

Peaceful Spirit 2014

The 2014 Peaceful Spirit Outing was a huge success. It was attended by 120 veterans from five different states, including five people from Phoenix, Ariz. We also had a veteran up from Shurz, Nevada as well.

The event consisted of fly fishing, fly tying, camping, salmon bake, sweat lodge, and a lot of healing. There were also people that brought drift boats and we did an all day float from Dry Creek south to South Junction, which was enjoyed by all who participated.

The positive impact that this event had on each and every person is unexplainable. There were a lot of cleansing tears shed and a lot of healing laughter and hugs as well among all the vets and people who were present. Simply cannot put into words the overall feeling of positive energy and love that was heartfelt by all who attended.

I would like to personally thank each and every individual that stepped forward to donate their time

and services to make this event a success. Without your help it would not be possible. Thank you Linda Larson for the pics of the event, which can be viewed at: Lindawarrenlarson.smumug.com/Peaceful-Spirit

Password will be KCGreen.

A big thank you to the sponsors and people who donated.

Sponsors: Bullet Rental of Madras, Safeway, Erickson's, Warm Springs Market, Noree's Plume, Resist-all Gutters, Warm Springs Fire Management, Warm Springs Utilities, Bend PHW chapter.

Volunteers: Starla Green, Charles Tailfeathers, Roma Cartney, Diamond Tewee, Leslie Robinson, Sheridan Hale, Kedo Olson, Deanie Johnson and crew, Tyson, Riata, and Di Green, drummers and dancers.

Once again, Thank You.

Casey Green

Canoe Family: Journey to British Columbia

(Continued from page 1)

N'chi Wanapum is not new to partnering with another tribe to increase efficiency, Jefferson said. In 2011, Warm Springs Canoe Family partnered with the Clatsop-Nehalem Tribe of Tillamook County, a progressive and establishing tribe.

The Clatsop-Nehalem tribe had a canoe with limited pullers, and Warm Springs had one canoe with a significant number of pullers.

"The two tribes have pulled together every year since," Jefferson said, "although this year Clatsop-Nehalem will be keeping their canoe home and sending only a couple of pullers with the Warm Springs crew."

July arrival

The Heiltsuk Nation of Bella Bella, British Columbia, are anticipating 100 canoes this year. The arrival date is July 13. The families will participate in the cultural exchanges and sharing until July 20.

N'chi Wanapum is yet to confirm their departure date to arrive within that time period, while Nisqually is strongly considering June 17 in Suquamish, Wash., across the bay from Seattle.



Canoe Family N'Chi Wanapum members.

Courtesy of Jefferson Greene

There will be approximately three variable days off of travel during the journey. Participants' ability to be extremely flexible is incredibly important to the function of the entire group.

The Warm Springs Canoe Family is seeking experienced Canoe Journey pullers, drivers and cooks for this year, requiring determination and commitment. All expenses paid. Requires a 35-day commitment. Call 541-553-3205 to get your background check submitted.

Getting across the border will require one of four options:

1. A Passport. This takes two to four weeks, and costs approximately \$130.

2. An enhanced drivers license. This is available to Washington residents only.

3. Birth Certificate (original or notarized) and Photo ID (preferably state, tribal okay sometimes).

4. Copy of the Jay Treaty with proof you are 50-percent Native.

It is strongly suggested that if you can fulfill the first option, great, if not, consider the second option; if not, etc...

All participants with a background clear of DUIs and felony charges will not have a problem getting across the border. If particular participants are unable to be granted access into Canada, neither tribe can pay for participants way back home due to the high cost of near \$1,000

each. Canoe Journey positions in particular need are a boat driver, and pullers able to be on water from four to twelve hours for 25 days with only 5-plus days off in between.

We are also seeking a large 12-plus passenger van or bus.

Canoe practices are held every Saturday, beginning at the Museum at Warm Springs at 9 a.m. Canoe Family meetings are either Thursdays and/or Mondays at 6 p.m. at Culture and Heritage.

The Nisqually Indian Tribe is also gearing up to be the host of Canoe Journey 2016.

You can reach Jefferson Greene 541-553-3290 or 541-460-3004. Or by email: Jefferson.greene@wstribes.org

Metal in hatcheries may distort steelhead sense map

By Michelle Klampe
Oregon State University

Exposure to iron pipes and steel rebar, such as the materials found in most hatcheries, affects the navigation ability of young steelhead trout by altering the important magnetic "map sense" they need for migration, according to new research from Oregon State University.

