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2. Travel grants for students working on wetlands. Apply by December 18.
3. Conservation funding opportunities. Applications due in January or February.

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2. Join the UM Carolers!
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**GOOD NEWS ITEM**
1. The Washington Post reports greenhouse gas pollution dropped this year! Read the full article online.

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**AROUND EVST**
1. **EVST Defense season begins! Support your fellow students and friends!**
   Jane Phillips presents on “Rural Food Procurement Strategies and Attitudes toward Food Sourcing: A Case Study in Boulder Town, Utah.”
   WHEN: Thursday, December 10, at 3:45 p.m.
   WHERE: UM FLAT.

   Kelsey Patterson presents “Ecological Restoration in Wilderness: What the Fish is Going On?”
   WHEN: Friday, December 11, at 9:10 a.m.
   WHERE: LA 335.

   WHEN: Friday, December 11, at 2:00 p.m.
   WHERE: JRH 204.

   Emily Withnall presents “Fracture.”
   WHEN: Monday, December 14, at noon.
   WHERE: UM FLAT.

2. **Congrats to EVST Grad student Chandra Brown on article published in Billings Gazette.**
“Slowdown in the Bakken region not completely unwelcome” by Chandra Brown appeared in Sunday’s Billings Gazette. Read the full article online. Congratulations, Chandra!

3. **Student presentations in Applied Ecology. December 8, 10, and 14.**
   Everyone is invited to hear these presentations. The class meets in Rankin, room 204, on the dates and times below:
   - December 8 (Tuesday), at 12:40 p.m.
     - Lucy Lieberman & Nicola Preston – Permaculture Design for Montana
   - December 10 (Thursday), at 12:40 p.m.
     - Charles Hayes – What if wilderness is not essential to economically important ecosystem services?
     - Garrett McAllister – Use of native plants in restoration of lands disturbed by transportation Project. How have requirements and practices changed on federal projects?
   - December 14 (Monday) from 3:20-5:20 p.m.
     - Erinkate Springer, Tabby Espinoza & Lindsay Wancour – Biomimicry: use of nature’s models to solve human problems.

4. **Watershed Ecology class presentations. All are welcome. December 10 and 15.**
   The Watershed Ecology class will provide presentations on the following topics in Social Science 258. All welcome. There will be snacks.
   - December 10 (Thursday) 9:40—11 a.m.
     - Jack Landers – Intentional Isolation with Fish Migration Barriers as a Conservation Tool for Westslope Cutthroat Trout.
     - Lindsay Wancour – Cost Effectiveness of Beaver Dam Analogues in Reclaiming California Gulch, near Anaconda, Montana.
   - December 15 (Tuesday) 10 a.m. to Noon
     - Lexie Yoder – Environmental Fate of Pharmaceuticals & Personal Care Products in municipal wastewater effluent used for irrigation.

**FEATURED EVENT** (See www.umt.edu/conservationcalendar for more)

1. **Screening of “This Changes Everything” on campus. December 9.**
   Reinvest MT will be hosting a screening of Naomi Klein’s documentary, “This Changes Everything.” If you missed it earlier this semester or want to see it again, here is your chance!
   WHEN: Wednesday, December 9, at 7 p.m.
   WHERE: UC, room 332.

**VOLUNTEER OPPORTUNITIES**

1. **Public hearing on farmland protections in subdivision regulations. December 8.**
The Missoula Board of County Commissioners will hold a public hearing on farmland protections in subdivision regulations. CFAC urges Missoulians to attend the meeting and ask the Commissioners to vote yes on the Planning Board’s recommendations.

WHEN: Tuesday, December 8, from 6 – 8 p.m.
WHERE: City Council Chambers, 140 W. Pine.

2. Eagle capture and banding at MPG Ranch. December 10, 18, and 22.
   Join MPG Ranch and Raptor View Research Institute for this unique opportunity. Volunteers will observe the live capture of bald and golden eagles and get to participate in the banding process. This event is based out of a ranch house, so participants can stay warm. We will live-stream video from the capture site to a large screen at the house so visitors can observe the trapping process, while remaining at a safe distance. Spotting scopes will be available for an alternate view from the outside deck overlooking the capture site. Researchers will bring the eagles to the house for processing. The day will include an overview of the research to date, including migratory flight data showing the extent of the eagles’ range into Alaska. This event is limited to 6 participants.
   Email Joshua Lisbon to register or with any questions or call (406) 396-6285.
   WHEN: Thursday, December 10, from 11 a.m. – 3 p.m.
   Friday, December 18, from 11 a.m. – 3 p.m.
   Tuesday, December 22, from 11 a.m. – 3 p.m.

