

***3rd Annual
UC Merced Science Workshop
in
Yosemite***



The **University of California, Merced** in partnership with the Lawrence Hall of Science and the Yosemite Institute is offering its third annual hands-on-science workshop for **4th-6th grade teachers** in Yosemite from December 2-5, 2001 with a follow up sessions in Merced on January 18th.

Through this program, teachers are exposed to standards based science and math content knowledge as well as the pedagogy required to successfully pass on what they have learned to their students. Teachers spend half of each day participating in hands on science experiments taken from the UC Berkeley Lawrence Hall of Science Great Explorations in Math and Science (GEMS) guides and the other half on guided outdoor science activities designed by trained naturalists from the Yosemite Institute. 4 GEMS curriculum units: *Terrarium Habitats, Aquatic Habitats, Stories in Stone and Investigating Artifacts* will be modeled which meet the following California State Science Standards (an additional 3 units – *Chemical Reactions, Moons of Jupiter* and *Messages from Space* - will be modeled at the follow-up workshop):

4th Grade Science Standards

Life Sciences: 2a+, 2b, 2c+, 3a+, 3b, 3d
Earth Sciences: 4a+, 4b+, 5a+, 5b+, 5c+
Investigation and Experimentation: 6a, 6b, 6c, 6d+, 6e, 6f+

5th Grade Science Standards

Physical Science: 1a, 1f+
Life Sciences: 2a, 2b, 2c+, 3a+, 3b+
Earth Sciences: 3b, 5a, 5b, 5c
Investigation and Experimentation: 6a, 6b, 6c, 6d, 6e, 6f, 6g, 6h, 6i

6th Grade Science Standards

Plate Tectonics and Earth's Structure: 1b, 1d+, 1f
Shaping the Earth's Surface: 2a, 2b, 2d
Ecology: 5a, 5c, 5e
Investigation and Experimentation: 7a, 7b, 7c, 7d, 7e, 7g, 7h+
Resources: 6a, 6c+

Along with the curriculum pieces, we will provide experiences with current best practices and strategies for teaching hands-on science. Time for reflection on pedagogy issues will be included in each day's program. Additionally, there will be free time to explore Yosemite National Park and there will be two exciting night programs sponsored by the Yosemite Institute. Along with the curriculum pieces, experiences with current best practices and strategies for teaching hands-on science and time for reflection on pedagogy issues will be included in each day's program. You will also have free time to explore Yosemite National Park and the opportunity to participate in two exciting night programs sponsored by the Yosemite Institute.

To participate in this program, please complete and ***return the attached registration form by October 15th.***

***Registration for
3rd Annual UC Merced Science Workshop in Yosemite***

To participate in this program, you must meet the following requirements:

- Be a 4th-6th grade teacher in a Central Valley school.
- Be able to provide your own transportation to Yosemite National Park.
- Be able to participate both in the two-day institute in Yosemite (Dec. 2-5, 2001) and the follow up workshops on January 18, 2002 at the Merced Tri-College Center.

Name: _____

Address: _____

Phone Number: _____

E-Mail Address: _____

School: _____

Grade Level: _____

Address: _____

The cost of the workshop, lodging at Curry Village and food are covered through the University of California, Merced. The only expense to the participant and/or school or school district is the release time for the participant and the cost of one set of GEMS guides, approximately \$120, per school. Eisenhower Funding and State Instructional Materials Fund can be used to cover the cost of the GEMS guides.

For more information on the program or the possibility of earning credit for the program, please contact Helen Sullivan at (559) 241-7414.

Please return your registration form to:

Helen Sullivan

University of California, Merced

Division of Professional Studies

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