

THE UNIVERSE

Serving the Brigham Young University Community

NASA flight surgeon researches effects of space travel on human body

By JESSICA OLSEN

Blake Chamberlain has one of the most unique jobs in the solar system.

The BYU alumnus is a NASA flight surgeon, a physician who trains with and monitors astronauts' health both in and out of space.

Keeping an astronaut happy and healthy in space comes with its own unique challenges. Chamberlain said astronauts need to work out at least two hours a day in order to keep muscle from wasting away. Chamberlain gets closer to his patients than most any other physician by working with an astronaut for about two years before takeoff. He also spends months monitoring the astronaut's health from hundreds of thousands of miles away while his patient is in space. Following landing, Chamberlain works for another few months to help his astronaut acclimate back to earth life.

Part of Chamberlain's job is making sure his astronauts follow through with this plan. However, he said this kind of regime poses a challenge to something like visiting Mars.

"We're going to have a hard time keeping them healthy on their way to Mars because it is a small capsule," Chamberlain said. "We won't have those exercise machines that we have on a space station."

Chamberlain also said a major concern for such a mission is protecting astronauts from radiation. Such radiation causes a higher susceptibility for cancer even in astronauts who have spent a few months in space, let alone an entire trip to Mars.

NASA estimates with its current technology that it would take about eight months just to get to Mars. The person who has lived the longest in space is Scott Kelly, who stayed in orbit for a year. Kelly broke the record last March.

Scientists are still delving into the physical toll of living in space. NASA is currently studying the differences between Scott Kelly and his twin, Mark Kelly, who stayed on earth and acts as a comparison to Scott.

Chamberlain had the opportunity to assist with this particular project,



Astronaut Reid Wiseman, on left, and flight surgeon Blake Chamberlain prepare to fly to Stennis Space Center in the T-38 in September 2016. Chamberlain flies with astronauts to see them in an operational environment and experience being part of the crew.

although his colleague, Stevan Gilmore, was Kelly's assigned flight surgeon. Both Chamberlain and Gilmore said being flight surgeons allows them to double as both physicians and researchers.

"There are some things that we do medically that are monitoring for research, and there are some things that are just research, and there are some things that are both," Chamberlain said. "One of the dual things right now is we've noticed some changes in the eyes lately of astronauts."

Chamberlain said astronauts are getting folds in the back of their retinas and swelling in their optic disk. He said these changes in the eyes and the fact that astronauts burn more calories in space than on earth are two phenomena he is interested in studying.

"I can't figure out why that is. You'd think they'd use less calories, but they burn more calories keeping their weight steady more than they do on the earth," Chamberlain said.

Although the research aspect is both interesting and important to

Chamberlain, he said ensuring the safety of the astronauts is his main job. He said he does it not just because it's in the job description, but also because of the genuine friendship flight surgeons develop with their patients.

Chamberlain said flight surgeons train with their assigned astronaut, eat dinner with the astronaut's family and even stay in two-week quarantine with astronauts right before the launch. They check in with their patients through satellite phone and even advocate for the astronauts down on earth.

"During their flight, we're their advocate. If they're planning on working (the astronauts) during the weekend, we make sure they get their weekends off," Chamberlain said. "We're kind of an unofficial voice for them."

And in some cases, the flight surgeons even risk their lives for astronauts. Karen Chamberlain, wife of Blake Chamberlain, recalled one time when he called her right before NASA was supposed to travel to the landing sight of one of the shuttles. At the time, there was a serious blizzard in

Kazakhstan, where the astronauts would be landing.

"He called me saying they wouldn't even let the media go," Karen said. "He called me and said, 'Karen, I just want you to know that I'm going and only a few of us are going. I love you.'"

Chamberlain also agreed it was one of the more serious and frightening experiences of his career.

"They said, 'Sorry, it's too dangerous to send 13 helicopters, but we are sending two and you get to be in one of them.' And I was sitting right behind the gas tank," he said.

Chamberlain said he is accustomed to emergency situations, as he has a background in emergency medicine.

"He's a very patient and relaxed person, and I think that translates well in this environment because you have to make decisions without knowing all the information sometimes," Gilmore said.

Being far from his patients certainly is a challenge, but it is one Chamberlain finds thrilling. His wife said he often tells her, "ER is my work, and being a flight surgeon is my hobby."



Yusuf Maulana
An Indonesian Uliner highlines to a group space net inspired by Andy Lewis.

Extreme hammocking redefines 'hanging' out

By JESSICA OLSEN

Walk down any Provo street on a warm day and it wouldn't be surprising to see someone lounging in a hammock. It's just one of the many ways BYU students love to "hang" out.

But one Utah resident has taken to extreme hammocking: suspending a 2,000 square-foot hammock made of woven rope across a canyon with a drop more of more than 400 feet.

These woven hammock-like nets are also known as space nets. Andy Lewis, popularly known as "Sketchy Andy" and "Mr. Slackline," calls it thug mansion in reference to the 2Pac song. And he believes he has every right to call them what he wants — after all, he invented them.

Space nets are an off-shoot of slacklining and highlining, both sports that found a home in Utah's dynamic outdoors. A slackline is similar to a tight-rope, but, as the name implies, has slack. The slack requires individuals to frequently steady themselves as they walk on the one-inch nylon webbing beneath their feet by waving their arms above their head.

Highlining takes slacklining one step further by stringing the line up at extreme heights. Highliners are often attached to the line with a rock climbing harness called a leash.

Lewis said he didn't originally plan to use the space nets for highlining purposes. The invention began as backyard hammocks and nets in trees. Lewis describes his space nets as a "mix between a treehouse and a spider web."

He began stringing the nets in one tree and then made his way up to weaving nets spanning as many as 20 trees. Perfecting this new and unique craft took Lewis about seven years.

Since then, Lewis has traveled across the world, taking his thug mansion to places like Spain, Portugal and British Columbia. At one point, Lewis took his invention to the Borneo rainforest in Southeast Asia, where he weaved giant rope nets in trees.

"We basically set up the nets like the monkeys set up their nests," Lewis said.

One group of highliners didn't wait for a visit from Lewis and recreated the space nets themselves. These 20 individuals, from Bandung, Indonesia, call themselves Uliners. Uliner Yusuf Maulana, said they recreated the space net because of their "obsession with Andy Lewis."

"We in Indonesia want to socialize with this game (space net and highlining) because in Indonesia it is still rare," Maulana said. "There are not many who play slackline."

Maulana said his group weaved their own net from rock-climbing rope, similar to what Lewis does when creating space nets.

Highliners and slackliners in Utah and throughout the U.S. also revere Lewis as one of the best in the sport. BYU student Taylor Meadows said Lewis is "the man" when it comes to promoting the sport of slacklining and highlining. Meadows, who slacklined in 2010 when the sport was less known, attributes the sport's growing popularity in the U.S. to Lewis.

See HAMMOCKING on Page 3

Richards Building pool design draws reactions from swimming community

By ALICIA MATSUURA

A petition claims BYU's three pools and 2,000-person spectator area will be torn down and replaced by one eight-lane pool and a 500-person spectator area. The petition calls on BYU administration to rethink its plans to renovate the pool, and more than 3,600 people had signed the petition as of Nov. 9.

Since the petition was released, BYU administration has conducted meetings discussing the new design plan. "The current plan is to connect/combine two of the existing pools while preserving the warm-up pool," according to a post on the BYU Richards Building Pool Facebook page.

But university spokeswoman Carri Jenkins said BYU has not yet made a decision in any direction.

"We are currently looking at the needs of our aging pool facilities in the Richards Building," Jenkins said in an email. "However, we are still very early in the design process and have not finalized definitive plans. This is not an evaluation of the swim program."

The controversy became public as people shared the petition on social media. Michael King, a former athlete who swam for BYU from 2010-2015, said the university promised the swim team a better pool years ago.

"Twenty years ago they promised us a world-class facility," King said. "With this new plan, they're going the



Students practice swimming and diving in the Richards Building on Tuesday, Nov. 8. Many groups including the swimming and diving team and club sports, share the pool with an open swim hosted several times a week.

complete opposite direction."

BYU has brought in engineers to help with a new design, but King said coaches, RB facility managers and adaptive aquatics program managers should be the ones making the decisions. The swim coaches only recently began attending meetings about the design plans, he said.

"I personally believe there is progress being made," King said. "The whole purpose of the petition is not to take over the decision-making process, but those who are making the decisions should be the ones who are going to be affected by the change."

Bret Mortimer, a recent BYU

graduate who played and coached on the water polo club team, says swimmers and divers aren't the only ones who would be affected by the new plans. One of Mortimer's main concerns is decreased pool time for club teams.

"We have been fighting for pool time and recognition for a long time, and to see that if this plan follows through, we're not going to get pool time," Mortimer said. "Even though we're not the swim team, we care about what happens to this pool."

Mortimer said in addition to swimmers supporting the petition, it needs to be supported by members beyond

the swim community in order to make a difference.

"I've heard, from some people, that it's going to take signatures from the entire student body," Mortimer said. "If everyone could contribute signatures to petition, that's how a real change can be made."

Hannah Strauss, a sophomore in the pre-management major, is the current team captain for the BYU water polo club team.

Strauss started swimming competitively at 5 years old and continued throughout high school when she also picked up water polo. She uses the BYU facilities at least two to three times a week and said she's an active member of the swim community.

"I was shocked (about the new pool design) because I recognize that BYU's swim program is one of the best and that they've been expecting a better pool for years," Strauss said. "It's honestly hard to believe that they would make such a fundamental change to the pool when the program is so big and they want to make it even bigger."

Strauss said she believes the water polo club team is a program that could benefit the school if it were to become an extramural sport.

"Many students who are really good at water polo had opportunities to play at other schools but chose to come to BYU because of the academics," Strauss said. "With the current plans, water polo can't be a sport at BYU because there's not enough pool time and space."

UNIVERSE
newsbriefs
FROM THE ASSOCIATED PRESS



Lufthansa pilots' union threatens strike in dispute

A union representing pilots at Germany airline Lufthansa is threatening renewed strikes in a long-running dispute over pay. The cockpit union said in a release that it will announce 24 hours ahead of time how long and how widespread the strikes at the airline, Germany's largest, will be. The union says Lufthansa has been earning billions of euros but that pilots have been without raises for five years. It has made a claim that seeks to address that fact.



Vandals break tusk of Bernini elephant statue

Police in Rome are investigating the apparent vandalism of the famed Elephant and Obelisk statue designed by Gian Lorenzo Bernini in the Piazza della Minerva near the Pantheon in Rome. Rome cultural authorities said Monday that vandals overnight broke off the tip of the elephant's left tusk, which authorities recovered at the foot of the statue. Police were checking video in the area to identify the vandals. The statue of an elephant carrying an obelisk on its back was commissioned by Pope Alexander VII.



Nowhere to mooove: 3 cows stranded by earthquake

Three New Zealand cows looked like they could use a little help Monday after an earthquake triggered landslides all around them and left them stranded on a small island of grass. Video taken by Newshub news service from a helicopter near the small town of Kaikoura shows two adult cattle and a calf stuck on a chunk of land in a paddock that had been ripped apart in Monday's magnitude-7.8 quake. The patch of grass was surrounded by deep ravines of collapsed earth, trapping the animals where they stood.



Bikers help Springsteen on the side of the road

Coming across Bruce Springsteen on a broken down motorcycle on the side of the road could probably be a lyric from one of his songs, but it really happened for a group of guys from New Jersey. A group from the Freehold American Legion was riding after a Veterans Day event when Dan Barkalow says he saw a stranded motorcyclist up ahead near Allaire State Park in Wall Township. "Bikers gotta stick together," Barkalow said. "I stopped to see if he needed help, and it was Bruce."



Trump may revisit key states during a victory tour

Donald Trump may take a victory tour to states that elected him president, an aide said Saturday, as boisterous protests unfolded outside the tower where he holed up with members of his transition team and fielded calls congratulating him. When asked if he'd take a victory tour soon, Trump's campaign manager Kellyanne Conway said: "It's possible. It's possible. We're working on the schedule." Conway said Trump's next public appearance is expected "in the next couple of days."

Police Beat

BYU

VANDALISM

Nov. 8 – Four cars at Wyview had their windows shattered by an unknown suspect. No property was stolen from any of the cars. The estimated cost of the windows is \$300 each.

