



100 Valleys

A Quarterly Publication for the Supporters of Umpqua Watersheds, Inc

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From the President

It's been a busy time at Umpqua Watersheds since our last Newsletter! In addition to planning and producing another successful banquet, our committees have been hard at work with strategic planning. I continue to be impressed and energized by the depth of commitment of our staff, board and volunteers, and I couldn't be more proud of our recent efforts.

Every chance I get, I've been writing and speaking about the exciting new emphasis on education and restoration at UW, so I wanted to fill you all in on the details of our newly adopted Goals and Objectives for our Education and Restoration Programs along with activities we're planning for the next 3 years:

UW Restoration Program: The goals of the Restoration Committee are to develop and support innovative restoration projects, and to advocate sound stewardship practices that promote healthy ecosystems and resilient local economies.

Objectives of the Restoration Program are to:

1. Establish scientifically sound principles and practices for the restoration of ecosystem functions on degraded lands.
2. Promote the application of sound, science-based restoration practices in the Umpqua watershed and beyond.
3. Demonstrate the economic benefits of restoring fully functioning ecosystems.
4. Support ecological workforce training.

Short term (1-3 years) activities will:

Year One:

- a. Develop a set of landscape and site level restoration principles and solicit comments from our Science Advisory Council.
- b. Research and choose 3 finished products using small diameter logs and/or other underutilized resources from local forests.
- c. Research the commercial potential of a log sort yard in Douglas County.
- d. Research the need and potential for an ecological workforce training

Year Two:

- a. Produce a white paper presenting and justifying restoration principles, and develop materials to promote those principles to practitioners.
- b. Build/manufacture prototypes of products developed during year one as proof of concept.
- c. Develop prospectus for creating a log sort yard in Douglas County.
- d. Assuming a demonstrable need, develop a curriculum for an ecological workforce training program at UCC.

Year Three:

- a. Apply restoration principles to 3 projects on and in SW Oregon.
- b. Develop marketing plan and scale up production of successful products from year two.
- c. Develop a business plan for establishing a log sort yard.
- d. Assuming 1.d. and 2.d., pilot a training course in partnership with UCC.

UW Education Program: The primary goal of the Education Committee is to design programs in which experts provide life changing experiences for learners of all ages in our community and beyond. These opportunities will provide experiences that cultivate appreciation for ecological systems, conservation practices, restoration process, and the intrinsic value of wild places. The committee aims to establish a knowledgeable citizenry to support the mission, goals, and objectives of UW through our education activities.

Objective of the Education Program is to establish the *Western Institute for the Study of Ecosystem Recovery (W.I.S.E.R.)* to:

1. Offer rigorous, outcome-based curricula in ecology, natural history, and environmental science for college credit,
2. Provide long-term research opportunities to increase the understanding of ecosystem recovery in SW Oregon, and
3. Increase environmental science literacy of K-18 students through the development of curricula based on state standards.

Short term (1-3 years) activities will:

Year One:

- a. Bring specialists together to develop the W.I.S.E.R. vision, mission and principles.
- b. Establish a relationship between W.I.S.E.R., Umpqua Community College, and area High Schools to develop a Natural Resources Program at UCC.
- c. Develop a list of skills, content and courses to be delivered by area high schools teachers and/or UCC professors to support certificates in Natural Resources and a path to an AAOT.
- d. Develop "Green Fire Project" goals, and identify activities for middle and high school students linked to state standards and aligned with UCC's Natural Resources Program.

Year Two:

- a. Recruit an Education Coordinator and an AmeriCorps*VISTA member to formulate agreements and act as liaisons with school administrators.
- b. Recruit professors to develop and pilot college courses at UCC.
- c. Recruit teachers to develop and deliver courses to area high school students.

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Our Mission: *Dedicated to the protection and restoration of the ecosystems of the Umpqua Watershed and beyond.*

Conservation

Clear cut logging on the vast private industrial lands of our watersheds continues at a furious pace. Folks who live near these operations are sure to have heard the tell tale, high pitched cry of the punk whistle and the jake brake growl of loaded log trucks headed for local mills. Or, as far too often, trees are trucked and piled high at the pier in Coos Bay, from where they are shipped to foreign parts, unprocessed and nearly untaxed. On those rare rainless days we have enjoyed this spring, these same rural folks may thrill to the whap whap of helicopter rotors as they broadcast poisons across the landscape to suppress the natural regrowth of plants and hardwoods after yet another stand of young trees is slicked off. As you read this, the Oregon Department of Forestry (ODF) is considering rule changes to its long outdated Forest Practices Act, which has been found to be out of compliance with clean water standards. Your Conservation Committee has expressed its demand to ODF and the Governor's Office that harvest practices on private industrial lands be modified to bring this crucial law in line with the latest scientific evidence. That our rivers continue to run brown after storms, that many fish runs continue to be threatened by poor water quality is evidence that much remains to be done by the rule makers in Salem. Don't be afraid to contact ODF and the Governor to express your consternation about continued impacts to watershed, wildlife and human health posed by these backward looking practices.

