

Stepping into a New Future: Bionic Limb reflects advances in prosthetic technology

Tyler Talley

Staff Writer

Chicago, IL - A new advancement in prosthetics for leg amputees has emerged in the form of a thought-controlled bionic leg, according to NBC News.

Zac Vawter, 32, lost his lower right leg in a motorcycle accident four-and-a-half years ago. Vawter has made use of a mechanical prosthetic, but has now been fitted with a new cybernetic limb constructed by scientists at the Rehabilitation Institute of Chicago (RIC), according to Levi Hargrove in his article for The New England Journal of Medicine.

Until now, only thought-controlled arms have been available to amputees.

Hargrove, who is also a biomedical engineer and research scientist at RIC, stated the leg is a groundbreaking development.

"It allows people to seamlessly transition between walking along level ground and going up and down stairs and slopes," Hargrove said to NBC News.

The article goes on to say that the bionic leg uses neurosignals from Vawter's upper leg muscles to control the prosthetic knee and ankle.

When a person thinks about moving, a signal is sent from the brain via the spinal cord. It is these signals that control muscles. After an amputation takes place, the muscles are gone, but the nerves remain.

Vawter underwent surgery to move these nerves to his hamstrings. Sensors now relay the nerve signals to a computer, which in turn tells the knee and ankle how to move.

"We've rewired him," Hargrove said. "So you just think about moving along, pushes you up stairs, helps control you when you walk down stairs and it does everything in a seamless manner."

The process was not made overnight. Vawter and his surgeon first

contacted the institute in 2009 after being made aware of their work with bionic arms.

Hargrove, his team and Vawter would then soon begin a three-step process, concluding in October 2012.

and we want to avoid that at all costs," Hargrove said.

Since the leg is still a prototype, Vawter is not allowed to take leg home with him. The team

a very long process filled with trial and error, as well as budgeting and insurance issues. Because of this, it is hard to get excited about it."

Zummo was born with limb-deficiency including a short femur, and no

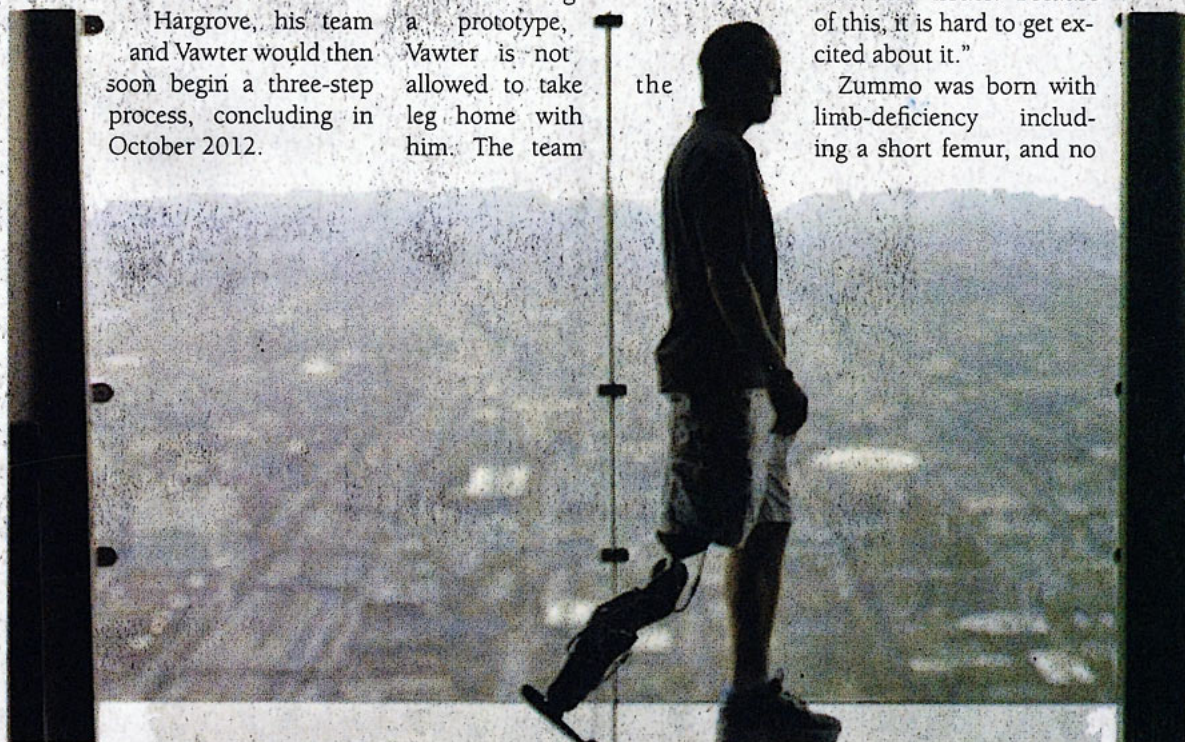
time," Zummo said. "My parents made the difficult decision of amputating my right foot in order to be fit with a prosthesis."

