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2022 Sustainable Alternative Energies Summer Boot Camp

An Intensive "Boot Camp" Teacher Training Combining Academic Professional Development with Vocational Site Visits to Alternative Energy Providers

Thanks to funding provided by:

Duke Energy Foundation – Week 1 Frank & Becky Levinson – Week 2

Rose-Hulman PRISM will be facilitating two Sustainable Alternative Energies Summer Boot Camps for Indiana teachers this summer (see dates for each above). The boot camps take place on the Rose-Hulman Institute of Technology campus. STEM teachers, grades 4 -12, teaching units in their curriculum on sustainable and alternative energies are invited to apply. The purpose of this program is to provide the teachers a true "boot camp experience" in sustainable alternative energies combining academic professional development with vocational site visits to some alternative energy providers in Indiana. Some site visits may be in the form of virtual visits relative to COVID-19 protocols.

During the institute, teachers are to be developing standards-based, practical, and comprehensive lessons for units on sustainable alternative energies. Time will be given each day to help guide the development of lesson plans. Teachers will also be given time to share their ideas and collaborate each day.

Upon completion, and after fully participating in the institute, each teacher will receive a kit of supplies containing materials for all the lab activities done during the institute. Teachers can also receive, upon completion of the institute, 45 Professional Growth Points (PGP's) to apply on their Indiana Teacher's License renewal.

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2022 Sustainable Alternative Energies Summer Boot Camp

All participants will be housed in a residence hall on the Rose-Hulman Institute of Technology campus during the institute. Meals will be provided through the Food & Dining Services (Café Bon Appetit) in the student union.

Eligibility Requirements:

- Teachers must be active Indiana teachers teaching units on sustainable alternative energies in grades 4-12.
- Priority will be given to teachers that have 0-10 years of teaching experience.

Site visits could include:

Duke Energy Cayuga Power Plant
Hoosier Energy Merom Power Plant
NIPSCO Power Plant

MSD of Wayne Township Schools
Miso Headquarters, Carmel, IN
Benton County Wind Farms

Apply online:

[Duke Energy Sustainable Energy Boot Camp 2022 Registration Link](#)

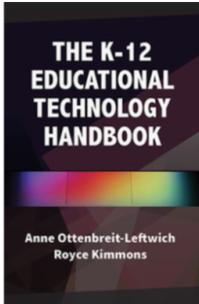
[Levinson Sustainable Energy Boot Camp 2022 Registration Link](#)

[Contact PRISM](#) if you have any questions.

Resources for Teachers

The K-12 Educational Technology Handbook

by Anne Ottenbreit-Leftwich and Royce Kimmons



This is an excellent resource for all K-12 teachers utilizing a variety of educational technology tools, integrating various OER's and educational apps into their curricula. Through reviewing content in this handbook, teachers can further develop a foundational understanding of prominent technology integration models, begin to understand more effective strategies for developing personal learning environments for students (PLE's), and be provided information that they should be knowledgeable about like copyright laws, public domain resources, fair use of resources and open licensing guidelines. UDL guidelines are covered in this handbook to help teachers understand how to identify sources of instructional barriers for students and how to effectively overcome them. For K-12 teachers that

are creating and authoring their own courses for their students, this is an excellent resource to reference and review.

For more information: <https://edtechbooks.org/k12handbook>



Mentimeter is an audience engagement platform. It is an excellent ed tech tool for teachers to engage their students with their presentations. Teachers can add questions, polls, quizzes, interactive slides, images and gifs to their presentations. Students can use smartphones or other devices to connect to the presentation. Teachers can visualize student responses in real time and create fun and entertaining experiences while doing so. Mentimeter gives teachers the power to design a wide variety of interactive polls. Polling students can be a very effective way to increase engagement and make presentations more dynamic and memorable. Teachers can create interactive quizzes that are designed to be enjoyable and dynamic, no matter if they want to test the comprehensively test knowledge obtained by students, or just to do quick reviews of concepts or mastery of skills quizzes. Teachers can also allow students to ask questions anonymously on the platform allowing for an open and safe environment for all. Mentimeter can also translate lessons to a variety of languages to lower barriers for some learners.