As if this ongoing challenge were not enough, a new gold rush on the Umpqua River and its tributaries, a veritable flood of out of state recreational gold miners is on its way north. California authorities have outlawed suction dredge mining in that state's waters, at least temporarily, based on a well founded fear of its proven negative impacts on the water quality of fish bearing streams. Now these gold-fevered folks have set their sites on the Umpqua. The gold diggers operate under the aegis of that old federal legislative dinosaur, The General Mining Law of 1872 . The Conservation Committee at Umpqua Watersheds has asked the Governor to use his good offices to help us prevent or at least limit this unwanted and potentially damaging activity along the bottoms and banks of our precious rivers and streams. Feel free to contact state and local authorities. Express your outrage; let your voice be heard! Contact Umpqua Watersheds Office for more information on what you can do.

The Conservation Committee's protest of ill-considered portions of the Coos Bay Wagon Road Pilot were rejected out of hand by the Coos Bay District of the BLM. No surprise there. Rest assured, UW will join her sister conservation groups in filing a timely appeal. The Pilot Project developed by the Roseburg District, BLM is currently open for comments. Some portions of its pilot proposal, as presented at an open house on April 12th, call for further investigation. These precedent setting projects deserve careful consideration. UW and its conservation partners intend giving them our full attention.

The conservation challenges to the health and restoration of watersheds such as the Umpqua, Coquille and others seem endless. The U.S. Forest Service has proposals we are interested in following on the Rogue/Siskyou, Umpqua and Siuslaw forests. Our Congress Critters have been busy introducing draconian legislation that further threatens

our already degraded landscapes, as have our beloved County Commissioners. The LNG import battle appears, at this writing, to have been won. Now, the export of natural gas from North Bend, with its destructive pipeline has come to the plate and must be struck out, as well.

Please bear in mind, the activities of your Conservation Committee are conducted, for the most part, by volunteers. The same is true for most of Umpqua Watersheds' invaluable work. Please don't just sit back and take these selfless volunteers for granted. That said, our small, part time paid office staff is extremely important in order to coordinate and help direct our efforts. Right now, funds at UW are near rock bottom. When you plan your giving in the next few weeks, as always, please try to keep it local. While Douglas County remains a wonderful place to live and enjoy the natural world in all of its splendor, it is, as you must know, not quite so wonderful when it comes to environmental fund raising. Please step up and do your part. Short of dollars yourself? Then donate time, transportation, whatever and whenever you can. Your watersheds need you.

*J.P. Quinn
UW Board of Director & Chair of the Conservation Committee*

The Gold Rush of 2012

As many of you may be aware, gold has been found in portions of both the North and South Umpqua Rivers. This is setting off a frenzy of mining claims - particularly on the South Umpqua, to do dredging of the river bed and high bank mining. What is most appalling about this is that it is an outfit in California called the New 49ers, publicizing the need for people to file these claims and do the mining. Paddy Quinn composed and sent a very well-researched letter to our Governor. We are including it in this edition of the newsletter in the hope and expectation that all who read it, will be inspired to do the same. Please feel free to copy as much of Paddy's letter as you wish and tailor it to your specific concerns. Or use it entirely - it's up to you; regardless, Governor Kitzhaber needs to know we care about our rivers and demand action from him!

Dear Governor Kitzhaber,

I am currently serving as Conservation Committee Chair, a volunteer position on the Board of Directors of Umpqua Watersheds, Inc. (UW) We are a nonprofit environmental advocacy organization, headquartered in Roseburg. I am also a volunteer in and serve on the Executive Council of the Coquille Watershed Association (CWA), an OWEB sanctioned watershed council, in Coquille.

