

PROFESSIONAL DEVELOPMENT SERIES FOR EDUCATORS

NO FEE WORKSHOPS

Fall 2009

Celebrate "Back to School" with SMUD at Resource Area for Teaching (RAFT)
Located at 3136 Howard Street, McClellan Park

Obtain GEMS (Great Explorations in Math and Science) curriculum for your classroom.

NEW!
at RAFT

Mystery Festival (Grades 3-12) August 1, 2009, 9:00 a.m. – 12:00 p.m.

Learn how to host a family science night with a CSI theme. With the Mystery Festival, teachers will practice creating learning stations for students to understand the experimentation procedures, logical thinking and real life connections to math and science which are necessary to explore careers in science, technology, engineering and math (STEM).

Environmental Detectives (Grades 6-10) August 8, 2009, 9:00 a.m. – 12:00 p.m.

Teachers will learn how to use a fictional environmental damage scenario to help students understand the interconnectedness of the natural world and the complexity of many environmental problems and energy demands. Using this unit will teach students to perform chemical and biological tests and track changes in predator-prey relationships.

Algebraic Reasoning (Grades 3-5) August 22, 2009, 9:00 a.m. – 12:00 p.m.

Teachers will experience Professor Arbegla's "Fabulous Function Machine" which will build a foundation for algebraic principles. Teachers will learn how to help students gain essential algebraic understanding, learn about equations and apply what they have learned.

Dry Ice Investigations (Grades 5-10) August 29, 2009, 9:00 a.m. – 12:00 p.m.

Teach the skill of inquiry as you cover the essential concepts of matter, gasses, energy and chemistry. You will experience scientific investigation while learning about the theory of matter, phase change and the nature of gasses.

at SMUD →
6301 S Street
Sacramento 95817



September 12 Solar Schoolhouse Solar Primer
(Grades 4-12) 8:30 a.m.— 3:30 p.m.

Tor Allen and Dr. Hal Aronson from the Rahu Institute will show you how to easily integrate solar energy into your existing curriculum in order to teach your students the value of using renewable energy sources. You will receive hands-on classroom activities correlated to the California content standards, a teacher guide, and solar science supplies, as well as first-hand experience building a solar cooker and a solar powered whirligig for your classroom.

September 30 Math Around the World
(Grades 3-12) 4:00—7:00 p.m.

Presenter Daniel Orey, Ph.D., a math professor at CSUS and Fulbright scholar will offer insight on how to embrace the cultural diversity in Sacramento's classrooms. Teachers will learn about the various ways math is experienced around the world as well as how to engage diverse learners. Hands-on stations displaying games from around the world along with maps will associate math, culture and social studies. Daniel will also lead a "math safari" through the SMUD Customer Service Center building as teachers search for math in architecture and as it relates to energy efficiency.

October 3 Electric Circuits

(Grades 4-8) 8:30 a.m.— 3:30 p.m.

Electric Circuits is highly recommended for Grade 4 teachers as a student introduction to electricity and electric circuits. Davin Bowker of the San Juan Unified School District will lead participants through activities in which they will learn presentation strategies; explore, build and compare simple closed, series and parallel circuits; learn about short circuits; investigate the role of batteries, resistance, conductors and insulators; create their own electrical inventions; and learn how to draw schematic diagrams.

October 14 Renewable Energy: Wind

(Grades 6-12) 4:00 p.m. — 7:00 p.m.

Presenter Tor Allen of the Rahu Institute will use wind as an introduction to renewable energy and how this topic can be easily integrated into a math and science curriculum. Teachers will experience the technology used by current wind technology involved in creating utility scale power. Teachers will make and take a wind Turbine kit from the KidWind Institute and also leave with curriculum to introduce wind energy in the classroom.

Register for a workshop
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