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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, February 19<sup>th</sup>, 2021
- TIME:** Business Meeting begins 8:00 p.m.; Presentation immediately following
- PLACE:** virtual meeting via Zoom: <https://auburn.zoom.us/j/89740457576>  
Or Telephone: Meeting ID: 897 4045 7576  
Dial: +1 312 626 6799 (US Toll) or +1 646 876 9923 (US Toll)
- SPEAKER:** Mr. Michael Niedzinski
- TOPIC:** Metallic Solutions for Aerospace and Space Applications
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## Mr. Michael Niedzinski

In his role as Director of Standardization and Product Development Mgr. Defense Michael is responsible for the introduction of aerospace and defense related products and technologies, developed by Constellium Group to industry and government agencies such as MMPDS, SAE, AA and Air Force. These range from the latest aluminum structural components, the latest generation of aluminum alloys and manufacturing technologies, which optimize and facilitate assembly techniques. Ultimately, these products become visible to Boeing, Lockheed Martin, Bombardier etc. Michael is involved with Space programs such as the Space Shuttle, Space Launch System, SpaceX, Blue Origin, ULA, Ariane 6 and Orion since 1994. Michael developed and commercialized AIRWARE alloys 2195, 2098, 2050 and 2297 for Space launch and defense initiatives over the past twenty years.

Prior to his current assignment, Michael Niedzinski held the position of Vice president of Technology and Quality Assurance at McCook Metals, a manufacturer of plate and sheet products for the Aerospace and Defense industries. Prior to his engagement at McCook Metals, Michael held the position of Director of Metallurgy for Reynolds Metals. As such, he was responsible for the program management of Aluminum-Lithium (Airware) manufacturing technology needed to produce the Super Light Weight External Tank needed for the Space Shuttle missions, which delivered components of the International Space Station to its high altitude orbit. In 1996 he received the prestigious Sustained Effort Award from NASA's Colonel Mark Lee. Concurrently, he managed product and technology development related to the F-16, C-17, and F-22 and F-35 military aircraft. In 2017 he received an award from the US Army for his role in the development of an IED blast-resistant armor solution for the undercarriage of armored personnel carriers.

Michael received his BS and MS (thesis “Thermodynamics of argon-oxygen Decarburization of Stainless Steels”) from the University of Illinois. Later he obtained an MBA from the Illinois Institute of Technology.

He holds three patents related to the development of Aluminum-Lithium alloys used for the new generation of F-16 Interceptor and Armor plate for Armored Personnel Carriers. In 1999, as a member of a three-person team, he received the R&D 100 Award for the development and industrialization of Alloy 2098, considered one of the 100 most technologically-significant products introduced during the previous year.

He has about ten publications in Transactions of Metallurgical Society, Advanced Materials and Processes, Aerospace Engineering and Light Metals Age. Papers range in scope from grain refining and filtration of molten aluminum, to the development of products successfully used for aerospace and armor applications.

He is a member of ASM since about 1973, and was appointed a Technical Fellow of that organization. Mr. Niedzinski chaired AEROMAT 2015 and chaired AEROMAT’s Light Metals sessions for the past fourteen years. He also presented during multiple AEROMAT sessions. Beyond AEROMAT, he presented space-themed papers at NASA and ESA sponsored conferences. He was a guest speaker at the Illinois Institute of Technology in 2007, and the University of Utah in 2012. In 1996, he received NASA’s “Sustained Effort” award for his work on the Space Shuttle; while in 2017, the Department of Defense honored him with a distinguished award for his work on Metallic Armor solutions which provide extra security for soldiers riding into battle in Armored Personnel Carriers.

He is a past Chair of the ISG section of MMPDS (two separate tenures 2005-2006 and 2013-2014) which is an FAA and Air Force sponsored Industrial Think Tank, In 2019, he was elected Chair of ASTM B-07 Light Metals section of ASTM. During the 2008-2016 time frame he chaired an ASTM-sponsored study of environmentally-induced cracking of marine 5XXX alloys, which provided information that became a very significant component of the ASTM B928 specification, which is a primary resource for designers of aluminum ships and naval vessels. He was instrumental in the inclusion of a highly-weldable marine alloy 5383-H116 in the Rules of the American Bureau of Shipping. He introduced and successfully championed AMS specifications covering alloys such as 2195, 2050, 2098, 2056, 2139, 2297 and 7056. All of these alloys were analyzed and validated statistically and included in MMPDS which is the primary reference guide for designers of aerospace components.

In 2017 Michael was elected to a position of the President of the Polish American Congress, Illinois Division; an umbrella entity which coordinates the activity of forty-plus member organizations, each with hundreds of members. He was reelected in 2019 for a second two-year term. Prior to that, he was, for a number of years, President of the Polish American Engineers Association, a professional Engineering and Architectural group promoting Polish professionals.





