

Newsletter**Special Interest
Articles**

- 2022 PRISM
Summer
Highlights

Individual Highlights

- Resources for
Teachers
- Purdue Fast Start
Program
- Professional
Development

PRISM in Action!

This summer was a busy one for the PRISM staff!

In June, the team worked with Vigo County School Corporation (VCSC) for two weeks with the Intensive Summer Institute for Math and Science, June 6 – 17. The institute was funded by a Title IV grant awarded to the VCSC for the professional development of K-12 math and science teachers. Workshops were facilitated for middle school science, science content for 4th and 5th grade teachers and for middle and high school Algebra teachers. Sessions were led by the following Rose-Hulman professors:

- Dr. Elaine Kirkpatrick, Associate Professor of Physics and Optical Engineering
- Dr. Jennifer O'Connor, Professor of Biology and Biomedical Engineering
- Dr. Miles Canino, Professor of Mechanical Engineering
- Dr. Renee Rogge, Professor of Biomedical Engineering
- Dr. Michael DeVasher, Enrollment Management and Associate Professor of Mathematics



Dr. Kirkpatrick, Dr. O'Connor, and Dr. Canino worked with middle schools science teachers in their respective areas. Dr. Rogge worked with 4th and 5th grade science teachers providing them with a great variety of lessons and activities aligned-well with the current Indiana academic science standards. Dr. DeVasher worked with the middle and high school Algebra teachers. His work was focused on content to help teachers better prepare students for the PSAT and SAT exams. Seven middle school science teachers, eleven fourth and fifth grade teachers, and seven Algebra teachers participated in the workshops.

continued on Page 2...

2022 Sustainable Alternative Energies Summer Boot Camps

In late June (6/26 – 7/1) and mid-July (7/10 – 7/15), PRISM facilitated two sessions of their highly successful Sustainable Energy Boot Camps for K-12 Teachers. The June boot camp was funded by the Duke Energy Foundation and the July boot camp was funded by Frank and Becky Levinson (Rose-Hulman alumni). During each boot camp teachers were immersed in training on sustainable, alternative energies, mainly focusing on energy conservation initiatives, the U.S. electrical power grid, coal, and natural gas-fired power plants, solar and wind renewable energy sources. Each boot camp consisted of 45 hours of professional development. Teachers started each day with a lecture session with Dr. Andrew Mech, retired professor of mechanical engineering followed by lab sessions facilitated by PRISM staff and in the afternoons went on field trips to the following locations in west central Indiana:

Duke Energy Cayuga Power Plant & Hoosier Energy Merom Power Plant
North Putnam High School Solar Farm & Wayne Township Schools Solar Farm
NIPSCO Sugar Creek Generating Station
Benton County Wind Farms / Fowler, IN
[reThink, Inc.](#) (Terre Haute)



This year, the boot camps had teachers participating from the most wide-spread regions of Indiana compared to any other year. In the first boot camp, we had teachers from Lawrenceburg, Richmond, Elkhart, Hammond, Evansville, Indianapolis, New Castle, and Terre Haute. In the second boot camp, we had teachers from Danville (Indiana), Merrillville, Gary, Indianapolis, Whiteland and Terre Haute. Teachers received a kit of supplies for all the lab activities done during the boot camp. They also received a new iPad device and a \$500 stipend for participation and to offset their cost of traveling to Rose-Hulman for the boot camp.

Resources for Teachers



Real science, real stories, and real data to engage students in exploring the world around them. HHMI BioInteractive brings the power of real science stories into tens of thousands of high school and undergraduate life science classrooms. From data-rich activities and case studies to high-quality videos and interactive media, BioInteractive resources are designed to connect students to big ideas in biology, promote engagement with science practices, and instill awe and wonder about the living world. Hear how experienced science educators are using BioInteractive resources with their students. Discover implementation ideas, lesson sequences, resource modifications, quick tips, and more in this collection of videos and in-depth articles.

For more information: <https://www.biointeractive.org/>



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Resources for Teachers



Learn.Genetics is published online by the University of Utah. This website is an excellent resource for all life science teachers, or any teachers, teaching genetic concepts. Content is provided from very basic genetics concepts to genetic disorders and gene therapy. These are all excellent, comprehensive resources for middle and high school levels of science. Resources can be found that are appropriate for a variety of levels from middle school science to advanced genetics courses. Main topics on the website include: basic genetics, genetics at work, genetics science, epigenetics, cell biology, cloning and stem cells, plant biology, ecology, human health (focus of genetic disorders and gene therapy).

For more information: <https://learn.genetics.utah.edu/>

WHITEBOARD.fi
a Kahoot! company

WHITEBOARD.fi is a free online whiteboard tool for teachers to highly effectively use in the classroom and with remote learning experiences. Whiteboard.fi is a simple tool that can be used instantly. Teachers can create a class and let their students join by using an url link, a room code or QR code. Every student will have an individual digital whiteboard, where they can draw, write text, make notations on images, add math equations and much more. Teachers of a given class can see all their students individual whiteboards in real time and annotate as necessary and assist students one-on-one. Whiteboard.fi can also effectively be used as an instant formative assessment tool and provide instant feedback. Teachers can engage all students at all levels using this online whiteboard.

For more information: <https://whiteboard.fi/>

Purdue Fast Start Program

In February of 2020, Purdue University announced the [Purdue Fast Start Program](#), an opportunity for Indiana high school students to take their first steps toward a Purdue degree, for free! Fast Start is an ideal program for students who have limited access to advanced coursework in their high school, such as AP or IB courses.

Through Purdue's partnership with [ModernStates.org](#), students can gain assured admission into Purdue by earning free college credit by completing a minimum of 5 [CLEP classes](#) and passing the corresponding [exams](#). Then, students submit their application to Purdue by the Early Action Deadline (Nov. 1) of their senior year.

Students who complete 5 CLEP courses and pass the corresponding exams can save up to a full semester worth of tuition and passing 10 can cover the entirety of their freshmen year, saving up to \$21,000.

As students are planning out their courses in high school, now is a great opportunity to begin taking college coursework that can help save time and tuition at Purdue University.

If a student is interested in this opportunity, follow these steps!

1. [Express interest](#) in the Purdue Fast Start Program.
2. [Create a Modern States account](#).
3. Complete a [Modern States CLEP course](#).
4. [Register](#) for a CLEP exam with a [Modern States voucher code](#).
5. Schedule the CLEP exam at an [official CLEP test center](#).
6. Send the CLEP scores and apply to [Purdue University West Lafayette](#) by Nov. 1 of your senior year.

[Learn more about Purdue Fast Start](#).

If you have more questions reach out to [Quinci Miller](#), Senior Assistant Director at Purdue University's Office of Admissions.

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.

Remaining upcoming conferences:

Dates	Conference Host	Conference Website	Keynote Speaker
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

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



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