EDUCATIONAL OPPORTUNITIES

1. Frenchtown pulp mill Superfund meeting. December 8.
   The Missoula Water Quality Advisory Council meets with the EPA to discuss the Frenchtown pulp mill Superfund site remedial investigation. The public is welcome.
   WHEN: Tuesday, December 8, from 7 – 9 p.m.
   WHERE: Missoula Health Department, second floor conference room, 301 W. Alder.

   This talk will be given by one of the authors of the IPCC report. The speaker, Dr. Michael E. Mann, is Distinguished Professor of Meteorology at Penn State University, with joint appointments in the Department of Geosciences and the Earth and Environmental Systems Institute (EESI). He is also director of the Penn State Earth System Science Center (ESSC). Dr. Mann was a Lead Author on the Observed Climate Variability and Change chapter of the Intergovernmental Panel on Climate Change (IPCC) Third Scientific Assessment Report in 2001 and was organizing committee chair for the National Academy of Sciences Frontiers of Science in 2003.
   WHEN: Wednesday, December 9 at 12:15 p.m.
   WHERE: Online – this is a live screencast, part of the Rough Cut Science Series.
   LINK: Rough Cut Science

   Ranalda Tsosie, a Navajo tribal member working on her PhD in Interdisciplinary Studies, will give a talk on her work, “Addressing Uranium contamination of drinking water on the Navajo Reservation.” Everyone is welcome.
   WHEN: Wednesday, December 9 at 2 p.m.
4. **Missoula Community Access Television Tour and Training. December 9.**
   MCAT will conduct its monthly training and tour on Wednesday, December 9, at 5:30 p.m. The tour is free and open to the public. For more information, contact Christian at 542-6228. MCAT films many events for local broadcast and also archives copies, if requested. EVST alum Ron Scholl is one of their filmmakers. For more information, email Joel Baird.

5. **Winter Bike Riding Workshop. December 9.**
   Women Bike Missoula will host a Winter Riding Workshop.
   WHEN: Wednesday, December 9, at 7 p.m.
   WHERE: Adventure Cycling Association's conference room, 150 E. Pine St.

6. **Author reads from “Restoring the Shining Waters” about Milltown. December 10.**
   David Brooks will read from his new book *Restoring the Shining Waters: Superfund Success at Milltown, Montana*. Part of the proceeds from the evening's book sales will be donated to the Clark Fork Coalition.
   WHEN: Thursday, December 10, from 5:30 - 7:30 p.m.
   WHERE: Fact & Fiction, 220 N. Higgins.

7. **Biodiversity in Borneo: highlights and challenges. December 14.**
   At the December meeting of Five Valleys Audubon, be prepared to encounter the amazing biodiversity of Borneo. Andy Boyce, a fourth-year PhD student at the University of Montana, will discuss his work researching tropical birds, as well as highlight some of Borneo's mammalian species.
   WHEN: Monday, December 14, at 7:30 p.m.
   WHERE: Gallagher Business Building, room L09.

8. **Wilderness Management Distance Education Course (NRSM 560) offered this spring.**
   This course (NRSM 404 and NRSM 560) provides a broad perspective of what wilderness is and how the idea developed, exposes the student to some of the differing values, ethics, and expectations of wilderness held by society, and also examines the early history of wilderness preservation that ultimately led to federal protection in the U.S. Wilderness Act. It is the first of four courses leading to a graduate certificate in Wilderness Management. Course credit is offered through the University of Montana. Registration information is available online.

9. **Interdisciplinary Development (BIOB 595) is a new course for spring semester.**
   What is the value of interdisciplinary collaboration? How do successful interdisciplinary researchers work together? If any of these questions have crossed your mind, consider signing up for the ICN's spring 2016 seminar: Interdisciplinary Development. We'll explore the history of disciplinary formation in the humanities and sciences, concepts of interdisciplinarity, and contemporary interdisciplinary scholarship. This class will combine discussion and readings with talks from interdisciplinary experts from across campus. We encourage graduate students from all disciplines to attend and participate.
   Interdisciplinary Development: History, Concepts, and Current Examples (BIOB 595, CRN #34884) will meet Thursdays, from 2:10 – 3:30 in LA 203.

10. **Montana Natural History Center offers distance learning Nature Program for Teachers.**
The Exploring Montana’s Ecosystems ID Nature workshop series will provide educators with curriculum and support for integrating natural history study into the classroom while meeting Montana State Science Standards. Workshops are available to educators through the Polycom Teleconferencing System. To learn more, or to register, contact Amy Howie at the Montana Natural History Center at 406.327.0405 or email A. Howie. The first 2 programs offered are:

--Investigating Montana’s Weather and Climate using 10 Exceptional Teaching Techniques
--13 Lively Approaches to WOO Your Students with Montana's Flora and Fauna

Full course descriptions and details are available online.