## **Special Interest**

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

### **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/>

### **PACIL: 2021 Pulaski Day Observance**

February 28<sup>th</sup>, 2021 at 1pm; Our Lady Mother of the Church (8747 W. Lawrence Ave, Chicago, IL 60656)

PAEA Members and Sympathizers are cordially invited by the Polish American Foundation, IL Division and the Polish American Congress, IL Division to their Pulaski Day Observance Mass. The Mass will be Sunday, February 28<sup>th</sup>, 2021, at 1:00pm, at Our Lady Mother of the Church (8747 W. Lawrence Ave, Chicago, IL 60656).

Due to COVID-19 restrictions, registration is required. And wearing of masks, as well as social distancing is mandatory.

The Mass will be in Polish and English.

To register, please see the Our Lady Mother of the Church website:

<https://www.ourladymotherchurch.com>

More information is also available on the PACIL website and Facebook:

<https://pacillinois.org/2021-pulaski-day-observance/>

<https://www.facebook.com/polishamericancongressil/>

### **COVID-19 Vaccination Information (thanks to the PACIL)**

The Polish American Congress, IL Division published the following information on January 26<sup>th</sup>, also to the PAEA (as a member of the PACIL). We are grateful to the PACIL for this information, especially as we try to move past this pandemic.

Links to information related to Covid 19 vaccinations and registration.

PLEASE NOTE; THE SITUATION IS DYNAMIC, AND INFORMATION CAN CHANGE DAILY.  
PLEASE CHECK THE WEBSITES SHOWN BELOW FREQUENTLY.

COOK COUNTY, IL. RESIDENTS (Except for Chicago, Evanston, and Skokie):

<https://vaccine.cookcountyil.gov/>

CHICAGO RESIDENTS IN 1B CATEGORY (65 or Older, or Frontline Workers):

[https://www.chicago.gov/city/en/sites/covid19-vaccine/home/ways-to-register.html?fbclid=IwAR23xX6LiVIZwaqjdoob8yqxzfzJAfRuvbFflGVYQBUTlc\\_PGGVAPScF\\_BTg](https://www.chicago.gov/city/en/sites/covid19-vaccine/home/ways-to-register.html?fbclid=IwAR23xX6LiVIZwaqjdoob8yqxzfzJAfRuvbFflGVYQBUTlc_PGGVAPScF_BTg)

LAKE COUNTY, IL RESIDENTS

[https://allvax.lakecohealth.org/s/?language=en\\_US](https://allvax.lakecohealth.org/s/?language=en_US)

KANE COUNTY AND DUPAGE COUNTY - As of today, do not provide registration website or information.

## **Polish American Medical Society - “We Vaccinate” Live Broadcast Documentary**

We are grateful that the Polish American Medical Society shared with the PAEA the following information on a program about COVID-19 vaccination:

Dear Members and Friends

We are proud to share with you a link to the Expert Panel Discussion about SARS-CoV-2 vaccination that took place Sunday, January 24, 2021. Many of us who watched the extraordinary event had a feeling of time well spent in gaining knowledge and perspective on this very controversial topic. The Polish American Medical Society has been a proud supporter of the meeting and we are happy to be a part of such a wonderful experience.

<http://www.zlpchicago.org/2021/01/27/we-vaccinate-live-broadcast-documentary/>

## **New Book (in Polish) about Tadeusz Kosciuszko on the 275<sup>th</sup> Anniversary of His Birth**

Our sister organization in Canada, the Association of Polish Engineers in Canada, has informed us about a new book about Tadeusz Kosciuszko, published this year- the 275<sup>th</sup> Anniversary of his birth. The book (in Polish), by Andrzej Wawryniuk entitled, “Droga do chwały. Młodość i krąg rodzinny Tadeusza Kościuszki,” is hailed both for the completeness of its coverage of Kosciuszko’s life before leaving for the United States, as well as the huge number of original documents which the author was able to find and include.

The book can be browsed, and even downloaded (with permission of the Author) from, the SIP Canada website:

<http://www.polisheng.ca/k/tadeusz-kosciuszko/>

We are grateful to our fellow Polish Engineers in Canada for this information, and access to such an interesting and timely book.

## **Presentation (in Polish) on Climate Change - “Procesy Wewnątrz Ziemi a Klimat”**

Thursday, February 25, 2021 at 12:00pm CST via Zoom

Thanks to the Council of Polish Engineers in North America, PAEA Members and Sympathizers are invited to participate in a presentation and discussion (in Polish) by Prof. Piotr Tucholke, long-time Professor of

Geophysics and currently Professor Emeritus at Paris-Saclay University, entitled “Procesy Wewnątrz Ziemi a Klimat.” The presentation will take place Thursday, February 25, 2021 at 12:00pm CST via Zoom.