Last night, at our monthly UW Board meeting, it was brought to my attention that recreational gold mining groups from California have targeted the South Umpqua River and its tributaries for their mining activities, this summer. It is my understanding that officials in California have, at least temporarily, banned the use of suction dredges in that state. This is due to the proven and considerable harm their activities inflict on already struggling fish bearing waters, such as the Klamath. Because of the California ban, these folks are intent on "gold

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rushing” Oregon!

We, at UW, are dismayed at the number of claims that have been taken by organizations such as “The New 49’ers” of Happy Camp, CA. Some of these “diggings” include critical holding pools for the very diminished Spring Chinook run, on the South Umpqua. The South’s tributaries are likewise threatened with both suction operations and with practices like “high banking,” whereby the riparian zone is pulled apart in the search for flakes of gold. At last night’s UW board meeting, members more familiar with this business than I, were of the opinion that there is nothing to stop the same gold folks from adversely impacting the world renowned North Umpqua River via its tributaries, as well.

Speaking for myself, in my capacity at the CWA, and for fellow UW members, who are themselves board members with the Partnership for the Umpqua Rivers (PURS), another OWEB sanctioned group, it is no exaggeration to say that we are angered, appalled and discouraged at this prospect. Governor, we dedicate thousands of volunteer hours trying to restore badly degraded riparian zones and along comes an invasion of gold-fevered folks, who could care less how hard we have worked and how much public and private money has been invested in riparian restoration.

In a similar vein, we are equally discouraged at how often our riparian restoration efforts are undone by the totally inadequate protections afforded our watersheds by the Oregon Forest Practices Act. One begins to wonder: what’s the use; why volunteer more of one’s precious time and energy when industrial timber interests do virtually nothing to improve watershed health? Yes, while it is true that Real Estate Investment Trusts, such as Plum Creek, contribute project logs or sell them to watershed councils at cost, at the same time they continue to clear cut the vast upland portions of our watersheds at a furious pace. As you know, the CWA, PURS and the many other local watershed councils around Oregon are very active. Pools are created behind boulder weirs and log structures, gravel is trucked in to encourage coho and other salmonids to spawn thereon and that is, of course, wonderful. Often, however, that very gravel is covered in sediment that has run off clear cuts above the stream following heavy rains, and especially after rain-on-snow events. Governor, you can imagine, I am sure, how discouraging this is!

We are aware that much of what happens in the mining sphere is governed by the outdated 1872 federal mining law. We only ask that you use your great influence to help us mitigate the harm that will surely result from a new gold rush on our rivers. We also ask that you insist upon realistic and science based modifications to that other legal dinosaur, the Oregon Forest Practices Act. For we conservationists and watershed council volunteers, such support from your office and the rest of Oregon State Government would be a most welcome validation of our hard work, self-sacrifice and dedication.

Sincerely,

Joseph Patrick Quinn

No-Spray Update

Oregon’s private forests are being harvested at an alarming rate and after replanting with Douglas fir seedlings, repeated use of poison pesticides is standard practice to control vegetation competition. Herbicides are used on Douglas County timber lands to control competing vegetation covering thousands of acres. This pattern is repeated on corporate forests in every Oregon timber-producing county.

Five commonly used herbicides (Atrazine, 2, 4-D, oryzalin, penda-

methalin and trifluralin) are polluting our rivers and streams and jeopardizing already dwindling salmon populations.

Clean water is important... especially when it comes to protecting the health of our children and preventing the extinction of important species like Pacific salmon and steelhead.

Despite well-documented hazards, the EPA continues to allow the use of the pesticides Atrazine, 2,4-D, oryzalin, pendamethalin and trifluralin in ways that put the things we cherish most in danger: our children and families, our rivers and streams, our fish and wildlife.

Pacific Northwest salmon and steelhead populations have fallen dramatically in recent decades, and these pesticides represent a distinct threat to their survival.

Pesticides harm salmon and steelhead by directly killing individual fish; killing the insects and other organisms that the fish prey upon; impairing their ability to find and return to their natal streams; and impairing swimming, predator avoidance, and reproduction – yet for years, pesticides were registered for use throughout the Pacific Northwest and California without regard for their effects on threatened or endangered salmonids.

The good news: the National Marine Fisheries Service (NMFS) has released a scientific study that could force the EPA to restrict the use of these herbicides in California, Oregon, Washington and Idaho.

Officials at NMFS have proposed strong measures, including prohibiting aerial applications within 300-feet of salmon waters, as well as vegetative buffers along streams to help filter runoff.

Reducing use of the highest hazard pesticides for salmon will improve the quality of our drinking and surface waters, will reduce residues of these pesticides in food, and will reduce farm workers’ exposure to poisonous chemicals.