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INTERNSHIPS

1. Women’s Voices for the Earth seeks Communications and Outreach Intern. Paid position. Women’s Voices for the Earth is a national organization headquartered in Missoula, Montana. Our staff is small, diligent, and highly effective. We are seeking an intern who is dependable, extremely detail-oriented, highly organized, and efficient to assist our team with general communication and outreach task. This is a paid internship, 5-10 hours a week with the possibility of turning into a part-time communications and outreach assistant. Compensation is $10 an hour. Email Jamie McConnell with questions, or to apply, send a resume and cover letter. No phone calls please.

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JOBS (mainly local or summer jobs; for full time jobs around the US, subscribe to the envirojobs list serv by emailing vicki.watson@umontana.edu)

1. Be a Sustainable Transportation Ambassador. Paid position. Deadline extended to December 8. ASUM Transportation plans to hire several student Sustainable Transportation Ambassadors (10-15 hours a week, $9/hour). Duties: teach bicyclists safe, courteous, and legal riding techniques; teach motorists how to share the road safely with cyclists; respond to questions about bicycling/walking/busing and refer students, faculty, and staff to appropriate resources; organize campus events to communicate transportation safety and awareness including information stations and participation in events scheduled by other groups; offer knowledge regarding local routes and bus information; promote pedestrian activity and safe walking practices; conduct door-to-door canvassing; offer students personalized trip planning assistance. Read the full job description and get application instructions online.

2. Home ReSource is hiring!
Want to learn and employ wide-ranging skills regarding building material reuse and community engagement/empowerment? Home ReSource, a local nonprofit building materials reuse center, seeks a respectful, hard-working people-person, able to remain calm and positive in a fast-paced work environment to join our staff of Reuse Specialists. Applicants must have knowledge of construction materials and techniques, be able to lift 50 lbs., be committed to resource conservation, be willing to learn new skills, and be available to work 30-40hrs/week with preference given to those who can commit to Saturday and Sunday. Retail and management experience a plus. This position comes with a competitive wage and benefits. Download the complete position description.
Submit a resume and cover letter by email to Simon at Home Resource or drop off your resume and cover letter at Home Resource at 1515 Wyoming Street, Missoula, MT. No phone calls please.

3. **Montana Conservation Corps jobs for those finishing up this semester.**
   **MCC Field Crew Leaders**
   Term dates: Feb 8, 2016 to Nov 11, 2016
   Bi-weekly living allowance: $626.50  Education award: $5,645
   Responsibilities: You and your co-leader will hit the trail with your crew of four to five Corps Members for the 24-week project season. You and your crew will delve into the meaning of service while helping solve critical wildlife habitat challenges; get your hands dirty creating safe trails and maintaining access to remote wilderness areas, national parks, grasslands, and forests; and support community nonprofit organizations through volunteer service projects. The last two weeks of your term will be spent weatherizing homes around Montana as part of the Governor's Warm Hearts Warm Homes initiative.

   **MCC Youth Crew Leaders**
   Term dates: Mar 7, 2016 to Aug 19, 2016
   Bi-weekly living allowance: $626.50  Education award: $2,822
   Responsibilities: Upon successful completion of the Leadership Development Program in May, you and your co-leader will hit the trail for your first four-week session with a crew of four Montana youth ages 15 to 17. You will be in the field for the entire session, with the support of staff and a senior crew leader, and one scheduled day off. You and your co-leader will be "on" the majority of the time. Upon the completion of your first session you will be given time to recoup and plan before departing once again, for session two.

   More information is available on [Montana Conservation Corps website](#). Email Joy Davis or call (406)587-4475 with any questions.

4. **Jobs in Montana and Oregon for those graduating soon.**
   **Montana Conservation Corps, Director of Programs.** [Details](#).
   **Forest Program Director, Sustainable Northwest, Oregon.** Due December 11. [Details](#).
   **Program Specialist, Treasure State Endowment Program.** Ongoing. [Details](#).
   **Watershed Coordinator, Sun River Watershed Group.** Email interest.

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**FUNDING SOURCES**

1. **Jerry O’Neal National Park Service Student Fellowship.** [Apply now](#).
   Applications are being accepted for the Jerry O’Neal Fellowship for work in Glacier National Park, Grant-Kohrs Ranch National Historic Site, and Little Bighorn Battlefield National Monument. The fellowship aims to provide educational assistance for students seeking to understand natural and cultural resources issues and how these interact with human values. Special consideration will be given to proposals that address the following:
   - natural resource issues such as aquatic ecology, terrestrial ecology, fire ecology, invasive plants, and climate change
   - cultural resource issues, such as history and architectural studies, cultural landscape reports, archeology, and ethnographic research.
-social science that informs resource management about a natural or cultural topic and/or addresses visitor impacts to park resources. Competition is open to graduate students or superior upper division undergraduate students at RM-CESU universities and colleges only. Awards range from $1000-5000. Applications must be submitted electronically by February 18, 2016. For details on the application process, please visit the Fellowship webpage.