Nov. 9 – A male student in Helaman Halls was caught on camera forcing the doors of an elevator to shut, which made the elevator shut down. The student apologized and relieved a warning from University Police. Repairs cost \$150.

THEFT

Nov. 8 – A female student's wallet reappeared in her desk drawer after being stolen a week earlier. Cash and three gift cards worth \$95 were taken from the wallet when she found it.

Nov. 8 – A female student's bike parked by the Spencer W. Kimball Tower was reported stolen. The bike is estimated to be worth about \$500.

OREM

THEFT

Nov. 8 – A man and a woman wearing BYU sweatshirts were

caught on security tape leaving Smith's with a grocery cart full of unpaid items. When confronted, the couple ran. Police are now searching for the suspects.

Nov. 13 – Police found a stolen car and arrested the two individuals who stole the vehicle. When confronted by police, the individuals gave officers false information about who they were. Police charged them with obstruction of justice and theft.

TRESPASSING

Nov. 10 – Three adults were charged with trespassing after they brought their kids to an under-construction playground that was clearly marked closed with fencing, signs and police tape.

PROVO

CRIMINAL MISCHIEF

Nov. 7 – A woman was hit and killed by a FrontRunner train going no faster than 30 mph. Police are ruling it a suicide.

Nov. 11 – A 53-year-old man was hit by a car on University Avenue and 300 South. The car fled the scene, leaving the man in bad shape. The man is still in the hospital in critical condition.

Campus News



Margaret Busee



Arden Pope



Nicholas Mason



Matthew Memmott



Chip Oscarson



Paul Allen



Aaron Nielson



Mark Beecher



Lawrence Rees



Dennis Eggett

COLLEGE OF Family Home and Social Sciences

BYU alumna **Margaret Busee** was highlighted by the Family, Home and Social Sciences College for her role as the Chair of the Acton, Massachusetts Finance Committee and Associate Director of Harvard Business School's Social Enterprise Initiative. Busee doubled majored in economics and political science at BYU.

IRA A. FULTON COLLEGE OF Engineering and Technology

BYU economics professor **Arden Pope** worked with colleagues at the University of Louisville to research the effect of air pollution on respiratory health. The study discovered air pollution causes damage to blood vessels and was released in Circulation Research.

DAVID M. KENNEDY CENTER FOR International Studies

BYU professors **Nicholas Mason**, **Matthew Memmott** and **Chip Oscarson** will discuss the good and the bad of European energy policy at the Kennedy Center's Café Europa event. The event is Nov. 16 at 4 p.m. in Room 238 of the Harold R. Clark Building.

Toshihiro Nakayama, a professor of American politics and foreign policy at Keio University, will be speaking about the future of Japan and U.S. relations in a Kennedy Center lecture. The lecture will be in Room 238 of the Harold R. Clark Building at 1 p.m. on Nov. 18.

COLLEGE OF Life Sciences

Environmental science student **Miranda Ruth** will receive the Cross-Cultural Experience Program Scholarship from the American Society of Agronomy.

COLLEGE OF Humanities

Ancestry.com co-founder **Paul Allen** spoke at an Honored Alumni Lecture. He encouraged absorbing meaningful books as a way to gain strong connections and knowledge.

COLLEGE OF Fine Arts and Communications

BYU's Department of Theatre and Media Arts will perform the dramatic comedy "Travesties" in conjunction with its production of "The Importance of Being Earnest." The department will perform "Travesties" until Dec. 3.

J. REUBEN CLARK Law School

ABA Journal named BYU's law school fourth in the country for median private-sector pay exceeding student debt. The median private sector salary is \$79,813 and the average student

debt is \$54,203.

BYU law professor **Aaron Nielson's** paper "Clarence Thomas the Questioner" is featured in a Law360 article. The article, "High Court Will Benefit From More Thomas Talk, Scholars Say," references Nielson's characterization of Justice Thomas. Nielson co-authored "Clarence Thomas the Questioner" with RonNell Andersen Jones.

GENERAL Campus News

Mark Beecher is a clinical professor and licensed psychologist in BYU's Counseling and Psychological Services. Beecher partnered with BYU physics professor **Lawrence Rees** and BYU statistics professor **Dennis Eggett** to study the effect of weather on mental health. They discovered sunshine has a large impact on mental health but temperature, pollution and rain do not.

Utah judge compiles 2 books of poetry

Thomas L. Kay. Kay has spent almost 30 years writing thousands of poems, the Standard-Examiner reported. "The Road I've Taken" and "One Silent, Holy Night, The Poetry of Christmas" are available online. Kay was an attorney with three children when he decided to write a poem just before Christmas about the "people who were actually there," he said. "Joseph, Mary, the Angel, the shepherds, King Herod." "The Road I've Taken" is available at Barnes & Noble. Kay says Robert Frost's poem

"The Road Not Taken" sparked his interest in poetry when he was in seventh grade. Kay will read his poems for the public at a library in Bountiful on Dec. 1. His poem "Sentencing" was written after he sentenced an 18-year-old and saw the looks on the parents' faces. "I remember telling him he had so much to look forward to, but he needed to change his life," Kay said. "I'm not a miracle worker, but something clicked." Kay said he later learned the man turned his life around.



Associated Press

Judge Thomas L. Kay recently published a collection of his poems called "The Road I've Taken."

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Subject librarians help students

By JOANNE WADSWORTH

It's something students across campus have heard professors and advisers say over and over again: Ask a librarian. The librarians can help.

But how, exactly? Elementary education senior Hannah Webb, from Draper, Utah, said she was taking an expository writing class and feeling slightly overwhelmed when she first discovered the library's resources. The education librarian attended her class, over-viewed the library's databases and offered further help to anyone with questions.

Webb had never written a research paper before, and she was having a hard time with her assignment. She decided to contact the librarian and set up an appointment.

HBLL communications manager Roger Layton said the library has about 150 full-time employees, but not all of them are referred to as "librarians." Subject librarians are professional faculty who have a specialized degree (i.e., an MBA or a psychology degree) and a library degree. Their role is to help faculty and students in specialty areas, but Layton said few students ever come as far as their desks.

"Some people don't have a lot of interaction with librarians, or they think their job is just to sit around at a desk and wait to check out books," Layton said. "We want to communicate that librarians are here to actively help you with your research."

Last year the library fielded about 63,000 reference questions, meaning someone approached a desk and asked about anything from NASA's star charts to the location of the nearest restroom. There is no research on what percentage of students ask questions, but on average it means BYU's 33,000 students ask a little less than two questions per year per student.

Layton said he believes several factors might contribute to the



Gianluca Cuestas illustration

Hannah Web initially felt overwhelmed at the prospect of writing a research paper. With the help of a subject librarian she found the resources she needed.

lack of questions, including the convenience of the internet and reluctance to ask for help.

"If you Google something, you Google a topic and you get 3 million hits," Layton said. "If you walk into the library, they'll say, 'What's your specialty? What's your topic? And here are the exact resources you need to make your professor happy.' So it saves you all that searching."

Social science reference specialist Brian Wages said he has a simple process for helping students who come to him. First, he evaluates their needs. Then he thinks about what resources he can guide them to and what tools he can introduce to make the process easier.

Wages said even if students use the correct databases, they sometimes don't get productive search results because they don't use the right keywords. He often helps students go from terms they're most familiar with to terms academics use. With complicated subjects, he helps students splice together information from multiple articles and create new research.

Librarians can also help with

student research projects, Wages said. Students who intern for professors sometimes need to gather information on a topic or do a research project without knowing what's already been done. Subject librarians can provide students with literature reviews and sources leading to existing research.

The more students Wages can help, the better, he said.

"I have seniors come in and say, 'I've never come for help at the library,' as though it's a badge of honor," Wages said. "And I think, 'I'm so sorry. We could have saved you so much time and effort.'"

Webb said meeting with the librarian was a good experience. She found relevant information she wouldn't have found in a simple Google search. The librarian also helped her structure a convincing argument for her paper.

"It definitely saved me time in the long run by a ton. She was so fast at doing it that by the time she had sent me a list of 20 sources, we had only been in there for 20 minutes," Webb said. "I think it's definitely worth it for a busy student."

HAMMOCKING

Passion over wealth

Continued from Page 1

"Andy Lewis was in the Super Bowl with Madonna," Meadows said. "That was a big part of growing the sport."

Lewis was in the 2012 Super Bowl XLVI and performed "tricklining," a branch of slacklining involving bouncing, flipping and turning on the line. Between rehearsals and the performance, Madonna even kissed Lewis on the cheek a grand total of 27 times. Zak Hazlett, a BYU student and childhood friend of Lewis, said Madonna even offered Lewis an opportunity to go on tour with her.

"He got offered a lot of money — over a million dollars," Hazlett said.

Lewis turned it down. Hazlett said it was because the regulation of the contract interfered with Lewis's lifestyle by limiting tricks and what he was allowed to do.

"He follows what he's passionate about and doesn't care about the money," Hazlett said.

Lewis's passion took him to Utah, where he hangs out on thug mansion. There, thug mansion spans across canyons. He said being in this particular space net is indescribable.

"The experience speaks for itself," Lewis said.

Lewis also uses space nets for both highlining and base jumping. Meadows said it's logical that slacklining branched off to create space nets.

"It's a sport that's always progressing," Meadows said. "There's always something more you can do."

Lewis occasionally makes a profit from his space nets by weaving and selling them, but it costs nothing to get on thug mansion.

"It's my gift to people rather than a way to make money," Lewis said.

Many people don't know

about thug mansion, mostly because Lewis doesn't market it. Instead, he waits for people to find him — then he knows they've done their research and know he stands for "slacklife."

"One part slack, one part life," Lewis said.

Slacklife can be difficult to describe to those who don't know the sport, according to Meadows. Meadows said slacklining and all of its off-shoots are more than just an "adrenaline rush."

"It's not about feeling the thrill; it's about controlling the thrill," Meadows said.

Meadows also said slacklife is the "closest thing to freedom."

"There's nothing but a 1-inch piece of webbing under your feet," Meadows said. "You're in a space where people aren't meant to go, so it's like you are doing something that's more free than what seems possible."

BYU student Charlie Derrick, who was also seeking that feeling of freedom, came across "Sketchy Andy" when she tandem skydived with him in August, unaware of his fame.

"It was terrifying jumping out of a plane with a complete stranger, let alone with one that called himself Sketchy Andy and was missing a front tooth," Derrick said. "Then again, he has obviously survived millions of sketchy and dangerous situations so I guess my chances were pretty good."

Despite the long record of professionals surviving dangerous stunts, the daredevil lifestyle of slacklife is still a controversial one.

Even the experienced meet tragedy. Lewis himself witnessed the death of his friend Daniel Moore in 2013 after a BASE jump gone wrong.

"Daniel Moore, I cried for you over your lifeless body last night," Lewis wrote in a Facebook post. "As the car with your crying parents and absolutely crushed girlfriend rolled away at 7 a.m. this morning — I am only left with one question. Is this really worth it?"

Hazlett said Lewis is a little more reserved now than he was

a few years ago since the death of some of his friends.

"I don't think he's thought about stopping," Hazlett said. "He's always been a cautious person, but he's even more cautious now."

Lewis isn't out to convert people to the sport, either.

"I don't think anyone should do anything. I'm not trying to force people to do this or say this is the best thing in the world," Lewis said. "I'm just saying this is what I do, and I'm putting it out into the world and seeing what they think about it."

Though Lewis remains mostly off the grid, he has broken the Guinness World Records for the longest highline, highest highline walked and the longest highline walked without safety protection. But he said he doesn't do these things for the money or the reputation. Mostly, he just loves it.

"If I didn't love what I was doing just for doing it, I never would have spent the time randomly in trees rigging highlines, making nets, and then eventually thinking of a portable net and then putting that in the highline — I mean, it's just a ridiculous series of events," Lewis said.

Lewis said he likes to keep his thug mansion under wraps. He wants the people who are interested to "work for it," to get involved with the slackline community and discover his location. Lewis holds festivals involving slacklife and his space nets, but doesn't give out the time or location — only vague clues requiring interested individuals to do their own digging and networking.

"The joy is in the journey, rather than the destination," Lewis said.

As part of that journey, Lewis encourages individuals to go out and start their own adventure, like the Uliners did.