Public health and our environment are worth protecting, but it’s up to caring people like us to ensure that EPA and NMFS take the decisive action that is needed to protect our salmon, steelhead and drinking water.

The Oregon Right to Farm and Forest Act provides immunity from liability to those who profit from spraying poison pesticides that may drift and trespass, and affect our health, air, water, soils and food.

How can Oregon allow toxic chemicals to be sprayed after suspending an exposure investigation that found evidence of the toxins it set out to investigate?

Do OHA, the federal toxic substances registry and Gov. John Kitzhaber, a medical doctor, forget that Oregonians will be affected by pesticide spray this spring, as they have been for 40 years?

Do they expect rural residents to accept being sprayed?

Oregonians made homes in rural areas they consider paradise. Yet our taxes are used to pay the salaries of agency staff members who aid the poisoning of Oregonians’ paradise. How can the governor celebrate the Legislature’s approval of historic health care legislation while Oregonians are exposed to pesticides, creating a greater burden on the state’s health care systems?

Kitzhaber can change these practices. Yet he has not responded to Oregonians’ respectful demand for a moratorium on all forestry pesticide spraying until industry proves that the long- and short-term effects of low doses of these chemicals cause no harm.

Join Umpqua Watersheds in respectfully demanding a moratorium on all industrial forestry and county roadside herbicide spraying.

Make sure you post your property boundaries with **NO SPRAY** signs to avoid roadside spraying exposure.

Thanks for taking action!!

Chris Rusch, Former member of UW Board of Directors

Outreaching the Environs I

Every year Umpqua Watersheds kicks off the year with its annual banquet and silent auction. This is done to give our membership the “State of the Organization” and to raise money to help with our operating expenses (the lights don’t come on for free, ya know?). So on February 25th, we had our 16th annual banquet at the student center on campus at UCC. We had a program of excellent food (catered by the Culinary Arts Program students), the awarding of honors to certain, dedicated members, and inspirational and motivating speakers that helped to get our 1st event of the year, started off on the right foot.

A great deal of planning and participation goes into an event such as this, and it would be remiss to not thank our banquet committee members, Carol Hanrahan, Anne Dorsey, Betsy Dean, Jasmine Filley, Chris Rusch, Committee Chair Paddy Quinn, Bob Allen, Richard Chasm, Chris Roe, Ken Carloni, and Stan Petrowski for their efforts. We also had a great deal of help the day of the event with hauling and set up, and would like to thank Kathy Vejtas and Lane Sharkey for that. A special thank you too, to our VISTA member, Mike Rooney, who took over 225 pictures of people enjoying their time out on the town!

We also need to say a huge thank you to the hundreds of business, individuals, and like-minded organizations that donated so many fine items for the silent auction. There was an absolutely incredible amount of fine art, gift certificates, wine, and other items that were just so unique! The heart of this community is just so giving, it cannot be quantified!

Both Randy and Ken spoke to where Umpqua Watersheds has been, where it is now, and where it is heading. Their influence and vision for the organization cannot be understated. Our keynote speaker was Dr. Cassandra Moseley, who is the director of the Ecosystem Workforce Program and the Institute for a Sustainable Environment, at the University of Oregon. In her words, the message was clear: Changing the way of doing business in our forests can be done, can make a difference at every socio-economic level, and can sustain the natural resources we rely upon.

With where our organization is heading, next year’s banquet will be even better, bigger, and even more worthwhile! If you want to be part of it all (or any other future event!), please jump onboard! Your help and participation is always welcome!

Outreaching the Environs II

March 1st thru the 4th was the 30th Annual Public Interest Environmental Law Conference (PIELC), on campus at the University of Oregon. If you have never been to this event, I can highly recommend it, as it is a wonderful opportunity to hear a multitude of inspirational and motivated people relate their stories of trials and tribulations to make a difference for our environment! Our own Randy Rasmussen was on a panel with Sarah Higginbotham of Environment Oregon and Erik Fernandez of Oregon Wild titled, *Crater Lake: A Wilderness at Risk*. Their panel discussed the future Crater Lake Wilderness proposal that our three organizations are working to get grassroots support rolling, for its eventual introduction as a bill to Congress. There were a great many other panels to take part in as well, and many of them pertained directly to concerns and issues we have right here in Douglas County. The beauty of the event though is that not only are the local issues discussed, but you also have the opportunity to hear, see, meet, and directly ask questions of people jousting windmills on national and international issues as well!

