

**American Institute of Chemical Engineers,  
Cleveland Section**

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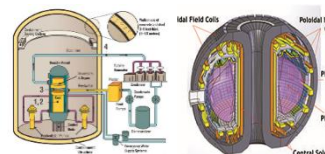
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**Energy Harbor FENOC**



## **Nuclear Power: The Confusion Between Fission and Fusion**

**Thursday, December 3, 2020**

As the world and the country try to go green, two types of nuclear power are referenced as potential clean energy sources, fusion and fission. While both terms are associated with nuclear power, what do they really mean and how is power generated from these sources? This lecture will go into the basics of how both sources utilize the atom to release energy and generate electricity. A basic diagram of plant construction will be presented. A general comparison of benefits and detriments of both sources will be discussed. The lecture will end with an open forum for questions. Please tune in if you are interested in the physics of nuclear power generation.

**Andrew R. Ohrablo**, <https://www.linkedin.com/in/andrew-ohrablo-9b160483>

Andrew Ohrablo is the Maintenance Engineering Supervisor at Perry Nuclear Power Plant with over 30 years of study and experience in the nuclear power field. Mr. Ohrablo started his nuclear career with the United States Navy in 1987. After training as a nuclear electrician, he was stationed on the USS Enterprise and served till 1993. Following his time in the Navy, Mr. Ohrablo returned to school at the Ohio State University. He transferred to the University of Wisconsin at Madison and received his Bachelor of Science Degree in Nuclear Engineering in 1998. Mr. Ohrablo's thesis was on the design of a Liquid Sodium Cooled Fast Breeder Reactor. He then began a career in the civilian nuclear power field as a Shift Technical Engineer at the Cooper Nuclear Station in Brownville, Nebraska. In 2008 he completed Senior Reactor Operator License Class and received his Nuclear Regulatory License effective March 27<sup>th</sup>, 2008. Senior Reactor Operator License Class is a 15 to 18-month instruction course that goes over the design, operation and accident response for a specific nuclear power plant. In 2014 he returned home to Ohio to work at the Perry Nuclear Power Plant as a Work Week Manager and the Maintenance Electrical Engineer. He is now the Maintenance Engineering Supervisor at Perry.

**Kristine Gehring-Ohrablo**, <https://www.linkedin.com/in/kristine-gehring-ohrablo-2473b8b1>

Kristine Gehring-Ohrablo is currently the Primary Chemist at the Perry Nuclear Power Plant with over 20 years of experience in the nuclear power field. Kristine holds a Bachelor of Science Degree in Microbiology from The Ohio State University (1994) and a Master of Science Degree in Bacteriology from the University of Wisconsin at Madison (1999). She started her career in Nuclear Power at Cooper Nuclear Station in Brownville, Nebraska as a Chemistry Technician. She received a Master of Science Degree in Radiation Health Physics from the Oregon State University in 2011. Her studies included radiochemistry and radiation detection instrumentation. Kristine transitioned from her position as a Senior Chemistry Technician to a Plant Chemist position at Cooper Nuclear Station to be the Radioactive Effluents Specialist. As the current Primary Chemist at the Perry Nuclear Power Plant, Ms. Gehring-Ohrablo is responsible for predictive trending and process chemistry management to maintain the ultra-pure chemistry of the reactor and steam cycle water.

Mr. Ohrablo and Ms. Gehring-Ohrablo look forward to an evening of discussion with the AIChE Cleveland Section. The Zoom presentation will be from a Zoom virtual meeting format, and those interested in attending will make their arrangements through the AIChE attached link below. Please email Joseph Yurko if you plan to attend so AIChE will be able to send you the email Zoom link before the meeting. An AIChE Continuing Professional Development certificate will be issued to you after the meeting. Thank you!

**Meeting Location:** *Zoom link to be emailed ahead of the meeting time by AIChE*

7:00 - 8:00 pm: Zoom Meeting  
8:00 - 8:30 pm: Questions & Answers

**Cost:** (no cost)

**Menu:** (Zoom Virtual Meeting, no meal)

**RSVP by December 1<sup>st</sup>** with Joseph Yurko and AIChE: [j.yurko@sbcglobal.net](mailto:j.yurko@sbcglobal.net)

