



YOU'RE INVITED

March 2017



NGSS SEMINAR SERIES: ENGINEERING OUR ENERGY FUTURE

You are invited to attend three Argonne seminars that explore the current status and future of the electric grid. Scientist talks, discussions, and activities will translate new knowledge and concepts into teaching practice. Through the research and practices of Argonne scientists you will enhance your understanding of fundamental scientific principles. The series is designed around high school performance expectations (PEs) and disciplinary core ideas (DCIs).

This [three-part seminar series](#) will cover interrelated topics on separate evenings:

- The Science of the Grid
March 8, 2017
- Upgrading to the Smart Grid
March 15, 2017
- The Challenges of Energy Storage
March 22, 2017
- Weather Data
March 29, 2017

EVENT DETAILS

Who: High School Educators
When: March 2017 Wednesdays
5:00-7:30 p.m.

Where: [Argonne National Laboratory](#), Lemont, Illinois

Cost: FREE to classroom teachers and curriculum support staff

REGISTER NOW

DETAILS

A vibrant economy relies on a constant supply of clean inexpensive energy. The electric grid has been our general purpose energy provider for the last 100 years. It's running today on 80-year old architecture, doing its best to support countless new devices and emerging technologies that did not exist 20 years ago. Our future production will need to come from many sources — more from the cleaner intermittent renewables and less from the combustion of baseline fossil fuels. Blending these sources into a seamless precise flow will require new technology and the capability to shift or hold energy over a 12- to 24-hour period. In addition to being self-regulating, the grid must be secure against physical and cyber (hacking) attacks and be able to restart itself from natural disasters and solar flares from the sun. It needs to be far more flexible, more efficient, and SMARTER than it is today. It's up to the current and next generation of STEM professionals, your students, to make it so!

Each seminar:

- Features an anchoring phenomena
- Taps the pre-knowledge of teachers and addresses misconceptions
- Includes two scientist talks
- Provides content-deepening for related teaching topics and principles.

Topics are also linked to NGSS alignments (high school PEs, DCIs and practices)

2.0 teacher certification units will be available to teachers at the end of each seminar.

One [registration](#) covers all the seminars you select (up to three). Each participant must hold a valid Illinois teaching certificate. Participants must be a U.S. citizen or a permanent resident alien (requires completion of an Argonne security form). Participants will require valid photo IDs, and in some cases, other items to gain laboratory access.

For questions about these seminars, please e-mail education@anl.gov

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