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, January 21st, 2022

TIME: Business Meeting begins 8:00 p.m. CST; Presentation immediately following

PLACE: virtual meeting via Google Meets:

https://meet.google.com/ipd-rfro-sif

Dial-in: (US) +1 678-561-1342 PIN: 407 669 572# Canada (CA) +1 226-213-8281 PIN: 570 286 898 5753#

SPEAKER: Dr. Piotr D. Moncarz, Ph.D., P.E., NAE

TOPIC: Abundant clean energy under our feet – GeoHeatTM closed loop harvesting



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 graduate classes for over 35 years. Dr. Moncarz specializes in the study and prevention of engineering and scientific in nature failures and disasters. He is a Priciple Engineer and Senior Fellow at Exponent Failure Analysis Associates (www.exponent.com), a leading failure analysis and prevention firm in the world- a publicly held think tank of some 400 Ph.D.'s and about thousand employees. In 2017 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), 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 the Polish Engineering Council of North America; and co-organizer and academic director at Stanford University's Top 500 Innovators Program. He is also co-creator and a Member of the Board of Electro-mobility Poland S.A.

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

ABSTRACT

High temperature geological resources are abundant, and several concepts are being investigated to use their heat to deliver geothermal energy. The talk will present some of the currently used approaches with emphasis on one promising concept, GeoHeatTM harvesting through a closed loop system. Comparison of those methods will highlight the breakthrough nature of the 24/7 GeoHeat harvesting, ready to go, solution.

The concept of GeoHeat and its recovery using a novel closed-loop system with enhanced thermal reach are described. It is argued that closed loop systems without enhancement of thermal reach do not scale, and leave much of the harvestable energy behind, owing to the poor conductive drive to the heat transfer. The thermal reach enhancement in the GeoHeat harvesting concept described uses fin-like extensions into the formation, created using a controlled hydraulic treatment. The profoundly scalable technology with massive application at a levelized cost of energy far below any other renewable energy source will be presented in the context of electricity, water desalination, industrial and urban heating and cooling. Plans for dissemination and associated economic benefits will be presented.

PAEA Announcements

MEETING LOCATION

Our November meeting will be held virtually, via Google Meets:

https://meet.google.com/ipd-rfro-sif

Or by phone:

Dial-in: (US) +1 678-561-1342 PIN: 407 669 572#
Canada (CA) +1 226-213-8281 PIN: 570 286 898 5753#

Please note that we have switched to Google Meets (recent virtual meetings were held via Zoom- thanks again to Ms. Victoria Niedzinski for setting those up!). Many thanks to Mr. Bartłomiej Bobek for setting up a Google Workspace account for the PAEA, which allows us to use Google Meets free of charge!

We suggest familiarizing yourself with Google Meets prior to the meeting. Here is a link to the Google Meets Help page with all the information & tutorials needed:

https://support.google.com/meet/?product_name=UnuFlow&hl=en&visit_id=637728058039635076-1002787507&rd=1&src=supportwidget0&hl=en#topic=7306097

2022 Membership Dues

There is no change in dues for 2022: \$70 per year, seniors and students \$35 per year.

We ask that everyone pay their dues as soon as possible, as this is our source of operating funds.

Questions? You may inquire during the meeting or send an email to: administration@polishengineers.org

You may send your dues (checks payable to the Polish American Engineers Association) to:

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

You may also pay your dues at our meetings (once we re-start face-to-face meetings), and receive your Membership Card immediately.

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

Gwiazdka / Christmas Celebration 2021

It was great to see everyone able to make it to our 2021 Gwiadzka, December 4th, 2021 at Art Gallery Kafe! Thanks to all for coming, and bringing family and friends.

We would also like to thank all involved in the planning and execution of our event, including the entire Administration (and Aleksandra Jakubowski and Bartlomiej Bobek and family for clean-up after the event). We would like to especially thank Danuta Szymulanski, for donating her beautiful artwork and administering our Silent Auction; and Rene' Pietrzyk for being MC. Finally, we would like to thank Krzysztof Kompiel (and helpers) for the pictures below; and Piotr Deoniziak for making the event extra special for the children, as St. Nicholas...









5th Annual World-Wide Conference of Polish Engineers – 23-25 June, 2022

All PAEA Members and Sympathizers are invited to join the 5th Annual World-Wide Conference of Polish Engineers (ŚZIP), taking place 23-25 June, 2022, in Gliwica, Poland. For more information (in Polish, as will be the conference), please see:

https://szip.org.pl/program/

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.

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!

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

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

https://www.facebook.com/Polish-American-Engineers-Association-PAEA-1153830014674800/

Please check it out, and help us keep it active by 'like'-ing and posting interesting material.

Next Meeting Date

18 February, 2022 (currently planning in-person)

Note: we will be monitoring the COVID situation, and may need to revert back to virtual meetings should the situation deteriorate.

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.

Note that information provided is for Member & Sympathizer interest, and does not represent the views of the Polish American Engineers Association. Events listed are not in any way sponsored by the PAEA.

Polish American Congress of Illinois Events Calendar

For a comprehensive and up-to-date listing of events in Polonia, please see the PAC-IL Polonia Calendar (many thanks to Mirek Niedzinski, Roman Korczak and the PAC-IL team for leading!):

https://www.pacillinois.org/calendar/

The Kosciuszko Foundation – Perspectives of Poland

Thursday, January 20, 2022 @ 12pm EST – webinar discussion

All PAEA Members and Sympathizers are invited to participate in a webinar discussion with Jaroslaw Garlinski, Bozena Nowicka McLees, and Paulina Duda, Ph.D.; moderated by Marian A. Kornilowicz, Esq.; and hosted by The Kosciuszko Foundation.

This seminar discusses issues that Poles, whether living in Poland or elsewhere, face on occasion The panel will share their thoughts on what does it mean to be Polish or have a Polish identity? In short, what makes us Polish? Is it language, is it shared values, is it ancestry?

Does this sense of identity change over time? What factors affect this sense of identity?

Do Poles who were born and live in Poland see themselves and the world differently than Poles who were born in Poland but no longer live in Poland or Poles who were born and live outside Poland?

How would members of each group answer the following:

- Are Poles disappointed that Poland does not play a greater role in the world? Is their disappointment justified? Do Poles in fact have a realistic view of Poland's place in the world?
- How are Poland and the Poles viewed by others? How does the non-Polish world engage with Poland? Are there differences in how Poles and Poland are viewed by others depending on location? For example, what are the differences in British and American attitudes toward Poles?
- Do Poland and the Poles suffer from a 'bad press' internationally?
- Do Poles ever experience any kind of discrimination?

How does all this play into the teaching of the Polish language, literature, and culture? Are there comparatively fewer centers of Polish studies than centers of Spanish, French, or German studies based on the number of speakers? How can interest in teaching things Polish be increased? An influencer? The Witcher?

For more information, and to register, please see:

https://www.thekf.org/kf/events/KF Online Programs/perspectives-of-poland-a-webinar/

www.polishengineers.org