

DAILY
PLANNER

TODAY

Today is Friday, Jan. 3, the third day of 2020. There are 363 days left in the year.



TODAY'S HIGHLIGHT

On Jan. 3, 2008, Illinois Sen. Barack Obama won Democratic caucuses in Iowa, while Mike Huckabee won the Republican caucuses.

ON THIS DATE

In 1833, Britain seized control of the Falkland Islands in the South Atlantic.

In 1868, Japan's Meiji Restoration re-established the authority of the emperor and heralded the fall of the military rulers known as shoguns; the upheaval paved the way for Japan's drive toward becoming a modern power.

In 1938, the March of Dimes campaign to fight polio was established by President Franklin D. Roosevelt, who himself had been afflicted with the crippling disease.

In 1961, President Dwight D. Eisenhower announced the United States was formally terminating diplomatic and consular relations with Cuba.

In 1967, Jack Ruby, the man who shot and killed Lee Harvey Oswald, the accused assassin of President John F. Kennedy, died in a Dallas hospital.

In 1977, Apple Computer was incorporated in Cupertino, California, by Steve Jobs, Steve Wozniak and Mike Markkula Jr.

In 1990, ousted Panamanian leader Manuel Noriega surrendered to U.S. forces, 10 days after taking refuge in the Vatican's diplomatic mission.

In 2013, students from Sandy Hook Elementary School in Newtown, Connecticut, reconvened at a different building in the town of Monroe about three weeks after the massacre that had claimed the lives of 20 first-graders and six educators.

CORRECTION

In the Jan. 1 article, "City drops ball on 2020" the correct name for the building where the ball dropped is the Phoenix Building.

LOTTERY

Megabucks: \$8.2 million
1-2-26-32-44-45

Mega Millions: \$60 million
30-44-49-53-56-11-x3

Powerball: \$237 million
49-53-57-59-62-26-x2

Win for Life: Jan. 1
10-53-66-76

Pick 4:

Jan. 2
• 1 p.m.: 7-4-2-2
• 4 p.m.: 0-7-1-6
• 7 p.m.: 2-1-3-6
• 10 p.m.: 5-2-9-8

Pick 4:

Jan. 1
• 1 p.m.: 9-1-7-0
• 4 p.m.: 9-5-8-6
• 7 p.m.: 3-5-3-4
• 10 p.m.: 5-4-7-8

NEWSPAPER LATE?

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QUOTE OF THE DAY

"Not all who wander are lost."

— J.R.R. Tolkien,
English author

Across
the
Outback

■ Baker County woman part of team that designed, built solar-powered car to compete in competition in Australia

By Lisa Britton

For EO Media Group

BAKER CITY — Sarah Spaugh's story seems to end almost before it starts.

Her story about racing a solar-powered car across the Australian Outback, anyway.

"Our car did not, unfortunately, finish the race," Spaugh said. "Our battery caught on fire — it burned up on the side of the road in the middle of the Outback."

Spaugh, 23, grew up in McEwen, near Sumpter. She has earned her bachelor's degree in mechanical engineering from Stanford University, and this month begins studying for her master's degree in electrical engineering.

Every two years a team from Stanford enters a solar car in the Bridgestone World Solar Challenge in Australia. The event, according to its website, "is primarily a design competition to discover the world's most efficient electric car."

Spaugh joined her first solar car team in 2016 during her junior year at Palo Alto — halfway through the two-year cycle.

"A full car is a two-year project," she said. "You spend six months just on aerodynamics."

That car raced in October 2017. She was part of the tech crew.

Spaugh's more recent solar car project ran from 2017 to the race in October 2019. This time she was on the leadership team.

The competition has been a Stanford tradition since the late 1980s.

"It's an established student club — one of the more life-consuming clubs," she said.

One year ago Spaugh's team of 22 students created a timeline for finishing the car's subsystems.

"We're notorious as a team for falling



Submitted photo

Sarah Spaugh of Baker County helped design and build Stanford University's solar-powered car that competed in an international competition last fall in Australia.

behind schedule," she said.

They should have had the vehicle finished and tested by the beginning of June 2019. But that month found the team members working from 9 a.m. to midnight in a rush to complete the car.

The team designs every part of the car. Some pieces they make on campus, while others are created by professional machinists.



Spaugh

"It's very much ground up," Spaugh said.

Her team didn't have much chance to test their design before shipping the car to Australia in August.

And testing is crucial to any invention.

"When you build something from scratch, the first time you take it out things will start breaking," Spaugh said. "It's worth it, a trial by fire."

Creating the car, she said, allows students to put theories learned in classrooms to work on a real-world project.

"The learning happens when you're designing, building, testing," she said.

She learned a lot about how cars work.

"I had a decent idea of how it worked in a gasoline car," she said.