For more information: <https://www.mentimeter.com/>

Resources for Teachers

Seesaw

Seesaw is a digital platform for student engagement and a viable means for sharing student work with their families. Some teachers use Seesaw primarily as a place for students to share their work, and specifically encourage individual reflection and peer feedback. Seesaw becomes a place not only where student work can be stored, but where teachers and peers can provide encouragement, constructive criticism, and suggestions for improvement. An authentic audience of peers can encourage students to do their best work. Teachers are able to review any comments before they are posted to ensure that feedback is constructive & appropriate for students. Some teachers choose to use Seesaw in a more private way, where they can do student assessments, collect work, and give direct private feedback to students. You can even push assignments to students for them to complete and turn in via Seesaw. This makes Seesaw primarily a place where students and teachers can interact around their work. Seesaw basic core features are free forever for students, teachers, and their families.

For more information: <https://web.seesaw.me/>



Flipgrid promotes social learning. Their belief is that learning is much more fun when it is done together as a social group. Flipgrid's free video discussion app provides a safe, accessible space where students at all levels, abilities, and backgrounds can explore ideas, connect with each other, become more creative and contribute to meaningful discussions. Flipgrid is a video discussion tool designed to work specifically for teachers and students in a digital classroom environment. The idea behind this ed tech tool is to use video to create an open platform of discussion and learning that doesn't require a physical classroom to get everyone involved. Flipgrid is an ideal remote learning tool as well as a powerful homework-based application for students to use with each other and become in and out of the normal classroom. Flipgrid is free to use and can be accessed using a Microsoft or Google account.

For more information: <https://info.flipgrid.com/>

Professional Development Opportunities for Teachers



This summer there will be fourteen Summer of Learning conferences sponsored by the Indiana Department of Education / Digital Learning. These conferences will offer educators opportunities to connect with innovative, technology enhanced pedagogy related to accelerated learning, STEM, literacy, digital, blended learning, and more. The fourteen conference hosting sites were selected through a Summer of Learning grant application process.

Dates	Conference Host	Conference Website	Keynote Speaker
June 1-2	South Madison Community School Corporation	eLead	Gerry Brooks Dr. Megan Tolin
June 1-2	Batesville Community School Corporation	Splash Into Learning	Kim Campbell Chris Young
June 2	DeKalb County Central United School District	Intentional Innovation Conference	Trevor Muir
June 10	Franklin Township Community School Corporation	SPARK Summit	Gerry Brooks
July 13	Yorktown Community Schools	Be Epic	Trevor Muir
July 13	Lewis Cass Schools	Collaboration, Acceleration, Technology	Haley Moss
July 19	East Washington School Corporation	Summer Learning Conference	Tom Allen
July 20	Richmond Community Schools	Tech EnRiched	Matt Miller
July 26-27	Lafayette School Corporation	Ignite	Jess Lubinsky Amber Harper
July 26	Fort Wayne Community Schools	IngitED at FWCS	Jon Corippo
August 2	Penn-Harris-Madison School Corporation	Technovation	Carl Hooker
August 4-5	South Bend Community School Corporation	EdTech in the Bend	Nick Provenzano Jon Corippo

Project SELECT at Rose-Hulman

PROJECT SELECT is an immersive, hands-on science and engineering camp at Rose-Hulman Institute of Technology for high school students during the summers after their freshman or sophomore years. In Project SELECT, students build on existing science and mathematics knowledge as they connect it to modern engineering applications. All Project Select students get hands-on experience working one-on-one with Rose-Hulman professors exploring how science can be applied to solve difficult problems, design, and innovate working on exciting projects. Students will work with state-of-the-art equipment and have a great deal of "hands-on" learning.

Sunday, July 10 thru Saturday, July 16 (7 Days) – SESSION I

Sunday, July 17 thru Saturday, July 23 (7 Days) – SESSION II

Cost: \$1,450

For more information:

<https://www.rose-hulman.edu/admissions-and-aid/early-planning/project-select/index.html>

What PRISM Can Do For You!

- Easily find the perfect teaching and learning resources from our library of over 5,000.
- Save a list of your favorite resources for quick retrieval.
- Create and share lesson plans that teach your subjects utilizing your favorite resources.
- Develop online classrooms with interactive assignments, lessons, quizzes and more!
- Store your classroom materials online so that they are available to you from any computer.
- Reach your students more effectively by using web media for the digital age.
- Earn PGP points by completing PRISM led online Moodle course – either Beginning Moodle or Intermediate Moodle courses are available to you at no cost several times throughout the year.
- Select from free learning resources that emphasize visualization, rich context, staged-problem solving, and electronically enabled collaboration / communication.
- Augment your own dynamic presence in the classroom with teaching tools that mirror the skills needed for success in higher education and the 21st Century workplace.

*Through our strong support from the **Lilly Endowment** and others, we are constantly growing and improving. Check our site regularly to see what new resources you can use in your classroom.*

www.rose-prism.org