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, April 15th 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

SPEAKER: Wojciech Kalata, PhD

TOPIC: Enhancement of Spray Process Integration via Numerical Simulations



Wojciech Kalata, PhD

Wojciech Kalata is a research engineer with nine years' experience in Spray Analysis and Research Services at Spraying Systems Co., a spray technology manufacturing and engineering center located in Wheaton, Illinois. As a Research Engineer he is responsible for analysis, design and consulting of the spray related processes using computational simulation tools.

Wojciech holds a Ph.D. of Science in Mechanical Engineering from the University of Illinois at Chicago (2012). Dr. Kalata is a member of the PAEA, ILASS and ASME.

ABSTRACT

Spraying Systems Co. is a world leader in spray technology, with multiple manufacturing and sales engineering offices around the world. In order to stay competitive in today's various technologically-advancing industries, Spraying Systems Co. employs state of art engineering solutions which among others include Computational Fluid Dynamics (CFD), Structural Finite Element Analysis and Fluid-Structure Interaction (FSI). Integration of a suite of numerical simulations tools into product and process development, provide an edge to quicker and more efficient ways to design and enhance our products and services.

CFD tools are used in analysis of spray interaction with dynamic gas phase. The CFD analysis helps to design, enhance and improve crucial processes which enable spray products deployment into wide variety of industries. Spray process simulations include wide a spectrum of problems, such as gas washing, gas quenching and scrubbing, spray drying, NOx and SOx reduction, coal and sulfur combustion, dust and fire suppression. CFD is also used to improve internal flow designs for spray nozzles and accessories. These simulations can range from simple single fluid simulations to complicated systems of two-fluid atomizers with compressible and mass-transfer flows. Thermal and structural stresses, vibrations and FSI analyses are used in spray injector failure assessment and structural design improvements.

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.

Celebrate Poland - April 10th, 2016

The PAEA will be participating in Celebrate Poland; hosted by the Polish American Chamber of Commerce & Navy Pier; which will take place in the Crystal Gardens on Navy Pier (600 E Grand Ave, Chicago, IL 60611), April 10th, from 12:00pm to 4:00pm.

Celebrate Poland, part of Navy Pier's Neighborhoods of the World series, is a rich and lively showcase of Polish music, dance, costumes, authentic cuisine, history, and arts and crafts - an excellent and unique opportunity to learn about and experience Polish culture at one of Chicago's tourist hot spots. For the PAEA, it represents a great opportunity to reach out to the Community, and let them know who we are, and what we do.

Please come out to help staff our table (#34), as well as enjoy the event.



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Mailing Address / Contact Information Update
Malgorzata Grochal asks that Members who have moved, changed addresses, or changed other contact information (e.g., phone, email) in the last year please provide your updated information. This can be done via email (mgrochal@polishengineers.org), or in person at the meeting.
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PAEA Web Page – Job Posting Reminder
Just a reminder to please send us any Job Postings you would like to make Members aware of, to: contact@polishengineers.org . We will put these on our Web Page.
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2016 Ralph Modjeski Scholarship
The PAEA is accepting applications for our 2016 Ralph Modjeski Scholarship, which will be maintained at \$750. We are asking all members and sympathizers to publicize the scholarship. Applications will be accepted through May 30 (postmarked), with winners announced at the September meeting. For more information, including the Application form, please see our website:
http://www.polishengineers.org/scholarships.php
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May 3 Constitution Day Parade – May 7 th 2016
Members should have received an email with a link to a poll about participation in this years' May 3 Constitution Day Parade (actually on May 7 th). Please answer the poll as soon as possible, as we need to decide whether to participate this year. The decision will be based on member interest and support. If enough members commit to attending, we will participate as an organization. If we do not have sufficient interest, we will skip for 2016.
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PAEA Summer Picnic – July 23 rd 2016

It's not too early to begin thinking about Summer! We will hold our fun and well-attended annual Picnic on July 23^{rd} this year. Please mark your calendars. More information to come...

75-cio lecia Stowarzyszenia "Polonia Technica" – 20-22 maja 2016 – Nowy York (This information is in Polish, as the event will also be in Polish)

Uroczyste obchody Jubileuszu 75-cio lecia Stowarzyszenia "Polonia Technica" odbędą się w dniach od 20 do 22 maja 2016 roku. w Konsulacie RP, na Manhattanie, przy 233 Madison Ave. (przy 37 Street, Jan Karski Corner), New York, NY 10016.

Zasadniczym punktem obchodów Jubileuszu będzie Sympozjum Naukowe ujmujące tematykę z zakresu najnowszych osiągnięć polskich inżynierów, określenie perspektyw współpracy naukowej pomiędzy USA i Polską oraz profesjonalny dorobek polonijnych inżynierów. Hasło Sympozjum:

"Polscy Inżynierowie Ameryce i Polsce, oraz ich profesjonalne osiągnięcia".

Więcej informacji: mail@polonia-technica.org

http://www.polonia-technica.org/

III Światowy Zjazd Inżynierów Polskich – 16-18 czerwca 2016 – Wrocław

(This information is in Polish, as the event will also be in Polish)

Zgodnie z przesłaniem II Światowego Zjazdu Inżynierów Polskich (Warszawa, 26-28.06.2013) jego organizatorzy zapraszają na kolejne wielkie spotkanie polskich inżynierów zarówno tych mieszkających i pracujących w kraju, jak i poza jego granicami.

III Zjazd odbędzie się we Wrocławiu razem z XXV Kongresem Techników Polskich (16-18 czerwca 2016 r.). Decyzją Unii Europejskiej Wrocław będzie w 2016 r. Europejską Stolicą Kultury.

Ważnym celem inżynierskich zjazdów była i jest integracja środowiska i wymiana wiedzy oraz doświadczeń. Zarówno integracja środowiska technicznego, jak i wymiana doświadczeń i przepływ wiedzy są nam, w dobie globalizacji, potrzebne i dziś. I temu służyć będzie zarówno III SZIP, jak i XXV KTP.

Wiecej informacji: http://www.szip.org.pl/

Rudolf Modrzejewski (Ralph Modjeski) Plaque Dedication - Huey P. Long Bridge

The Council of Polish Engineers in North America invites all PAEA members and sympathizers to the unveiling of a Ralph Modjeski's plaque on Huey P. Long Bridge in New Orleans, tentatively scheduled for October 15th, 2016. More information will be forthcoming as it becomes available.

Special Interest

Exhibit Opening - Voytek Glinkowski @ The PMA - April 29, 2016

For more information: http://www.polishmuseumofamerica.org/event/the-voytek-glinkowski-art-exhibit/

Polish Museum of America Summer Gala – June 3, 2016

Friday, June, 2016 @ 6:00pm - 11:00pm, Café La Cave, 2777 Mannheim Rd, Des Plaines, IL 60018

The Polish Museum of America warmly invites all PAEA members and sympathizers to its annual Summer Gala! The event, the largest fundraiser for the PMA, is always a wonderful evening. This year, as the name change suggests (formerly the Summer Ball), the event will both maintain its classic traditions, as well as offer more opportunities for fun!

For details please see: www.polishmuseumofamerica.org

www.polishengineers.org