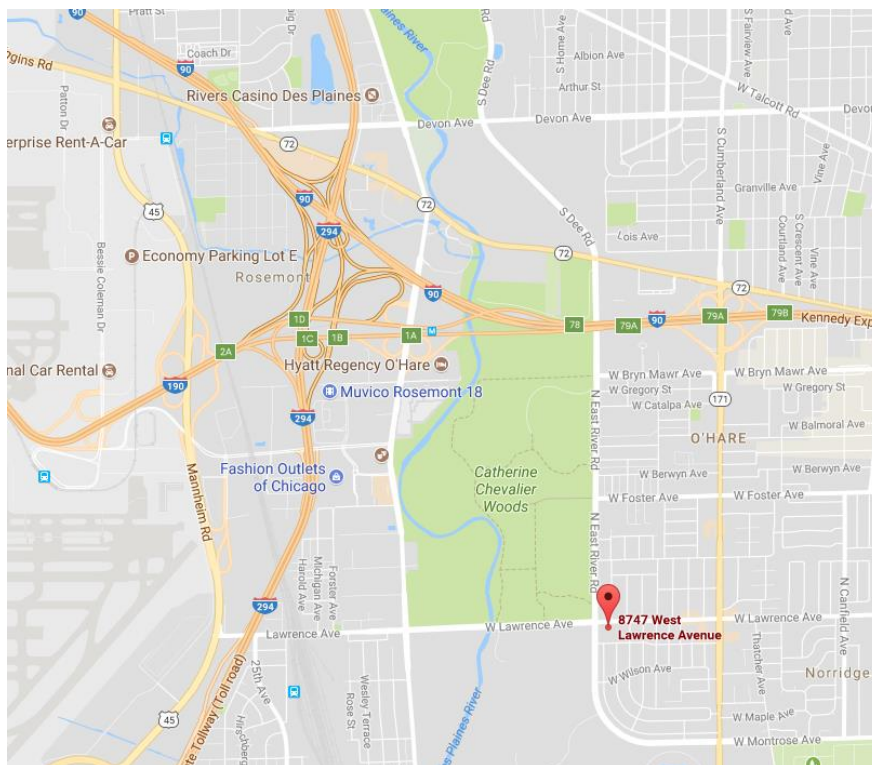
As Dr. Moncarz has been involved for many years in the concept of national electromobility program in Poland, he will discuss the opportunities, the difficulties, and the current stage of the program. While the product of the program can be narrowed down to technological marvel of class S, the program itself encompasses a much broader challenges from market psychology, through finance mechanism to electro-technical infrastructure. Can we dream of an innovative national program for the Polish economy, science and technology, manufacturing through broadly understood electromobility?