The exposure to iron and steel distorts the magnetic field around the fish, affecting their ability to navigate, said Nathan Putman.

Putman led the study while working as a postdoctoral researcher in the Department of Fisheries and Wildlife, part of OSU's College of Agricultural Sciences.

Just last year Putman and other researchers presented evidence of a correlation between the oceanic migration patterns of salmon and drift of the Earth's magnetic field. Earlier this year they confirmed the ability of salmon to navigate using the magnetic field in experiments at the Oregon Hatchery Research Center. Scientists for decades have studied how salmon find their way across vast stretches of ocean.

"The better fish navigate, the higher their survival rate," said Putman, who conducted the research at the Oregon Hatchery Research Center in the Alsea River basin last year. "When their magnetic field is altered, the fish get con-



John McMillan/courtesy of Oregon State University

Steelhead trout return to spawn.

fused."

Subtle differences in the magnetic environment within hatcheries could help explain why some hatchery fish do better than others when they are released into the wild, Putman said. Stabilizing the magnetic field by using alternative forms of hatchery construction may be one way to produce a better yield of fish, he said.

"It's not a hopeless problem," he said. "You can fix these kinds of things. Retrofitting hatcheries with non-magnetic materials might be worth doing if it leads to making better fish."

Putman's findings were published this week in the journal *Biology Letters*. The research was funded by Oregon Sea Grant and the Oregon Department of Fish and Wildlife, with support from Oregon State University. Co-

authors of the study are OSU's David Noakes, senior scientist at the Oregon Hatchery Research Center, and Amanda Meinke of the Oregon Hatchery Research Cen-

ter.

The new findings follow earlier research by Putman and others that confirmed the connection between salmon and the Earth's magnetic field. Researchers exposed hundreds of juvenile Chinook salmon to different magnetic fields that exist at the latitudinal extremes of their oceanic range.

Fish responded to these "simulated magnetic displacements" by swimming in the direction that would bring them toward the center of their marine feeding grounds. In essence, the research confirmed that fish possess a map sense, determining where they are and which way to swim based on the magnetic fields they encounter.

Indian Head Casino

— Employee of the Month —

Effie Goodlance

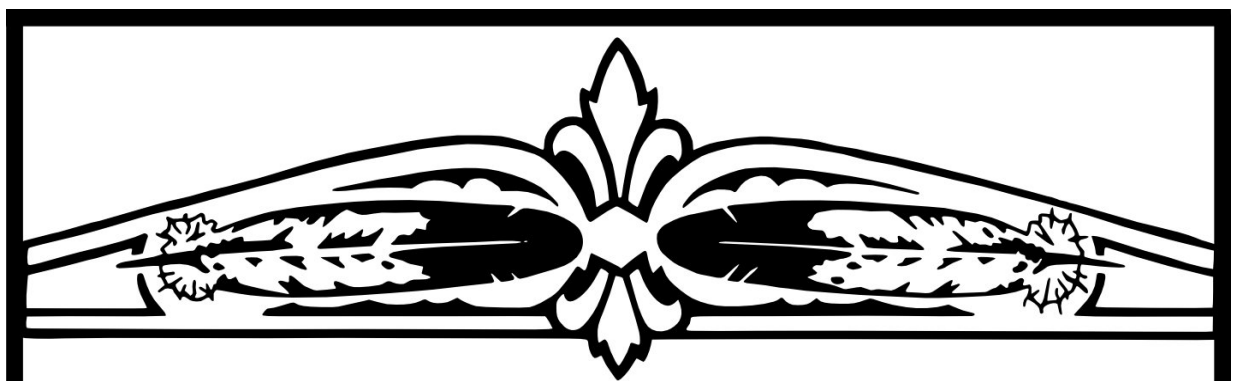
Effie Goodlance was named the Indian Head Casino Employee of the Month for May.

Effie is a cage cashier at the casino. She is an awesome team player, and approaches her job with an upbeat and positive attitude.

Effie is very friendly, and helpful to Indian Head guests.



Congratulations, Effie!



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Driver class for seniors

AARP will host a Smart Driver Class for seniors ages 50 and up at the Family Resource Center on Thursday, June 19, from 9 a.m. to 4 p.m.

There will be a one-hour off for lunch (not provided).

Class is Oregon DMV accredited and focuses on Oregon traffic laws. Participants completing the course may

receive a vehicle insurance deduction as provided by Oregon Law.

To register call 541-553-1078 or visit the Warm Springs Library. Registration is free for tribal members. Class size is limited to 25. Registration provided by Warm Springs Health and Human Services Branch.