

MAY EBLAST 2007

Hi Everyone: Welcome to our May. BaP eblast! If you think you might be leaving your school next year, we would appreciate it if you would find someone in your school who might be willing to share these eblasts. Please send Walt (walter@montana.com) the name of the school, the person's name and their email address and we'll take it from there. We don't want to lose your school from this system. Thanks for doing this, and thanks for all your service in helping to get teachers of science and math this information. We appreciate that you are sharing this information with other teachers of science and math in your building, and as always, be sure to drop us an email if we can ever help you.

Upcoming events in Montana Math and Science include:??

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May 5 – Project WET Workshop – Bozeman
May 5 – Missouri River Watershed Workshop – Fort Benton
May 7 – 8 – Water Summit Workshop – Boone & Crockett Ranch
May 9 – Advanced Water Training – Bone & Crockett Ranch
May 11 – Last day to submit an application to present at MEA-MFT
June 10 – 15 – Peaks & Potential – Bozeman, MT.
June 11 – 14 – Moving with Skimmers, Gliders and Gears Workshop – Canyon Ferry
June 18 – 19 – Montana Gifted and Talented Workshop. – MSU- Billings
August 8 – 10 – Chemistry Workshop – Canyon Ferry
August 13 – 15 – Watershed Tour – Boone & Crockett Ranch

In this issue you'll find:

1. Gifted and Talented Summer Institute
2. Montana Conversation Corps Program
3. Have Your Students Participate in Cedar Camp and/or Camp Night Hawk
4. Science Publishes Interactive Poster and High School Lesson Plan in Conjunction With Special Issue on Rhesus Macaque Genome Find
5. Check out a Cool Microbe Movie!
6. Design a Lesson Around Global Warming
7. Earth Science by Design Leadership Workshop
8. Encourage your Students to Attend "Peaks & Potential."
9. Present at the Denver Regional NSTA Conference
10. Coaches Clinic for Science Olympiad
11. Water Science Schedule for Spring and Summer

1. Gifted and Talented Summer Institute

The Montana Association of Gifted and Talented Education's Summer Institute will be held at MSU-Billings on June 18-19. They will be emphasizing math and science. Ed Zacarro and Glenn Govertsen will be the national presenters. There will be 4-6 additional local presenters. Registration is \$125 and 1 college credit is available for an additional \$125. The registration form and additional information can be obtained by accessing <http://www.mtagate.org/> and clicking on the conference link.

2. Montana Conversation Corps Program

Workshop/Camp Title: Montana Conversation Corps – Montana YES (Youth Engaged in Service) program
Summary of what the camp/workshop offers? MontanaYES is a 5-week summer service adventure for Montana teens that engages them in rewarding and fun conservation projects (building trails, restoring wildlife habitat, helping

nonprofit organizations) and environmental education. There is no cost and the participants may earn a \$250 Service Award.?? Target Audience and age group the course content is directed to: Ages 14 to 18. The MontanaYES Youth Corps is for teens, ages 14 to 16. Participants must be Montana residents. The MontanaYES Expedition is a bolder commitment for youth, ages 16 to 18. We're looking for motivated youth with a desire to give back to their community and environment, a willingness to work hard, and a desire to learn and serve as part of a team. ??Prerequisites: Desire to live and work outside and learn as part of a small crew of 8.??Level of physical activity required: Strenuous ??Location: Billings, Laurel, Big Timber, Livingston, Bozeman, Butte, Helena, Great Falls, Kalispell, Missoula, Libby ??Dates: Two 5-week sessions are offered starting in early and mid summer. ??Associated costs: There is no cost to participants, and the youth will receive a \$250 Service Award upon completion of the program. Youth must provide their own work gloves, boots, and personal camping gear (sleeping bag, pack, pad, etc.). MCC provides all other safety equipment and group camping gear?? the workshop/camp offered for academic credit and/or OPI Renewal credits? No?? Application deadline: ASAP up to mid-June, 2007??Contact person (name, phone, e-mail, website): Call your nearest Montana Conservation Corps office:

Billings Office: Tauzha Ruckstad @ 651-1311, mccbillings@mtcorps.org

Bozeman Office: Tim Dwyer @ 587-4475, tim@mtcorps.org

Great Falls Office: Jill Olmstead @ 452-1441, mccgreatfalls@mtcorps.org

Helena Office: Ory Sparks @ 495-9214, mcchelena@mtcorps.org

Kalispell Office: Cliff Kipp @ 755-3619, mcckalispell@mtcorps.org

Missoula Office: Bobby Grillo @ 728-2720, bgrillo@mtcorps.org

Visit Montana Conservation Corps online at www.mtcorps.org

3. Have Your Students Participate in Cedar Camp and/or Camp Night Hawk

Summary of what the camp/workshop offers? - From exploring a nearby stream bank or wetland to playing games, singing songs, building shelters, learning outdoor skills, and telling stories around the fire, campers will come home tired, happy, and filled with the inspiration only a good day in the woods can provide! Camp starts at 9am and ends at 5pm on Monday and Tuesday, and ends with a family campfire celebration on Wednesday evening. On site camping available for out of town campers. Partial scholarships available. Located only 45 minutes from Glacier National Park!

