### 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, September 16th 2016
TIME:	doors open 7:30 p.m.; Business Meeting begins 8:00 p.m.
PLACE:	Copernicus Center Kings Hall 5216 W. Lawrence Avenue Chicago, Illinois
SPEAKERS:	Anastasia Kotsakis, P.E. Jason Schneider, S.E., P.E.
TOPIC:	Wells Street Bridge Renovation Challenge



# Anastasia Kotsakis, P.E.

Ms. Kotsakis is a Structural Engineer with almost 4 years of experience in the inspection, analysis, and design of bridges, earth retention structures, and temporary structures for construction purposes. She has worked on projects around the country and internationally for both contractors and governmental agencies. Anastasia has a Bachelor of Science in Engineering from the University of Illinois at Urbana-Champaign and a Master's of Science in Structural Engineering from Imperial College London in addition to being a licensed Professional Engineer.



# Jason Schneider, S.E., P.E.

Mr. Schneider is a Structural Engineer with over 12 years of experience in the inspection, analysis, and design of bridges, buildings, earth retention structures, and temporary structures for construction purposes. His work has led him to provide structural engineering services to both government agencies and contractors to assist in the successful completion numerous heavy highway projects throughout the country. Jason has a Bachelor and Master of Science in Engineering from the University of Illinois at Urbana-Champaign, and is a licensed Professional Engineer and Structural Engineer.

#### ABSTRACT

Built in 1922, the Wells Street Bridge is a two level, double leaf bascule spanning the Main Branch of the Chicago River in downtown Chicago. The bridge required extensive rehabilitation to address load restrictions and provide for additional service life. The lower level of the bridge carries approximately 15,000 vehicles a day and many tens of thousands of pedestrians, and the upper level carries two Chicago Transit Authority (CTA) train lines serving over 70,000 commuters a day. The scope of work included repairs to the movable leaf trusses and, due to the extent of deterioration, complete replacement of four bays of the each movable truss leaf, along with new floor beams, stringers, and deck on both levels.

To minimize impacts to CTA service, CDOT provided two nine day shutdowns for the removal of the truss arms and their replacement. The challenge to the contractor and its engineers was to develop a methodology to quickly replace the truss arms, while keeping one leaf operational at all times. Mr. Schneider and Ms. Kotsakis will discuss the construction engineering associated with the planning and coordination for the truss arm replacements, other rehabilitation work, modelling of the trusses, balancing and commissioning of the bridge for service.

## **PAEA Announcements**

#### **2016 MEMBERSHIP DUES**

Please note that the dues schedule for 2016 has not changed. **Dues are \$50 per year, senior citizens and students \$25 per year.** We strongly encourage you to pay your 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: <u>administration@polishengineers.org</u> You may send your dues directly to our Treasurer:

Mrs. Diana Kukawski 940 Beau Dr., Apt 209 Des Plaines IL 60016

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!

# PAEA Summer Picnic – July 23<sup>rd</sup> 2016

A sincere Thank You(!) to all who came out to the Polish American Engineers Association Summer Picnic!! The Picnic was very well attended, and the feedback was very positive.

We are very grateful for our dedicated volunteers; and our members, and friends who came out to enjoy the day with us. We would like to extend a special thanks to Krzysztof Kompiel and his wife for baking the home-made cakes we all enjoyed- delicious!

We would also like to thank Montrose Deli for providing much of the food at a significant discount, as a donation in kind.

We were fortunate to enjoy the facilities, food and friendship for much of the day. Unfortunately, rain ended the festivities for many a little short. We will make our weather request earlier for next year!

Below are two pictures from our Picnic- if anyone took pictures, please send them (<u>administration@polishengineers.org</u>), so we can put them on our web page:



### Ralph Modjeski Scholarship Donation- Thank You Stanisław Witczak!

The PAEA would like to extend a big THANK YOU(!) to long-time member and supporter Pan Stanisław Witczak, for his generous \$800 donation and company match towards our Ralph Modjeski Scholarship Fund! This donation covers an entire scholarship for one of our deserving students. And our Scholarships are a fundamental part of our Mission: mutual support, and support of our young engineers.

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#### 2016 Ralph Modjeski Scholarship Winners

The PAEA Administration and Board would like to congratulate our exemplary 2016 winners of the Ralph Modjeski Scholarship:

Oliver Dobon- Civil & Environmental Engineering at the University of Illinois, Urbana-Champaign

Nicolas Houghton- Mechanical Engineering at Michigan State

Tomasz Kaszuba- Bioengineering at the University of Illinois, Urbana-Champaign

David Sadowski- Mechanical Engineering at the Rochester Insituteof Technology

Awards will be given at our October meeting (10/21/16).

