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 Printed on recycled paper with soy-based ink.

Non Profit
US Postage
PAID
Mailed from 98642
Permit No. 94

Naturalist Spotlight

Bobcat (*Lynx rufus*)



left behind by their larger kin, the cougar. Cat tongues are raspy with tiny horny papillae, which can clean meat from a bone or hide quite efficiently. Their eyes are adapted to hunt at night, with a reflective layer behind the receptor cells on the retina which redoubles light intensity. Often bobcats leave behind scratchings on trees that can be 2-5 feet up the trunk. Just like household cats, wild cats like to work out their claws and clawing muscles on tree trunks. To preserve their sharpness for slashing or gripping prey, cat claws are kept retracted most of the time and rarely show in cat tracks. The bobcat inhabits much of the Cascade range. You may surprise one if you travel quietly, but they tend to stay out of sight.

Bobcat sightings were plentiful around Jawbone Flats this winter, especially for a seldom seen animal. This member of the family Felidae (Cat) is typically twice the size of a standard housecat and hunts mainly hares and rodents. In the winter they may turn to deer – hunting fawns or scavenging kills

THEIR OWN WORDS

"You guys have this down so well. As staff change over the years, you have kept the good ideas and just keep adding more good stuff from the new folks."

– Reynolds High School teacher

"Don't change a thing – an awesome experience in an amazing setting for my kids. Staff did an excellent job – all were knowledgeable, enthusiastic, fun, and great with the kids."

– Silvercrest Elementary School teacher

"The food was excellent – nutritious, tasty, wholesome."

– Cabin rental guest

"As an adult, I learned so much! I am delighted to see our kids learning the subject matter."

– Buckman Elementary parent chaperone



OPAL CREEK ANCIENT FOREST CENTER

Flowing Through Generations



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Opal Creek Adapts to Winter

By Katie Ryan

The human residents of Opal Creek were not the only ones who had to adjust to the fierce conditions of this past winter. Our little town was buried under twelve plus feet of snow, and so was the surrounding forest. The snow changes the entire landscape of Opal Creek, and every species that lives here must adapt. As the days began to grow shorter last fall, the forest was a flurry of activity. Squirrels gathered cones and seeds at an impressive rate. The human residents of Opal Creek gathered four months worth of food, plenty of warm clothing, and lots of reading material. Wood sheds were filled, propane tanks topped off, and freezers stuffed with treats for a later day. We were ready by the time the snow fell, and were able to watch it collect. And collect. And collect. Our efforts then turned to shoveling the roofs of our buildings to ensure their longevity. The white blanket of snow told us many stories about how the

other residents of the forest were coping with the change.

Wildlife has to make difficult decisions as they are faced with the winter season, a time of decreased solar, thermal and nutritional energy. They may choose to migrate to lower elevations, and in some cases more southern latitudes, where temperatures are warmer and food more plentiful. The forests of Opal Creek see many seasonal visitors that move on before the freezing temperatures arrive. The Varied Thrush forages on the ground for food, and therefore can't last very long in a snow covered environment. We see these brightly colored birds come through in the spring and again in the fall, marking both the beginning and end of winter. Most of our seasonal migrants are birds, as it is much easier to fly long distances than to cross them by foot. Regardless, there are still many risks associated with traveling these many miles, as food along the migration route is

uncertain. Our hummingbirds, namely the Rufous, Calliope and Anna's, travel in a clockwise loop, north along the Pacific, then inland in summer, and south along the Rockies to central Mexico. These tiny birds journey thousands of miles every year, following the warm temperatures. The Calliope Hummingbird migrates farther per gram of flesh than any other warm-blooded creature.

Given the risks that come along with migrating thousands of miles, many animals adapt so they can stay in the forest year round. Some deal with the colder temperatures and scarcity of available nutrients by entering hibernation, a survival method that slows the metabolism down tremendously into an almost coma like state. These hibernators include chipmunks, amphibians, bears, and some species of squirrels. The Mourning Cloak butterfly hibernates as well, but sometimes can be seen flying around

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From the Executive Director

Opal Creek Belongs to Everybody



Tom by the Three Pools area in early January, before the big storm

The concept of ownership has existed for thousands of years in many different forms, and every culture, no, every person, has a unique understanding of it.

Prior to the settling of the Oregon Territory by white explorers, the indigenous peoples of this area would gather at Opal Creek annually for barter, exchanges, and summer recreation. Their relationship to the land was not one of ownership, certainly not in the Western sense of the word. They considered themselves to be stewards of the land, not owners.