"What you should ask yourself is, 'What do I do to build my own net in my own front lawn?'" Lewis said. "That's what is going to be most fun for you."



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This event will also be broadcast to the JSB Auditorium.



Bonnie St. John

First Winter Paralympic African-American Ski Racer Medalist

"Courageous Leadership: A Call to BYU Students"

Despite having her right leg amputated at age five, Bonnie St. John became the first African-American ever to win medals in Winter Olympic competition, taking home a silver and two bronze medals in downhill events at the 1984 Paralympics in Innsbruck, Austria.

St. John graduated magna cum laude from Harvard University in 1986 and won a Rhodes Scholarship to Oxford University, taking a master of letters degree in economics. Upon her return to the United States, St. John was appointed by President Bill Clinton as a director for Human Capital Issues on the White House National Economic Council.

The celebrated author of six books, St. John coauthored her most recent bestseller, *How Great*

Women Lead, with her teenage daughter, Darcy.

Today St. John travels the globe as a leadership consultant, keynote speaker and facilitator for international summit conferences for senior-level executives. She frequently donates personal appearances to schools, homeless shelters, community groups, and other organizations while traveling for corporate clients. In 2010 St. John once again represented the United States as a member of President Obama's official delegation to the Paralympic Winter Games in Vancouver.

St. John has been featured extensively in both national and international media. *NBC Nightly News* called St. John "One of the five most inspiring women in America."

A question-and-answer session will be held at noon in the Marriott Center.

NEXT: UNIVERSITY DEVOTIONAL



Jodi Maxfield

Artistic Director, Cougarettes

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‘Silicon Slopes’ tech companies want innovative BYU students



From left: Adobe Digital Analytics Vice President Bill Ingram presents BYU MBA students Hoon Song, Robert Haws and Jacob Honsvick with a check for winning the 2015 Adobe Analytics Challenge.

By TREVOR MORGAN

Tech companies within the “Silicon Slopes” of Utah Valley often reach out to BYU students with competitions and other methods to recruit some of BYU’s finest talent.

Nate Smith, senior manager of product marketing for Adobe Analytics, is running the 2016 Adobe Analytics Challenge for universities all around America. Smith believes even though the winners receive \$50,000, the most important perk of the competition may be the many conversations with hiring managers from Adobe. This competition is how Smith started his career at Adobe.

“I was part of (BYU’s) winning team in 2010 and subsequently accepted an offer and now I run product marketing globally for Adobe Analytics, so the competition is definitely near and dear to my heart,” Smith said.

The competition started in 2005 when Omniture, an analytics company bought out by Adobe, wanted to attract and recruit new talent to help the company grow. The Analytics Challenge, now run by Adobe, expanded to Utah-only schools in 2009 and then nationally in 2012.

“BYU has had great reputation and, frankly, has taken the trophy home more than any other school,” Smith said.

BYU has won the competition twice since the competition became national — once in 2012 and again in 2015.

Last year, Adobe had 940 people compete from 24 different schools. This year’s competition is for Sony Playstation.

“We are not only providing students access to industry-leading technology, we are also training them on the technology and then they get to engage with real world data with some of the biggest brands in the world to solve these data problems to prove out ROI and get customers to engage,” Smith said.

Smith believes this competition allows Adobe to find people great minds for future employment. Adobe isn’t the only tech company with this objective in the “Silicon Slopes.”

Provo-based data insights tech company Qualtrics was started in 2006 by then-BYU marketing professor Ryan Smith and his son, a BYU student at the time, in their Provo basement.

Qualtrics has kept its headquarters in Provo, even with its accelerated growth across the globe. The company just finished its new 151,000-square-foot headquarters in Provo last August.

Qualtrics’ Head of Global Insights Mike Maughan said the company loves being in Provo.

“It gives us great access to a wonderful place to live,” Maughan said. “We are close to BYU, Utah Valley University, the University of Utah and there are a lot of great students here. Also, we’re located in a spot where it’s easy for our employees to live, around here or even Park City.”

Maughan believes, generally speaking, the characteristics Qualtrics values aren’t just limited to BYU students but are in students from any major university.

“We are looking for entrepreneurial people,” he said. “People who work hard, have a high level of integrity and who are innovative and committed to making an impact rather than fitting in as a cog in a machine.”

The strategic placement within BYU culture, however, is not by coincidence. Qualtrics is very involved with major universities in the area, including BYU.

“We host hack-a-thons, we sponsor several different clubs, like Women in Computer Science club, the ACM club,” Maughan said.

Just like Adobe and Qualtrics, many other established and up-and-coming Silicon Slopes tech companies recognize BYU’s value. Domo

and NUVI, along with Qualtrics, regularly attend BYU’s Career Fairs.

Stuart Dean, NUVI’s executive vice president of business development, said he believes BYU’s job fairs and recruiting resources on campus have provided NUVI with highly-talented employees.

“(Job fairs) have been extremely valuable to attract top talent and (we) don’t see this strategy changing,” Dean said. “As a fairly new company now in just our fourth year, we are building a culture of competitive, goal-oriented employees who are looking for an opportunity. We anticipate BYU will continue to be a significant part of our recruiting strategy in years to come.”

Since its inception, NUVI has employed BYU students. Dean highlighted the qualities he valued from BYU graduates.

“BYU has provided graduates who have exceptional drive to succeed, outstanding work ethic, self-initiative and the maturity to overcome challenges in the workplace,” Dean said.

The term “Silicon Slopes” was created by Omniture founder and current Domo CEO Josh James to promote Utah’s growing tech industry.

“Silicon Slopes” includes the metropolitan area of Salt Lake City, including Park City and even Provo.

Other major companies within the “Silicon Slopes” include Salesforce, MX, Workfront and SkyRocket Media, among many others.

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Students benefit from professor mentors

By ANNE TAYLOR

Kaitlyn Frandsen began working as a research assistant for professor Ryan Kellems during her freshman year. Since then, they’ve attended two research conferences together in the past four years — one in Portland, Oregon, and one in Myrtle Beach. Frandsen is a senior studying special education.

“He’s a professor, but he is also a mentor,” Frandsen said. “He’s probably my biggest advocate in the field of education.”

Students who connect with professors outside of class said they often develop meaningful relationships. These relationships benefit them throughout their college careers.

Frandsen said she often communicates with Kellems outside of school. They exchange Christmas presents every year, she sometimes babysits his children and she feels comfortable calling or texting him if she has a problem. They are friends, she said, as well as professional colleagues.

Kellems encouraged her to apply for programs and jobs she otherwise wouldn’t have,

Frandsen said. These decisions have shaped her college career and will affect her future.

Frandsen has been able to develop personal relationships with other professors as well. She said professors successfully bond with students by finding a good balance between being a friend and being an instructor.

“You learn better when you both trust and respect the person,” Frandsen said.

Kellems said he enjoys working with students and helping them grow academically. He said Frandsen has been able to mentor and train new research assistants since she was first hired on, which has provided additional help to him and experience to her.

Even brief interactions with professors outside the classroom can benefit students. Psychology sophomore Sam Maki has talked to professors about his personal life several times, and he said he left with good experiences.

“I learned a lot from both of these professors and would totally chat with them again if given the opportunity,” Maki said.

Mathematics sophomore Jana Thomas once turned in an assignment during a professor’s

office hours and said she was surprised he knew her name. They talked and shared jokes for a while, which Thomas said was very fun.

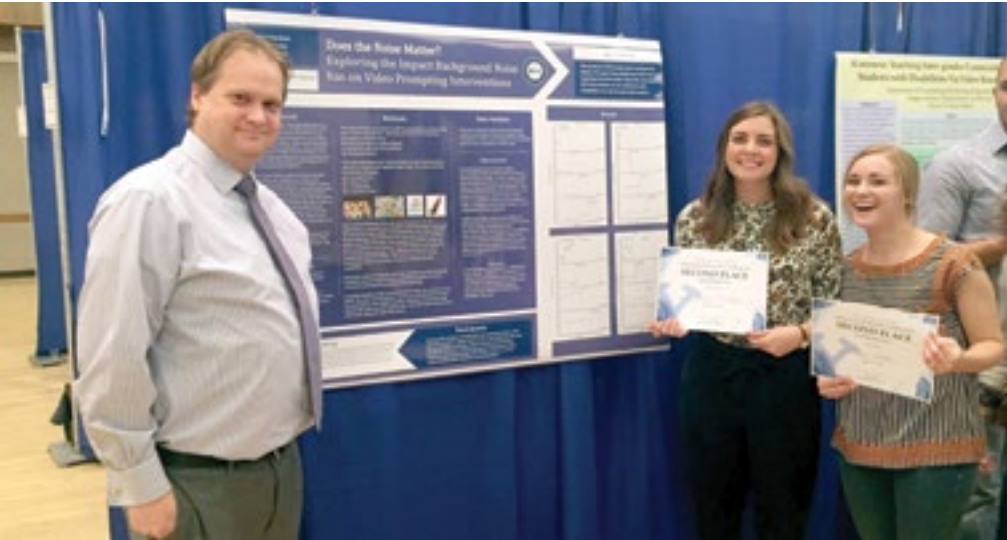
“It was a little uncomfortable at first because I don’t talk to professors often,” Thomas said. “But he quickly put me at ease, and it’s not awkward to talk to him anymore.”

Frandsen said there are many academic benefits from becoming comfortable around a professor. She said she’s motivated to pay attention in class and willing to work harder, and she doesn’t feel uncomfortable asking questions. She said she’s also been able to network, so she has no concerns about finding a job after graduation.

The best thing a student can do is find a professor with similar interests and then reach out, Kellems said. Connecting with a professor who hasn’t taken the first step can be as simple as sending an email.


Frandsen said it can seem awkward or intimidating to connect with a professor, but it’s worth the effort.

“A lot of it is humility and recognizing that they are the experts,” Frandsen said. “They can teach you so much more if you ask.”



From left: professor Ryan Kellems, Kaitlyn Frandsen and Brynn Frazier stand in front of a research project they worked on together. Their project is currently pending publication.

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The BYU Student Health Center and Urgent Care will be CLOSED the following days during the holiday season:



Thanksgiving Holiday

Thursday, Nov. 24
Friday, Nov. 25
Saturday, Nov. 26



Christmas Holiday

Friday, Dec. 23
Saturday, Dec. 24
Monday, Dec. 26
Open until 5 p.m. Dec. 27 – 29



New Year's Holiday

Friday, Dec. 30
Saturday, Dec. 31
Monday, Jan. 2
Open until 5 p.m. Jan. 3 – 6

[ISSUES & IDEAS]



Tweet Beat

#BYUprobs #BYU

Leave your comments at universe.byu.edu.

Want to see your tweet in print? Tweet something about life around you with #BYUprobs or #BYU and hopefully it makes the cut.

@smacpratt

"I did really bad on the test." "Did you study?" "Well, no" #BYUprobs



@texas.tim

This is where I have my honors class. #Maesermemorial #BYU



@Realdrizzyzwizzy

The testing center, enter afraid, leave sad #BYUprobs #Comms239 #sadness



@HiltonConor

Allegedly the terrible stench by the testing center is the trees, but I'm pretty sure it's the rotting flesh of students' dreams. #BYUprobs

@hatchmaren

I didn't know what level of rage and hatred I was capable of until cleaning checks came into my life #BYUprobs

@adamjamesmclain

#BYUProbs Not having enough facial hair to shave, but feeling the obligation to shave it b/c you're going to a fancy luncheon w. donors.

@laalaLauraLou

Welcome to BYU where people talk loudly in foreign languages. Yes lady we know you speak Japanese. The people across campus do too #BYUprobs

@itsmattfred

Every time I study in the periodicals and don't see anybody I know I deserve a \$10 refund on my tuition

@Maiswam

I wonder if ppl at other schools freak out when they have to wear business casual. Good thing BYU kids have go-to church clothes #BYUprobs

@LuistheSwift

That awkward moment when @PocketPoints says can earn points at church, but where u go to college is already where u go to church #BYUprobs

@alexkoford

BYU is full of a bunch of wanna be hipsters, so it's really hard to tell who's in costume and who's normally dressed. #BYUHalloween

@N8dJenkins

At other colleges, girls use halloween as a chance to dress as immodestly as possible. At BYU they just dress like pizza slices. Love BYU.