Visit to Fermilab, Batavia, IL – October 22<sup>nd</sup>, 2016

After a false start (apologies again), we have scheduled October 22<sup>nd</sup> for our visit to Fermilab. Many thanks to Dr. Para for making the gracious offer, and working to arrange our visit.

The official visit will begin at 13h00 at Fermilab (general address: Outer Ring Rd, Warrenville, IL 60555) with a general presentation of the lab and the science being pursued (in Wilson Hall, Room 1 West), followed by a Q&A session. There will be two series of lab visits, with 3-4 labs to choose from. All are welcome, children included; however, one needs to be 18 years or older for the underground tour.

The Fermilab grounds can also be visited (separately as desired)- there are several nature walks, a prairie restoration area, a buffalo herd, several ponds with wildlife. The whole site and buildings are also interesting from an architectural point of view.

Please **RSVP by October 7<sup>th</sup>; and indicate if you would like to take the underground to**ur (other tours can be chosen on site; however, a count is needed in advance for the underground tour): **Andrzej Pawlowski (apawlowski@polishengineers.org ; 847.331.0929)**.

Thank you in advance. And we look forward to seeing everyone at this very special opportunity...

#### The Polish American Engineers Association is on Facebook!

The PAEA has extended its presence into the social media space, with a new Facebook Page:

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

(or search for "Polish American Engineers Association PAEA").

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

Thanks for Ewa Mroczek for creating and supporting our social media presence! This will help the PAEA reach out to potential new members and supporters; as well as the Community as a whole.

### Rudolf Modrzejewski (Ralph Modjeski) Plaque Dedication – December 1<sup>st</sup>

The Council of Polish Engineers in North America invites all PAEA members and sympathizers to the unveiling of a Ralph Modjeski's plaque at the firm started by Ralph Modjeski:

Modjeski and Masters, Inc. 1055 St. Charles Avenue, Suite 400 New Orleans, LA 70130

The program will begin December 1<sup>st</sup>, 2016 at 3pm CST. There will be introductions and interesting presentations, with the unveiling at 5pm. There will be a dinner that evening; as well as a tour of New Orleans as well as the Huey P. Long Bridge and sightseeing the next day (December 2<sup>nd</sup>); ending with dinner and a visit to a local Jazz club.

For more information please contact: Dr. Andrzej S. Nowak (<u>nowak@auburn.edu</u>) or Dr. Zolan Prucz (<u>zprucz@modjeski.com</u>).

### **Special Interest**

#### Art for Heart @ The Polish Museum of America - October 1, 2016

Saturday, October 1, 2016 @ 7:00pm - 11:00pm, Polish Museum of America, 984 N. Milwaukee Ave., Chicago, IL 60642

The Polish Museum of America and Gift from the Heart Foundation (Dar Serca) are celebrating the 6th year of Art for Heart- a collaboration raising awareness of two important missions. This celebration of art, culture and community kicks off on October 1st with an opening reception, and continues with a Singles Night on Friday, October 7th. Nearly two dozen artists of Polish descent from Chicago and overseas applied to be juried by local art experts, Kim Laurel and Fletcher Hayes, for the 15 coveted spots in the exhibit.

Tickets are \$20 and can be purchased at the door. All original artwork as well as prints will also be available for purchase. 100% of the proceeds jointly benefit Gift from the Heart Foundation (Dar Serca) and The Polish Museum of America.

For details please see: <u>www.polishmuseumofamerica.org</u> or <u>www.artforheartchicago.org</u>

### Spirit of Jan Karski Award to be given out November 1

The Jan Karski Educational Foundation will be giving out The Spirit of Jan Karski Award November 1, 2016, at the New School for Social Research.

New York Times Op-Ed columnist Nicholas Kristof will receive the award, following several other notable recipients, including Ambassador Samantha Power, Senator John McCain and Consul General Ewa Junczyk-Ziomecka.

For more information please see the Foundation web page:

http://www.jankarski.net/en/news-and-events/upcoming-events/jan-karski-spirit-award-to-be-given-out-november-1.html

The Foundation is looking for Sponsors for this award. If interested please contact the Foundation directly.