"This showed me how it works in an electric car, down to the nitty-gritty."

Heading Down Under

To compete in the race, Spaugh and her teammates took a term off school. She arrived in Australia on Aug. 28 to arrange transportation, food and other logistics of supporting a team through the middle of the continent.

The rest of the team arrived Sept. 4. They spent the remainder of that month testing and tweaking their solar car while camping in the Outback.

Growing up in Eastern Oregon, Spaugh is no stranger to the outdoors. That wasn't the case with some of her teammates.

"You have people who had never

camped in their lives," she said.

During testing the Stanford team traveled the race course in reverse, from Adelaide north to Darwin. The route is approximately 3,000 kilometers (1,864 miles).

"It's a big experience being there," Spaugh said. "Getting the car functioning, and fixing it when it breaks down." During tests the team recorded data to determine how much energy the car uses at various speeds.

The goal, Spaugh said, was "to get the fastest time possible without running out of battery."

On a flat road with no wind, she estimates the Stanford car could go about 250 miles at 55 mph.

The team had five rental vehicles to haul supplies and one was outfitted with antennae to collect data transmitted from the solar car.

Although they'd struggled with a bug in the electrical system and issues with the motor controller, Spaugh said the car was working great as race day approached.

The Challenge ran from Oct. 13 to Oct. 20. The route started in Darwin in the Northern Territory and traveled the Stuart Highway to Port Augusta, and then Highway 1 to finish in Adelaide in South Australia.

The remote nature of inland Australia requires careful planning for gas stops and food supplies.

"There's a stretch where you go a couple days without a grocery store," Spaugh said.

The battery fire that ended the Stanford team's race is still a bit of a mystery. The students know it was caused by a short circuit, but they will have to wait until the car returns in a few months to investigate.

"Then we use it to teach the next generation of team how to solar car. Or how to not solar car," Spaugh said with a smile. "A big thing in engineering is learning from your mistakes."

Bend
police
make 2
arrests

■ Human trafficking investigation leads to two arrests

By Brenna Visser

EO Media Group

BEND — Two people were arrested during a human trafficking investigation in southeast Bend on Christmas Eve.

Around 1:20 p.m. Dec. 24, Bend police pulled over a stolen 2009 silver Dodge Charger near the intersection of Southeast Murphy and Southeast Country Club roads.

Jennifer Marie Johnson, a 40-year-old Portland resident, and Tyler John Charles Ford, a 29-year-old Gresham resident, were in the car along with a 15-year-old girl from Portland.

Officers identified the teenage girl as a missing person out of the Portland area.

Throughout the investigation, officers believed the teenager was being groomed for work in the commercial sex trade.

Heroin and methamphetamine were seized from the vehicle, along with stolen and forged identification documents. Several of the recovered documents were linked to thefts in the Portland area.

Johnson was jailed on suspicion of 10 counts each of identity theft, first-degree forgery and criminal possession of a forged instrument, and one count each of prostitution and unlawful possession of methamphetamine.

Ford was jailed on suspicion of unlawful possession of heroin and was found to be in violation of a restraining order for being in contact with the 15-year-old juvenile female in the vehicle.

Oregon could get new
Congressional seat

■ 2020 Census could yield sixth seat for the state

By Jeff Mapes

Oregon Public Broadcasting

SALEM — As the nation heads into the 2020 Census, Oregon appears more likely than ever to gain a sixth congressional seat, according to new population estimates.

The Census Bureau estimates released Monday show that Oregon's population growth — while slowing in the past year — remains strong enough to put the state in line for another seat.

"I think you're probably looking good" to gain an additional seat, said Kimball Brace, president of Election Data Services of Virginia. His firm uses several different models to project how congressional seats may be apportioned, and he said all of them show a sixth seat for Oregon.

However, he and other forecasters caution that some uncertainties remain. There's been controversy over whether some immigrant communities will be hesitant to participate in the 2020 Census given the Trump administration's moves to crack down on illegal immigration. And a major natural disaster or big economic shock could also have a sudden impact on the

Numbers get bigger

The new estimates show Oregon grew by 0.9% between July 1, 2018, and July 1, 2019, to a total population of 4,217,737. The state came close to gaining a sixth seat in 2010, and the state's growth since then has been relatively strong.

state's population. Brace said California is on the verge of losing a congressional seat for the first time in that state's history, particularly if there's an undercount among immigrants there.

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Under current law, it's the job of the Oregon Legislature

and Gov. Kate Brown to redraw district lines for both Congress and for legislative seats. However, the Oregon League of Women Voters and several other groups want to put an initiative on the ballot next year that would turn the job over to an independent commission.

Four of Oregon's five congressional seats are now held by Democrats. Both major political parties have been looking at how they could draw the lines of a new district to maximize their chances of winning an additional seat.

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