

Ales & Ideas: math and music

ASTORIA — Clatsop Community College and Fort George Brewery are pleased to announce the February event for the Ales & Ideas community lectures, held the first Thursday of the month.

On Feb. 1, Math Instructor Rich Beveridge presents “Mathematics & Music.” Doors open with food and beverage service at 6 p.m.

Seasonal beers will be on tap, and food and other beverages available for purchase (but no purchase is required). The Fort George Lovell Showroom is located at 14th and Duane streets in Astoria. Minors are welcome.

“Doe, a deer, a female deer. Ray, a drop of golden sun. Me, a name I call myself ...”

Many of us grew up with Do Re Mi Fa So La

Ti Do, but few understand the mathematics behind the diatonic scale made famous in “The Sound of Music.”

The ancient Greeks knew that the length of a vibrating string was mathematically related to the tone it produced and developed the seven-tone diatonic scale and seven-stringed lyre.

During the Renaissance, this scale was extended by European musicians to develop the 12-tone even-tempered scale. The process they used can be adapted to create other types of even-tempered scales. This month’s Ales & Ideas presentation explores the interconnections between two of humanity’s greatest expressions: math and music.

Beveridge, amateur



Math Instructor Rich Beveridge

guitarist and professional mathematician, will explain the math behind music, how it has informed not only the history of musical composition but also instrument

design. Come experience the marriage of music and mathematics — see the beauty in mathematics, and hear the patterns and formulas in music!

Beveridge began his career as a high school math teacher in 1994. He taught at Hopi High School in Arizona and several high schools in Maine before re-

turning to school in 2000 to earn bachelor’s and master’s degrees in mathematics at the University of Maine. He’s been teaching at CCC since 2004.

COURTESY CLATSOP COMMUNITY COLLEGE

Fish for information at Nature Matters

FORT CLATSOP — Oregon’s ocean is a place of incredible productivity and amazing biodiversity. The state is taking steps to protect its treasures through a new system of marine reserves.

At the next Nature Matters — 7 p.m. Thursday, Feb. 8, at Fort George Brewery’s Lovell Building — Dr. Kirsten Grorud-Colvert will take us underwater to show how Oregon’s unique ecosystem supports the incredible journey of fishes traveling from open ocean, to nearshore waters, to the deep offshore.

She will explain how we can learn from fishes that settle in protected habitats by tracking when and where they end up, and how this knowledge can help inform successful protection of Oregon’s ocean ecosystems and the benefits they provide.

The free event is open to the public. Doors open at 6 p.m. to purchase dinner or beverages.

Grorud-Colvert is a marine ecologist and assistant professor in the Integrative Biology Department at Oregon State University.

Nature Matters, a lively conversation about the intersection of nature and culture, takes place on second Thursday of each month, October through May. The conversations are hosted by Lewis and Clark National Historical Park in partnership with the North Coast Watershed Association, the Lewis & Clark National Park Association and Fort George Brewery.

For more information, call the park at 503-861-2471, or check out nps.gov/lewi or Lewis and Clark National Historical Park on Facebook or Instagram.



Dr. Kirsten Grorud-Colvert
COURTESY LEWIS AND CLARK NATIONAL HISTORICAL PARK

Yacht not to miss this talk

ASTORIA — The Astoria Yacht club will present a talk by professional yacht surveyor Alison Mazon 6 p.m. Thursday, Feb. 8.

Mazon is among the foremost surveyors in the Portland area, and has an excellent reputation in the yachting community. She will present information designed to help the prospective yacht buyer, as well as those preparing to sell their boat, to avoid conditions which might be a source of regret later.

Mazon will also discuss some of the ins and outs of the purchasing process and answer questions from the audience. Don’t miss this informative program designed to make the “two happiest days of a sailor’s life” serene and satisfying.

There is no charge for this presentation, and it is open to everyone, not just to club members. All talks will be at the clubroom (300 Industry St., Suite 201) in Astoria at the west boat basin.