In the mid-1800s hard rock miners staked claims to the land. Later on Grandpa Hewitt, my maternal grandfather, consolidated those mining claims under a variety of corporations. When he died, we sold the property for financial reasons. Luckily the buyers, Thurston and David Twigg-Smith, were friends and sympathetic to our preservation cause. Under their ownership the mining claims became Shiny Rock Mining Corp.

Most of you are aware of the legal battles initiated by my cousin George Atiyeh to protect the entire Opal Creek watershed. In 1989, George founded our organization's first incarnation, Friends of Opal Creek. The Twigg-Smiths donated the Jawbone Flats property to Friends.

On November 12, 1996, landmark legislation creating the Opal Creek Wilderness and Scenic Recreation Area became law. All past mining claims were turned over to public land, except the 15-acre in-holding of Jawbone Flats. This historic mining town stayed in our name.

Twelve years following this historic event, Opal Creek Ancient Forest Center remains the legal owner of Jawbone Flats. When I was appointed Executive Director, it dawned on me how many different concepts of ownership (and non-ownership) have applied to Jawbone Flats over the years. Here is a property that was very dear to me and owned by my family. Then we sold it, and years later I have the responsibility to guide the operation again. Luckily I share this responsibility with a very capable staff and Board. In fact, we recently welcomed two new members to the Board, Sean Sullivan and Dave Taylor. Their respective expertise with managing facilities and supervising finances are a great asset to our team.

However, we can't possibly "own" this by ourselves. Please help out and let's all share in the ownership. Here are a few things you can do:

- It's been awhile since many of you have visited the forest. Schedule a hike to Opal Creek this summer and see what we've been up to.
- This winter was a big drain on our resources. Please consider increasing your financial contribution to us.
- Word of mouth promotion is a powerful tool. Ask one friend or relative to become a member. They can do this online. Make sure they note on the payment screen who sent them our way.
- If you belong to a club or organization that hosts outside speakers at meetings, please consider asking me to make a presentation.
- Check out our online wish list under the "Support Us" section.

I thank you for helping steward this amazing forest, and for supporting our organization.

See you in the woods ---

Tom Atiyeh
Executive Director

STAFF

Tom Atiyeh
Executive Director

Katie Chipko
Instructor

Justin Gardiner
Instructor

Ali Jackiw
Development Assistant

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MISSION

Promoting ancient forest stewardship through educational experiences inspired by Opal Creek's natural and cultural history.



The Language of Opal Creek

by Ali Jackiw

If you're receiving this newsletter in the mail, then you probably already agree with me that Opal Creek is a place of exceptional beauty. Time and space seem to take on a whole new meaning in the gentle unfurling of a fern fiddlehead, or the overpowering magnitude of a 1,000-year-old cedar. From the moment I step onto the sunlight-speckled forest floor, and drink in a deep taste of that subtly fragranced air, my experience of the world shifts dramatically. My movement slows, my breath deepens, and the words and images running through my head begin to transform. Suddenly I'm not thinking about deadlines, meetings, or what's for dinner tonight; I become fascinated with the unbroken, steady gait of a caterpillar's journey from pebble to twig, the see-saw trail of a vine maple leaf floating to the ground.

When we enter wild places like Opal Creek and tune our focus to the rhythms of the natural world, we are changed, at least temporarily. Furthermore, there is a quality inherent to our experience that demands to be shared, to be acknowledged or recorded in some way that others may understand it. Some people use color and canvas to move their experience into a communicable form; others translate it into music or dance. Still others find that words best reveal the clearest truth of what they are feeling.

When we turn to language in these situations, however, we cannot approach it from a mechanical perspective. If we use it as a tool for conveying information, it will be unable to serve our particular purpose. To express the depth of

this kind of experience, we must use language in an uncommon way, as an instrument of inspiration and revelation. Only then can we produce work that, as Robert Frost said, "begins in delight and ends in wisdom... in a clarification of life — not necessarily a great clarification, such as sects and cults are founded on, but in a momentary stay against confusion." This fleeting state of clarity can be triumphant and often revelatory, but it is still only a representation of a world that is beyond representation. As ee cummings so eloquently put it, "His most wise music stole nothing from death." Neither will our words steal anything from the moving shadows of wilderness, but they can always serve as a humble gesture of gratitude for our admitted participation in nature.