### KAMPANIA "RATUJEMY MUZEUM TECHNIKI"

Szanowni Państwo,

W imieniu Stowarzyszenia Wspierania Techniki Polskiej i Muzeum Techniki i Przemysłu dziękuję wszystkim za poparcie kampanii i wypełnienie deklaracji.

Do dnia dzisiejszego, do momentu, w którym zacząłem pisać do Państwa tą wiadomość, wypełnionych było 2613 deklaracji.

Wszyscy zdajemy sobie sprawę, sytuacja Muzeum jest cały czas bardzo zła. Nasze pierwsze działanie miało na celu zebranie wystarczającej liczby osób, które zadeklarują wsparcie Muzeum i które włączymy bezpośrednio do działań

mającyh na celu utrzymanie tej jednostki muzealnej w Polsce.

Nadszedł moment, w którym potrzeba, abyśmy nie tylko własnym podpisem na deklaracji, ale także własnym działaniem pokazali, że rzeczywiście wierzymy, że warto stanąć w obronie tego Muzeum. Każdy z Was zna osobiście od kilku do kilkudziesięciu (a nawet kilkuset) osób. Przekażcie tym osobom informację o naszej kampanii, przesyłając im odnośnik do wypełnienia deklaracji:

# https://enot.pl/wniosek/item/15-1

Jeśli wszyscy się zaangażujemy, z pewnością do końca przyszłego tygodnia będzie nas co najmniej 25000. Wystarczy, że każdy z nas poinformuje o inicjatywie tylko 10 osób.

<u>LINK DO DEKLARACJI</u> <u>https://enot.pl/wniosek/item/15-1</u> LINK DO KAMPANII <u>http://swtp.pl/nasze-inicjatywy/ratujemy-muzeum-techniki</u>

Potrzebujemy Waszego wsparcia. Z pewnością część z Was posiada profile w mediach społecznościowych (facebook, twitter, g+...). Proszę Was, abyście :

#### pobrali materiały informacyjne o Muzeum (adres: <u>http://swtp.pl/dla-mediow</u>)

zamieścili w Internecie informację o sytuacji Muzeum z prośbą o <u>wypełnienie deklaracji</u> (własne profile facebook, twitter, g+, MS live, goldenline, nk i inne, serwisy internetowe, fora dyskusyjne...) rozesłali stosowną informację do swoich znajomych, bliskich, przyjacół, kolegów, żeby włączyli się do wspólnego ratowania muzeum (wzory tekstów dostępne pod adresem : <u>http://swtp.pl/dla-mediow</u>)

Stowarzyszenie jest obecnie zaangażowane w przygotowanie krótkich filmów poświęconych eksponatom znajdującym się w Muzeum Techniki i Przemysłu i ich historii. Jak już będzie nas 25.000 podejmiemy kolejne działania, a mianowicie:

SWTP przygotuje wzór pisma do wysłania do przedstawicieli władz, w którym napiszemy, że Polacy chcą, aby w Polsce nadal istniało Muzeum Techniki i Przemysłu i miało rangę Muzeum Państwowego wyślemy wszyscy razem w jednym momencie pismo do przedstawicieli władz, tak, aby nasz głos został z powodzeniem dostrzeżony

spotkamy się wszyscy razem w Muzeum Techniki na konferencji prasowej poświęconej sytuacji Muzeum Techniki (o ostatecznym podjęciu decyzji, terminie, zostaną wszyscy poninformowani w formie elektronicznej)

Pamiętajcie, że los Muzeum zależy od tego, czy jesteśmy w stanie wspólnie o to muzeum walczyć i o tą walkę was proszę.



Wierzę, że razem osiągniemy sukces,

Kamil Wójcik Prezes Stowarzyszenia Wspierania Techniki Polskiej

### New Children's Book Promoting Science and Technology

There is a new book for children promoting the basics of science and technology. The book is authored by Prof. Ryszard Tadeusiewicz, a former rector/president of AGH - University of Science and Technology in Kraków.

The book is a captivating, lighthearted story narrated by a young girl who tries to explain scientific and engineering principles to her pet dog. The author wrote this book as a gift for his own grandchildren. Two links to the Polish language original of the book (Part 1 and Part 2) are listed at the end of this e-mail.

The book is now in need of a good translation into English, and of finding a potential publisher in the U.S. or in another English-speaking country If there is anyone interested in undertaking the translation effort and/or in helping to find a suitable U.S.- or Canadian-based publisher willing to invest in this project, please contact Prof. Tadeusiewicz directly by e-mail at <u>rtad@agh.edu.pl</u>

www.polishengineers.org