



PHOTO COURTESY HIGH DESERT GROTTO

Caver and post-doctorate researcher Gilly Elor doing what she likes to do best, conducting research far underground.

Physicist to share six years of caving

By Jim Anderson
Correspondent

Cave explorer Gilly Elor will be the featured speaker at the monthly meeting of the High Desert Grotto in Arbor Villa meeting room (behind Jake's in Bend) at 5 p.m. on Saturday, November 12.

If you're into caves, or want to know more about caving, what it's like to rope down into caves in Mexico, Slovenia, France, Austria, German Valley, Kentucky — or to be deep underground in water up to your chin with your head bumping against the ceiling of a cave — be there for this free program.

Elor, 31, has been caught up with caving since she was 10, when she kept coming back to the Moaning Caves near her home in San Francisco. She admits today that she didn't know at the

time why she was so attracted to caving, but whatever it was, it never let go. On family trips she would ask her family to stop at every cave they passed.

From 2002 to 2007 she earned her bachelor's degree in physics at the University of California, Berkeley, then went right on to her master's in 2007 and 2008, then on from 2008 to 2013 to earn her PhD in theoretical particle physics. Presently, she is doing post-doctorate work at the University of Oregon in Eugene.

But it will be her adventures in such places as the La Grieta underground complex that will be her topic of the evening at the High Desert Grotto meeting. If you'd like to get a glimpse of Elor gearing up for her descent into La Grieta, visit: <https://vimeo.com/166807852>.

Outlaws fall to Estacada in playoffs

By Rongi Yost
Correspondent

The Outlaws fell 26-6 to No. 5-ranked Estacada on Friday, November 4, bringing their season to an abrupt and disappointing end.

Estacada grabbed an early lead on their opening drive when Doug Kirchofer broke free and went 50 yards on a run up the middle for the touchdown. The Rangers scored again on another quick TD due to an interception. Sisters' quarterback, Johnny Gurney, was hit on a pass attempt, and the ball fell short and into the hands of Estacada's Wyatt Riedel, who ran untouched for the Rangers' second touchdown.

At the close of the first quarter, Estacada held a 14-0 lead. The Rangers scored in the second quarter on a 16-yard pass, which pushed them to a 20-0 advantage at the half.

After a scoreless third quarter, both teams scored a touchdown in the fourth period. Tanner Head scored Sisters' lone TD on a one-yard run, and the conversion attempt failed.

The Outlaws were plagued by turnovers and mistakes throughout the contest.

"Defensively, we were plagued by mistakes on the rushing attack of Estacada, whose triple-option [caused] us to play assignment football, and we had numerous breakdowns in this area, and allowed several big plays," said Coach Gary Thorson.

Sisters gave up over 250 yards on the ground, which was very uncharacteristic of their defense. Tyler Head was the Outlaws' leading tackler, with five tackles and three assists.

Thorson said, "It was obviously a very disappointing way to end the season, but we were once again proud



PHOTO BY JERRY BALDOCK

Jake Stevens catches one of several passes from Outlaw quarterback Tanner Head.

of how hard our players played, even when we were down. They kept their poise and represented their school well.

"This was a tremendous team in terms of how well they worked together, and their effort and focus in practice was exceptional. This group did some great things for the program, both on and off the field, and I am pleased

by what they accomplished. I can't say enough about the senior leadership we had this year, and in 20-plus years of coaching it was probably the best I have had on any high school team I was associated with. They are an outstanding group of young men who were a pleasure to coach [and] will be greatly missed in our program."

Frontiers In Science

MONTHLY SYMPOSIUM IN SISTERS

BIOMIMICRY:
Sustainable Innovation
Inspired by Nature

KAREN ALLEN
Teacher at Arizona
State University, Master
of Science degree in
Biomimicry & Certified
Biomimicry Professional

Biomimicry is an emerging discipline that looks to nature to solve human challenges. It integrates science, technology, engineering, and biology to create sustainable solutions: self-cleaning paint modeled after a lotus leaf and solar cells inspired by photosynthesis are examples of mimicking nature's genius. Biomimicry connects us to our home habitats and helps us live more sustainably.

Join Restoration Ecologist and Certified Biomimicry Professional Karen Allen for an inspiring evening of story-telling about biomimetic innovations and what we might learn from nature.

Tuesday, November 15
At The Belfry, 302 E. Main Ave., Sisters
One-hour lecture begins at 7 p.m.



Doors open at 6 p.m. for food and beverage.

Admission: \$5;
Science Club Donors,
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