



Daily Astorian/File Photo

Lee Cain, Astoria High School's fisheries instructor, pulls a mort, or salmon carcass, out of Plympton Creek to show to his students during a field trip in 2010.

Cain: 'I put nature in front of them and have them look at it'

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The award is the highest bestowed by the U.S. government on a K-12 teacher. Cain was nominated by Jeremy Hirsch, a middle school social studies teacher in Seaside whose son Elijah attends Astoria High School and has taken several classes from Cain.

"His love of science and field studies and the creation of the fisheries program is such a blessing for Astoria to have at the high school," Hirsch said. "He had unending passion for working with students to grow into young scientists."

Cain will be honored by the Oregon Science Teachers Association next week in Bend.

Hands-on science

"I've always felt that the No. 1 thing is to get them doing the science, rather than telling them about it," Cain said of his teaching style.

Eldon Korpela started Astoria's aquatic biology program in 1972. Following him was instructor Gus Fennerty.

Before coming to Astoria in 1997, Cain taught for three years in Wenatchee, Washington, after five years

of fieldwork with wildlife agencies from Alaska to Florida.

Over his 19 years at Astoria, Cain has helped build up the Eldon Korpela Applied Science Center, which was built in 2003 as part of a district bond measure. The hatchery there receives between 20,000 and 30,000 Chinook salmon eggs and about 5,000 coho eggs, flushing the grown fish down a small creek into Youngs Bay each year.

Cain has partnered his classes with various agencies throughout the years to monitor wetland conditions near the Astoria Regional Airport, survey for aquatic life, study the effect of fire retardants on invasive mussels and countless other projects in the field.

Cain assigns his fisheries students a fish tank on campus, filled with tropical African cichlids. He takes students to his alma mater, Oregon State University, each year, to compete in the

National Ocean Sciences Bowl.

"I put nature in front of them and have them look at it," Cain said, noting biologist Edward O. Wilson's "Biophilia," which contends people have an inherent love of nature. "I don't have to do much when they do that."

Cain said he got the connection with nature from his parents, both artists, and has wanted to be a marine biologist since he was 7 years old.

"I grew up on 30 acres in southwestern Oregon," he said. "I've been splashing in creeks, catching fish and climbing over mountains since I was tiny."

And Cain hopes to at least pass that connection on to his students.

Next level

As one of five state-level finalists in science, his application is in the running for Oregon's national Presidential Award, which is announced in July. A committee reporting to the National Sci-

ence Foundation selects one science teacher from each state, along with Washington, D.C., Puerto Rico, the U.S. Department of Defense's Education Activity schools and U.S. territories as a single group. One math teacher is also selected from each area.

Each national awardee receives a signed certificate from the U.S. president, a \$10,000 award from the National Science Foundation, a trip for two to Washington, D.C., to be honored and a chance to speak with policymakers about how to improve science or math education.

Cain said he has been nominated for the Presidential Award before but turned the honor down because of the work it takes videotaping his classes and analyzing his teaching style for the application.

"There are a lot of fantastic teachers out there," Cain said, calling himself a long shot to win the national honor. "Most of us are way too busy to self-promote."

Brewery: New breweries expected to draw younger crowds

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collaborate with "craft beer pioneer" Fred Bowman, founder of Portland Brewing Co., and Big Dog Brewing Co., based in Las Vegas, to produce seven of its own craft beers with a 10-barrel brewing system — producing up to 800 barrels per year.

Public Coast Brewing aims to distribute bottles or cans on the North Coast by late 2016. They plan to brew root beer on-site and serve five rotating beers from brewery partners.

Relationships are already strong with local breweries Fort George Brewery and Buoy Beer Co., Snyder said, and he knows "one of the guys with Seaside Brewing."

Pelican Brewing Co.'s owners Mary Jones and Jeff Schons, are longtime acquaintances, he added.

Martin Hospitality Chef Will Leroux will serve as brewmaster and oversee beer recipes and production.

"We are truly blessed with major investments being made in craft brewing and the restaurant business here in Cannon Beach," Chamber of Commerce Executive Director Court Carrier said.