Target Audience and age group the course content is directed to: Youth ages 6-9

Prerequisites: N/A; Level of physical activity required: Moderate; Location: Bigfork, MT (site directions provided upon registration); Dates: August 6-8; Associated costs: \$135 (10% sibling discount); Application deadline: Open until filled;

Contact person (name, phone, e-mail, website): Brett Holmquist, 406 837 7279, brett@ravenwoodnsc.org,

<http://www.ravenwoodnsc.org>

Workshop/Camp Title: Camp Night Hawk

Summary of what the camp/workshop offers? - From exploring a nearby stream bank or wetland to playing games, singing songs, building shelters, learning outdoor skills, and telling stories around the fire, campers will come home tired, happy, and filled with the inspiration only a good day in the woods can provide! Camp starts at 9am and ends at 5pm Tuesday through Thursday, and ends with an overnight campout on Friday night. Partial scholarships available. On site camping available for out of town campers. Located only 45 minutes from Glacier National Park!

Target Audience and age group the course content is directed to: Youth ages 10-12;

Prerequisites: N/A; Level of physical activity required: Moderate; Location: Bigfork, MT (site directions provided upon registration); Dates: August 21-25;

Associated costs: \$215 (10% sibling discount); Application deadline: Open until filled;

Contact person (name, phone, e-mail, website): Brett Holmquist, 406 837 7279, brett@ravenwoodnsc.org,

<http://www.ravenwoodnsc.org>

4. Science Publishes Interactive Poster and High School Lesson ?Plan in Conjunction With Special Issue on Rhesus Macaque Genome Findings

?Thanks again Sharla for this information. Science is publishing a free online educational supplement geared toward high school biology students in conjunction with its April 13 special issue on the rhesus macaque genome. Science editors developed an online interactive poster that ?uses text, images, video clips, and interviews to teach readers and students about the importance of the rhesus macaque and of comparative genomics in areas ranging from

human genetics to primate evolution and biology. "The Macaque Genome" interactive poster can be found at www.sciencemag.org/sciext/macaqueposter/.

In addition to the online poster, editors worked with scientists and teachers to create a lesson plan for high school biology teachers that includes teacher background information and a student worksheet. This educational resource, called "The Macaque Genome: Lessons from Comparative Genomics," is available to the public at www.sciencemag.org/sciext/macaque/. This Web page will also provide access to the special issue's five research reports and two news articles.

Print posters are available from Science upon request, while supplies last. To receive a copy, contact genomeposter@aaas.org or call (202) 326-6557.

5. Check out a Cool Microbe Movie!

Sometimes Microbes are challenging topics to come up with information about. Here is a link to those microbe movies.

<http://www.microbeworld.org/look/videopodcast.aspx>

"Dangerous Friends" is the one about hanta virus and the Native American aspect.

6. Design a Lesson Around Global Warming

<http://www.breathingearth.net/>

Design instruction around the real-time births, deaths, and carbon dioxide emissions from countries across the globe with the above link to an interactive map.

7. Earth Science by Design Leadership Workshop

This workshop is for school leaders, college faculty, and staff developers. Choose from two locations and times: June 20-22, Cambridge, Massachusetts; June 25-27, Portland, ME. In these workshops you learn how the Earth Science by Design professional development program brings "Understanding by Design" to Earth Science. See how ESBD helps teachers enhance their content and pedagogical knowledge and how to facilitate this experience with teachers. Analyze examples of ESBD science units which teachers have created and hear how the ESBD approach has affected teachers. Work with staff developers who have conducted the ESBD program with teachers. Receive all materials needed to offer the program, including a copy of the ESBD Handbook for Professional Developers and access to the ESBD Web Site.

For more information and to register, visit: <http://www.esbd.org/>

?Earth Science by Design(ESBD) is a year-long program of professional development which may be offered by a school, district, or other organization to middle and high school Earth science teachers. Funded by the National Science Foundation, ESBD is a field-tested, effective way to develop the pedagogical and content abilities of teachers.