Zummo said as she got older, she began to dream of a thought-controlled prosthetic leg and even went so far as to draft prototypes for such a device that are similar to the leg the RIC team developed.

She was met with rejection from her hospital in California and become discouraged. Zummo went to offer some advice she said was harsh, but honest.

"There are certain things amputees just sort of 'suck up' and deal with. If the limb isn't there, it isn't there. Amputation is permanent. In order for one to maintain one's sanity, you put certain dreams behind you and focus on the future and what really can be. Being isn't just about physical differences or adjustments; it's more emotional... psychological," Zummo said.

Zummo concluded by saying, "I guess it has been a long time since I've dreamed of the possibility of a



In this Oct. 25, 2012 photo, Zac Vawter, fitted with an experimental "bionic" leg, is silhouetted on the Ledge at the Willis Tower in Chicago. Vawter is training for the world's tallest stair-climbing event where he'll attempt to climb 103 flights to the top of the Willis Tower using the new prosthesis. Photo by Brian Kersey, The Associated Press.

The occasion was marked by Vawter participating in a charity climb up the 103-floors of Chicago's Willis Tower. He became the first person to ever accomplish this, according to Michelle Janaye Nealy of the Associated Press.

Hargrove said the U.S. Army's Telemedicine and Advanced Technology Research Center funded the study with an \$8 million grant. The purpose of the grant was to add neural information to the control system, as devising a thought-controlled bionic leg has been more challenging than previously thought, according to Hargrove.

The motors needed for this kind of device must be powerful enough to provide energy to allow for movements, such as standing. They must also be small and the control system required must be safe.

"If there is a mistake or error that could cause someone to fall, that could be potentially catastrophic,

wishes to make the minimal error rates for the software even smaller.

Hargrove concluded by saying the final product's cost has yet to be determined. He added that through careful engineering, he hopes that it will be affordable because his ultimate goal is to restore full ability to all patients, including veterans and the elderly.

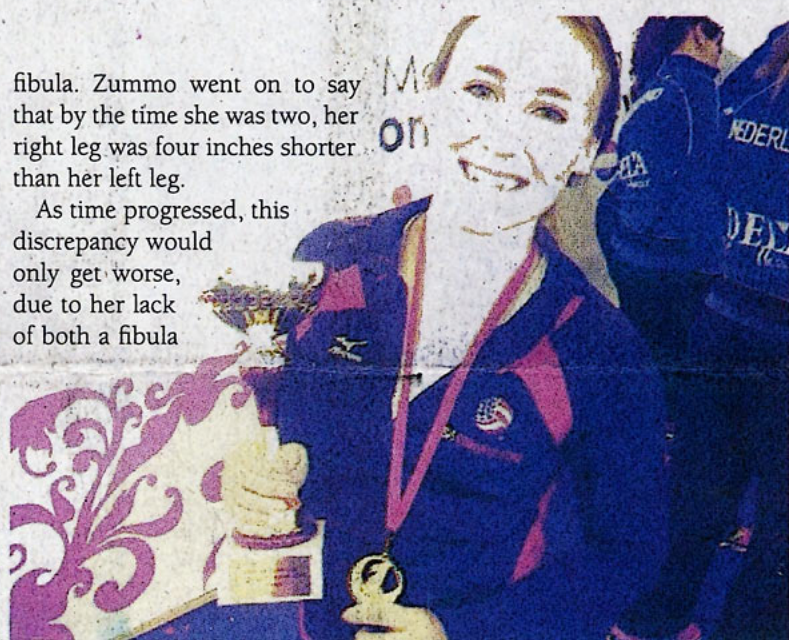
"This could mean the difference between living in their home longer and having to go to a nursing home," Hargrove said.

