
POLISH-AMERICAN ENGINEERS ASSOCIATION

FOUNDED



IN 1934

P.O. Box 241, Northbrook, IL 60065-241, USA • www.polishengineers.org

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

- DATE:** Friday, November 15th, 2019
- TIME:** Doors Open 7:30 p.m.; Business Meeting begins 8:00 p.m.
- PLACE:** Our Lady Mother of the Church
8747 W Lawrence Ave.
Chicago, IL 60656
- SPEAKERS:** Mr. Jeff Grabowski
- TOPIC:** Integrated Computational Materials Engineering
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Mr. Jeff Grabowski

Jeff Grabowski (born in La Grange, IL in 1973) received his BS degree in Ceramic Engineering from the University of Illinois at Urbana-Champaign and an MS degree in Materials Science and Engineering from Northwestern University.

He is the Manager of Business Development at QuesTek Innovations LLC, where he has worked since 2010 and collaborates with the Department of Defense, the Department of Energy, and private industry (such as aerospace, space, oil and gas, energy, medical, automotive, metallic additive manufacturing, etc.) to identify and address materials-related product performance issues that can benefit from a new high-performance QuesTek-designed alloy that already exists, or that QuesTek could design.

He also identifies, leads commercialization efforts and grows markets for emerging alloys based on copper, aluminum, titanium, nickel, cobalt and molybdenum, still early in QuesTek's design phase.

In addition, he forms strategic multi-party international partnerships to mutually grow business and is responsible for developing and executing QuesTek's strategy in metallic additive manufacturing.

Prior to joining QuesTek, his career experience included quality, process, manufacturing and applications engineering positions in steel, polymers, ceramics and industrial gas.

He is an active member of The American Helicopter Society, The American Gear Manufacturers Association, and ASM International and regularly gives presentations on advanced materials at their respective technical conferences.

ABSTRACT

Most metallic alloys in use today have chemistries and thermal processing steps (e.g., forging and heat treating) that were developed decades ago via time-consuming and costly trial and error experimental methods.

Today, materials can be designed to achieve specific user-defined properties to enable enhanced component and system performance, via the use of Integrated Computational Materials Engineering technologies, physics-based models, thermodynamic and kinetic properties of the elements and predictive property models and identify microstructures needed to meet key properties.

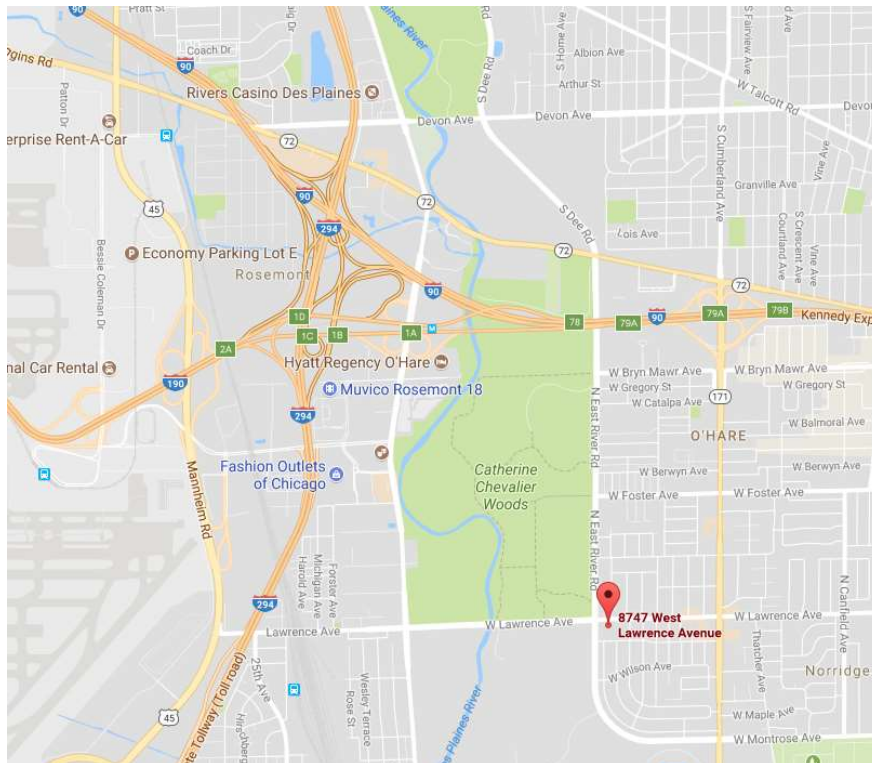
QuesTek Innovations is a small business located in Evanston, IL that has demonstrated the successful design and deployment of four ultra-high performance Ferrum steels that are being used in demanding aerospace applications, and is working on developing the next generation of materials across the major alloy classes including for example Al, Ti, Ni, Co and others to enable improvements in performance and efficiency across a wide range of industries such as aerospace, oil and gas, energy, automotive and transportation .

