

PROFESSIONAL DEVELOPMENT

The Energy Project research team at Seattle Pacific University and FACET Innovations, LLC, is pleased to offer several summer institutes to teachers in 2010. These institutes will strive to:

- Deepen teachers' content knowledge in the context of energy.
- Model effective strategies for learner-centered instruction.
- Expand teachers' awareness of common patterns of student reasoning.
- Identify strategies and resources for eliciting and responding to student ideas.

Institutes are available for elementary and secondary teachers. All institutes are held at Seattle Pacific University .

For more information on the Energy Project, please visit our website:

<http://spu.edu/depts/physics/energyproject.asp>



Seattle Pacific
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Engaging the culture, changing the world®

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ENERGY PROJECT

Professional Development for Teachers
Seattle Pacific University

Elementary Teachers:

Understanding Energy: June 24, 25, 28 - 30

Secondary Teachers:

Energy Two: August 2 - 6, 9 - 13

Energy One: August 9 - 13, 16 - 20



UNDERSTANDING ENERGY

This course, designed for upper elementary teachers, will focus on energy forms and energy transfers and transformations in the context of adopted elementary science units. Participants will personalize their own learning by focusing on their grade level science instructional materials to enhance their own understanding of energy and to extend their learning to build opportunities into their grade level materials for their students to explore ideas about energy and related concepts. Participants will also engage in discussions about relevant educational research on student ideas and the implications of this research on the teaching and learning of the subject.

Individuals who took this course previously are welcome to take it again. The content for these individuals will be designed to build upon their first experience.

This physics course is offered through Seattle Pacific University through the support of a National Science Foundation Discovery Research K-12 grant.

Dates/Times: June 24, 25, 28 - 30, 8:30 AM - 3:30 PM
Stipend: \$750 for successful completion of the course
3 credits or 30 clock hours are available (fee applies)



ENERGY ONE

This course for secondary teachers can be taken either as a standalone course or as the first part of a two-year, coherent, articulated professional development program.

The course will focus on energy transfers and transformations in the context of physics and physical science. Participants will also be immersed in a diagnostic learning environment, explore research on student ideas about energy and related concepts, and discuss the implications of the research on the teaching and learning of the subject.

This physics course is offered by Seattle Pacific University through the support of a National Science Foundation Discovery Research K-12 grant.

Dates/Times: August 9 - 13, 16 - 20, 8:30 AM - 3:30 PM
Stipend: \$1200 for successful completion of the course
5 credits or 50 clock hours are available (fee applies)

ENERGY COHORT

The Energy Cohort is a two-year professional partnership of science teachers and SPU physics education researchers. During this partnership, teachers will examine and refine their own diagnostic practice by participating in professional development, documenting their own classroom practice, and allowing researchers to videotape their classrooms.

Teachers interested in participating in the Energy Cohort should enroll in Energy One and speak with the SPU team about their interest in the cohort.

Teachers who began the Energy Cohort last summer should enroll in Energy Two.

ENERGY TWO

This course for secondary teachers is designed to be taken one year after the completion of Energy One, should participants wish to build upon their first summer's experience.

The format and subject matter of the course will be similar to that of Energy One.

This physics course is offered by Seattle Pacific University through the support of a National Science Foundation Discovery Research K-12 grant.

Dates/Times: August 2 - 6, 9 - 13, 8:30 AM - 3:30 PM
Stipend: \$1200 for successful completion of the course
5 credits or 50 clock hours are available (fee applies)



ENROLL

Contact Julie Glavic to enroll or ask any questions:
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