



SUMMER/FALL 2008

GREENLINES

A publication of the Environmental Education Outreach Program
at Columbia Springs

In this Issue:

1. What is the EEO program? (Page 2)
2. Teacher Resources (Page 2)
3. Upcoming Fall Teacher Workshops (Page 3-4)
4. Educational Trunks available for loan (Page 5)
5. Columbia River Watershed Festival (Page 5)
6. Classroom Presentations (Page 6)
7. Community Calendar (Page 7)

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What is the EEO Program?

The Environmental Education Outreach Program is the new name (January 2008) for the Environmental Information Cooperative (EIC). The EIC joined with Columbia Springs in 2007 and the name change came this year.

The program is much the same. The purpose is to provide quality environmental education workshops, materials and resources for teachers, assist with planning and development of community programs and in-class school presentations.



Beneficial Insects (June '08)



Pacific NW Forest Regeneration (May '08)

Last November, Carrie Kraten (EIC Director) left the EIC and a decision was made not to replace her. Amy Carpenter now handles the tasks for the newly named EEO program. The EEO program is one of many programs under the administration of Columbia Springs and receives funding from Clark County Public Works (Solid Waste and Clean Water) and the City of Vancouver.

This newsletter will be available for reading and downloading twice per year, at the beginning of each school year and again in December/January. Please let me know if there are particular topics that you are interested in and I will try to accommodate them. Also, please share the newsletter with your fellow educators as I always wish to expand my program and get more teachers involved with environmental education.

Teacher Resources

Great Books:

- Last Child in the Woods by Richard Louv
- Nature and Other Writings by Ralph Waldo Emerson and Peter Turner
- Sharing Nature with Children by Joseph Bharat Cornell
- Botany of Desire by Michael Pollen

Great Websites:

- www.kidsplanet.org
- www.ecokidsonline.com
- www.ibuydifferent.org
- www.epa.gov
- www.realclimate.org
- <http://www.mnh.si.edu>

Upcoming Fall/Winter Teacher Workshops

Several teacher workshops are scheduled for this fall; this is a great opportunity to learn about many different environmental education topics as well as current happenings with environmental education efforts in Clark County. All workshops cost just \$10 and include light snacks and handouts. OSPI clock hours are available to teachers for attending. Here is the list of workshops available:

August

Project WILD

August 21, 2008

8:30 to 3:30

The *Project WILD K-12 Curriculum and Activity Guide* focuses on wildlife and habitat. Participants will learn how to incorporate the lessons included in this nationally recognized curriculum with their students. Come and learn how to "Get Wild with your students."

Columbia Springs

6.5 Clock Hours

September

Creatures of the Night: Owls

September 10, 2008

4:00 to 8:00 pm

Join us at Ridgefield National Wildlife Refuge for an evening of learning all about these silent night flyers. Owls play a key role in rodent management and are susceptible to pesticide poisoning. Lots of owl related lessons and science will be shared and hopefully we will see some of these majestic birds in flight.

Ridgefield NWR

4 Clock Hours

October

Birds Go To School

October 1, 2008

8:30- 4:00 pm

This workshop is an opportunity to learn about components of avian physiology and behavior, their preferred habitats and current research. We will apply this knowledge and related skills to field observations, habitat protection, restoration and enhancement specific to schools and neighborhoods.

Ridgefield NWR and Community Center

7 Clock Hours

Northwest Weather Excitement for Teachers

October 8, 2008

4:00 to 7:00 pm

This class will focus both on background content understanding and class applications of El Nino/La Nina and Northwest Hazardous Weather. Materials are provided by the AMS (American Meteorological Society) and teachers will leave with a better understanding of these weather phenomena. Teachers will also have classroom ideas and applications to use in their teaching of weather. In addition, air pollution and the effects of contaminants in the atmosphere will be addressed.

Columbia Springs- SWIFT Classroom

3 Clock Hours

BATS- Friends not Foes

October 9, 2008

4:00-8:00 pm

Did you know that there are over 1,100 different species of bat and that the Pacific Northwest is home to 15 different species? These flying mammals are nature's best pest control. This workshop will highlight the importance of bats to many Pacific Northwest ecosystems and use many of the activities in the Bats education trunk.

Columbia Springs- SWIFT Classroom

4 Clock Hours

November

Save Organic Scraps (SOS) & Vermicomposting

November 6, 2008

9 to 3:30

Composting with food waste featuring Clark County's Save Organic Scraps program will be discussed in detail and activities from the recently developed curricula will be shared in this workshop. In addition, vermicomposting

(composting with worms) will be integrated and the opportunity to build your own worm bin will be available to any educator who attends.

TBD

6 Clock Hours

4 R's: Reduce, Reuse, Recycle & Recover

November 20, 2009

9 to 3:30

Come and learn how to save landfill space by reducing the amount of solid waste materials (i.e. TRASH) that you put into the "waste stream". You will learn about Clark County's recycling program as well as how to go above and beyond recycling all in fun and cross-curricular ways that you can pass along to your students.

TBD

6 Clock Hours

December

Environmental Education in Children's Literature

December 11, 2008

8:30 to 3:30 pm

Rachael Carson, Aldo Leopold, Shel Silverstein, and Carl Hiassen are authors that are widely known in environmental education arenas but there are many, many more. Whatever grade level you teach, this workshop will highlight chapter books, picture books, science-based and other interdisciplinary topics that will enhance your lessons or help you to create new lessons.