8. Encourage your Students to Attend "Peaks & Potential."

This summer experience is for students entering 5th, 6th or 7th grade. They spend a week at Montana State Universities campus and take workshops on such areas as Lego Robotics, Astrobiology, Solar Cooking, etc. You don't need to attend as the teacher, but if you make this available to your students and their parents, you might be surprised how many of your students end up attending. You might consider making up a "Summer Opportunities" sheet that you pass out to your students. Get more information on this opportunity by going to

<http://eu.montana.edu/peaks>

9. Present at the Denver Regional NSTA Conference

Have you wanted to present at a national conference, but you didn't want to give an hour long presentation, and you didn't want to fill out the paperwork. This is your chance in a middle level "share-a-thon." Susan German is looking for people who would do a 3 – 5 minute overview of a middle school science lesson, then they put any hand outs' you might have on a CD which is distributed to the participants. This is an excellent opportunity to present and just drop an email to Susan at SGerman@hallsville.org

10. Coaches Clinic for Science Olympiad.

The NorCal Science Olympiad and Florida Science Olympiad are pleased to announce a partnership to host the National Coaches Conference Series.

In the tradition of the Hammond Coaches Clinic, two workshops series are available for teachers and parents who want to prepare their teams for Science Olympiad:

National Coaches Conference – WEST October 5-6, 2007 – San Francisco, California

National Coaches Conference – EAST October 19-20, 2007 – Orlando, Florida

For a cost of \$125.00 per person, participants will receive event preparation materials, instruction from top judges, and lots of information on how to set and organize their teams. All 23 events for each division will be presented in breakout sessions that will be hands-on and interactive. A great way to prepare for the 2008 regional, state, and national competitions!

For more information or to register for either National Coaches Conference EAST or WEST, go to

www.floridascienceolympiad.org

11. Water Science Schedule for Spring and Summer

May 5

Project WET / Webfoot workshop for formal and non-formal educators. Dive in and get to know your local watershed. Walk away with fantastic water education curriculum. Location: Fish Technology Center, Bozeman. Time: 9-4pm. Six OPI credits offered. For details, contact: Krista Wright (Education Coordinator at Montana Outdoor Science School). phone: 582-0526

May 5

Discover the Scientific and Cultural Aspects of the Missouri River Watershed. Location: Agriculture Museum in Fort Benton. Walk away with: fabulous science and social studies curriculum for your classroom, a better understanding of the Native American Tribes along the Missouri River and a deeper appreciation of watershed science. Five OPI credits offered.

Time: 9-2pm. For details, contact: Kelly Hayden (Education Outreach Coordinator, Montana Watercourse). phone: 994-6425

May 7 and 8

Water Summit for Middle School and High School Teachers and Students. Location: Boone & Crockett Theodore Roosevelt Ranch (near Dupuyer). For information, contact: Ted Sedell (the Volunteer Monitoring Coordinator at Montana Watercourse). OPI credit or graduate credit offered. Learn more by contacting Ted Sedell at Montana Watercourse: 994-6317

May 9 - Advanced Water Monitoring Training

Location: Boone & Crockett Club near Dupuyer. This all day training is offered to water monitors who wish to take their program to the next level. Learn more by contacting Ted Sedell at Montana Watercourse: 994-6317

AUGUST 13, 14,15 - 2007

UPPER MARIAS WATERSHED TOUR FOR EDUCATORS:

USING LOCAL INSIGHTS OF THE MARIAS TO CONNECT STUDENTS AND TEACHERS TO THEIR WATERSHED

Spend three days exploring the historical, cultural, and scientific aspects of the river and its tributaries by foot, by van and by raft. Based out of the Boone and Crockett Club: the course will begin at the headwaters of the Marias and end at Williamson Park in Shelby. Through a lively mix of field tours, discussions, and hands-on activities; explore geography, the science of a watershed, nutrients, historical settlement and land use. The watershed tour will provide background information, professional contacts, and activity suggestions to equip teachers to share what they learn about their watersheds and rivers with their students. These courses are open to classroom teachers and non-formal educators and are most appropriate for teachers in grades 5 and up.

COST OPTIONS: 1. \$240 (includes grad credit (\$120), lodging, food and materials)

2. \$80 (includes lodging, food and materials) 3. \$60 (includes food and materials)

CREDIT OPTIONS:

1) One Graduate Credit from MSU Northern

Additional Cost: \$120, payable to MSU-Northern on first day of tour. Total Cost: \$120.

2) 22 OPI Renewal Credits for certified teachers

FOR MORE INFORMATION AND TO REGISTER, CONTACT:

Kelly Hayden

Education Outreach Coordinator

Montana Watercourse

(406) 994-6425

mtwatercourse@montana.edu REGISTRATION DEADLINE: JULY 13