

## Spring 2013 Teacher Professional Development Opportunities

### Math and Science Pathways Partnership (MSP Project)

#### **Data Detectives: Exploring Climate Change in the Rocky Mountains**

Saturday, January 26, 2013

8:00am – 4:00pm

CSU Natural & Environmental Sciences Bldg.

*Offered for stipend or credit only through Poudre School District, Weld County District 6, and Weld Re-4.*

Is climate change affecting organisms and ecosystems in Colorado? Are all effects of climate change negative, or could some organisms actually benefit from the change? We have a great local resource to help us answer these questions - The Rocky Mountain Biological Laboratory in Crested Butte, Colorado. Using current data on high alpine and migratory species, we will learn how climate change is impacting certain species. Understanding the data will increase your quantitative reasoning and data literacy skills.

To explore biodiversity in soil ecosystems, we will also have a protocol to demonstrate the use of the Burlese Funnel as a simple tool for data collection. This workshop will help you to incorporate current research into your science classroom.

#### **Extending Carbon and Water: Taking it to the Next Level**

Saturday, February 23, 2013

8:00am-4:00pm

CSU Natural & Environmental Sciences Bldg.

*Offered for stipend or credit only through Poudre School District, Weld County District 6, and Weld Re-4.*

Join us for this workshop where we will be gathering observational and numerical data as evidence to support claims about carbon in our atmosphere. We will be joined by a research scientist from the Natural Resource Ecology Lab at CSU who will discuss carbon in soils at the micro level. You will set up an experiment to measure soil respiration as a vehicle for teaching students about the global carbon cycle and soil ecology. We will be joined by a representative from the Fort Collins Utilities Department to learn about mapping a local watershed and use the watershed model to demonstrate how pesticides, herbicides and ash travel through our waterways.

**End-of-Year Celebration (Action Research Sharing)**

Saturday, April 27, 2013

Poudre Learning Center

9:00am – 2:00pm

Share your Action Research project results and modified teaching experiments with fellow MSPers! Lunch provided! All MSP teachers past and present are invited.

**NASA Global Climate Change Education (NASA GCCE Project)**

**RAPID Fire Ecology Workshops**

Based on the NASA GCCE module created by Greeley high school teachers and revised to include lab and field components, the Fire Ecology module is designed to fit into your current curriculum. New in 2013 is the incorporation of data from the High Park Fire and field research techniques used to monitor the recovery. Appropriate for District 6 and Poudre middle and high school teachers.

For **Poudre School and Weld County District** teachers:

Saturday, April 13 and Saturday, May 4, 2013

8:00am-4:00pm and 8:00am-12:00pm

Fort Collins location TBD

**To Register for all PD Opportunities, contact Amanda Morrison at  
[Amanda.j.morrison@colostate.edu](mailto:Amanda.j.morrison@colostate.edu).**