@sierra_bresh

Being accepted into your major so young stinks because you get last dibs on classes. Cool. Waitlists are my jam. #BYUprobs

@bharber13

Literally just waited up until midnight to get on 5 waitlists for my 6 classes... #BYUprobs

@dougiec0n

Make sure you vote to repeal joint Facebook accounts today

@GoAskAvery

How do I start phasing more ponchos into my fall wardrobe

Tweets are unedited.

[READERS' FORUM]

Is the environment an important political issue?

In speaking with friends and family about political issues, I often hear the following comment: "The environment isn't really an important issue right now; there are more important issues." When I hear this statement I wonder "When will the environment be important?"

Usually my friends and family say that the economy, healthcare, and national security are more important issues. But if we care about the welfare of our economy and our descendants, it is crucial we don't ignore the environment. If we destroy the environment today, the wealth and prosperity of our children will greatly diminish.

During this election, let's talk about the environment. Let's talk about how to best cooperate in international climate talks, and which one would create incentives for businesses to develop environmentally friendly technologies. If we don't start investing in clean energies today, our economy will not be strong in the future.

A major aspect of the LDS religion is being responsible for our actions toward God. Consecration is an act of stewardship for the blessings and responsibilities the Lord has given us. Ever since Adam, God has given us the charge to look after the earth. In the words of President Russell M. Nelson, "As beneficiaries of the divine Creation, what shall we do? We should care for the earth, be wise stewards over it, and preserve it for future generations."

—James Longstaff
Dhahran, Saudi Arabia

Preserving the freedom of the soul

Aggressive godlessness is a fashion statement and moral relativism is in vogue. It is this wholesale abandonment of time proven principles, that threatens our freedom of worship which has gone more or less unmolested in the states for the past century.

The emphasis the apostles have placed on religious liberty in the past year is startling. It has become the centerpiece for many of their talks at home and abroad.

Yet you may wonder, "We live in a free country, what are we so worried about?" Numerous lawsuits would be only the beginning. If the church refused to change its policies, BYU's tax exempt and tax deductible status would be revoked, and BYU would never be the same. And these are only a few examples.

Our culture is so zealous to establish politi-

cal correctness that it now borders on political censorship. And in the name of what, social progress? It was not MLK, Gandhi, or Mandela who pushed for the firing, non-hiring, ostracizing, and demonizing of those who disagreed, it was their unenlightened opponents. Begging the question, is our opponents' motives to secure safety from discrimination, or a monopoly of it?

Spend the time necessary to be familiar with this issue, and to engage in bridge building discussions using all the tact and grace you can muster. Visit the church's new Facebook page, Support Religious Freedom. To see the many talks given in conference, and elsewhere by the apostles on this important issue, visit mormon-newsroom.org and select Religious Freedom under topics.

—James Cannon
Sandy, Utah

Cannon Center conundrum

The Cannon Center must stay open for longer hours to allow us to eat later. The students living in Helaman Halls rely on the Cannon Center for meals. When applying for housing, students are required to buy a meal plan that allows them to eat at the Cannon Center.

For all of the freshmen in Helaman Halls, the Cannon Center is necessary for food. However, it closes at 7:30 p.m. most days and 5:30 p.m. on Sundays. The current closing times of the Cannon Center force us to eat dinner earlier than many of us normally would. Late nights spent studying tend to result in an empty stomach without vending machine assistance. However, a later dinner could put off this hunger. To be clear, students should not be cooking for us until one in the morning; just being able to eat a later dinner would help us have more energy to make it through the late nights.

I understand that many would argue that students shouldn't have to work late hours. Many students would actually be more available later at night because classes would be over. This would create more on-campus jobs. I saw an advertisement the other day in the Jesse Knight building advertising cleaning jobs at four in the morning. If we're willing to make students work those weird hours, we should be fine with having them work later than 7:30.

This is a hungry student who writes this cry, this lament from the bottom of my stomach, this declaration of injustice against my appetite. Please. We just want to eat.

—Zackary Windham
Pfafftown, North Carolina

[OPINION OUTPOST]

The Opinion Outpost features opinions and commentary on the latest hot topics from national news sources.

President-elect Trump

The Republican establishment couldn't stand Trump. The Democratic establishment mocked him. The Republican nominee didn't even really seem to have much of a campaign. He spent more on "Make America Great" hats than on polling. If you don't count Newt Gingrich — and I don't — only one major political historian, Allan Lichtman, had predicted that Trump would win. ... But then the impossible happened.

When Trump beat 16 seasoned pols in the Republican primary, Kevin wrote, that should have sent a clear message that the public was fed up with political insiders, including Hillary, who "has been in the public eye for 25 years," with an image "cast in concrete."

—Maureen Dowd
The New York Times

You aren't going wherever the

heck you say you are moving to now that Donald Trump is going to be president of the United States of America.

What we all do is this: We stay and fight.

First, we wait and see. Even Hillary Clinton said Wednesday, "We owe him an open mind and a chance to lead."

But if we don't like what happens, we fight it. We take to the streets and rekindle memories of the anti-Vietnam War protests and civil rights marches. We don't run and hide. We don't abandon America.

I feel, strangely, not what I thought I would "the morning after." I'm more patriotic than I was yesterday. More in love with my country than I have since, I guess, Sept. 11, 2001.

Everyone walking around like it's the end of civilization now that Trump is in? It's not. We've been through far worse. A perceived threat is not as bad as a punch in the face.

—Michael Krikorian
The Los Angeles Times

Two weeks ago, I began saying that Trump would win, whether I liked it or not. Today, I offer a clarification: He didn't win the

election. Clinton lost it.

For voters who couldn't stand Trump, she was a terrible alternative. Never a great candidate, she was also, tragically, a Clinton when people were ready to move on. She received several million fewer votes than President Obama did in 2012.

The 2016 election was as much a referendum on Obama's legacy as it was on the candidates themselves. When people want the country to change course, they don't typically vote for a third term of the current president.

—Kathleen Parker
The Washington Post

America spoke and demanded change to the status quo. After an exhausting election season marked by stress and cynicism, today should be about optimism.

This paper called for Trump to step aside. Although we will never condone the behavior and comments we condemned, today we congratulate him on a stunning victory won against tough odds.

Now it is incumbent upon Mr. Trump to show he is up to the task of leading the most powerful nation on earth.

Millions of voters who sup-

ported other candidates are undoubtedly disappointed with this outcome. Yet, Americans should accept the results gracefully and now work to support the nation's newest leader.

—Deseret News

We are so exhausted from thinking about this election, millions of people will take up leaf-raking and garage cleaning with intense pleasure. ...

Alas for the Trump voters, the disasters he will bring on this country will fall more heavily on them than anyone else. The uneducated white males who elected him are the vulnerable ones and they will not like what happens next.

Resentment is no excuse for

bald-faced stupidity. America is still the land where the waitress' kids can grow up to become physicists and novelists and pediatricians, but it helps a lot if the waitress and her husband encourage good habits and the ambition to use your God-given talents and the kids aren't plugged into electronics day and night. Whooping it up for the candidate of cruelty and ignorance does less than nothing for your kids.

—Garrison Keillor
in The Salt Lake Tribune

Donald J. Trump is president-elect of the United States. Now there's a sentence I never thought I'd write.

Mr. Trump will become this

WE WANT TO HEAR FROM YOU

The Universe encourages students, faculty and BYU staff to add their voice to ours by writing letters to the editor and guest editorials, or by submitting editorial cartoons.

- All letters should be submitted by e-mail to ideas@gmail.com. The topic of the letter should be included in the subject line.
- Letters should also include the author's name, hometown (for students), campus position (for faculty and staff) and phone number. Anonymous letters will

- not be published.
 - Letters should be no more than 250 words and may be edited for length, clarity or style.
 - Guest editorials should be 500 to 700 words and are encouraged from individuals with professional or academic expertise on the topic.
 - Original cartoons are also welcome.
- Opinion editor Jordan Murray can be reached at universe.ideas@gmail.com.

‘Tanner Time’ comes in BYU’s win over SUU



Ari Davis

Tanner Mangum searches for a receiver against SUU. Mangum completed 11 of 13 passes in the win against the Thunderbirds.

By NATE CUNNINGHAM

BYU football picked up a big 37-7 victory over in-state opponent Southern Utah University on Saturday, Nov. 12. It was the first time BYU scored 30 points or more since Oct. 8, and the T-Birds’ seven points represented the fewest the Cougars have allowed all season.

BYU became bowl eligible with the victory, and athletic director Tom Holmoe accepted an official invitation to the San Diego County Credit Union Poinsettia Bowl immediately following the win.

“It’s good to be bowl eligible and get it done early so we can make plans,” BYU head coach Kalani Sitake said. “I’ve never been in this position where we know this early where we’re going, so it’s a bit of a relief.”

The Cougars decimated the Thunderbirds, racking up 596 total yards for their highest output of the season. Putting the game away early allowed Sitake and offensive coordinator Ty Detmer to give backup quarterback Tanner Mangum some playing time.

Mangum entered the contest in the second quarter and quickly completed a 12-yard pass to Brayden El-Bakri. His next two throws fell incomplete, but Mangum eventually settled down.

“I was a little bit amped up with a couple of those throws, those two incompletions,” Mangum said. “I put

too much on it, but then I was able to settle in and just play. Overall, it was just good to get in there.”

He certainly settled in, completing each of his next 10 passes.

Mangum finished the day completing 11 of 13 passes for 121 yards. He also ran for 42 yards.

While Mangum played well, there’s no guarantee of when he’ll next see the field. But he said he’s not worried.

“I’ll always be ready to go. We’ll take it game by game. It’s nice having good communication between Coach Detmer and Taysom (Hill) in the quarterback room. We all get along really well and we’re all in it together,” Mangum said. “We have a selfless group. It’s nice being able to come off the field and celebrate with them. They’re the first ones out there to celebrate and it means a lot. I think just as it’s been all year, we’re in it together and we’re not going to worry about playing time or who goes in when. We’re going to go out there, have fun and celebrate together as a team.”

Mangum wasn’t the only BYU quarterback to have a good day against SUU.

Hill had his best game of the 2016 season, completing 22 of 29 passes for 320 yards, two touchdowns and one interception. He also rushed for 29 yards and a touchdown.

It was Hill’s fourth career 300-yard passing game, the first since throwing for 308 yards in the 2014 season opener against UConn. His rushing

touchdown was the 31st of his career, tying Curtis Brown for fifth all-time at BYU. He is also No. 6 on BYU’s list of all-time rushers.

Hill and Mangum combined to throw for 441 yards, marking the first 400-plus passing yards game for BYU since Wagner came to Provo last season.

“I think when we’re on the same page, (the passing game) goes well,” Sitake said. “We sped up the tempo earlier in the game and that’s something we need to look at more. These guys are used to the high tempo being their comfort area.”

Next up for the Cougars is a matchup with the UMass Minutemen. The Minutemen are just 2-8 on the season and are coming off a 52-31 shellacking at the hands of Troy two weeks ago. Their two victories have come over Florida International and Wagner.

But the Cougars maintain they still have work to do.

“The one problem we had (against SUU) was missed tackles,” linebacker Fred Warner said. “We’ll continue to work on that. Our main point of focus we need to work on is missed tackles.”

El-Bakri emphasized Cougars won’t be overlooking the Minutemen.

“Every game is important,” El-Bakri said. “It doesn’t matter if it’s a hard game, a win or a loss.”

BYU hosts UMass on Saturday, Nov. 19. Kickoff is scheduled for noon MST and the game will be broadcast on BYUtv.



Ari Davis

Taysom Hill runs the ball for a touchdown in the game against SUU.

Football begins November home field stretch

By CONNER RUSHTON

BYU football calls LaVell Edwards Stadium home. It’s held moments of euphoria and heartbreak. Great wins and tough losses.

But for all the ups and downs, one thing is certain: LES gives the Cougars a home field advantage.

“I know we’re going to have all the fans there,” receiver Nick Kurtz said. “They’re all going to be representing for us and screaming. It’s always fun when you walk on that field for the first time.”

The Cougars are 2-1 at home this season and 3-3 in road games. The remainder of the season for the Cougars features three very winnable home games before the Poinsettia Bowl.