2. **Travel grants for students working on wetlands. Apply by December 18.**
The Wetland Foundation is soliciting applications for 2016 travel grants for students. All college students may apply. Some grants cover thesis research travel, others cover travel to wetland conferences or workshops. For more information, visit the Wetland Foundation website. Application deadline is December 18, 2015.

3. **Conservation funding opportunities. Applications due in January or February.**
New! Agricultural Conservation Easement Program. Due 1/15. Details.
EPA Environmental Justice Collaborative Problem Solving Grant. Due 2/12. Details.

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**HOUSING**

1. **Studio apartment on E. Beckwith, right by UM!**
Local sustainability activist Molly Galusha has a large (700 square feet) studio apartment above her garage, semi-furnished (only needs a bed). Lots of windows, small kitchen, private bath, private entrance, street parking. Looks out on large beautiful garden. Month to month, $750/month includes all utilities. The space doesn't accommodate pets well. First and last months’ rent, plus a cleaning deposit due at signing. Great for a couple or a single person. Contact Molly at 531-1631.

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**RESOURCES**

1. **Transportation Options during Winter Break.**
With the holidays fast approaching, remember that UDASH bus service does NOT run after Finals Week. There is no service from 5:30pm on Friday, December 18, 2015, through the start of Spring Semester on January 25, 2016. Several alternatives exist to help you travel around town and beyond:
---Mountain Line’s Route 1 provides high-frequency service between Southgate Mall, Missoula College, the University, and Downtown via South Ave. and Arthur Ave. Route 12 serves Lewis and Clark Villages and the University via Higgins Ave., South Ave., and Arthur Ave.
---Route 8 serves 5th and 6th Streets to and from the University stopping at the Music Building. Route 2 connects Southgate Mall to North Reserve and Downtown and serves the western end of the UDASH Purple Line.
Get more information on Mountain Line's webpage or by calling (406) 721-3333.
2. **Get out of town with the UM Rideshare Board.**
   Share a ride to visit friends and family during the winter break. The UM Rideshare Board is located in the UC next to The Source. Request a ride or offer someone a ride by filling out a rider information card.

3. **The Gift of Conservation.**
   Need a great gift for nature lovers? [Adopt a sea turtle hatchling] -- and support the work of [Ecology Project International](#). EPI was started 15 years ago by EVST alums. They work with local students & teachers in five countries, involving them in studies of species at risk and building their awareness and commitment to the conservation of these species. You can also join with those local students through EPI's Ecotours. [Get all the information on Adopt a Hatchling on EPI's website](#).

### MISCELLANEOUS ITEMS AND OTHER FUN EVENTS

1. **Make a native pollinator house for a gift.**
   How about a making a native pollinator house as a gift? Join Leah Grunzke of Flora Montana as she leads you in making this beautiful gift. [Visit MUD's workshop webpage for all the details](#). (MUD sponsoring this workshop.)
   WHEN: Monday, December 14, from 6 – 8 p.m.
   WHERE: Zootown Arts Community Center, 235 N. First St.

2. **Join the UM Carolers!**
   Every year the UM Carolers enjoy the fun of singing some holiday favorites together while bringing some holiday cheer to appreciative audiences. Rehearsals are informal and helpful, but the songs are pretty standard so feel free to jump in with the carolers if you see them singing somewhere.
   Rehearsals will be held at noon and 5 p.m. on Monday, Dec. 7 in the Presidents Room in Brantly Hall. Music will be provided.
   Below are some performances that have been scheduled (more will come). Attend as many as you can.
   **Tentative Partial Performance Schedule:**
   - Sunday, December 13 – Village Senior Residence, 2815 Old Fort Road, 3:30 p.m.
   - Tuesday, December 15 – Atrium of the University Center, 12:15 p.m. Riverside Health Care Center dining room, 1301 E. Broadway, 6 p.m.
   - Wednesday, December 16 – St. Patrick’s Hospital cafeteria, Noon (Free lunch!)
   - Thursday, December 17 – New Directions Christmas Party, Skaggs Building, Noon (more good food!)
   For more information, email Judy Wellert or call (406) 243-5422.

3. **Fun stuff in December!**
   - December 12 – Cookie decorating & holiday crafts, Missoula Public Library, 1 – 3 p.m.
   - December 13 – Missoula Made Fair – locally made gifts at the Adams Center, 1 – 3 p.m.
   - December 31 – First Night – Live Music, dance, comedy, storytelling and more. All around Missoula (lots of venues at UM). Noon to Midnight.

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This Newsline prepared by Vicki Watson and Theresa Duncan. Please send any comments here.