While the leg represents a new advancement in the world of prosthetics, UCO student and UCO sitting volleyball team member Bethany Zummo stated that while it is a nice idea, a bionic limb is far from reality for her.

"When I was younger, reading this would have been exciting and inspirational," Zummo said. "However, the invention and implementation of this type of technology is

fibula. Zummo went on to say that by the time she was two, her right leg was four inches shorter than her left leg.

As time progressed, this discrepancy would only get worse, due to her lack of both a fibula



Bethany Zummo, a U.S. Sitting Volleyball Team athlete, practices and plays at UCO. She hopes to one day have a leg like the one Vawter has. Photo provided by Bethany Zummo.

and lateral knee or ankle support.

"Which basically means I could blow out my knee or ankle at any

prosthesis being so life-like or human. It almost seems too good to be true."

Edmond Police Department addresses suspicious package

Alex Cifuentes

Contributing Writer

Edmond Police Department bomb technicians determined a suspicious package reported near Edmond North High School on Wednesday, September 25, contained a student's lunch.

Following recent attacks internationally, the spotlight is firmly set on threats or suspicious packages, like the one discovered at Edmond North.

The package was first seen by a school bus driver at approximately 9:15 a.m., who saw the package sitting on a drainage ditch on the east side of the school, located on Thomas Drive. The driver flagged down a nearby police officer, which then alerted bomb technicians from the Edmond Police Department and then closed Thomas Drive.

"The package looked like someone had set it there, not like it had been dropped," said Edmond Police spokeswoman Jennifer Monroe.

During the discovery of the suspicious package, the entire student body was attending an anti-violence assembly called "Rachel's Challenge," so the students were held in the assembly longer, while the bomb technicians examined the package.

Once the bomb technicians examined the package with a handheld x-ray machine and determined it was not dangerous, the students were released and Thomas Drive was re-opened for traffic.

In light of recent attacks on public schools, universities and other public areas worldwide, bomb threats and suspicious packages are viewed as real threats and all are reviewed with the highest level of precaution.

"Our response to a bomb threat is dependent on the information received. We assume a threat is real when it is received. If the threat provides details we can investigate, we act on that information. If the threat investigation develops further information or if we find a suspicious package, we act to ensure the safety of our campus community. If necessary and appropriate, we may close an area of campus or the entire campus depending on the circumstances," said UCO Police Chief Jeffrey Harp.

While all threats are investigated to the fullest extent, opportunistic citizens have found ways to use the high threat perceived with a suspicious package or bomb threat to their advantage.

See 'Bomb Squad' on Page 3



Upper left, Edmond Police officers put the department's bomb robot together in this January 22, 2010 photo of a bomb threat at Oklahoma Fidelity Bank. Upper right, Edmond Police Department respond to a suspicious package reported near Edmond North High School on Wednesday, September 25, 2013. Bottom left, a member of the Edmond Police department's Bomb Squad prepares to search the Oklahoma Fidelity Bank. Bottom right, Edmond Police Officers load the remaining equipment after searching Oklahoma Fidelity Bank and determining there were no bombs in the building. Photos provided and from Vista Archives.

THE VISTA

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The Vista is published as a newspaper and public forum by UCO students, semiweekly during the academic year except exam and holiday periods, and only on Wednesdays during the summer, at the University of Central Oklahoma. The issue price is free for the first copy and \$1 for each additional copy obtained.

EDITORIALS

Opinion columns, editorial cartoons, reviews and commentaries represent the views of the writer or artist and not necessarily the views of The Vista Editorial Board, the Department of Mass Communication, UCO or the Board of Regents of Oklahoma Colleges. The Vista is not an official medium of expression for the Regents or UCO.