If history is any indication, the Cougars will likely win out the rest of their season.

The Cougars have won 73 out of 95 games at home since Cougar Stadium became LaVell Edwards Stadium in 2001, a 76 percent winning percentage.

Notre Dame’s winning percentage at home is just 65 percent in that same time frame. Washington’s is 58 percent. Utah’s sits at 82 percent.

BYU also had the tenth-longest home winning streak in the FBS entering this season. The streak was snapped when the Cougars lost their home opener to UCLA, which also broke a streak of four-straight home opening victories.

BYU’s four losses have come by a combined total of eight points. Despite the close losses, head coach Kalani Sitake said the team is staying positive.

“That’s the character of our guys,” Sitake said. “That’s the type of people we have on this team. They’re never going to quit, regardless of where we play and how we’re playing. We just feel like we’re never out of anything. And it’s not just me. It’s what’s been here over decades.”

Linebacker Butch Pau’u said he feeds off the energy from the Cougar faithful in the stands.

“It’s just fun,” Pau’u said. “It’s fun to go one-on-one with a running back and then hear the crowd cheering for you. It’s nice to have the crowd on our side.”

Next up for the Cougars is a matchup with UMass. The Minutemen are currently 2-8 on the season and 0-4 on the road. Then BYU will host 3-7 Utah State in the season finale.

Women’s soccer seniors reflect on their careers

By EMMANUEL LARTEY

The BYU women’s soccer team finished its 2016 season with a 16-2-1 record and won its fifth-straight West Coast Conference championship.

The Cougars were led by a group of six seniors: Rachel Boaz, Miranda Bailey Topham, Paige Hunt Barker, Elena Medeiros, Ashley Hatch and Michele Vasconcelos.

Each of them have had unique experiences in Provo that have not only helped shape BYU, but also themselves.

Rachel Boaz is a goal keeper from Murrieta, California. Boaz said the team’s success helped pave a way for many special memories and spiritual experiences.

“When we were traveling, we were able to do firesides and reach out to individuals through our success as a team,” Boaz said. “It was amazing to get to know the players and go through the temple with teammates.”

Boaz spent just two seasons in Provo after transferring from San Diego State, but she said she formed life-long relationships with her teammates.

“The huge stand out is knowing how much these players love each other,” Boaz said of her time in BYU blue. “Those close connections from the team are what matter most.”

Miranda Bailey Topham is a defender from Loomis, California. Bailey Topham said she’s learned more than just soccer while on the pitch.



Ari Davis

From left: Rachel Boaz, Miranda Bailey Topham, Ashley Hatch, Elena Medeiros, Paige Hunt Barker and Michele Vasconcelos pose with the WCC championship trophy.

“This program taught me how to be a team player, work hard and be disciplined,” Bailey Topham said. “These are things that I learned and can use in my career and throughout my life.”

Bailey Topham has played nearly 3,000 minutes in her BYU career after redshirting in 2012. She’s been a part of WCC championships and NCAA tournament runs, but was more concerned with her off-the-field legacy.

“I hope I contributed to friendships and a team mindset,” Bailey Topham

said. “I wanted to be somebody that people could learn from.”

Paige Hunt Barker is a midfielder from Bountiful, Utah. Hunt Barker has four goals in 6,127 minutes in her career.

Hunt Barker expressed nothing but gratitude for the university and the women’s soccer program.

“The soccer program means everything to me,” Hunt Barker said. “Not just playing the game, but getting to know the girls, the coaching staff and

being at the school with the professors. I’m just extremely grateful to be apart of it.”

Hunt Barker, like all of the seniors, has been a part of many wins and at South Field, but she said a freshman-year experience sticks out.

“My favorite memory was playing my freshman year in the Elite Eight at South Field,” Hunt Barker said. “The air was electric and it was fun to play some of the best girls in the world.”

Elena Medeiros is a midfielder from Bountiful, Utah. Medeiros is a self-described quiet leader, who prefers to let her play speak for itself. She’s played 4,891 minutes in her career, scoring 19 goals and dishing out 14 assists.

“I have tried to lead by example,” Medeiros said. “I’m not a loud, in-your-face type of player, but I show leadership from playing and giving other players confidence.”

Medeiros has been a key player on the team throughout her career. Despite being a quiet player, Medeiros has had a large impact on the Cougars’ success. Perhaps her best game came last season against Utah Valley University.

“Scoring the game-winning goal at UVU last year was a big career highlight,” Medeiros said. “Winning the conference every year is also a huge accomplishment.”

Ashley Hatch is a forward from Gilbert, Arizona. Hatch is one of the most productive scorers in the nation. She currently is in the No. 4 spot nationally,

scoring 18 goals on the season.

She also had the unique opportunity to appear and train with the U.S. Women’s National Team. Hatch said her time with the USWNT helped her “learn a lot” and “gain a different appreciation for the game.”

Overall Hatch will miss playing with the BYU squad. Playing soccer for Hatch has meant a lot, but playing in Provo with the BYU program made all the difference.

“Playing on South Field and winning games are my favorite memories,” Hatch said. “There are a few games in my mind that I will never forget.”

Michele Vasconcelos is a forward and midfielder from Sandy, Utah who had led the team on the field as both a player and a captain.

“I am more confident in myself and more sure of the player that I am,” Vasconcelos said. “It’s my senior year. I just told myself I have to be me.”

Vasconcelos has an emotional connection with the team that makes it hard for her to talk about leaving.

“It’s been a great five years. It’s going to be hard to leave,” Vasconcelos said. “I try to not think about it, but whenever it gets brought up my mom starts crying.”

Each senior has provided leadership in their own way for the Cougars and head coach Jennifer Rockwood will have big shoes to fill next season.

But for now, the seniors aren’t done yet. They led BYU to a 2-0 win over UNLV on Nov. 11 and next take on Oklahoma on Nov. 17.

Russian freshman making impact for BYU women's tennis

By NICOLETTE POULSEN

It only took one recruiting trip for freshman women's tennis player Polina Malykh from Moscow, Russia to know she wanted to be a Cougar.

"I remember going to the men's basketball game and all of the fans were screaming and clapping," Malykh said. "It was so cool."

Malykh started playing tennis when she was 5 years old and her older brother's tennis coach invited her to pick up the racket.

Growing up, Malykh didn't care about the score — she simply enjoyed the game and couldn't go a day without playing. When Malykh visited BYU in the winter of 2016, she instantly fell in love with the energy and atmosphere at BYU.

Although she's not a member of the LDS Church, she's grateful for the Honor Code because of the comfortable environment it provides.

"I don't like the atmosphere when people are drunk," Malykh said. "I feel really safe at BYU because there are no drunk guys here."

But while the environment is a healthy one, Malykh sometimes struggles to communicate with her American teammates. Malykh said sometimes the inside jokes among her teammates get lost in translation.

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Aaron Cornia/BYU Photo

Polina Malykh is still learning American culture, but is quickly forming relationships with her teammates.

Fortunately for Malykh, she can rely on fellow Russian teammate Natella Nabieva's help.

"Sometimes I have no idea what the girls are talking about," she said. "They're joking and using some strange American words. I'm like, 'Natella, what are they talking about? I don't know, help me!'"

Nabieva also helps Malykh from getting too homesick. "Speaking to Natella reminds me of home," Malykh said.

BYU head coach Lauren Jones-Spencer said Malykh is becoming more outgoing with the team.

"The girls told me that she's dancing in the locker room and at weights. I've kind of seen it a little bit," Jones-Spencer said. "She's opening up, she's very positive and she's very sweet. I think she fits really well with the team."

Senior Demi Perkinson

agreed with her coach. She said it's clear Malykh is coming out of her shell.

"She's very funny, light-hearted, easygoing," Perkinson said. "And she's good at tennis."

Perkinson also praised Malykh's attitude and mindset, and said she's always working hard to accomplish things in school and tennis.

"I think she'll make an immediate impact as far as line-up goes," Jones-Spencer said. "I think her tennis experience and her attitude will help push the girls and make the team stronger."

Malykh is anxious for the season to start. She's ready to create a memorable freshman year with her teammates by her side.

"I like the team and coaches; the girls are all super fun," Malykh said. "I am excited about traveling, playing all together — all those memories."



Associated Press

Katie Uhlaender of the United States starts her third run during the women's skeleton competition at the 2014 Winter Olympics.

US luge team finalizes roster

ASSOCIATED PRESS

USA Luge's roster for the start of the World Cup season is set, with 14 sliders being formally tabbed for the team after the completion of a series of three seeding races on Thursday night.

Tucker West won all three of the men's seeding races and is headed back to World Cup competition, along with Chris Mazdzer, Taylor Morris and Jonny Gustafson. Mazdzer was third in the overall World Cup standings last winter.

"Each week we're getting better and better, progressing more and more, and I feel like that's still true," West said.

"Every day I'm getting more comfortable on the sled. We're figuring out what (sled) setup's working for us. We're making adjustments to our equipment. Things are looking good for us."

Emily Sweeney prevailed for the second straight women's race and won that seeding series. Sweeney, Olympic bronze medalist and former world champion Erin Hamlin, Summer Britcher and Raychel Germaine are the women's World Cup team selections for the Americans.

Sweeney has had a strong fall season, despite racing with a surgically repaired wrist that is hampering her abilities at the start — which is critical in any sliding discipline.

"My wrist is OK. It's pretty tired right now," Sweeney said. "I've asked a lot of it the past few days and I'm just trying to get the inflammation back down and get ahead of it. So that'll be my goal for my wrist for the next few days. Sliding-wise, I have a few things I have to clean up for when we come back for the World Cup."

In doubles, the teams of Jake Hynns-Anthony Espinoza, Justin Krewson-Andrew Sherk, and Matt Mortensen-Jayson Terdman are all World Cup-bound. All three teams won a race during the seeding series.

The teams leave for Europe on Saturday, and the World Cup season starts Nov. 26 in Winterberg, Germany.

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LDS artist pursues his dream quest

By KELSEY EDWARDS

It's important to have a dream, but it's even more important to achieve it, according to award-winning religious artist Howard Lyon and his wife, Shari Lyon.

Howard said his passion for art began at a young age while playing card games and video games with friends. He realized that someone was making a living by creating the artwork in those games.

He took classes, practiced his skills and went on to study illustration at BYU after realizing he wanted to pursue art.

Howard married Shari when he was in school. Shari said she knew art would always be part of her family's life.

"It was never a question," Shari said. "At our wedding reception I had one of my family members come up to me and say, 'That's great that he likes to draw, but what's he going to do to support you?' I said, 'He's going to draw to support me, and he's really good at what he does.'"

Howard accepted the unexpected opportunity to work in the video game industry and became the artist of thousands of mythical creatures, elves and dragons.

Shari said Howard worked for a video game company for a number of years until Shari said she felt a "major shift" was about to take place in their lives.

She felt the need to do something quickly to provide for her family. Shari suddenly found herself enrolled in a massage therapy program although she had never received a massage herself.

Shari received a phone call during her program's final exam from Howard stating the video game company he worked for was closing.

The family was left with no source of income other than Shari's new massage therapy skills and a holistic nutrition practice she later opened.

Howard said he felt the need to focus on his own art rather than seeking a traditional occupation.



Howard Lyon paints the finishing touches to one of his most recent pieces. Lyon's passion led him to create religious artwork. Ryan Turner

"I realized how hard I was working for other products and other people and I thought 'Well, if I work this hard for myself, then I could do my own thing,'" Howard said. "So I started doing freelance art and I haven't look back."

Eventually Shari said she felt another shift coming and Howard felt drawn toward religious art.

"He said, 'The world needs more light and goodness, and I can add to that.' He felt that was where he needed to spend his energy," Shari said. "And he continues to feel that pull to create beautiful images that inspire."

Shari said switching from video games to religious art was a leap of faith for her and Howard and a "huge jump off the cliff," but she knew it was what they were supposed to do.

Howard's first religious painting was one of his award-winning pieces, "From Fear to Faith." This painting came at the request of his brother and gave him the skills to launch into an entirely different line of work. He said this switch was exciting but challenging.

"Switching over from fantasy to religious art is almost like a career change, because it's a completely different clientele," Howard said. "You've created all these relationships and now you're starting over, but it didn't take long."

Some of Howard's most popular religious pieces include "From Fear to Faith," "The Light of the World," and "I Am a Child of God."