This talk will discuss the technical approach for designing materials using computational methods as well as examples of real-world application success stories.

PAEA Announcements

MEETING LOCATION

Our Lady Mother of the Church
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):

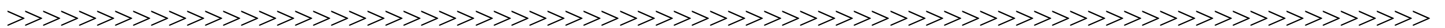
2019 Legacy Award: Dr. Jan S. Płachta, for many years of promoting the achievements of Polish and Polish American Engineers.

We also recognized those who reached **Life Membership** since our 80th Anniversary:

Mr. Adam Czyszczon
Mr. Tomasz Karasiewicz
Dr. Jan S. Płachta

Though there are too many to recognize and thank, we recognized Malgorzata Grochal and Ewa Mroczek for all their service to the PAEA as part of the Administration over the past four years (two terms).

Last but definitely not least, on behalf of all members and guests, we would like to thank all the members of the previous and current Administration of the PAEA for their hard work putting together this wonderful event!



Special Interest

If anyone has an item of Special Interest to the PAEA Membership and sympathizers, please send the details to contact@polishengineers.org for inclusion in the next (monthly except for June-August & December) published Bulletin.

Author meet & greet with Włodzimierz Syta

Saturday, November 23, 2019 @ 2:00pm @ the PMA (984 N. Milwaukee Ave., Chicago, IL 60642)

All PAEA Members and sympathizers are cordially invited to meet Włodzimierz Syta, President of the Friends & Family of the 4th Uhlan Regiment Club and author of the book 'The Uhlan 4th Regiment [Zaniemeńskich],' a history of one of the most outstanding regiments of the 2nd Republic of Poland.

It will be an afternoon of reminiscing the fate of inspiring Polish soldiers, including mjr Henryk Dobrzański "Hubal" and mjr Zygmunt Szendzielarz "Łupaszka." This event will be presented in the Polish language. Free entry to the public.

For more information please see:

https://www.polishmuseumofamerica.org/event/author-meet-greet-spotkanie-autorskie/?event_date=2019-11-23

Christmas Ornaments Workshop & Gift Shop Sale

Saturday, December 14, 2019 @ 1:30-3:30pm @ the Polish Museum of America (984 N. Milwaukee Ave., Chicago, IL 60642)

All PAEA Members and sympathizers are invited to the Polish Museum of America annual Christmas workshop on the art of ornament making on Saturday, December 14, 2019, at 1:30-3:30 pm. The lighting of the Peace Light of Bethlehem will take place around 2:45. The PMA Gift Shop will be open 11 am-4 pm, and offer special discounts all day long.

Workshop fee – \$10 per person (includes free Museum tour, day of workshop only). All ages are welcome; children must be accompanied by an adult. Please submit payment and reservation no later than December 12 to: PMA Christmas Workshop, 984 N. Milwaukee Ave., Chicago, IL 60642 Or by calling: 773-384-3352, ext. 2111. Checks should be made payable to: Polish Museum of America. PayPal & credit card payment also accepted.

Please see below for more information:

https://www.polishmuseumofamerica.org/event/christmas-ornaments-workshop-gift-shop-sale/?event_date=2019-12-14

www.polishengineers.org