Many admirers of Opal Creek have been called to impart their love for the forest in a literary way. Please take the following excerpts as testament to the unique power of nature to calm the mind, soothe the heart, and inspire poetry in all of us.

Come join acclaimed poet Amy Minato for the **Opal Creek Nature Writing Workshop**, October 4-5. Amy is the author of *The Wider Lens*, published in 2004. Her work has been widely recognized with both a 2003 Oregon Literary Arts Fellowship and a Walden Fellowship. In this workshop we will discuss and practice several techniques for translating into words those "inexpressible" moments in nature. A broad range of nature writers, including Henry David Thoreau, John Muir, and Annie Dillard, will be sampled.

Breathe a simple life
Taste the sound of a bird's song
See our hearts shine on
— Yoga workshop participant

The trees are tall and are home to so many different species. New growth fills the lower levels and covers the ground as the old towers over the top. Many different animals, plants, and natural surroundings are in the wilderness. Dirt at your feet and shades of green above your head.

— Jessie Burlando
Junior, Reynolds Natural Resource Academy

Free to let go of ownership
of these mountains.
They are returned to me
in spirit.

— Tom Atiyeh
Executive Director, OCAFC

I think about how every animal has its own intake. Beavers build dams, birds build nests. That's where they lay down to rest. Summer days and warm breeze always makes life feel easy.

— Amanda Clarke
Junior, Reynolds Natural Resource Academy

There's a secret
whispered only by a very few...
The river speaks the forbidden word,
as it rushes earnestly and steadfast towards the
vast, pulsing magnetism of the ocean
It is woven into the fibrous, explicit skin of the
massive cedars
and painted, raw and pink, across the late sky
as evening tames the sun...

— Ali Jackiw
Development Assistant, OCAFC

To protect and preserve, that is our mission.
Can we do it correctly? We will find out.

— Vadim Vityuk
Senior, Reynolds Natural Resource Academy



The Winter of 2008

by Tom Atiyeh

I've seen snow and I've seen big snow – this year we had really big snow! Not since 1949 has such a major low-elevation snow event hit Opal Creek. A late '49 snow storm dumped for several days and crushed the old ore mill. The miners at Jawbone heard on the Stayton AM radio station that help was on the way. One week later a Caterpillar punched through to camp. My Aunt Thelma often told me they didn't want rescuing, but then she was snowbound with five miners!

As I compose this review of winters past, please picture this – It is late April and I am sitting at the kitchen table in Cabin 4 with the snow outside still well above the windows. Our new staff members have moved in for the season and they are wondering what they've gotten themselves into.

The winter staff is telling them, "This is nothing; you should have been here two months ago!" They are right; this was an epic winter.

This winter topped 1968 when we asked our friends from the University of Oregon to help open the road. That was the year all the front porch dormers were pushed off the cabin roofs.

This also beat the snow level record of 1970 when George Atiyeh finally came slogging out on snowshoes to Stack Creek in June!

Our staff had to make the tough call and delay our season opening twice. It finally took a ten day, eight and a half mile push from the Henline Bridge (before Three Pools) with two tractors and one front-end loader to reach Jawbone Flats. I will never forget it when Aziz Atiyeh rounded the entrance into camp pushing a wall of snow with a D6 caterpillar. I can tell you that after being snowbound for about four months our staff was ecstatic.

Opening the road has allowed us to resupply camp and bring in our seasonal staff. As one of the only opened roads in the lower Cascades, we have a new throng of visitors. Quite the shock to our Jawbone friends who only saw a few intrepid cross country skiers all winter!

I thank Marlene Hirons for loaning us the D6 belonging to Tom Hirons, her late husband. Marlene spent the winter of 1972-73 in Jawbone and completely understood the situation. Thanks also to my cousin George and his son Aziz for the tractor work. You're



The Jawbone crew next to a very large cedar which snapped sometime this winter

right George, Aziz is definitely better at running a D6 than you are. Board Member Sean Sullivan called Rain Country Construction and they provided the tracked Bobcat that we used in delicate situations like the half-bridges. George and Lead Instructor Kaola Swanson also provided the air support for a mid-February air drop of much needed supplies.

Let's swap winter tales. Anyone who has wintered over in Jawbone please send me your pictures and stories to tatiyeh@opalcreek.org. We'll collect them in our archive and post to our website for all to share.