Howard's paintings have appeared in numerous issues of the Ensign, as well as other religious magazines. "From

Fear to Faith" also won a Merit Award in the 26th Annual Spiritual and Religious Art of Utah Exhibition.

Howard said his motivation for his art comes from deep thought, working through the message he wants to convey and searching for stories in the scriptures to support the message.

Howard typically works out of his in-home studio in American Fork. When creating a new piece, he follows a process of doing thumbnail sketches to get a feel for the composition of the piece. He draws a larger, detailed version of the sketch and stages a photo shoot to photograph the elements.

He then utilizes Photoshop to combine the elements into a composition and completes a larger drawing, generally the size of the canvas. It can take a

week or a month to finish the painting, depending on the painting's complexity, the type of paint used, the size of the painting and the amount of space to be covered.

Howard hopes people will "pay attention to how they feel and ponder the message or principle that might be behind it" when they see his art.

Shari and Howard found themselves in need of a coordinator as Howard's career took off. Shari decided to close her practice and fill the role herself rather than hiring someone to manage Howard's schedule and travel with him to events.

"That was hard, but it was worth it because we have had so much fun working together," Shari said. "We wouldn't do it any other way, but it's just not always easy."

Howard said his and Shari's ability to overcome challenges and work creatively has made a "beneficial and viable" impact on their family.

"The way we see it, if you're willing to work hard and strive to excel at something, and if it's something you love, then even better," Howard said. "Whatever it is the kids choose to do, as long as they work hard to do it, we're there to support them."

Howard's niece Lexi Lyon is a BYU fine arts graduate. She said Howard's success in following his dreams has inspired her to follow her own dreams as an artist, musician and pastry chef.

"If he hadn't done art and been successful at it, my parents wouldn't have been cool with me doing art," Lexi said. "I was frightened of it too, but after hanging out at the studio every day, I can see this is fine. This is totally a job."

Shari said the family has always felt blessed with successes regardless of the challenges they have faced.

"We've had such distinct circumstances in our lives that were only brought on because of following that still, small voice," Shari said. "It's always been situations that are scary and hard, but we go into it with faith. Then we see the blessings roll in."

Branding is crucial for local restaurants

By KARENNA MEREDITH

Giant bulbs illuminate the signs of the newly opened burger joint Chom and the well-known Cubby's restaurant. The signs are reminiscent of an old-time movie theater, and Chom's founders hope their sign will establish their new brand.

"The movies feel big, and we looked at a few different sign options and said, 'OK let's do Chom in bright lights, the biggest, baddest sign in Provo if we can,'" co-founder of Chom and BYU alumnus Mike Smith said. "So that's what we did."

Smith and his partners Colton Soelberg and John Petersen came together to create Chom, a new dining experience in Provo, which opened on Sept. 1.

Soelberg is no stranger to the Provo food scene. He has worked as a chef for 22 years and helped start Communal and Pizzeria 712. Smith credits Soelberg with being a "pioneer for food culture in Provo."

While Soelberg has had his hands in a variety of restaurants in the Provo and Orem areas, his vision for Chom came from a desire for customers to have a more simple and accessible experience.

"I bounced back and forth between a lot of different ideas. I ultimately came back to burgers. I like the simplicity of it, and I love burgers," Soelberg said.

Chom may be a restaurant, but Smith, who oversaw construction and marketing with Petersen, explained it's a brand as well.

In a competitive market of burger joints with identifying brands, Smith recognized the importance of creating a unique feel for Chom.

Smith and his partners were inspired mainly by Shake Shack when deciding on Chom's branding. He credits Shake Shack with bringing burgers back to the present, instead of relying on the past for a dining experience.

"A lot of other restaurants look backward as to what a burger restaurant should feel like and how the brand should feel," Smith said. "But we feel like there's an audience out there that wants to have a current experience."

Smith also said Chom is influential even though it is young.

"You have a concept of what (your



Colton Soelberg is the founder of Chom and many other area restaurants. Gianluca Cuestasa

brand) might be, but it's just like when you name a child, you don't really know how it's going to evolve," Smith said. "So now we're starting to pour in and we're interacting with customers and getting a sense of what we want it to become."

Aubrey Kushing, a junior studying history teaching at BYU, made her first-time visit to Chom on Oct. 1. Kushing thought Chom was reasonably priced for the quality it provided.

"Better quality, more expensive though — which if you want a good burger is fine with me," Kushing said.

Soelberg admits the price is higher than an average fast food restaurant or drive thru, but the high quality experience is still worth it for college students.

"It's a great place for a date or a late night. You just want to come and grab something and hang out with friends. It's a great spot for all that," Soelberg said.

Chom is a newly developed burger place in comparison to Cubby's, a Chicago Beef restaurant that opened locations throughout Utah in the past four years. Cubby's is available in Provo, Lehi, Spanish Fork, Sugarhouse, Taylorsville and South Jordan.

Owner and founder Cubby James wanted to bring his native Chicago beef to Utah, while also having healthy options on the menu for consumers.

"My wife has a really healthy palette and I like to eat healthy too, so we just wanted to give healthy food to everyone," James said.

James created the first Provo

location using whatever resources were available to him at the time, and with the help of family, friends and previous connections.

"It was a team effort, and it was a lot of fun doing it that way," James said.

The branding of Cubby's is important for the restaurant's success, according to James. He admits it is difficult to quantify if it brings in money or clientele, but it still serves a purpose.

"For us, it's important because we like design and we know people appreciate it because people will make comments," James said. "We didn't want every store to be exactly the same, so all six stores have a different feel. We like to have a different design, different feel because it's a talking point. Instead of just going and eating food, people can talk about the design and how unique it is."

BYU exercise and wellness student Elisabeth Wiser said she enjoys visiting Cubby's because of the "young and fun" brand.

"I love the menu style, feel and atmosphere of the restaurant," Wiser said.

Both restaurateurs actually know each other, and James provided some advice for Chom. He advised Chom to pay attention to the needs of the customers, and rely on word of mouth and social media to get the word out.

"You're only going to make it from your customers if your customers like you and the food quality is high," James said. "If you're going to go for it and you're going to make it, you just have to go all in."

Women compete for first time in surf contest

ASSOCIATED PRESS

Charging into violent waves at a Maui surf break known as "Jaws," a group of women made history Friday as they competed for the first time in the World Surf League's big-wave surfing competition.

The female competitors paddled into mountains of turquoise water towering more than 30 feet, but the wind shifted at the start of the first heat and several were pummeled by an unexpected breaking wave.

Women have pushed for years to be included in big-wave surfing competitions, while organizers of some contests argued that conditions at famous breaks such as Mavericks in California were too dangerous for women.

That competition will include women for the first time this season after state regulators said they might refuse to grant a permit if women were not included. And for the World Surf League, which holds professional competitions around the globe, it's been a matter of getting enough participants to hold a women's event.

Competitor Bianca Valenti, who has pushed for women to be included in professional big-wave surf contests, called the day a big step forward for women in the sport.

"It's the least we can do to speak to the election the other day," Valenti told The Associated Press in a phone interview before the competition, referring to Hillary Clinton's defeat by President-elect Donald Trump.

"I watched Hillary's concession speech and what she was saying — how important it was for women to really stand up now more than ever to break the glass ceiling — and that really resonated a lot," Valenti added.

There are 12 women and 24 men competing in separate events at the perilous Hawaii break, where competitors' training regimes include building up the ability to hold their breath underwater for four minutes in case they are pinned under by crashing waves.

Paige Alms, a surfer from Hawaii, had a few humbling wipeouts, but won the competition.

"I still feel like it's kind of a dream,



Bianca Valenti walks on the beach after surfing in the Peahi Challenge in Half Moon Bay, California. Associated Press

but ah, I can't believe it," Alms told the World Surf League after her win. "What a blessing to be out there with just a couple girls. That was special, for sure."

Two women were taken to the hospital with knee injuries during Friday's first heat, and Valenti's surfboard broke in half during the second heat when she wiped out on a wave.

The World Surf League only recently began holding a big-wave competition, spokesman Dave Prodan said. With a small window of time when conditions are right, it's hard to accommodate a large group of men and women, he added.

"Women have for years and years been participating in the big-wave community, but probably only in recent years have you had a jump in participation to the point where you have that depth in the field to hold an event," Prodan said.

In California, the renowned big-wave competition Titans of Mavericks agreed to include women for the first time this season, although it has not yet been held.

"This is really about paving the way for the future generations and creating opportunities for them," Valenti said. "Just the importance of using our voice all the time and speaking up for what we want."

California teen dedicated to documenting World War II vets

ASSOCIATED PRESS

For as long as he can remember, Rishi Sharma's heroes haven't been sports stars or movie stars or any other kind of stars. They've been the U.S. combat veterans who won World War II.

Alarmed that even the youngest of them are now in their 90s and dying each day by the hundreds, the Southern California teenager has launched a campaign to try to ensure each one's legacy.

"I'm on a mission to in-depth film interview a World War II combat veteran every single day," the earnest 19-year-old says after a recent afternoon spent in the living room of William R. Hahn of Los Angeles, where Sharma mined the 93-year-old's memories for hours.

His Canon 70D camera rolling, his long, jet-black hair tied back in a tight ponytail, the son of Indian immigrants listened intently as Hahn recounted how he received the Silver Star for bravery by charging through a hail of gunfire on Easter Sunday 1945 as Allied forces retook the German town of Hettstandt.

Asked if he considers himself a hero, Hahn chuckled.

"Not really," said the retired metal-shop teacher who had a bullet come so close to him that it blew the canteen on his belt to smithereens. Other guys, he said, did similar things, and not all came back to talk about it.

Sharma wants to meet and honor every one who did, and he knows time is not on his side.

Of the approximately 16 million Americans who served in some capacity during WWII, some 620,000 survive, but they are dying at the rate of nearly 400 a day, according to the National Museum of World War II.

"I want to create this movement where people, where they just realize that we have such a limited time with these men who saved humanity," he says. "Let's try to learn as much as we can from them and give them a proper send-off and make them feel like their sacrifices they made were worth it."

He figures he's got about 10 years to do that so he's putting off college, putting off finding a job, putting off looking for a girlfriend, putting off just about everything except occasionally eating and sleeping between interviewing combat veterans.

Since childhood, Sharma says, he's been fascinated by the sacrifices men his age made during WWII, risking their lives for freedom, then returning home to raise families and take everyday jobs as they transitioned back to civilian life.

He read every book and watched every documentary he could find. But it wasn't until his



Associated Press

Rishi Sharma interviews World War II veteran William Hahn, at his home in Los Angeles. Sharma's heroes aren't sports or movie stars, or any other kind of stars; they're the U.S. combat veterans who won World War II.

junior year at Agoura Hills High School, just north of Los Angeles, that he became committed to meeting them.

He came across the name Lyle Bouck, one of the heroes of Germany's Battle of the Bulge, as he read historian Stephen Ambrose's book "Citizen Soldiers."

Fascinated, he looked up Bouck's phone number and called him, not realizing it was 1 a.m. where the 92-year-old war hero lives. A friendly voice on the other end of the phone told Sharma if he called back at a decent hour, Bouck would be happy to talk.

That's when the teen had an epiphany. "It made me realize these guys are really out there! And I could do this for all of them."

Soon Sharma was riding his bike to every retirement home within pedaling distance. After he interviewed every combat-hardened soldier there, he turned to veterans halls, then the internet.

Borrowing his parents' car, he traveled to Oregon over the summer, then back down the California coast, interviewing still more people. He's up to about 160, and has plans to expand his travels in the weeks ahead to Arizona and other states and, on next month's 75th anniversary of the Pearl Harbor attack, to Hawaii.

He makes a DVD of every interview and gives it to the veteran. Some have passed on copies to the World War II museum.

"He's just totally dedicated and a very decent young fellow," says Howie Beach of Fullerton, whom Sharma recently interviewed. What he is doing is important, says Beach, another Silver Star recipient who at 91 sometimes speaks to high school groups.

"But a lot of them go on their merry way, just taking their lives and their freedoms and all that for granted," Beach says of those students. "So it's good to see a young man like Rishi with such a convincing way about him."