Umpqua Watersheds and the Wild on Wilderness (WOW) commit-

tee had a table front and center in the law school foyer, and we were able to connect with a lot of folks about not only the concerns and issues we face, but what others are facing as well. What was most impressive to me about the whole event though, was the incredible number of young people there! Not just from U of O (as you would expect!), but from other colleges as well. There was even a busload of them from Cal State Humboldt! It gives you hope that the younger generation is not being completely manipulated by the makers of cell phones, computers, and video games! There was a lot of passion for critically important causes to be experienced there!

As you would expect, there were many other organizations also tabling at this event. There was so much information to be had about a wide variety of movements and topics pertaining to our environment! The numerous amount of information available describing all that could or should be done to improve the situation we have put ourselves in, was phenomenal. The final ‘panel’ of the event was the advanced screening of a documentary titled *Greedy Lying Bastards*, which focused on the petroleum industry and its role in keeping profits high and doing anything for the quality of life or related to climate change, low. It is a very powerful movie.

A special thanks to Chris Roe, Randy Rasmussen, Ken Carloni, Paddy Quinn, “Captain” Susan Applegate, Stan Petrowski, and Mike Piel for their help in pulling everything together, setting up, and ‘manning’ the table. It was also great to see many of our local folks there participating and taking in panels and hanging out with us. I highly recommend participation by our membership next year in this event. This is an opportunity we have available to us, and it’s just up the road a ways! And I have to admit, Eugene is just a nice couple-day break from life here in Roseburg!

Outreaching the Environs III

On November 1st or 2011, Umpqua Watersheds submitted an application/proposal to an organization known to most, as American Rivers. The reason being: We felt it imperative to nominate the South Umpqua for consideration as a 2012 Most Endangered River.

There is a good news/bad news kind of thing going on with this. We enlisted the help of a number of concerned businesses and citizens to help us make our case, because they too have a stake in the South Umpqua being part of the lifeline of our watershed. That was some of the good news. We learned a lot about the myriad of issues that are confronting the South Umpqua (also good), but that’s also where things become bad news. It’s not just runoff from clear cutting that is impacting this river. Agriculture and mining have long been in the mix, and becoming more of a factor! Especially with the possibilities of gold mining! Which are very real and very despicable! We also learned that we have more than a handful of amphibians, fish, and reptiles that are endangered or threatened, living in these waters – also not good. There is more wrong with the South Umpqua than just the blue-green algae problem and the occasional pet dying from drinking the water. Yet nobody at the upper levels of our government or in these industries, want to assume even some sort of protective responsibility to assure the survival of this river! Umpqua Watersheds felt it is time to open the can of worms and get the South Umpqua its due.

Unfortunately for all our research and hard work, we just received word that our nomination did not make the top 10. We did learn a lot about the process and the procedures that need to be followed though. And again, making contact with concerned people that live along the river and rely on it for their livelihood, and their knowing we are work-

ing to protect the river and make it better, was an excellent facet to the whole process. Also, we made some great contacts for the future and have compiled a lot of very useful data. Until the South Umpqua River gets its rightful recognition as an endangered river, we'll keep nominating it.

Outreaching the Environs IV

Once again, Umpqua Watersheds had a table at the annual Spring Fair, held in Douglas Hall, at the Fairgrounds, March 23rd thru the 25th. Yet another opportunity for us as an organization to engage and reach out to the community, and raise awareness of what we are doing for our watershed. Attendance seemed down a little this year...but we were there to engage, and engage we did! Thanks to Richard and Marlene, Ken, Bob, and Paddy (and anyone else I may have missed mentioning), for their help with manning the booth. Also, a special thanks to Louie, for his support of UW. A number of lively discussions were heard and it was just another instance where we as an organization, make that 'grassroots' effort to talk to folks face-to-face with the hope they will become engaged, involved, and better understand, just what is going on.

Friends Of Crater Lake National Park will meet in Roseburg

The Board of Directors of the Friends Of Crater Lake National Park will meet in Roseburg at the Douglas County Museum on **Friday, June First**. Times will be set up for the public to meet the staff of the National Park and the Friends. An exhibit about the park will be featured and staff will answer questions about park activities, plans, and current issues. Three Roseburg residents are represented on the "Friends": Beverly Paulson, retired UCC Staff, Larry Filosi, retired teacher and President of the Edelweiss Ski Club, and Bob Allen, also on UW's Board of Directors.