USFWS Columbia River Fisheries Program Office

6.5 Clock Hours

NOTES: Substitute Reimbursements may be available for teachers who request funds prior to the workshop, please inquire about funds at the time of registration. Workshop space is somewhat limited, so please register as soon as possible.



Jill Sughrue speaks about Climate Change.



Teachers listen in at "Pacific NW Forest Regeneration at Lewisville Park"



Toxics & Native Fish of the Columbia River



Project W.E.T participation

[Educational Trunks Available for Loan](#)

The EEO program has available several education trunks that are filled with lessons, games, manipulatives, books and more. The trunks may be checked out by any teacher/educator for a period of up to one month. Teachers are responsible for transporting and making sure all items are returned. Below is a list of resource trunks available, please call or email Amy to reserved the trunk of your choice. Reservations are first come, first serve.

TRUNKS:

- Salmon
- Audubon Birds Go To School
- Lewis & Clark: Adventures in History
- Bats! (this trunk is located at the US Fish & Wildlife office)

[Columbia River Watershed Festival](#)

The Columbia River Watershed Festival will take place September 17-19, 2008 at Captain William Clark Park in Washougal. Local schools in Washougal, Camas and portions of Evergreen School District were invited and filled up all available spots.

This year's focus will be the Columbia River including macroinvertebrates, salmon and other fish, pollution and history. Will Hornyak and Ed Edmo will tell the students great stories about nature, water and the river.

Last year, the committee that organizes the festival elected to move the festival around the county and invited those schools nearest the site to the festival. Next year we anticipate moving the festival closer to Vancouver, so if you are a teacher in the Vancouver or Evergreen School Districts be ready to apply. Applications for the 2009 festival will be sent out to selected schools in March/April.

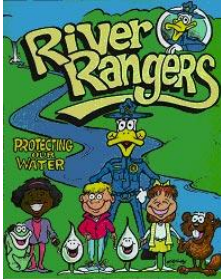
The Columbia River Watershed festival is sponsored by Clark County, City of Vancouver, Clark Public Utilities, US Fish & Wildlife Service and Columbia Springs.



Students participating in last year's festival at Lewisville Park.

Classroom Presentations

River Rangers is an award winning water quality education program that has been used successfully in Clark County schools since 1992. Trained volunteers and professionals provide interactive classroom presentations using 18 large colorful posters:



The water cycle
How we use water
Water conservation
Surface water runoff problems
Groundwater
Wastewater treatment
Household hazardous products (use, storage, disposal)

A take-home activity booklet and stickers for each student are included as well as a teacher information and resource packet.

Group Size	1-2 classrooms per presentation
Duration	Approximately 45 minutes, but presentations can be modified to accommodate 30-60 minute time periods.
Cost	Free
Sponsored by	Clark County Clean Water Program and the Environmental Information Cooperative

This classroom presentation is designed to support **Washington State Essential Learning Requirements** and can help students meet the following benchmarks:

Communication

The student will use language to interact effectively and responsibly with others. (3.1)

Science

The student will recognize the components, structure, and organization of systems and the interconnections within and among them. (1.2)

The student will understand how interactions within and among systems cause changes in matter and energy. (1.3)

Geography

The student will identify and examine people's interaction with and impact on the environment. (3.1)

Community Calendar

If you want more information about any of the events posted, please contact the person or website listed with the event.

<u>DATE</u>	<u>EVENT</u>	<u>CONTACT</u>	<u>WEBSITE/EMAIL</u>
<u>August</u>			
11-15 th 21 st	"Getting' Fishy" Columbia Springs Summer Camp Project Wild Teacher Workshop	Tracy Sand Amy Carpenter	tsand@columbiasprings.org acarpenter@columbiasprings.org
<u>September</u>			
1 st 10 th 17-19 th 27 th	Labor Day – HOLIDAY Owls Teacher Workshop Columbia River Watershed Festival Columbia Springs Education Tour	 Amy Carpenter Amy Carpenter Gala Miller	 acarpenter@columbiasprings.org acarpenter@columbiasprings.org gmliller@columbiasprings.org
<u>October</u>			
1 st 7 th 8 th 9 th 10-12	Birds Go To School Teacher Workshop Salmon Summit Northwest Weather Excitement for Teachers Workshop Bats Teachers Workshop Ridgefield's BirdFest	Amy Carpenter Tracy Sand Amy Carpenter Amy Carpenter	acarpenter@columbiasprings.org tsand@columbiasprings.org acarpenter@columbiasprings.org acarpenter@columbiasprings.org www.ridgefieldfriends.org
<u>November</u>			
5 th 6 th 11-15 th 13-15 th 20 th 27-28 th	School Gardens Program Teacher Workshop Save Organic Scraps/Vermicomposting Teacher Workshop National Association for Interpreters (NAI) Conference Environmental Educators Association of Wash. 4 R's: Reduce, Reuse, Recycle & Recover Teacher Workshop Thanksgiving Holiday	 Sarah Kleven Amy Carpenter Amy Carpenter	 skleven@columbiaspring.org acarpenter@columbiasprings.org http://interpnet.com/workshop/ http://eeaw.org/conference acarpenter@columbiasprings.org
<u>December</u>			
11 th 25 th	Environmental Education & Literature Teacher Workshop Christmas	Amy Carpenter	acarpenter@columbiasprings.org
<u>January</u>			
1 st 19 th	New Year's Day- HOLIDAY Martin Luther King Jr. Day- HOLIDAY		

****NOTE:** The listing below does not represent every event that is scheduled, but rather those events that were passed along to me for posting, if you would like your event posted (January – August 2009 events) please send me your information.