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



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.

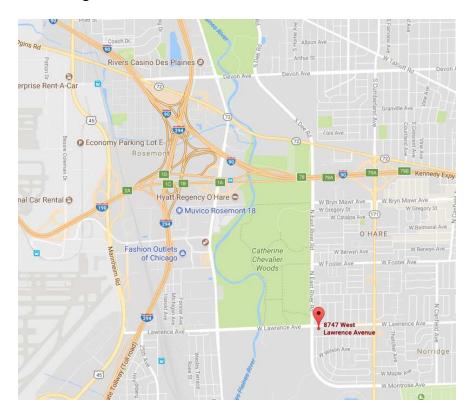
QuesTek Innovations is a small business located in Evanston, IL that has demonstrated the successful design and deployment of four ultra-high performance Ferrium steels that are being sued in demanding aerospace applications, and is working on developing the next generation of materials across the major 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):



2020 Membership Dues

There is no change in dues for 2019: \$70 per year, senior citizens and students \$35 per year.

We ask that everyone pay their dues as soon as possible, as this is our source of operating funds. Thanks to those who have already paid! 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
You may send your dues to:

Mr. Andrew Pawlowski P.O. Box 241 Northbrook, IL 60065-241

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

Again, dues are critical in supporting the work of the PAEA- thank you for your support.

Ralph Modjeski Scholarship

The winner of the 2019 Ralph Modjeski Scholarship is Sebastian Brudz. Sebastian is currently studying Electrical and Computer Engineering at Southern Illinois University,. He also has a double minor in Mathematics and Music (plays the bassoon in the Southern Illinois Carbondale Wind Ensemble); and is also currently learning Japanese and Spanish. Congratulations to Mr. Brudz!



Dear Donors of the Polish American Engineers Association Scholarship,

I am writing this letter to thank you for your generous donation to students such as myself pursuing majors in the STEM field. I am currently a student at Southern Illinois University – Carbondale and your contribution has made it much easier for me to continue my studies here. I am sure that you have made many other students' stay at their respective college a definite fact with the funds you have provided.

I have really enjoyed it here at SIUC and I am glad that I can continue to go to school here as an Electrical and Computer Engineering Major. SIUC has lifted my prior goals since it has helped me push myself harder and see farther into my potential future. This college has also assisted me in my everyday organizational and educational skills by letting me organize my time to let me pursue my own intellectual interests in my free time such as Japanese and Game Design.

I am glad to have made many connections through the RSOs I have joined here at SIUC, like the Strategic Game Society and SIU Robotics. Hopefully I can continue to work with the people I have met throughout my college career.

I hope that I can someday influence technology with the skills that I learn during my stay at Carbondale and with the skills I have currently accrued I hope to find a summer internship so that I can put my skills to good use and acquire new skills along the way.

Thank you again for your contribution to the to be engineers of the next generation. I know that your generous donation will help me pursue my engineering career wherever I choose to go.

Sincerely,

Sebastian Brudz

85th Anniversary Ball – 26 October, 2019

The PAEA Administration would like to thank all who came to celebrate with us during our 85th Anniversary Ball, 26 October, 2019, at Mirage Banquet Hall! We would especially like to thank all those participating in the Council of Polish Engineers in North America Workshop and all who travelled from afar to join our celebration. We were honored and grateful to have so many distinguished guests!

We would like to extend a big thank you to Mrs. Danuta Szymulanski for donating 5 of her very own paintings for our Silent Auction! All proceeds will go to support our Ralph Modjeski Scholarship fund.

Congratulations to all our award winners!

2019 Destiny Award: Mr. Stanisław Witczak, for many years of supporting young Poles in technical fields through donations to the Ralph Modjeski Scholarship Fund, funding a full scholarship annually.

2019 Exemplary Service Award: Mrs. Danuta Szymulanski, for many years of supporting the Polish American Engineers Association.

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 Czyszczoń 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!





Council of Polish Engineers in North America Workshop – 25-27 October, 2019

The PAEA would like to thank the Council of Polish Engineers in North America for the invitation to their Workshop, 25-27 October, 2019 at the Polish Consulate in Chicago. The workshop, entitled "Inżynier w Gospodarce i Nauce," included many interesting presentations. There were many distinguished participants from both North America and Europe.

Thanks to Dr. Andrzej Nowak, Mirek Niedzinski and the team for organizing; and the Polish Consulate in Chicago for hosting!

Member News/Update

We would like to remind everyone that we are looking for achievements of as well as other noteworthy news about our Members (that's you!). Please send us information about yourself or another Member (please ensure they agree to have this information publicized) to contact@polishengineers.org. We will publish in the next Bulletin available.

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Job Postings – Please Send

As part of our mission of mutual support, we would like to offer job openings to our Members. Please send any openings you know about to contact@polishengineers.org. Please let us know where it is OK to post (our website in Members Only, our public page; Facebook, LinkedIn pages, etc.

We would also like to post on our website (in the Members Only section) links to job listings of companies in our network. So please send those as well. We would like to list your name next to the link, so those applying through those links can have a reference person to cite. Please let us know if you would rather not be listed.

Thank you in advance to taking time now to send us this information, which supports our common mission!

Though not yet posted, there are opportunities for Mechanical Engineers experienced in automotive or other manufacturing line design, located in Normal Illinois. Please contact Andrzej Pawlowski (847.331.0929; andrew.pawlowski@polishengineers.org) if interested.

Reminder- Polish American Engineers Association on LinkedIn!

We would like to remind our Members & Supporters that the PAEA is on LinkedIn:

www.linkedin.com/groups/12032140

Check out our Group, become a member, and post interesting and relevant content. The more active we are, and the more interesting information we post, the more likely we are to attract others to our Group, in addition of course to the benefits of inter-Group communication.

Reminder- the Polish American Engineers Association on Facebook

Corrections

None highlighted.

Special Interest

If anyone has an item of Special Interest to the PAEA Membership and sympathizers, please sent 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