He called food and beverage a "nucleus" for the city, adding that Martin Hospitality has hugely benefited Cannon Beach as its oldest and largest employer.

Public Coast and Pelican's arrivals provide "a remarkable opportunity for Cannon Beach to delve into

a new market and demographic, Carrier said.

He expects the new breweries will draw younger crowds — the average Cannon Beach visitor is retirement age — and those interested in the brewing scene.

Architect Mike Skidmore designed a Northwest theme "evoking where forest and sea come together" for the new brewery, according to owners. Features will include a wrap-around bar, large windows to view beer-brewing operations and an outside dining patio.

The Lumberyard, purchased by Ryan and Stephanie Snyder in 2004 as part of the Martin Hospitality family of properties, closed Oct. 3 to undergo the five-month renovation.

The location served as a lumber company until Ken Clark turned it into Clark's Restaurant. Hence the Lumberyard name when the Snyders took over.

Ryan Snyder said the restaurant's history "will be encapsulated in the historical references on the inside."

"From the beginning, my vision for The Lumberyard was to transform the restaurant into a brewery that local residents and visitors to the Oregon Coast could enjoy," he said. "We're excited to move forward with a project that's been a lifelong dream for me. We look forward to offering a unique new venue on the North Coast, and leaving our mark on Oregon's respected beer culture."

Workshop looks at fish passages

The Daily Astorian

SEASIDE — A Fish Passage and Habitat Workshop, offered by the Oregon Forest Resources Institute Wildlife in Managed Forests Program, is 8:30 a.m. to 4:30 p.m. Oct. 27 at the Seaside Civic and Convention Center. There is no cost for this event, and lunch is provided.

The morning agenda includes:

- A welcome by Julie Woodward of institute;
- Oregon Plan Overview by Greg Apke of the Oregon Department of Fish and Wildlife;
- Introduction to Restoration by Guillermo Giannico of the Oregon State University Extension;
- Introduction to Fish Passage, Fran Cafferata Coe of the institute;
- Voluntary Forest Practice Measures, Kyle Abra-

ham of the Oregon Department of Forestry;

- Economics of Fish Passage by Justin Isle of Aquatic Contracting;
- Thinking Like a Fish, Guillermo Giannico; and
- Logistics and Project Planning, Melyssa Graeper of the Necanicum Watershed Council.

The afternoon is being spent on the Lewis and Clark Tree Farm, managed by Greenwood Resources, visiting a recent culvert replacement, an obliterated road and a habitat restoration project. Those attending should come prepared with sturdy shoes and field clothes.

To register, go to <http://bit.ly/1JGkYHm>; the deadline for registration is Oct. 18.

For information, or trouble registering, contact Kathy Storm at 971-673-2953 or storm@ofri.org

BONNEVILLE POWER ADMINISTRATION



Columbia Estuary Ecosystem Restoration Program

The Bonneville Power Administration and the U.S. Army Corps of Engineers are proposing to conduct a programmatic environmental review of a suite of estuary restoration activities that are currently reviewed on an individual basis. A programmatic assessment could result in cost savings and other efficiencies by reducing the time and effort needed to review and issue permits for restoration projects without compromising environmental protections. We want to hear from you on what should be included in the analysis.

The Columbia Estuary Ecosystem Restoration Program was developed to protect, restore and monitor fish and wildlife habitat in the Columbia River estuary and satisfies restoration obligations as defined in the Northwest Power Act, Water Resources Development Act, and biological opinions for the operation of the Federal Columbia River Power System.

The program covers all low-lying, tidally-influenced portions of the Columbia River and its tributaries that are currently or were historically tidally influenced upstream to Bonneville Dam. This includes portions of Pacific, Wahkiakum, Cowlitz, and Clark counties in Washington and Clatsop, Columbia, and Multnomah counties in Oregon.

BPA is accepting comments on the proposal through Nov. 4, 2015. You may submit comments to BPA online at www.bpa.gov/comment or fax comments to 503-230-3285. You also may call us with your comments toll free at 800-622-4519. Please reference "Columbia Estuary Ecosystem Restoration Program" with your comments. We will post all comments we receive on our website at www.bpa.gov/comment.

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