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*Special Interest Articles*

- 2018 Title IV Summer Institute

*Individual Highlights*

- PRISM Summer Programs
- Summer of eLearning
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**2018 Title IV Summer Institute for Middle School Science & Math Teachers**



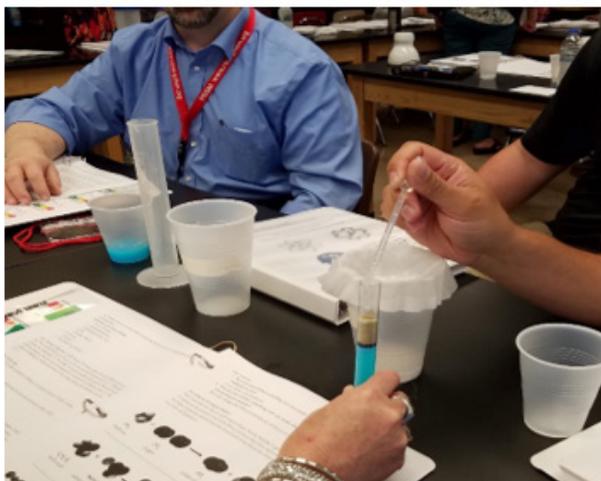
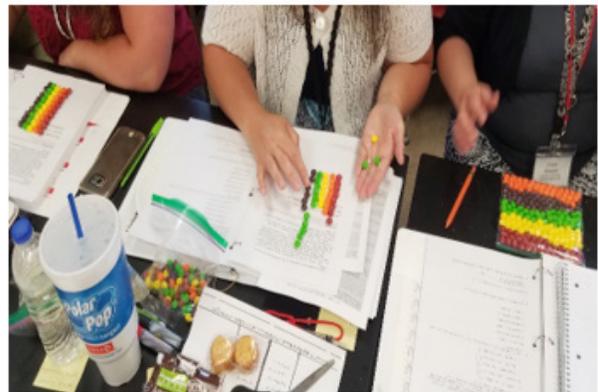
Rose-Hulman Institute of Technology (RHIT) partnered with the Vigo County School Corporation (VCSC) in providing professional development for 25 middle school Science and Math teachers from June 4 through June 14. Math and science teachers worked with RHIT faculty to complete a series of problem-based activities teaching science and math concepts along using design engineering principles. The program featured a research-based pedagogy of moving from hands-on exploration to team-based collaboration. Students then reinforced science and math concepts by guided reflection on the completed activities. Topics and concepts included:

<b>Physical Science</b>	Physical/Chemical Properties & Changes
	Types of Energy / Law of Conservation of Energy
<b>Life Science</b>	Food Chains / Food Webs/ Energy Pyramids
	Photosynthesis / Energy Flow in Ecosystems
<b>Engineering Design</b>	Develop a Prototype/ Modify for Optimal Design
	Identify Criteria and Constraints
	Built Pipe Insulation Roller Coasters
<b>Math Number Sense</b>	Integer Number System
	Rates and Ratios
<b>Math Computation</b>	Ratio and Percent Problems with Multiple Operations
<b>Math Algebra</b>	Solving Basic Algebraic Equations
	Multiple Variables in Expressions / Real-World Applications
<b>Math Geometry</b>	Area of Complex Shapes
	Design Engineering with Geometry Integrated into Lessons.

## 2018 Title IV Summer Institute for Middle School Science & Math Teachers

These sessions marked the 10th anniversary of Rose-Hulman Institute of Technology's PRISM Project summer workshops for VCSC teachers. Beginning in 2008 – and variously funded by the US DOE Fund for the Improvement of Secondary Education and the Indiana Department of Education Math / Science Partnerships – this series has provided over 1,000 hours of instruction in merging standards-based content with innovative pedagogy. During this time, PRISM has provided professional development for elementary, middle, and high school teachers in the VCSC schools. Over 25 Rose-Hulman professors have made these experiences successful by working with their pre-collegiate colleagues.

Teachers in action:



## 2018 Sustainable Alternative Energy Boot Camps for Teachers in July

### **2018 Duke Energy Sustainable Energy Summer Institute An Intensive “Boot Camp” Teacher Training Combining Academic Professional Development with Vocational Site Visits to Alternative Energy Providers**

*Funding Provided by the Duke Energy Foundation*

From July 8 – July 13, Rose-Hulman PRISM will hold the Duke Energy Sustainable Energy Summer Institute funded by the Duke Energy Foundation. The six-day residential workshop takes place on the Rose-Hulman campus. Secondary (9-12) Environmental Science & Agriculture instructors teaching units on sustainable energies are invited to submit an application. This institute provides teachers a true “boot camp experience” in sustainable energies. The itinerary combines academic (in-class and lab) professional development with vocational experiences through off-campus visits to power plants and other facilities involved with alternative energies.

During the institute, teachers will develop standards-based, practical, and comprehensive lessons for units on sustainable energies. Time will be given each day to help guide the development of lesson plans.

Upon completion, and after fully participating in the institute, each teacher will receive an iPad device and a kit of supplies containing materials for all the lab activities. Participants will also receive access to Moodle (a full-featured learning management system). Taking part in an online community of practice during academic year 2018-2019 is encouraged. Forty-five (45) Professional Growth Points (PGP’s) will be awarded upon completion. Five nights lodging (single occupancy room in a modern residential hall) and meals in the Rose-Hulman Union are included.