I'd like someone to top my story of swimming in partially frozen Opal Pool in January. Now that's a worthy challenge.



Opal Pool bridge at the height of winter

on rare sunny days. The general strategy for these hibernators is to enter a seasonal torpor where the heart rate and breathing rate are slowed dramatically, and the body temperatures brought down to just above freezing. The purpose of this is to conserve calories at a time when they are hard to come by. Occasionally these animals may awaken briefly to excrete, stretch, eat stored

Opal Creek Adapts to Winter

continued from cover

food, or forage.

Other species choose to stick it out and forage throughout the winter. These are the animals that tell their stories by leaving fascinating tracks and signs for us in the snow. This winter we followed bobcat tracks through camp as they chased raccoons, and caught sight of cougar markings that kept us on our toes in the areas surrounding Jawbone Flats. The two canine residents of camp were very curious when a coyote left a trail winding through town. The extraordinary snow pack meant that deer had a tougher time moving around. As we hiked in and out of Jawbone, we saw many mule deer moving very slowly in the snow, giving us a chance to observe them closely, and our cougars a chance to catch an easy dinner.

Winter lasted well into April this year, with the last snowflakes falling in Jawbone on April 30th. While we are still buried under three feet of snow, things are starting to reappear as the snow melts. The informational signs throughout Jawbone are peeking out again, and trees buried all winter long are coming out of their dormancy. California Tortoiseshell butterflies flitter about, and the Trilliums are beginning to bloom in the melted out areas of the forest, almost two months later than normal. The views out of the cabin windows are beginning to show more than just a wall of snow, and the water levels are rising in the creeks as the forest and Jawbone Flats come out of a deep winter freeze. Best of all, the Varied Thrush is back, telling us all that spring is on its way to Jawbone.

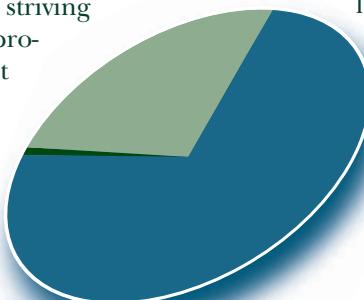
Small is Sustainable

by Kaola Swanson

When standing in front of a group of 4th graders, I often struggle to describe "sustainability." I ask them to think about sustained notes in music, and have them hold a note, off-key and wavering by the time it draws to a close. "Notice how the note persists," I say, "but you need to replenish your breath to keep it going for a long time." Sustainability is a difficult concept to describe to anyone. In general, we can define sustainability as striving to meet the needs of the present without compromising the ability of future generations to meet their own needs (Brundtland Report 1987). It encompasses large scale structural and social change and it applies to individual choices. Many changes have been made across the world in the name of sustainability, with tangible and impressive results. Even very small changes to our daily routines can have a large cumulative impact. When we talk about power generation however, the question of scale becomes increasingly important. Changes we make on a small, individual scale to become more sustainable cannot always be applied to a larger population. Hydro-electric power is a great example of the relationship between scale and sustainability.

At Jawbone Flats we rely almost entirely on our hydro-electric system to generate electricity. The water that powers this system is captured from a small stream about a mile away from camp. Less than 10% of the water from the stream is used, and even this portion is returned to the watershed after it generates our electricity. The water flows into a pipe that narrows as it moves downhill and into our hydro shed. Inside the hydro shed, the water is piped out of a small nozzle at a pressure of 135 psi (pounds per square inch). This powerful jet of water fills the cups of our Pelton wheel, causing it to spin 900 times per minute. This in turn causes the attached turbine to spin very fast. It is attached to the generator where magnets spin quickly around coils of copper wire. This is where the electricity is actually generated.

At Jawbone Flats, our hydro-electric system can make up to 11 kW, enough electricity to power all of our buildings and appliances. On average however, we only make 7kW, and during the summer when the water levels are low, we make even less power. Sometimes, water flow is so reduced that we are unable to generate enough power with our hydro-electric system. In the past, we depended on propane for back up electricity, but now we have a "green" back up. Last year, thanks to funding from Portland General Electric Clean WindSM customers, solar panels were installed on our Commissary building. They collect enough UV rays to power the classroom and store excess electricity in two large batteries. These batteries can power all of camp for 24 hours. In



Estimated Power Use at Jawbone

- Hydro-Electric 74%
- Propane 25%
- Solar 1%

the summer, we use them at peak times when the hydro-electric system isn't making enough electricity to power all of camp.