## PAEA Announcements

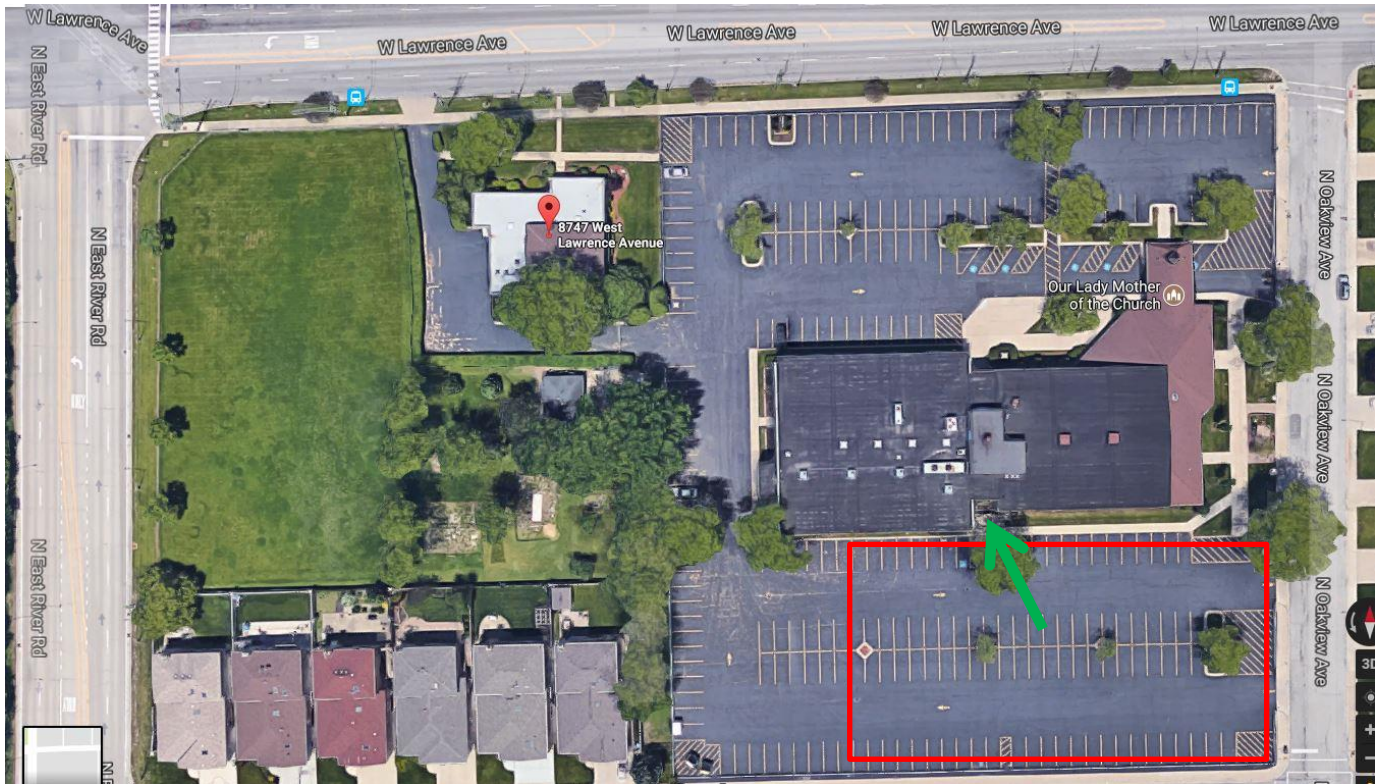
### MEETING LOCATION CHANGE

In September, we made a last-minute change of meeting location from the Copernicus Center to Our Lady Mother of the Church. As a vast majority of the Membership present voted to continue meeting at Our Lady Mother of the Church; the Administration has arranged for meetings going forward to be held there.

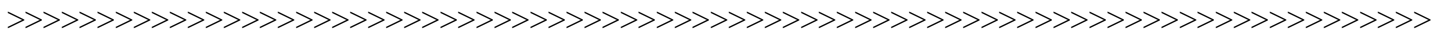
8747 W Lawrence Ave.  
Chicago, IL 60656



The entrance closest to our room is at the back of the church (Green arrow)- the best parking location is off of Oakview Ave, behind the church (Red box):



We hope this new location is convenient for all, and allows more people to join us- we look forward to seeing everyone there!



## 2017 MEMBERSHIP DUES

As approved in our January meeting, dues for 2017 have increased to **\$70 per year, senior citizens and students \$35 per year**. This was necessary to have a better balanced Budget in order to better fulfill our mission of mutual support, providing Members with educational opportunities as well as Scholarships for our young technologists. Please see our January Bulletin for specific Budget figures.

As always, if personal circumstances prevent payment of (full or partial) dues, we encourage continued participation (and even searching out support from within our organization).

We ask that everyone pay their dues as soon as possible. Membership Cards will be provided to all those who paid their dues.

Questions? You may inquire at the meeting or send an email to: [administration@polishengineers.org](mailto:administration@polishengineers.org)

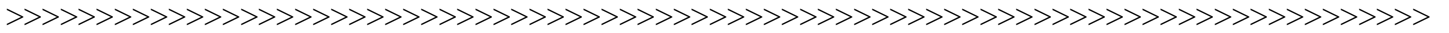
You may send your dues directly to our new Treasurer:

Mr. Marek Rozwadowski  
5718 W. 84<sup>th</sup> Street  
Burbank, IL 60459

You may also pay your dues at our meetings, and receive your Membership Card immediately.

