
POLISH-AMERICAN ENGINEERS ASSOCIATION

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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 20th, 2020

TIME: Business Meeting begins 8:00 p.m.; Presentation to follow immediately

PLACE: virtual meeting via **Zoom** (not Skype, as before):

<https://us04web.zoom.us/j/7021331458?pwd=ai9IMWc3K2IrMFNUSU9IeEkrWFJidz09>

Meeting ID: 702 133 1458

Passcode: CQQ1P0

SPEAKERS: Dr. Bohdan W. Oppenheim

TOPIC: Lean Healthcare Systems Engineering Process for Projects in Healthcare Delivery Operations



Dr. Bohdan W. Oppenheim

Dr. Bohdan “Bo” W. Oppenheim was born in Warsaw, Poland. He escaped from communism to the United States as a political refugee in 1971.

His professional background includes healthcare, engineering, systems engineering, and Lean. His degrees include a PhD (1980) from University of Southampton, U.K.; a Naval Architect’s postgraduate degree (1974) from MIT; an M.S. (1972) from Stevens Institute of Technology in New Jersey; and a B.S. (equivalent, 1970), from the Warsaw Technical University, Mechanical Engineering and Aeronautics (“MEiL”).

Since 1982 at Loyola Marymount University, Los Angeles; Dr. Oppenheim has held the following positions:

- Professor, Director and creator of Healthcare Systems Engineering 2013-present
- Professor of Systems Engineering 2004-present
- Professor and Graduate Director of Mechanical Engineering 1995 – 2009

His areas of specialization include: Healthcare Systems Engineering, Lean Healthcare Systems Engineering (LHSE) process, Lean Healthcare, productivity, quality, resiliency, systems engineering; and formerly: dynamics, signal processing, vessel mooring simulators, and naval architecture.

He is also the founder and Co - Chair of the Lean Systems Engineering Working Group of INCOSE and leader of the Prototype team developing Lean Enablers for Systems Engineering (awarded INCOSE Best Product Award, and Shingo Award in 2010); the Director of the U.S. Department of Energy Industrial

Assessment Center (assessed 125 industrial plants for lean productivity, 2000 - 2007); a Member of the INCOSE Healthcare Working Group; the Coordinator of the MIT-based Lean Advancement Initiative Educational Network; and a Member of the Steering Committee of the Lean Education Academic Network.

Dr. Oppenheim is the author (with S. Rubin) of the POGO oscillation simulator for liquid rockets, which was used by the rocket industry and NASA, developed at The Aerospace Corporation. He is also the author of four professional books, 6 professional book chapters, 38 technical journal articles, as well as three non-technical books, 12 articles, and two TV programs. He has presented 30 workshops, tutorials, and webinars on Healthcare Systems Engineering; another 25 on Lean Enablers for Systems Engineering; and 13 workshops, tutorials and webinars on Lean Product Development Flow. He has been invited as a guest lecturer in Canada, China, France, Germany, Israel, Italy, Netherlands, Poland, Sweden, United Kingdom, and the United States.

He is a member of INCOSE, LAI EdNet, and formerly ASEE, ASME, ISOPE, and SNAME. And he has been awarded \$1,922,000 in externally-funded grants.

His Industrial experience (full or part time) includes: Aerospace Corporation (1990 - 1994), Northrop (1985 - 1990), Global Marine Development (1974 - 78). He was also a consultant to: Northrop - Grumman (2007 - 2008), Boeing (2001 - 2004), Airbus (2005), Telekomunikacja Polska (2006 - 2008), Mars (2007 - 2008), and 50 other firms and governmental institutions in the U.S. and Europe.

Some of his awards and recognitions include: the Fulbright Award, 2011; Fellow, INCOSE and IAE; Awarded Best Engineering Teacher by the Los Angeles Council of Engineers and Scientists, 2008; Shingo Awards 2011, 2013, 2017.

Dr. Oppenheim lives in Santa Monica, California, and Warsaw, Poland. He has two married sons. His interests include sailing (he holds a U.S. Coast Guard Captain's License; ocean sailor); and collecting modern Polish art.

https://cse.lmu.edu/media/lmucse/departments/healthcaresystemsengineering/Oppenheim-CV-Feb-2020_V3.pdf

ABSTRACT

The presentation will describe a new powerful generic process named Lean Healthcare Systems Engineering Process (LHSE). It integrates selected and simplified systems engineering steps and Lean in the context of healthcare delivery applications.

Operational fragmentation is one of the biggest evils of healthcare operations, suffering from numerous imperfect interfaces between stakeholders. Systems engineering (SE) is the established body of knowledge for integrating fragmented elements across interfaces, but it suffers from inefficient and wasteful bureaucratic steps which prevent wide adoption in healthcare.

Lean is a powerful methodology for identifying and removing waste from workflows, but is not effective in dealing with fragmentation. A combination of Lean and strongly simplified systems engineering has addressed the above deficiencies.

LHSE is a logically rigorous but non-mathematical process that is easy to learn and practice and applies to any project in healthcare delivery operations in clinics, hospitals (including operating rooms and emergency departments), medical laboratories, and pharmacies. It has proven itself in several projects and met with praises from practitioners.

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/>

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 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



Lira Soloist Sings Polish Mass Every Saturday & Sunday – On Line

The Lira Ensemble of Chicago invites all PAEA Members and sympathizers to enjoy weekly mass, sung by Lira soloist Ewa Kowacz-Fair, at Saturday Polish Mass at St. John Brebeuf Church in Niles, at 6:30pm. The mass is also broadcast 'live' on Facebook; and is rebroadcast on YouTube every Sunday at 12:30pm.

Details for access on line are as follows:

ON SATURDAYS AT 6:30PM:

GO TO www.sjbrebeufniles.org & scroll down the home page to POLISH MASS

ON SUNDAYS AT 12:30PM:

GO TO YouTube St. John Brebeuf Niles & scroll down until you see the Polish Mass of the day

The Lira company also invites PAEA Members and sympathizers to enjoy an audio-only concert honoring the 100th Anniversary of the Birth of St. John Paul II, available for free on the Lira Ensemble website until the end of the year:

GO TO www.liraensemble.org & scroll down the home page to the photo of St. John Paul II.

The concert consists of sacred music sung in Polish, English and Latin, to celebrate the Polish pope; written by both Polish and American composers, and performed by the Lira Singers female ensemble and the Lira Chamber Chorus of both male and female voices. There is a choice of concert narration in English or in Polish.

www.polishengineers.org