The F.O.C.L. have a Memorandum of Understanding with the National Park Staff which defines their mutual roles and responsibilities. Both are prevented from taking political positions relative to issues such as the one UW is supporting, the Crater Lake Wilderness Proposal. As June approaches, if you are interested in meeting staff of our only National Park or have questions about park activities and issues please come out to the museum on Friday June 1st. Times will be forthcoming in the media or call UW at the office to find out. We look forward to meeting you there.

From the President

Continued from page 1.

d. Work with middle and high school teachers to pilot "Green Fire" activities.

Year Three:

a. Recruit an AmeriCorps*VISTA member to assist Education Coordinator in the continued implementation of UCC Natural Resources program and Green Fire activities.

We are already making strong progress on our Year 1 activities with (1) a draft set of Restoration Principles ready to go out soon to our Science Advisory Council, (2) a plan to partner with the BLM, UCC, Phoenix School, and Oregon Youth Conservation Corps to hire UCC and Phoenix students to survey elk habitat in the South Myrtle Creek watershed, (3) Vision and Mission statements for W.I.S.E.R., and (4) a pilot UCC course, *Field Botany of Southwest Oregon and Northern California* (see article in this issue).

Stay tuned to future Newsletters for progress on these and other UW initiatives, and thanks for your continued support, without which

we could not be such strong advocates for educating and training our youth for the sustainable economy of the new millennium.

Ken Carloni, Ph.D.

President, Umpqua Watersheds

Science & Adventure Meet On The Green Tortoise

After years of planning, we're thrilled to announce a partnership between Umpqua Watersheds and Umpqua Community College: ***Field Botany of Southwest Oregon and Northern California (BOT203A)***!

This is a fully accredited, college-level science course for students who need a lab science class but want one that combines academic rigor and hands-on experience with a healthy dose of fun and adventure!

This hybrid course will be offered the first summer term of 2012 (June 25 to July 27) and be limited to 24 students. We will start with three weeks of online instruction followed by a **six day tour** of this magnificent region on a bus provided by world-famous **Green Tortoise Adventure Tours** (www.greentortoise.com) from July 17-22. The Green Tortoise crew will provide the ingredients for tasty vegetarian meals that we will all prepare together as we camp on their "sleeper coach" at group campsites along the way.

The tour will depart from UCC on Tuesday and follow the wild and scenic **North Umpqua River** on our way to explore the spectacular wildflower meadows and stunning scenery of **Crater Lake Nat'l Park** and the evocative ancient rock art and lush hanging fern gardens at **Lava Beds Nat'l Monument**. After an exploration and swim at **Medicine Lake State Park**, we will investigate the interplay between the violent geologic history and diverse flora of **Lassen Volcanic Nat'l Park**, and then continue on to the **Trinity River** by way of the thundering falls at **McArthur-Burney Falls State Park**. After an optional raft trip on the wild and scenic Trinity, we will ride to **Patrick's Point State Park** where we will relax on wildflower-covered promontories and watch the sun set over the Pacific as we prepare to experience the grandeur of **Redwood Nat'l Park**. Our adventure through the redwoods will then take us back into the distinctive flora of Oregon's **Siskiyou Mts.** to **Oregon Caves Nat'l Monument** with its ancient marble caves and exceptional plant diversity before returning to UCC late Sunday afternoon.

Ken will be assisted on the tour by Mike Rooney, UW's VISTA*Americorp member. In addition, Dr. Daniel Sarr, director of ecological monitoring for all of the parks and monuments we'll visit, has graciously agreed to make experts available to talk about their research at various stops along the way.

In addition to 4 term hours of UCC tuition, a fee of \$650 covers all meals, park fees and camping. The class will also be listed as a Community Education class for those who want the knowledge but who don't need the college credits. Independent Studies may also be arranged. We are also looking into offering Professional Development Units (PDUs) for teachers. Students should be reasonably fit and prepared to hike several miles over the course of the tour on easy to moderately difficult trails.

This summer we will demonstrate the concept that the most authentic biological science learning is in the field. We hope the success of this venture will lead to the UW Education Program offering more accredited online/field tour format sciences classes through UCC in the near future.

If you or someone you know might be interested in this unique educational opportunity, please contact Dr. Ken Carloni at ken.carloni@umpqua.edu for more details. Learning will never be more inspiring!

Umpqua Watersheds Business Partners

Umpqua Watersheds sends a Big THANK YOU to all our Business Endorsers

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