### **2018 Sustainable Energy Summer Institute An Intensive “Boot Camp” Teacher Training Combining Academic Professional Development with Vocational Site Visits to Alternative Energy Providers**

From July 15 – July 20, Rose-Hulman PRISM will be facilitating the Sustainable Energy Summer Institute. The institute takes place on the Rose-Hulman Institute of Technology campus. Secondary (9-12) Environmental Science & Agriculture teachers teaching units in their curriculum on sustainable energies are invited to submit an application. The purpose of this institute is to provide the teachers a true “boot camp experience” in sustainable energies combining academic professional development on the Rose-Hulman campus with vocational experience through site visits to some alternative energy providers in Indiana.

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

Upon completion, and after fully participating in the institute, each teacher will receive an iPad device and a kit of supplies containing materials for all the lab activities done during the institute. Teachers can also receive, upon completion of the institute, forty-five (45) Professional Growth Points (PGP’s) to apply on their Indiana Teacher’s License renewal. Five nights lodging (single occupancy room in a modern residential hall) and meals in the Rose-Hulman Union are included.

## **Rose-Hulman PRISM will Recognize, Spotlight the Work of, Along with Enable the Sharing of Ideas of Indiana K-12 Teachers Using the Moodle LMS Hosted by PRISM**

The PRISM team has a desire to make our monthly newsletter more engaging and to get active input from Indiana K-12 teachers that are using our online resources. Beginning in August, the Rose-Hulman Institute of Technology PRISM team would like to begin recognizing the work that many of our faithful Indiana K-12 teachers using our online resources (particularly the Moodle LMS) on a daily basis in their classrooms. We want to begin spotlighting teachers for doing some of the more advanced features on Moodle including workshops, databases, forums, wikis or the creation of tests, quizzes and test bank questions (particularly if some of the more advanced types of question types like: Cloze questions, drag and drop questions, calculated and calculated simple questions are used). This can also include things like: how a teacher has significantly changed their classroom culture, effectively “flipped” their classes or have realized a significantly greater level of student engagement by using the Moodle LMS. We also want to garner general feedback from Indiana K-12 teachers and the sharing of ideas that teachers have for unique or highly effective use of Moodle / Moodle activities.

### **Spotlighting of Teachers in the PRISM Newsletter and on the PRISM Website**

If you know of a teacher that you feel is doing exemplary work in his/her classroom and is using the Moodle LMS hosted by PRISM, we invite you to nominate him/her to be spotlighted in one of our monthly newsletters and on the PRISM website. We ask that you please describe the work that he/she is doing. Describe how he/she is using the Moodle LMS and perhaps the particular activities and lessons that they do more effectively by using the LMS. It would be nice to include pictures (please do not include pictures of student faces that are identifiable).

### **Teacher Feedback on PRISM’s Moodle**

If you are using the Moodle LMS hosted by PRISM, and you feel that it has made a significant difference in your teaching style, pedagogy or has opened your classroom up, and benefitted student engagement, we would like to have feedback from you. We would then like to have permission to publish your comments and descriptions of your lessons and activities in our monthly newsletter. We invite you to write a description of how you use the Moodle LMS in your classroom, how it has made a tremendous difference with student engagement or student performance and include pictures of this taking place in your classroom (please do not include pictures of student faces that are identifiable).

### **Sharing of Ideas**

The PRISM team wants to invite teachers to share ideas through our newsletter. In the classroom, what Moodle features work best for you? Are you having greater success with completion of homework by putting all assignments on Moodle? How do you engage students to get them to participate in forums, discussions, group projects or other activities on Moodle? How have you improved your assessment program at your school? How have you provided more practice or mastery exercises and activities to your students using Moodle?

### **Submission of Information**

If you want to submit your feedback and ideas or nominate a teacher to be spotlighted, along with pictures (images), please send to: [jackson2@rose-hulman.edu](mailto:jackson2@rose-hulman.edu).

## Summer of eLearning



The 2018 Summer of eLearning marks the seventh year of regional conferences sponsored by the Indiana Department of Education, Office of eLearning. This conference series continues our strong tradition of supporting high-quality professional learning in Indiana. Events this summer are tentatively scheduled from the end of May to the beginning of August. 19 locations will host conferences, most in collaboration with neighboring corporations. In all, a record 51 school districts will combine their efforts to produce the Summer of eLearning!

Dates	Conference	Location
July 10	<a href="#"><u>IMPACT</u></a>	Jasper Middle School, Jasper, IN
July 11	<a href="#"><u>#C4: Connect, Collect, Collaborate, and Create</u></a>	Clay Middle School, Carmel, IN
July 23 - 24	<a href="#"><u>e3 Technology Conference Equip - Engage - Excel</u></a>	Warsaw Community High School, Warsaw, IN
July 31	<a href="#"><u>Technovation</u></a>	Penn Harris Madison, Mishawaka, IN
August 1	<a href="#"><u>PowerED Up</u></a>	Perry Central, Leopold, IN

## PRISM Summer Moodle Courses

We are offering six FREE online training courses beginning in July. We offer Professional Growth Plan (PGP) points for each course.

### Basic Moodle for Teachers (10 PGP Points)

July 3 - July 31

### Intermediate Moodle for Teachers (10 PGP Points)

July 4 - August 1

### Advanced Moodle for Teachers (10 PGP Points)

July 5 - August 2

All of the courses are completed online at your-own-pace during your own free time.

If you would like to register for a course, please visit the PRISM website, login, and click the 'Event Registration' link. Use the drop-down menu to select the appropriate course and click the 'Registration Form' button. You will see a complete description of the course. To sign up, scroll down and enter your information. You should receive a confirmation email. If you do not receive a confirmation email, please contact us.

## 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](http://www.rose-prism.org)