### 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, October 18th, 2019

TIME: Doors Open 7:30 p.m.; Business Meeting begins 8:00 p.m.

**PLACE:** Our Lady Mother of the Church

8747 W Lawrence Ave. Chicago, IL 60656

SPEAKERS: Mr. Igor Novitski

TOPIC: Development of the US-MDP 15T Nn3Sn Dipole Magnet Demonstrator



# Mr. Igor Novitski

Mr. Igor Novitski (born 1959, Ukraine) is a graduate of the Faculty of Cryogenic Physics at the Kharkov Polytechnic Institute in Ukraine, March 1982 with a M.S. in Cryogenic Science & Engineering.

Mr. Novitski's Principal Research Interests include: engineering, design and technology development of superconducting accelerator magnets for High Energy Physics.

Mr. Novitski has spent 36 years in the business, with over 100 publications on research conducted at 3 different labs. He has built more than 10 magnets, including a 14.1T- a world record field for accelerator magnets.

Mr. Novitski is currently a Principal Engineer at Fermi National Accelerator Laboratory, in Batavia, IL.

#### **ABSTRACT**

Mr. Novitski will speak about the development of the US-MDP 15T Nn3Sn Dipole Magnet Demonstrator. The 15T level is considered

very difficult for the Nb3Sn conductor. And the 15T Dipole is a very challenging magnet, as it uses Nb3Sn superconducting material, and works at liquid He temperatures. For perspective, the level of 14T was only finally reached after 20 years of unsuccessful attempts!

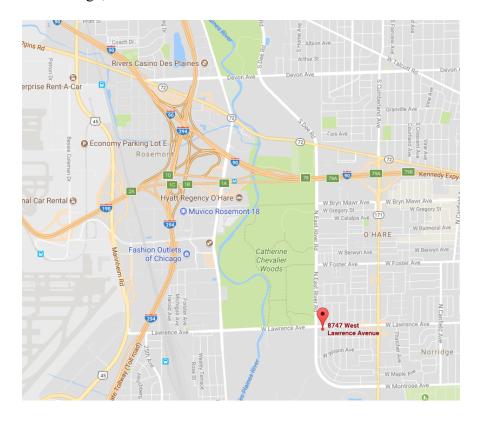
Even so, the next big accelerator project in Europe (Future Circular Collider) sets 16T as the target for its dipole magnet. Thus, four European countries are now building 4 different magnets to check this difficult "peak" in next 3-4 years.

More information (about the program for inter-laboratory collaboration in US) is available at: http://atap.lbl.gov/wp-content/uploads/sites/22/2016/01/MagnetDevelopmentProgramPlan.pdf

## **PAEA Announcements**

#### **MEETING LOCATION**

Our Lady Mother of the Church 8747 W Lawrence Ave. Chicago, IL 60656



The entrance closest to our room is at the back of the church (Green arrow)- the best parking location is off of Oakview Ave, behind the church (Red box):



### 2019 Membership Dues Reminder

There is again no change in dues for 2019: \$70 per year, senior citizens and students \$35 per year.

We ask that everyone pay their dues as soon as possible, as this is our source of operating funds. Thanks to those who have already paid! 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 to:

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

You may also pay your dues at our meetings, and receive your Membership Card immediately.

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

### Ralph Modjeski Scholarship

The winner of the 2019 Ralph Modjeski Scholarship will be announced at our October meeting.

## 85<sup>th</sup> Anniversary Ball – 26 October, 2019

Please join us, and invite all friends and colleagues to our 85<sup>th</sup> Anniversary Ball! We will celebrate together Saturday, October 26<sup>th</sup> from 5:30pm till 11:30pm, at Mirage Banquets (10255 West Irving Park Road, Schiller Park, Illinois 60176).

Tickets are \$100/person (\$40 for children 3-11 years old). For information and reservations, please call Mrs. Ewa Mroczek at 630.782.0121; or email to: contact@polishengineers.org.

## Council of Polish Engineers in North America Workshop – 25-27 October, 2019

All PAEA Members and sympathizers are invited to take part in the Council of Polish Engineers in North America Workshop, taking place 25-27 October, 2019 at the Polish Consulate in Chicago (1530 N. Lake Shore Drive, Chicago, IL 60610). The Agenda is as follows:

Friday, October 25, 2019

16h00 Opening by Polish Consul and Council President

16h30 Session 1- Science

18h00 Break

18h30 Session 2- Economy

20h00 Networking Dinner

Saturday, October 26, 2019

9h00 Session 3- Technical Organizations

10h30 Break

11h00 Closing Session

12h30 Lunch

13h30 Council Working Session

17h30 Gala Dinner (PAEA 85<sup>th</sup> Anniversary Gala)

Sunday, October 27, 2019 9h00 Tour of Chicago

For more information or to register, please contact:

Mirek Niedzinski Michael. Niedzinski @constellium.com

Andrzej S. Nowak Nowak@auburn.edu

### 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 <a href="mailto:contact@polishengineers.org">contact@polishengineers.org</a>. We will publish in the next Bulletin available.

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## 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 <a href="mailto:contact@polishengineers.org">contact@polishengineers.org</a>. 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.

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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	n-Engineers-Association-PAEA-1153830014674800/
Please check it out, and help us keep it active by 'like'-ing and posting interesting material.	
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Next Meeting Date	15 November, 2019
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Corrections	None highlighted.

## **Special Interest**

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

Book Signing: American Warsaw - The Rise, Fall, and Rebirth of Polish Chicago Wednesday, October 30, 2019 @ 7:00pm @ the PMA (984 N. Milwaukee Ave., Chicago, IL 60642)

All PAEA Members and sympathizers are cordially invited to meet Dominic A. Pacyga, author of a new book entitled "American Warsaw - The Rise, Fall, and Rebirth of Polish Chicago," October 30<sup>th</sup> @ 7pm @ the Polish Musuem of America. For more information please see:

https://www.polishmuseumofamerica.org/event/american-warsaw-the-rise-fall-and-rebirth-of-polish-chicago/?event date=2019-10-30

"Żołnierze Niechciani" – pokaz przedpremierowy / Pre-Premier Screening (in Polish) Sunday, November 10, 2019 @ 1:30pm @ the Polish Museum of America (984 N. Milwaukee Ave., Chicago, IL 60642)

All PAEA Members and sympathizers are invited to a pre-premier screening of "Żołnierze Niechciani" ("Unwanted Soldiers"), about the Polish-Americans who joined General Haller's Army to fight for a free Poland.

The screening will take place in the Sabina P. Logisz Great Hall of the Polish Museum of America, November 10<sup>th</sup> at 1:30pm. Please see below for more information:

https://www.polishmuseumofamerica.org/event/zolnierze-niechciani-pokaz-przedpremierowy/?event date=2019-11-10

www.polishengineers.org