Such an effort doesn't come cheap, however, and Sharma quickly exhausted his modest life's savings carrying it out. He raised about \$3,300 through a GoFundMe account and has spent most of that. To economize during the Oregon-Northern California trip, he limited himself to one meal every other day.

But Sharma, who also founded a nonprofit called Heroes of the Second World War, has huge dreams for his effort. He'd like to eventually recruit others to help conduct interviews, perhaps get the interviews to museums and allow others to get to know some of the people he says have become his closest friends.

"This one guy I interviewed in Oregon told me he hadn't been visited by anyone in over five months and that he was just waiting to die," Sharma recalled. "This is a 94-year-old who saw combat in the South Pacific, and now he has no one."

Ex-New Mexico governor's next challenge is a bicycle trip

ASSOCIATED PRESS

Former New Mexico Gov. Gary Johnson says he has no regrets about running for president for the second time and finishing a distant runner-up as a Libertarian candidate.

He's already talking about his next challenge, and it won't be another try for public office.

Johnson, 63, said he is planning a bicycle trek, riding nearly 3,000 miles along the Continental

Divide from Canada down into New Mexico sometime in early June.

The Taos resident and ardent triathlete is referring to the 2,768-mile Great Divide Mountain Bike Route from Banff in Alberta, Canada, to Antelope Wells in New Mexico's Hidalgo County.

"I'm dedicating myself to health and fitness," Johnson told the Albuquerque Journal. "Maybe I stay politically active, but not as a candidate. I will leave that to others."

In the presidential race, Johnson said was just hoping to secure 5 percent of the nationwide popular vote, enough to achieve major-party



Associated Press

Gary Johnson says he has no regrets about running for president for the second time and finishing a distant runner-up.

status for the Libertarian Party and qualify the party for federal funding in the next election.

"This is a head-on effort to get on the ballot in all 50 states," he said. "I'm hoping this is going to end the two-party system."

But Johnson and his running mate, former Massachusetts Gov. William Weld, fell short. Latest totals show they garnered more than 4 million votes, 3 percent of the total.

Johnson pointed out that he and Weld "garnered more votes than any third-party candidate since Ross Perot," who ran as independent in the 1992 presidential campaign.

"Given that we spent less than 1 percent as much as (Donald) Trump and (Hillary) Clinton, the level of support we received is historic," Johnson said. "We made a credible third-party ticket part of the national conversation. Both major parties will be doing a lot of soul searching in the weeks and months ahead. We can hope that the results will be policies that reflect the priorities of people, not partisans."

Johnson and Weld did get 9.3 percent of the New Mexico vote, making it possible for the Libertarian Party to get major-party recognition and public funding for elections in that state. They also got 6.3 percent of the vote in North Dakota, Johnson's native state.

In Johnson's 2012 bid for the presidency, also on the Libertarian ticket, he received 1.2 million votes, just shy of 1 percent.

Johnson ran as a Republican in his successful bids for New Mexico governor in 1994 and 1998, but he said he has identified as a Libertarian since the early 1970s.

He believes a third party is necessary to focus the national discussion on issues rather than character assassinations and thinks the next election will see Libertarian candidates up and down the ticket.

Puzzles & Comics

Sudoku

Solutions available at universe.byu.edu/sudoku

			9		5			
	5	6	3		7	1	2	
	3			6			5	
5	2						1	7
		1		7		9		
7	9						6	5
	7			3			4	
	6	9	7		1	5	3	
			8		2			

Puzzle 1: Easy

2				8				4
	4						8	
		6	1	4	2	3		
		8	5		6	7		
3	1					4		5
		7	2		4	8		
		2	9	6	8	5		
	1						3	
9				5				8

Puzzle 2: Moderate

4	1		9		2		5	7
2			4		8			9
				5				
5	7						3	4
		2				7		
3	9						8	2
				9				
9			6		3			1
1	6		7		5		4	8

Puzzle 3: Medium

4	9						6	1
5			3		1			9
		2				8		
	2			3				1
			7	8	5			
	8			9			3	
		6				9		
8			6		4			3
2	7						8	4

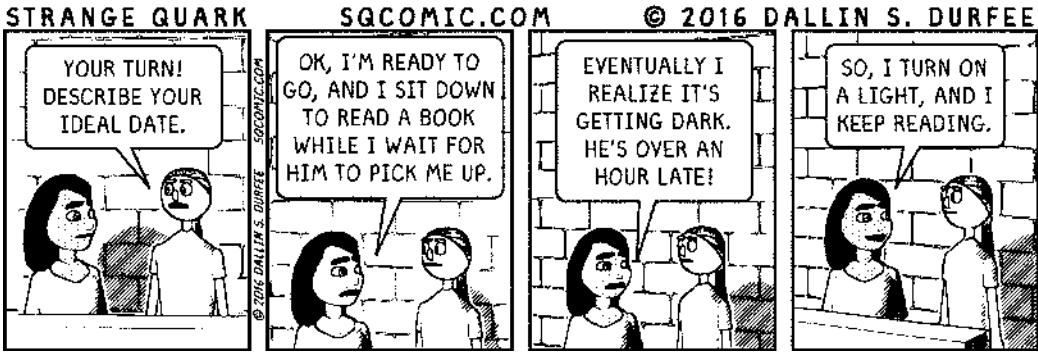
Puzzle 4: Medium/Hard

5			3			2		
	7			5	8			
		9						6
8				3			2	
	2		6		4		9	
	5			9				4
9						5		
			9	8			6	
		7			5			9

Puzzle 5: Hard

	7						9	
8		3				1		5
	2		1		6		3	
		7	4	2	8	5		
			5		9			
		9	6	1	3	2		
	9		8		1		5	
1		2				8		3
	8						6	

Puzzle 6: Very Hard

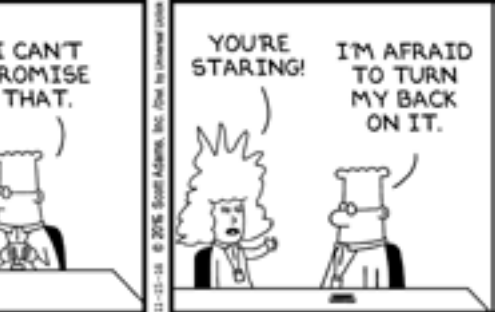
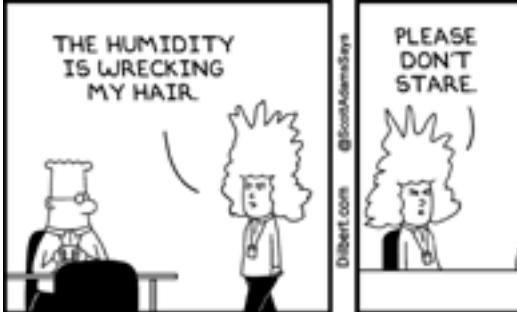
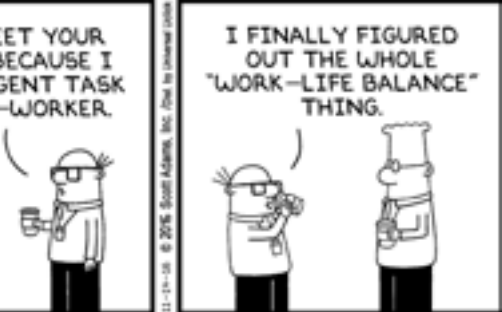
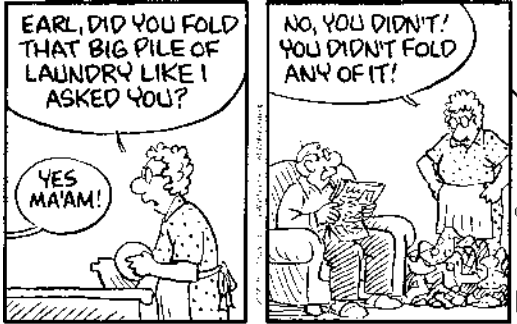
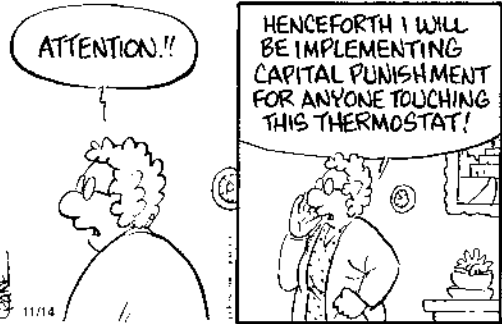
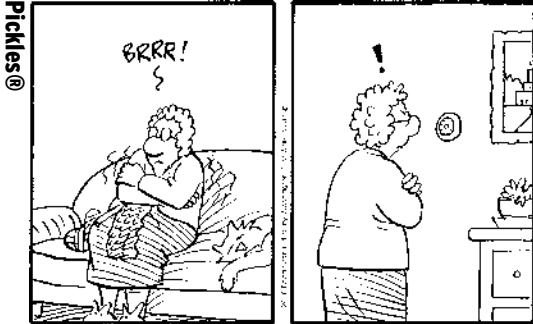
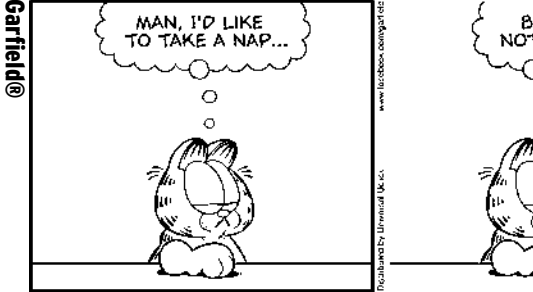
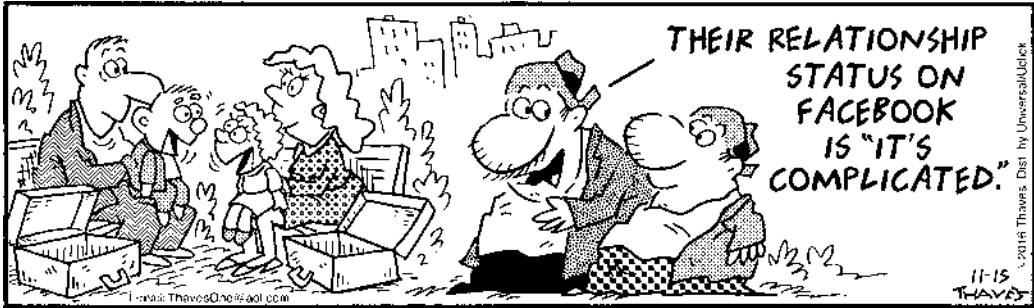
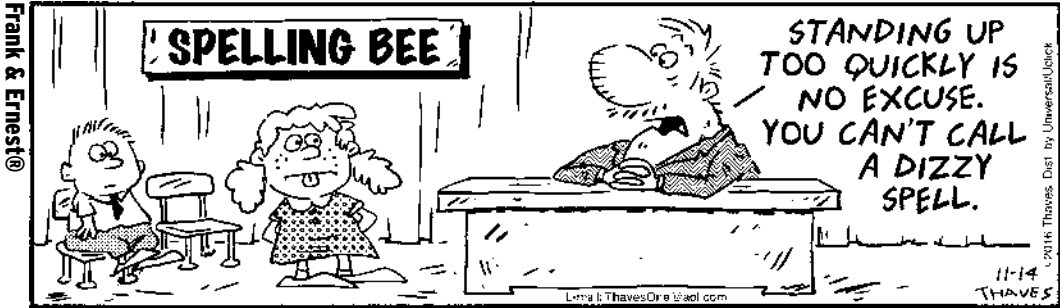
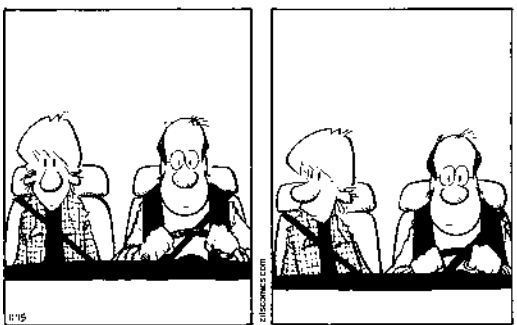
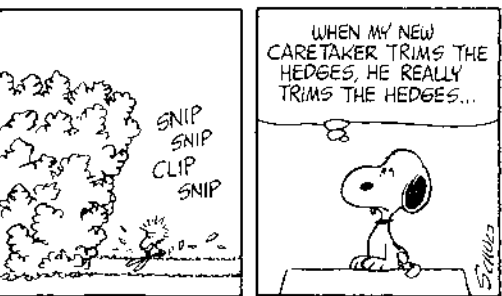
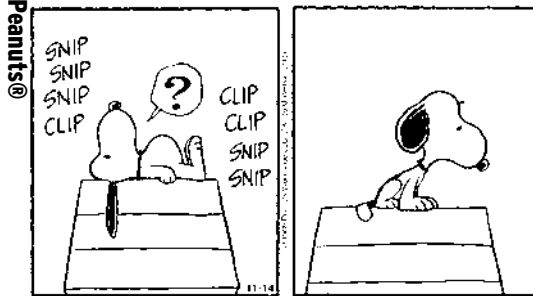
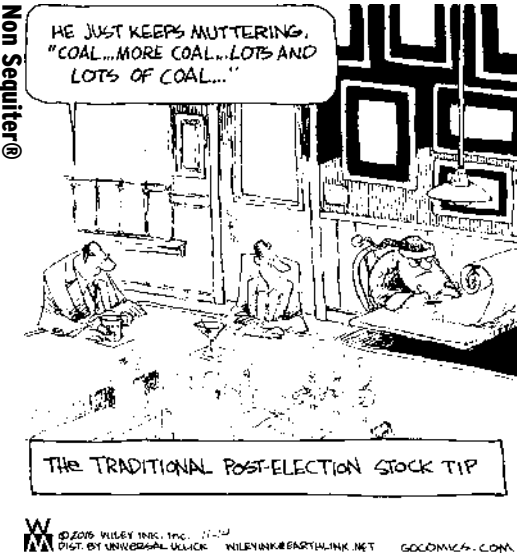