Thanks to all who have already paid- your dues are critical in supporting the work of the PAEA!





## 2017 Ralph Modjeski Scholarship

The 2017 Ralph Modjeski Scholarship winners are:

- Peter Borowski- Senior in Mechanical Engineering at Bradley University
- Sebastian Dobon- Junior in Electrical & Computer Engineering at Northwestern University
- Alexander Toth (Wojtas)- Junior in Aerospace/Mechanical Engineering at Notre Dame

Congratulations to all our winners! Thank you to all candidates, who were all very worthy of our award- it was a difficult choice.

### Peter Borowski



To the Polish American Engineers Association:

Dziękuję! I greatly appreciate being selected for the Ralph Modjeski Scholarship. I am very proud of being both an Engineer and Polish. My heritage is and has always been an important part of my life. Having been an active part of the Rockford Polish community for as long as I can remember, I recognize the importance of having strong ties to those of your similar ethnic background. Also, as a founding member of Bradley University’s chapter of an engineering fraternal organization I understand the need and benefit of a community such as the Polish American Engineers Association. I am grateful to be recognized by such a wonderful organization and to receive the aid of this scholarship. I cannot wait to see what I do with my engineering degree which this scholarship is helping me get. I also cannot wait to see where becoming a part of the PAEA takes me. Thank you for this wonderful opportunity.

Best Wishes to All,

Peter Borowski

### Alexander Toth (Wojtas)



To the Polish American Engineers Association:

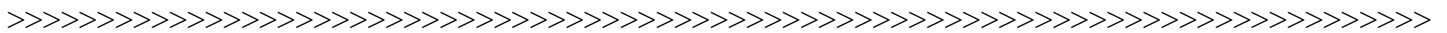
Hello my name is Alex Toth, and I am a Mechanical Engineering major in the College of Engineering at the University of Notre Dame. My home town is Mishawaka, Indiana and I have always enjoyed the prospect and benefits of living very near the Notre Dame community. On campus I reside at the beautiful and scenic Carroll Hall where I intend to spend all four of my college years and become a resident assistant for my senior year. On campus, college has been great so far. Academics are a major part of my college career and my identity, so it has been nice to be able to keep up my grades with hard work and determination. I am pretty happy to stay that I am a proud member of the Polish Club of Notre Dame. The club has been fun because we have been able to make Pierogi for Christmas, eat Paczki on Fat Tuesday, and play some soccer games on the weekends.

Looking back and thankful for the support that has allowed me a third year at the University of Notre Dame, I can say I am extremely grateful for the experiences I have had in the past year. One of my favorite events that has become a constant part of my weekly schedule is my new goal of visiting all the chapels on campus for mass at least once in the year. I would say that the best thing about Notre Dame is the Catholic community they have built. Whether going to dorm mass or mass at the basilica, I feel the true spirit of Catholicism.

After college and looking forward, I hope to find an internship this summer to be able to develop the skills necessary to be a competitive engineer in today's world. While I am not certain what I want to do with my Mechanical Engineering degree, I know that I want to give back as you and your engineering scholarships have done. I cannot stress how lucky I am to be attending school here (and being able to travel to Mexico City this break with campus ministries). Without the financial assistance you have provided and the great work of PAEA, going here would be a far off dream. I myself would not be able to consider attending this university without knowing that there are supporters who are willing to help students like me achieve a top-notch education at one of the best schools in the country. I can say I was truly excited when I saw I got into Notre Dame but even more excited when I saw the financial aid that could make my dream a reality.

Thank you for believing and trusting in me!