Below is the original invitation, from Janusz Ptak, General Secretary of the Association of Polish Engineers and Technologists in France (EFPSNT), with the details. Please note, Mr. Ptak requests RSVP via email (see below).

Moi Drodzy,

Pozwalam sobie przeslac na Wasze rece zaproszenie na video-konferencje Stowarzyszenia Inzynierów i Techników Polskich we Francji i zwracam sie z uprzejma prosba o przekazanie tej informacji Waszym Kolezankom i Kolegom z Rady Inzynierow AP, Polonii Technica a takze ze Stowarzyszenia Inzynierow Polskich w Kanadzie.

Konferencja bedzie wygloszona przez prof. Piotra Tucholke i zatytułowana: Procesy wewnątrz Ziemi a klimat, we czwartek 25 lutego 2021 roku, o godzinie 19:00 czasu srodkowo-europejskiego.

Prof. Piotr Tuchołka to dlugoletni Profesor Geofizyki, obecnie Profesor Emeritus, na Uniwersytecie Paris-Saclay, prowadził miedzy innymi badania zapisu zmian klimatu i środowiska w osadach morskich i jeziornych, metody geofizyczne w geotechnice, hydrogeologii, poszukiwaniach archeologicznych. Jego prace badawcze miały miejsce w wielu krajach Europy, Azji, Afryki, na Morzu Śródziemnym, Oceanie Indyjskim, Morzu Kaspijskim, Morzu Czarnym.

A temat zmian klimatycznych jest tematem dosc kontrowersyjnym i szeroko dyskutowanym. Bedzie zatem okazja do dyskusji. Wyrazam wiec nadzieje, ze zainteresuje on wielu sposrod inzynierow i naukowcow polskich i polonijnych z drugiej strony Atlantyku.

Konferencja odbędzie sie na aplikacji ZOOM. Aby wziąć udział w video-konferencji, prosimy o użycie linku : <https://us02web.zoom.us/j/84609424698?pwd=RmF6VWlramt5UTAvdFFtNGVnNVRKUT09>

Pragne podkreslic, ze z mysla o szerokiej rzeszy publiki polsko-jezycznej, referat bedzie wygloszony w jezyku polskim.

Celem zorientowania sie co do liczby uczestnikow, bylibysmy wdzieczni za potwierdzenie udzialu emailem na adres : [sitpf95@gmail.com](mailto:sitpf95@gmail.com)

Lacze serdeczne pozdrowienia,  
Janusz Ptak  
Sekretarz Generalny EFPSNT



STOWARZYSZENIE INŻYNIERÓW I TECHNIKÓW POLSKICH WE FRANCJI

oraz

TOWARZYSTWO HISTORYCZNO-LITERACKIE POLSKIE – BIBLIOTEKA POLSKA W PARYŻU



mają zaszczyt zaprosić na

# WIDEO-KONFERENCJE

## Procesy wewnątrz Ziemi a klimat



**Prof. Piotr TUCHOŁKA**

25 luty 2021 r.

19h - 20h30

Zmiany klimatu i perspektywy jego ewolucji są przedmiotem gorących dyskusji i sporów cywilizacyjnych i ideologicznych. Problem ten jest jednak dużo bardziej skomplikowany, niż często stosowane uproszczenia. Dlatego warto zobaczyć jak klimat ewoluował w przeszłości geologicznej, w skali czasowej kilkuset milionów lat.

Okazuje się, że dominująca była sytuacja, kiedy średnie temperatury były znacząco wyższe, niż te, które trwają w ciągu ostatnich kilku milionów lat, to jest w czasie okresu zlodowacenia. Takie okresy zimne charakteryzujące się istnieniem pokryw lodowych w strefach podbiegunowych powtarzają się w historii Ziemi kilkakrotnie acz nieregularnie.

Przyczyn takich zmian szukać należy w długoterminowych procesach związanych z ewolucją konfiguracji kontynentów na powierzchni Ziemi i w konsekwencji ze zmianami intensywności wietrzenia skał krzemianowych. Tak więc wędrówka kontynentów, bezpośredni efekt działania potężnych sił wewnątrz Ziemi wpływa niewątpliwie na klimat w okresach czasu rzędu milionów lat. Jednocześnie wewnętrzne procesy a m.in. wybuchy wulkanów wywołują też zmiany klimatyczne, często bardzo gwałtowne, w przedziałach czasowych od dni do miesięcy i kilku do kilkuset lat.