Our hydro-electric system provides power for 60 people at its maximum capacity. It qualifies as a micro-hydro system because it produces less than 100 kW of power. Providing power to an entire city of people requires a much larger, industrial hydro-electric system. The key ingredient in industrial scale hydro-electric plants is a large body of water. To control the volume and pressure of the water moving through giant hydro-electric systems, we build dams. Hydro-electric power has the advantage of being a renewable source of energy that produces no waste even on a large scale. As good as it may sound, it's not that simple. Building a large dam involves seriously altering the natural landscape, diverting water courses, flooding naturally dry land, and forcing resident humans and other species to relocate.

What seems like a perfect solution for small communities or individual homes can become an environmental and social problem when applied to large populations. There are several ways to approach sustainable power. One is to investigate smaller production systems in your community. Installing solar panels on your home can be very cost effective over the course of just a few years, depending on your location and energy needs. Many power companies are also exploring alternative energy production, and you can often choose to buy power produced by these systems.

Over the course of each day, we are provided with an array of options- where and what to eat, how to dispose of our waste, where to buy our power, how to get from home to work or school. Although there aren't any universal solutions, there are many small, individual decisions. In our efforts to become more sustainable at

Jawbone Flats and around the country, it seems clear that the minor improvements made by each of our individual decisions do have a positive cumulative impact. As new research provides us with better and more efficient alternatives, we can each strive to live "sustainably."

Want to learn more about Sustainable Energy Systems?

Join us for our exciting new workshop **August 16-17, 2008**. \$150 per adult.

We will learn about Sustainable Power Systems, Active and Passive Solar Design and Energy Efficiency. Join Bruce Barney, the primary designer of our new micro-hydro generator, for a weekend learning about Opal Creek's off grid power system.

COMINGS and GOINGS

Our 2008 team is ready and excited for the start of the season in Jawbone. You will see some new faces, recognize some old faces, and are bound to miss a few of our past staff who have moved on to new adventures.

This winter was quite the year for our winter caretakers. Program Director Katie Ryan, Facilities Director Adam Mims, and Facilities Assistants Joe O'Neill and Peter Frost composed the winter 2008 team. We were snowed in without vehicle access from Christmas Day to April 13th. Lots of shoveling, snowshoeing, and games of Monopoly made up our winter.

Former OCAFC Lead Instructor Claire Lukens has departed Opal Creek for further graduate level studies in geology. Claire is currently enjoying the winter skiing in Bend, and will be moving on to graduate school at the University of

Wyoming in the fall. We are excited to welcome back Kaola Swanson as the Lead Instructor for our 2008 season. Kaola has spent the winter helping us out in the Portland office, filling in as our Interim Registrar while we conducted a search for the permanent staff member. Kaola is very excited to return to the forest.

We would like to welcome Suntara Loba as our new Registrar. Suntara is a native Oregonian, and visited Opal Creek many times as a child with her mother who was on the board of Friends of Opal Creek during the conservation campaign. She returns to Oregon after many years in New Mexico and is excited to be back among the tall trees and working on behalf of the forest that she enjoyed so much as a child. Suntara brings years of administrative experience with non-profits, and will now serve as the primary contact in Portland for all reservation inquiries.

JAWBONE JOURNAL

Winter 2008 will go down in history for the record amounts of snowfall received in the Cascades. Jawbone was no exception, and all told we received over 12 feet of snow this winter. As we gather to collect our thoughts for the Jawbone Journal, the snow is still falling and our windows are filling up again with fresh snow. It is March 26th.

November 18th As seasonal Jawbone staff move out for the winter, the first snow begins to fall. Winter is here. The forest is quiet.

November 22nd Thanksgiving Peter Frost returns to Jawbone for his third winter as a caretaker, fresh from a stint working on his family's island in the St. Lawrence River. The Jawbone residents enjoy a fabulous day of friends, food, and laughter. Friends from near and far journey to Jawbone to give thanks among the giant trees.

December 25th – Christmas Day Paul and LeAnne Pace join Peter and Adam for dinner in Jawbone as the snow really begins to fall. The Paces are the last to drive the road out of Jawbone as they leave that evening. By morning, 3½ feet of snow are on the ground. This marks the beginning of Jawbone being snowbound without vehicle access for the entire winter, and much of the spring.

