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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, October 18<sup>th</sup>, 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
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## 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!

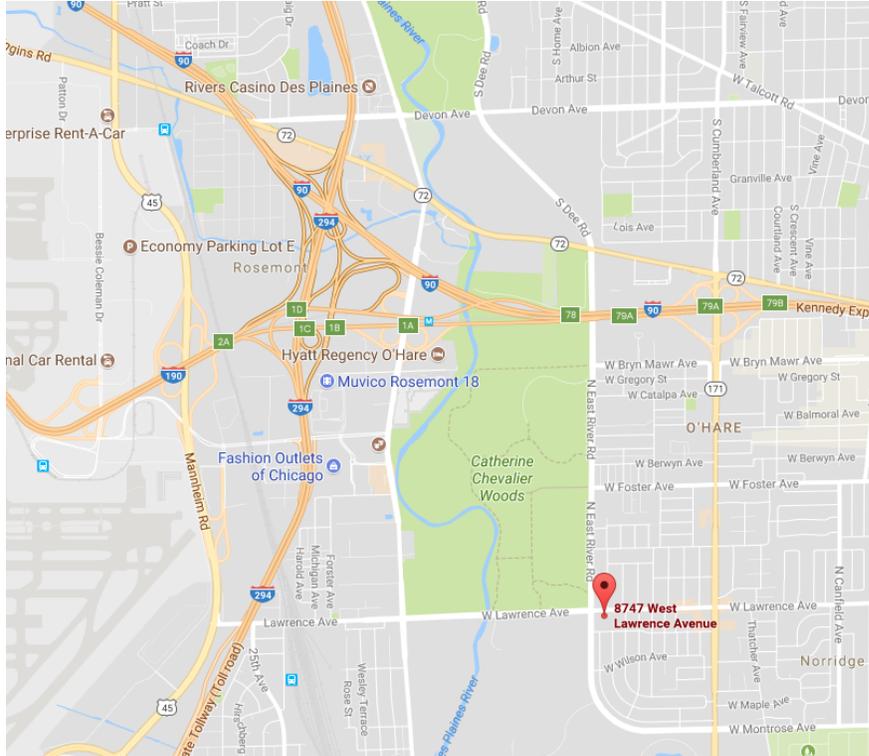
Even so, the next big accelerator project in Europe (Future Circular Collider) sets 16T as the target for its dipole magnet. Thus, four European countries are now building 4 different magnets to check this difficult "peak" in next 3-4 years.

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>

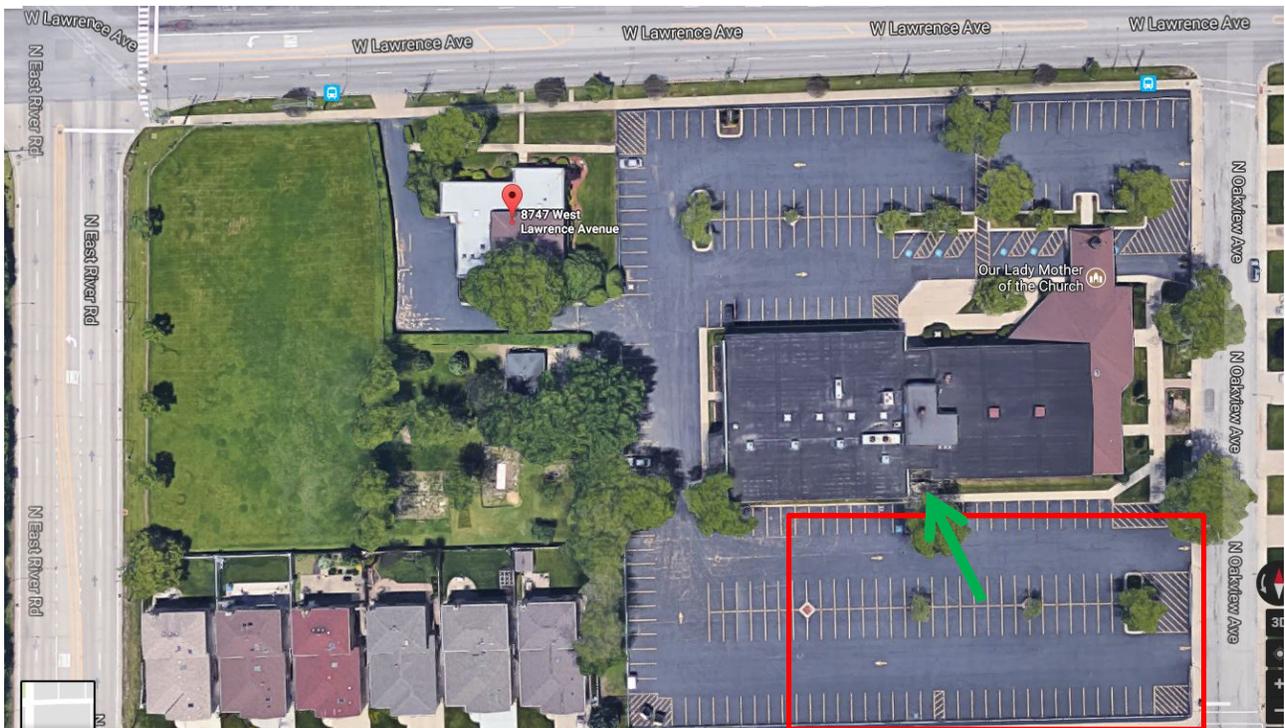
# PAEA Announcements

## 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):









## **Special Interest**

If anyone has an item of Special Interest to the PAEA Membership and sympathizers, please send the details to [contact@polishengineers.org](mailto:contact@polishengineers.org) 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 Museum 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](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. 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-niehciani-pokaz-przedpremierowy/?event\\_date=2019-11-10](https://www.polishmuseumofamerica.org/event/zolnierze-niehciani-pokaz-przedpremierowy/?event_date=2019-11-10)

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