W chwili obecnej skupiamy się, niewątpliwie słusznie, na wpływie działalności człowieka na klimat ale chyba warto zdać sobie sprawę, że siły natury też w ewolucji klimatu mają coś do powiedzenia

**Piotr Tucholka** - geofizyk, absolwent Uniwersytetu Warszawskiego (1970), doctor nauk fizycznych w Instytucie Geofizyki PAN w Warszawie (1977), adiunkt w tym Instytucie do roku 1979. Pracował na Uniwersytecie w Edynburgu, w Laboratoire de Géologie Quaternaire CNRS w Marsylii i w CFR CNRS/CEA w Gif sur Yvette. Profesor Geofizyki w Uniwersytecie Paris XI Paris-Saclay 1985-2017, Profesor Emeritus Uniwersytetu Paris Saclay. Główne kierunki badań to paleomagnetizm i stratygrafia magnetyczna, zmiany wiekowe kierunku i natężenia, inwersje pola magnetycznego Ziemi, zapis zmian klimatu i środowiska w osadach morskich i jeziornych, metody geofizyczne w geotechnice, hydrogeologii, poszukiwaniach archeologicznych. Prace badawcze w wielu krajach Europy, Azji, Afryki, na Morzu Śródziemnym, Oceanie Indyjskim, Morzu Kaspijskim, Morzu Czarnym

## **Kosciuszko Foundation Accepting Applications for Scholarship**

Applications accepted through January 28, 2021

The Kosciuszko Foundation has made us aware that they are now accepting applications for the Drs. James and Wanda Trefil Science Scholarship from citizens and permanent residents (green card holders) of the United States who are of Polish descent. Eligible candidates include current college freshmen, sophomores and juniors who are majoring in the Natural Sciences (physics, chemistry, biology, astronomy, earth science, etc.) and who have a minimum GPA of 3.5. Applications and supporting materials will be accepted through Thursday, January 28, 2021.

One \$5,000 scholarship will be awarded for full-time studies in the United States for the Fall 2021/Spring 2022 academic year. For more information and to apply, please see:

<https://www.thekf.org/kf/scholarships/tuition/science/>

## **Polish Museum of America Pulaski Day Celebration**

Monday, March 1<sup>st</sup>, 2021 at 10:00am; virtually

The Polish Museum of America cordially invites all PAEA Members and Sympathizers to participate (virtually) in this year's official Illinois Pulaski Day celebration, Monday, March 1<sup>st</sup>, beginning at 10:00am.

The event will be live streamed via the PMA website. For more information:

[https://www.polishmuseumofamerica.org/event/virtual-pulaski-day/?event\\_date=2021-03-01](https://www.polishmuseumofamerica.org/event/virtual-pulaski-day/?event_date=2021-03-01)

## **Chopin Theater GoFundMe**

As sent in a separate email, the PAEA received a GoFundMe appeal from our friends at the Chopin Theater. We have been guests at the Chopin Theater for several excellent plays; and have been invited for many more, which we were not able to make as a group. Lela and Zygmunt have always made us feel at home, and have supported us as they could.

It would be a true shame and loss to Polonia (and all of Chicago) if they had to close their doors permanently due to this terrible pandemic. Please consider supporting as you can; and let your family and friends who might be interested/able to support them know.

For more information, and to make a donation, please see:

<https://charity.gofundme.com/o/en/campaign/chopin-theatre-humble-request-for-30th-anniversary>

## **Copernicus Foundation Request for Support**

The Copernicus Foundation is requesting Polonia support for their bid to purchase a property adjacent to theirs, from the City of Chicago. Below is the content of an email we recently received, with more details about what each of us can do to help (by signing their petition).

Please consider supporting them (in the spirit of mutual support, as is part of our mission); as they support many Polonia organizations; and hosted our meetings for many years.

Dear Polish Engineers,

As you might know, the Copernicus Foundation is trying to buy the abandoned firehouse at 4841 N. Lipps from the City of Chicago in a negotiated sale. The Foundation would renovate the property keeping its historic façade and having it be part of our campus. The Copernicus Foundation is willing to pay \$300,000 for the property which the city appraised at \$208,000.

Sadly, the city appears to be accepting an offer from an outside developer, 4841 N. Lipps LLC (Ambrosia Homes) who will only be paying \$1 for the property. There are a number of steps that have to be taken before that sale is final, so we are asking for your support in trying to stop the sale.

Please sign our petition at [www.FightForTheFirehouse.com](http://www.FightForTheFirehouse.com) and express your support of the Copernicus Foundation. The site will also allow you to send an e-mail directly to your Alderman asking him not to vote for the negotiated sale of the firehouse to 4841 N. Lipps LLC.

**Please pass this information along to any of your friends and colleagues and share it on your social media!** This will show Mayor Lightfoot and the Aldermen that our community supports the Copernicus Foundation in its endeavor to develop this property in the best interests of the many communities we serve.

Thank you,

Alina Bosak  
Event Coordinator  
Copernicus Foundation  
773-313-3893



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