Energy Education & Technology Center

Hot Water, Warm Homes with Sunlight (Grades 4 – 8+)
Discover the teaching opportunities in energy efficient and environmentally friendly design. Learn about passive construction and build model homes to uncover the effect of hot water heaters, windows, and other elements on home energy consumption and costs. Using a GEMS guide, teachers also learn about growing plants to teach the concepts of a controlled experiment, variable, and outcome. The Green House Effect and climate science is also reviewed. A light dinner will be served and teachers will receive a GEMS guide.

Project Little WET Feet - Workshop for Teachers (PreK– Grade 2)
Dive into the science, math, health and culture of water! Getting Little Feet WET is an engaging lesson plan which utilizes songs, storybooks, and hands-on activities to enrich concepts using multiple learning styles. The activities have been field tested and correlated with educational standards. Our workshop will include how to use this wonderful resource and sample several activities. A light dinner will be served and teachers will receive a Project WET guide.

Solar Schoolhouse Solar Primer – Maker Class (Grades 3 –12+)
Teachers will learn about the science and history of heating, cooling and powering our homes with the sun and how to integrate engaging, hands-on lessons into your classrooms. We’ll also build a mini-solar cooker and a solar powered Whirly-Gig. Integrate solar energy into your classroom and engage students in shaping a clean energy future. Breakfast and lunch will be served and teachers will receive curriculum, classroom materials and solar projects.

State Parks in Your Classroom (Grades K – 12)
The California State Park can make environmental stewardship come alive in your classroom. Hear about opportunities for students to learn science and environmental stewardship through hands on experiences in places where lasting memories are made. Explore the museum and receive a guided tour of the Historic Folsom Powerhouse. A light dinner will be served.

Solar Car Race
High school students design and race model solar cars as part of the Earth Week Festival at Cosumnes River College. SMUD provides solar car kits to participating high schools. Commercially available electric vehicles will also be on display. Visit smud.org/Solar-car-race

7th Annual California Solar Regatta
A STEM-focused, team competition to design, build and race solar-powered boats. California high school and college students are invited to compete in our 7th annual Solar Regatta. This event is open to the public. Visit www.smud.org/Solar-Regatta

Thursday, February 22, 2018
4:30 – 7:30 p.m.
Historic Folsom Powerhouse
9980 Greenback lane, Folsom

Thursday, March 1, 2018
4:30 – 7:30 p.m.
SMUD
6301 S Street, Sacramento

Saturday, March 10, 2018
9 a.m. – 3 p.m.
SMUD
6301 S Street, Sacramento

Wednesday, April 4, 2018
4:30 p.m. – 6:30 p.m.
Historic Folsom Powerhouse
9980 Greenback lane, Folsom

Events

Wednesday, April 18, 2018
10 a.m. – 2 p.m.
Cosumnes River College
8401 Center Pkwy., Sacramento

Saturday, May 4 & 5, 2018
7 a.m. – 4 p.m.
Rancho Seco Recreational Area
14440 Twin Cities Road, Herald

Spring 2018
Professional Development Workshops for Educators

Powering forward. Together.
Teacher Workshops

Tuesday, January 23, 2018
4:30 – 7:30 p.m.
Sacramento Office of Education (SCOE)
David P. Meany Education Center
10474 Mather Blvd, Mather CA

How to Build a Solar Car – Maker Class (Grades 6–12+)
Learn how to teach your students to design, construct and race a solar powered car using recycled materials and solar panels from SMUD. Find out about hosting a solar car race at your school, including race regulations and tips for a fun and engaging event. Teachers will receive a light dinner and a solar car kit. For information on the SMUD Solar Car Race visit smud.org/solar-car-race.

Solar Carnival – Maker Class (Grades 5–12+)
The Solar Carnival is coming to your school! Create a new classroom project using solar cells, motors, fans, buzzers and music using only cardboard, tape and hot glue. Teach your students how to design and construct a mini Solar Carnival consisting of kinetic rides and carnival attractions powered by the sun. In this workshop you will create one “ride” and learn tips on introducing this project to your class. Participants will receive a set of materials, teacher guide and student instructions. For a sneak peak at a carnival: visit solarschoolhouse.org/solarcarnival. A light dinner will be served.

Project WET Workshop for Teachers (Grades 1–12)
Join us for a Project WET (Water Education for Teachers) workshop at the City of Folsom Community Center. This workshop includes activities designed to engage students in learning about the interrelationships between human water use and the dollars and cents of water conservation. Teachers will learn about water conservation for the next generation and experience STEM learning at its best! Breakfast and lunch will be served and teachers will receive a Project Wet Guide.

Invisible Universe (Grades 5–10+)
This GEMS workshop will help you deepen student understanding of the electromagnetic spectrum, enabling students to detect and consider wavelengths other than visible light. Activities feature energy stations and ways to help your students design their own tests to see what material blocks each wavelength. You will learn how to use wavelengths to “see” things we cannot see with our eyes. An additional lesson includes NASA’s 2003 Swift missions which studies the causes of gamma ray bursts. A light dinner will be served and teachers will receive the GEMS guide and lesson plan.

Tuesday, January 30, 2018
4:30 – 7:30 p.m.
Hiram Johnson High School
Little Theater
6879 14th Ave, Sacramento

Tuesday, February 3, 2018
9 a.m. – 3 p.m.
City of Folsom, Community Center
52 Natoma St., Folsom

Saturday, February 3, 2018
5 – 7:30 p.m.
Hiram Johnson High School
Little Theater
6879 14th Ave, Sacramento

Tuesday, February 6, 2018
4:30 – 7:30 p.m.
Powerhouse Science Center
3615 Auburn Blvd., Sacramento

Information   | suzette.bienvenue@smud.org
Register for classes   | smud.org/Education    •    Phone: 916-732-6738
Must show proof of current employment as an educator to participate.