-Alexander Toth



## First Annual PSLA Student Symposium- 21 September

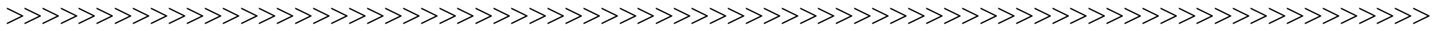
PAEA Administration members Piotr Deoniziak (with his wife Magdalena) and Andrzej Pawlowski attended the First Annual Polish Student Leaders Association Symposium, 21 Septmeber @ 6:30pm at the Polish Consulate in Chicago. The event was well attended, and brought hope for the future.

The aim of the Symposium was to present the cultural and social ideas of Polish youth institutions in Chicago and surrounding areas to discuss their influence in the preservation of Polish culture and investment among students at secondary and university institutions; and discuss the importance of interaction between students and older professionals in a mutually beneficial way. And, from the Keynote Speech by Lucas Fuksa, through to the Panel and then Open Discussion; this aim was met.

The students are very motivated and have great ideas for continuing work together after school in support of each other and Polonia. And the PAEA will be looking at ways to support this in a mutually-beneficial way. Anyone interested in participating, please let someone in the Administration know; or send an email to [contact@polishengineers.org](mailto:contact@polishengineers.org).







## Tour of Braidwood Nuclear Power Plant- 29 September

Twelve Members and Sympathizers of the PAEA attended a very enlightening tour of the Braidwood Nuclear Power Plant. We are grateful to the Braidwood staff who took several hours out of their day, and worked the complex security procedures to allow us this very unique experience. We are also grateful to Krzysztof Kompel for proposing, enabling, and organizing this wonderful event!



Westinghouse Vantage 5 fuel assembly

The pins are made of Zircalloy, the straps and other parts are Zircalloy or Inconel

It can hold fuel enriched to (about) 4.85% U-235

17 x 17 grid array

264 full-length fuel pins

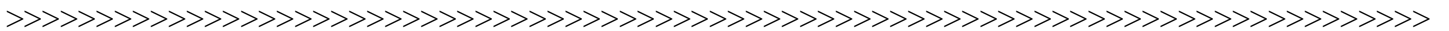
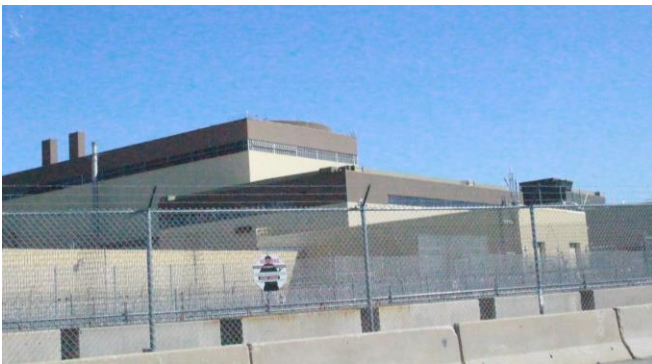
each pin is about 12.75 feet long

The assembly weighs about 1100 pounds

Fuel has a melting temperature of just over 5080 deg. F

There are 193 of these in each unit

we change about one-third of them per outage.





[https://www.polishmuseumofamerica.org/?event=kosciuszko-polonus-exhibit-opening&event\\_date=2017-10-15](https://www.polishmuseumofamerica.org/?event=kosciuszko-polonus-exhibit-opening&event_date=2017-10-15)

## **Polish Museum of America Looking for Consultants for Great Hall Renovation Project**

The Polish Museum of America would like to reach out to the PAEA Membership & sympathizers to ask for (pro bono) help with exploration, analysis and documentation of an ambitious project to re-organize, modernize, & prepare our jewel of Polonia for the next 80 years! The PMA is in the beginning planning stages of a renovation of the Sabina P. Logisz Great Hall, including the main hall, stage area, bathrooms, and other spaces on the floor.

Help is urgently needed in planning the space, creating accurate drawings, structural analysis to evaluate current & future proposals, etc. If interested in supporting this critical and major initiative, please contact Mrs. Victoria Granacki ([Granacki@aol.com](mailto:Granacki@aol.com) ; 773.472.1371).

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[www.polishengineers.org](http://www.polishengineers.org)