

**IDAHO STATE UNIVERSITY'S
SAWTOOTH SCIENCE INSTITUTE**
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2009 Course Syllabus

CRATERS OF THE MOON NATURAL HISTORY TEACHERS' WORKSHOP- May 8-9, 2009

Workshop description: This workshop is designed for educators who are preparing to come to the Monument for a field trip. Scientists will provide multi-media presentations about the Natural History of the Monument. There will be field trips on both Friday and Saturday visiting a variety of sites of interest within the Monument (about half of each day will be spent hiking). Teachers will learn about the geology, plants, animals, and ecology of the Monument firsthand by studying the highlights of the Park, and visiting many sites that they can explore with their students.

Instructor: Doug Owen received degrees in geology and education from Kent State University, taught junior high science for 8 years, was a geologist with the U.S. Geological Survey for 16 years, and since 1996 has served as lead interpreter and park geologist at Craters of the Moon National Monument and Preserve. Doug will be joined by other instructors from the National Park Service, Bureau of Land Management, and Idaho Fish & Game.

Bring:

- * Mountain weather clothing layers, windbreaker & raingear
- * Comfortable and sturdy walking shoes or hiking boots
- * Hand lens, camera, binoculars - optional but suggested
- * Sunscreen, hat, hiking staff- recommended
- * Lunch, snacks, water
- * Notebook, pen/pencil
- * Backpack or fanny pack
- * \$8 for Park Entrance Fee (Because of using park instructors SSI registration fee has already been reduced by \$20)

Suggested references (optional):

Volcanoes in America's National Parks by Robert and Barbara Decker (W.W. Norton & Co.)
Tectonic and Magmatic Evolution of the Snake River Plain Volcanic Province, Ed. By Bonnicksen, White, and McCurry (Bulletin 30, Idaho Geological Survey)
Parks and Plates-The Geology of our National Parks, Monuments, and Seashores by Lillie (W.W. Norton and Company)
Plants of the Rocky Mountains by Kershaw, MacKinnon, and Pojar (Lone Pine, 1998)

Mammals of the Rocky Mountains by Fisher, Pattie, and Hartson (Lone Pine, 2000)
Birds of Idaho by Tekiela (Adventure Publications, 2003)

Please print out Broken Top Loop Teachers' Guide and bring with you:

Available on park website (www.nps.gov/crmo) click on "For Teachers" then "Curriculum Materials".

Grades:

TEACHERS: If you are taking this course for credit...This course, section 35, is offered for undergraduate credit, Biol. 498P, index number 310023; and is considered a SUMMER course. To receive credit, you will need to indicate that on your registration form, pay the recording fee (additional to the workshop fee), and prepare a short assignment that demonstrates the use of the professional development workshop to your continuing education. This assignment is **due two weeks** after the workshop. Send it to the Sawtooth Science Institute, P.O. Box 2167, Sun Valley, Idaho (83353) or email: gertchri@isu.edu. Questions? Email or 208-788-9686. It is your responsibility to make sure the assignment is received.

Our goal in this workshop is to communicate our passion for Idaho's wonderful natural resources and to provide you with new educational resources to create that passion in your students. It is our hope that the new information will enable you to incorporate the materials and new learning into your classroom. The required assignment may be chosen from the following alternatives:

- Write a lesson plan or a unit for your classroom showing how the new information or materials will be used and how it meets your district or state standards
- Send in a COPY of your field notes, illustrations, photographs, and maps.
- Obtain the *NatureMapping* data collection sheet from the SSI web site at <http://imnh.isu.edu/ssi~naturemapping>, fill it in complete with location (lat & long is great), date, habitat description and species common and scientific names (genus and species) and send it to SSI. You may also want to refer to the Digital Atlas of Idaho to see more information about the species you have observed: <http://imnh.isu.edu/digitalatlas>.
- If you don't see yourself using the information at this time, please hypothesize a setting where you could see yourself using the information. Perhaps it would be possible to work with another teacher in your school to use the new information.

It is most important that you prepare a lesson that is USEFUL TO YOU! Have another idea? Let's talk about it!

Grades (satisfactory, unsatisfactory, or incomplete) will be available for this course in September, 2009. For information or transcripts, please call 282-3336. SSI can prepare an acknowledgement of your successful completion of the course -- just ask. We're happy to help.

Course Schedule

Friday, May 8 (Meet at the Craters of the Moon Visitor Center)

8:00-11:00 AM Introductions, DVD's and Power Point presentations on the Geology of Craters of the Moon, with a break in the middle

11:00-12:00 Guest speaker from Idaho Fish and Game on Sage Grouse

12:00-12:30 Lunch and question answer period

12:30-4:30 PM Field Trips

You are on your own for the evening. Lodging is available in Arco: DK Motel: 527-8282; Lost River Motel: 527-3600; or the Arco Inn: 527-3100. There are two RV Parks: Mountain View: 527-3707; and the Landing Zone: 527-8513. Camping in the Park is on first come, first serve basis, but is not a problem in early May (only restroom available in early May will be a vault toilet). Bring water jugs, for the water will not be on yet in the campground. For more info, call the Park at 527-3257.

Saturday, May 9 (Meet at Visitor Center)

8:00-8:30 AM Tour visitor center

8:30-10:00 Wildlife of Craters of the Moon

10:00-10:15 Break

10:15-11:15 Cultural History of Craters of the Moon

11:15-12:00 Plants of Craters of the Moon

12:00-12:30 Lunch

12:30-4:30 Field Trips

12/1/08 cg/do