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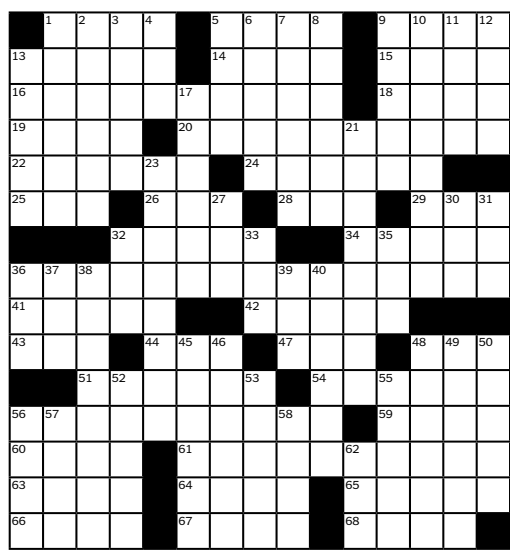
The New York Times Crossword

Edited by Will Shortz No. 1210

- ACROSS**
- Young wolves
 - Unenviable situation
 - Bloke
 - Blues chanteuse Washington
 - That señora
 - Build up
 - Geopolitical term introduced in the 2002 State of the Union
 - Game box specification
 - Infernal
 - One drawing alluring images
 - Wipes (out)
 - Phoenician or Palestinian
 - Treacherous bend
 - School of thought
 - Greasy spoon
 - White-tailed eagles
- DOWN**
- Spots for computer users
 - Hooks up
 - Turkish pooh-bah
 - Worker at a stable
 - Series of races
 - Singer befriended by a young Forrest Gump
 - Was an errant driver?
 - Sub choice
 - Go on and on and on
 - Salubrious
 - Pithecolological study
 - Trying type
 - Terpsichore's domain
 - Bone to pick?
 - Head of a conspiracy
 - Chicago Cubs Hall-of-Famer

ANSWER TO PREVIOUS PUZZLE

OBAMA	CATT	POSH
TAROT	AMOS	ITTY
INTHE	DRINK	TERP
SASS	IONE	MCRAE
MEMORY	CHIPS	
IGOTIT	USE	
NEPAL	TUNA	SWAT
KNUCKLES	SANDWICH	
SOSO	ADAM	YOSHI
SMART	COOKIE	
HAGUE	CRAG	BONA
ERIC	LUNCH	BOXES
MINK	ALOE	TWERK
PEGS	PITY	WENDS



PUZZLE BY TIMOTHY POLIN

- ACROSS**
- "Surely not ME!?"
 - Northern game
 - Classic Mercedes roadsters
 - Honey-colored
 - Early afternoon ora
 - Flynn of film
 - Dallas institution, for short
 - Lunar celebration
 - Like the core of the sun
 - Chow line?
 - "Guns"
 - Opening word
 - Thus far, informally
 - Several works of Michelangelo
 - Order out?
 - Lotus position in yoga, e.g.
 - Removal
 - Storied assassin
 - Song of the South
 - Typo, e.g.
 - Bring aboard
 - Low hand?
 - Build

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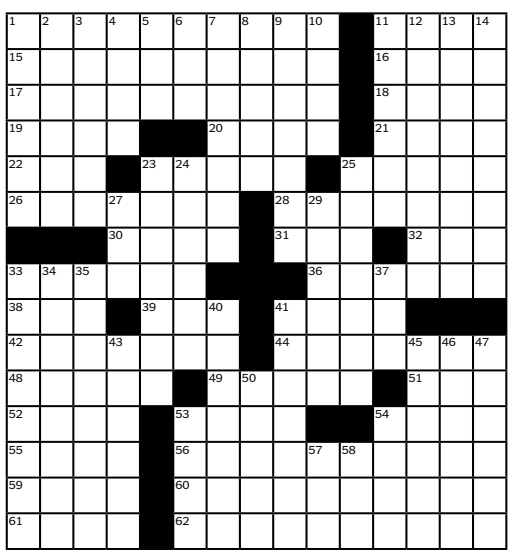
The New York Times Crossword

Edited by Will Shortz No. 1211

- ACROSS**
- Jump removal service
 - It featured the parody soap "The Days of the Week"
 - Store in the Middle East?
 - Erato played one
 - Round numbers?
 - Construction support
 - Set for a regatta
 - Sharp
 - 1850s Flying Eagle, e.g.
 - Giant legend
 - Violinist's prize
 - Like newspaper headlines, typically
 - "The shadow of a starless night," per Percy Bysshe Shelley
 - System of what eats what
 - Detriment
 - "Sure thing"
 - From one end to the other: Abbr.
 - Ancient Greek state
 - Ancient Greek state
 - Growler
 - Challah need
 - 1944 battle site
 - Excellent credit rating
 - Runner's shock absorber
 - Taken together
- DOWN**
- "Delicious!"
 - Sea menace
 - Gives a tip
 - G.I. fare
 - Swampland
 - Vol. 1, No. 1, e.g.
 - What carries a shield, typically
 - Pay for
 - Internet-based Homeland Security program used by employers
 - Leftovers
 - How most bread is sold
 - Large-scale spread of viruses, say

ANSWER TO PREVIOUS PUZZLE

ADWAR	ACIDWASH
BIASED	BARRETTTE
ERNANI	IMMOBILE
MTA	GRAZ VEL
APPIANWAY	KAOS
FOE	AHI SUNNI
TODOS	ELNINO
ARIZONA	WILDCATS
ONATIP	OKNOW
DINGY	LAT TOE
SAME	ALTARWINE
ASA	KOFI HAI
MAGNOLIA	OSCARS
ONEALARM	ETCHES
AIRWAVES	AANDW



PUZZLE BY BARRY C. SILK

- ACROSS**
- Divide by cutting
 - It's in the back
 - Small power source
 - Sight on a hot road
 - Removes from power
 - N.L. East team
 - Removal from power
 - Civil disobedience, e.g.
 - Become
 - Test drive
 - Service with a 1-Across
 - Winter warming option
 - Monterey Pop Festival performer of 1967
 - Protest
 - Cumulative series of bets
 - Pique
 - Not so bright
 - Old Olds
 - Equal amts.
 - Funeral mass
 - 4/
 - Short

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Kennedy Center’s oldest study abroad continues drawing large numbers

By ALICIA MATSUURA

More people apply to the London Centre than any other Kennedy Center study abroad, and up to 164 students go on this program every year.

The London Centre study abroad, established in 1977, is the longest-running program offered through International Study Programs. The Jerusalem Center is not a Kennedy Center program, but it is the oldest running study abroad offered at BYU.

BYU international study programs director Lynn Elliott said the London Centre was under construction from mid-2013 to May 2014 for remodeling. It formally reopened in June 2014.

“The intent of the renovation was to keep the spirit and look of the building, but to update it,” Elliott said.

Remodeled areas included heating and mechanical elements, student living spaces and faculty apartments. The center also added an outside garden patio.

The London Centre, two adjoining three-story Victorian townhouses, is located on a quiet street in an exclusive neighborhood. It’s just north of



Regan Crandall

Front row, from left: Jaylee Shepard, Regan Crandall, Hailey Mann, Missy Cloward, Tori Simpson and Erica Woolf. Back row from left: Abby Bennett, Erica Bennett, Kenzie Kyle and Mckenna Bulloch. They participated in a London study abroad last summer.

Kensington Palace, and it’s also close to Hyde Park, Portobello

Road and three Tube stops. Mortensen, a senior studying

English, attended the Summer 2016 London Centre program.

“As an English major, I studied so many of the texts and always wanted to see all the things I read about in person,” Mortensen said. “You learn about historical events and then your homework is to go see the things we learned in person.”

During the Summer 2016 term, the program offered courses on national identity, British literature and British history. These courses don’t require prerequisites and full general education requirements for most students.

“They’re really good about trying to get general classes, not just for English majors,” Mortensen said. “The diversity is great in the classes.”

Mortensen said the London Centre is popular not only because it appeals to all majors but also because of what the city has to offer.

“By going to London you’ve traveled the world,” Mortensen said. “You see statues from the Parthenon, art museums with Picassos and Van Gogh — there’s just so much culture in one city.”

Public relations sophomore Regan Crandall also attended the London Centre in summer 2016. She studied there for seven weeks with about 40 other students.

Along with taking classes

and studying, they traveled to various locations throughout England.

“We took a one-week trip up to the north of England,” Crandall said. “We traveled to the Lake District, went to Oxford and traveled all around England. It was probably one of the highlights of the program.”

International relations senior Jacob Nielsen is currently studying abroad at the London Centre.

“I think that the London Centre offers both diversity and familiarity for students at the same time,” Nielsen said in an email. “They get to experience life in a fast-paced, extremely modern and diverse city that also doubles as a very historical city.”

Nielsen also said people choose to come to London because it’s safe, English-speaking and more familiar than other parts of the world.

Elliott shared what makes BYU’s study abroad programs stand out among other programs.

“We try hard to make sure that BYU’s international programs meet the learning objective and mission statement of BYU,” Elliott said. “Students who go on BYU programs are going to have a BYU experience abroad.”



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Piano Guy’s daughter’s remains identified in Oregon

ASSOCIATED PRESS

Human remains found at the bottom of an Oregon cliff have been positively identified as those of a former Utah woman missing since last month.

Family members of 21-year-old Annie Schmidt, daughter of Jon Schmidt of the Piano Guys, say a medical examiner noted the cause of death as accidental.

“We just received word from the medical examiner that the remains found yesterday have

been positively identified as Annie,” Jon Schmidt shared on Facebook on Nov. 12. “The cause was determined accidental. You have lived this trial with us and we pray that this may bring a greater level of resolution and peace for all of us.”

Annie Schmidt was reported missing Oct. 19 after she didn’t return from a hike near the Columbia River Gorge. She moved to Portland from Salt Lake City in July and was an avid hiker.

Authorities say her car was found near Bonneville Dam,

but the search for her was unsuccessful.

The Multnomah County Sheriff’s Office confirmed Friday that dog teams had found remains below Munra Point.

Annie Schmidt’s family members say they were able to identify the clothing and other items found with the body before it was positively identified by police.

“There is comfort in knowing from the circumstances that there would have been no suffering,” Jon Schmidt shared on Facebook on Nov. 11. “There is



Portland Police Bureau

no way to thank our Heavenly Father and His Son Jesus Christ for the support we have felt through you. You have searched with us, prayed with us, hoped with us, fasted with us, supported us and sacrificed for us. We thank you from the very bottom of our hearts!!!!”



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