December 31st – New Year's Eve Katie and Joe return after a holiday trip back east. They are able to get to the Three Pools' turn, thanks to the Paces. From there, they snow shoe the 7.5 miles to Jawbone through deep, untracked snow. Many large cougar prints are spotted near Stack Creek.

January 3rd & 4th The snow subsides for a bit, and Facilities Staff resumes work on some of their outside projects.

January 16th The first video conference call to ever happen in Jawbone occurs. Katie and Adam, unable to travel to Portland due to the snow, use Skype to participate in the board meeting.

January 19th Instructor Kaola Swanson and friends snow shoe in from Three Pools bearing lots of treats for the snowbound Jawbone residents. Fresh salad, fruit, and chocolate never tasted so good.

January 21st Katie, Adam, and Pete take a walk to Ruth Mine, lit by the full moon. It is cold in Jawbone (in the teens), and even colder up at the mine.

January 27th The snow begins again, and we brace ourselves for the "big storm."

January 28th – February 4th Jawbone is hammered with a 20-year storm. Ninety-four inches fall in 8 days and the 4 winter staff shovel all day, every day for 8 days to save our historic buildings from being crushed. Local communities of Detroit and Idana declare a state of emergency and the National Guard is deployed to help these communities deal with this amazing amount of snow.

February 1st We celebrate Adam's birthday while reaching the 100-inch mark for snowfall. We dig a pit for the grill and enjoy a delicious barbecue as the snow continues to fall outside.

February 9th Former OCAFC Instructor Colleen McGuire and her dad ski in from Elkhorn for the night. The snow line is 5 feet above the rails on the Gold Creek bridge.

February 16th Local pilot and champion of Opal Creek, George Atiyeh, and Instructor Kaola Swanson complete an airdrop of food for the Jawbone staff. The drop consists of mainly butter, beef, bacon, and chocolate. There are a few surprises in the drop, including a copy of *The History of the Donner Party*.

February 22nd With 5 plus feet of snow still on the ground, the decision is regretfully made to push the season opening back by 3 weeks, from April 12th to April 26th.

February 24th Peter and Minute Man flush a bobcat out from the small shed behind Cabin 9. Many bobcat tracks had been seen throughout



The staff relax in the "hot" tub after a day of shoveling roofs

camp, and now we believe they are hunting the raccoons living under the Battle Ax bridge.

March 5th The Jawbone crew heads up to Cedar Flats, cross country so as not to have to cross any bridges. We notice the Upper Opal Creek bridge has lost its railing on one side. Many large cedar trees are down over what is believed to be the trail. This is the first trip to Cedar Flats of 2008.

March 16th Joe sees 2 bobcats near the Kopetski bridge as he hikes out of Jawbone for a few days.

March 17th Peter discovers our newts have returned to the pond in lower Jawbone. Perhaps spring is on its way.

March 26th – 30th A late season storm slams Jawbone, dropping another 24 inches of snow. Shoveling begins again, and although the rest of the world is enjoying spring, it is still winter here in Jawbone.

We have begun to open the buildings and are working on opening the road to vehicle traffic. Our thoughts have turned to the upcoming season, staff have been hired, and we are looking forward to a great season. There will be snow piles in Jawbone long into the summer; it was just one of those years! We look forward to seeing you here in the forest.

– The Residents of Jawbone Flats

Note: Jawbone Journal was written on March 26th. We have now opened the road for vehicle access.

Thanks to Our Newest Bequest Donors

Opal Creek Ancient Forest Center recently received a very generous bequest donation. Our donors have chosen to remain anonymous, but I'd like to share a little bit about them and what motivated them to contribute to our cause. They were first introduced to OCAF on a day hike organized by The Nature

Conservancy. The first thing that struck them was the clarity of the water. Although they've traveled extensively through Colorado and the Pacific Northwest, they have never seen anything as beautiful as Opal Creek, before or after that fateful first meeting. Our generous donors chose to write OCAF into their will because they believe

in our mission of education and environmental protection, and they know that giving to a small, local organization maximizes the impact that their contribution will have. For more information on bequest donations, please contact Development Assistant Ali Jackiw at ajackiw@opalcreek.org or 503-892-2782.

Thank You! (donors between 9/1/07 and 3/28/08)

Forest Patrons (\$500+)

Richard Atiyeh
Tom and Leslie Atiyeh
Jean Baumann
Mary Ann David
In honor of "Tommy" Atiyeh
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Jim Green
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