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The Vista encourages letters to the editor. Letters should address issues and ideas, not personalities. Letters must be typed, double-spaced, with a maximum of 250 words, and must include the author's printed name, title, major, classification and phone number. Letters are subject to editing for libel, clarity and space, or to eliminate statements of questionable taste. The Vista reserves the right not to publish submitted letters.

Address letters to:

Editor, The Vista, 100 N. University Dr., Edmond, OK 73034-5209, or deliver in person to the editor in the Communications Building, Room 131. Letters can be emailed to vistauc@gmail.com.

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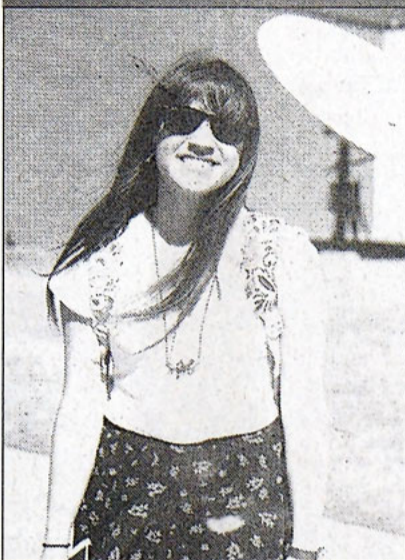
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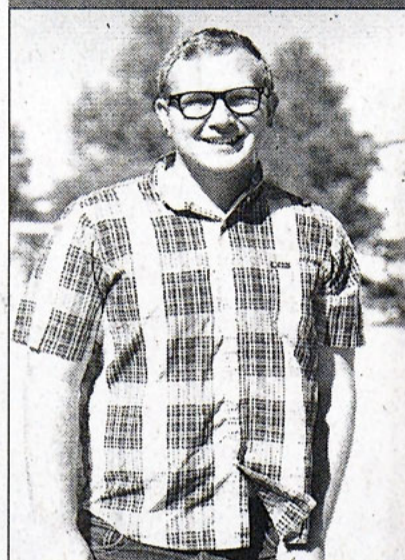
What do you think will happen if the government shuts down?

VICTORIA GARRETT
Musical Theatre - Freshman



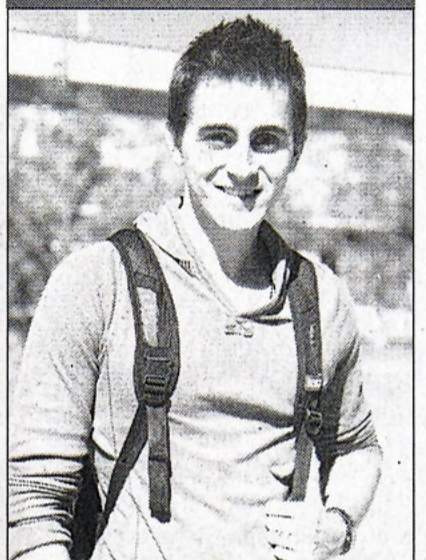
"It would be chaotic, if we don't have a government we can't make decisions."

ALEX BAKER
Strategic Communications - Senior



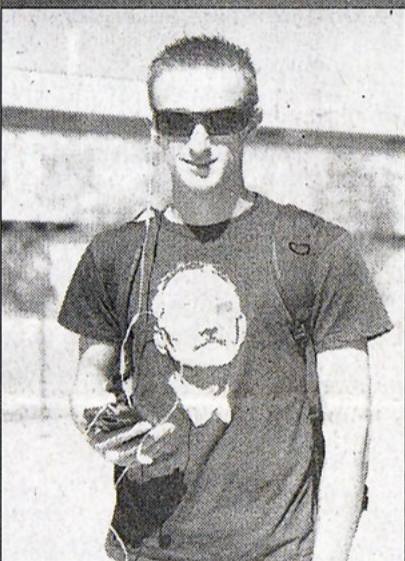
"Probably a lot of finger pointing. Instead of fixing it, they'll just complain."

SAM LOOS
Organizational Communication - Sopho-



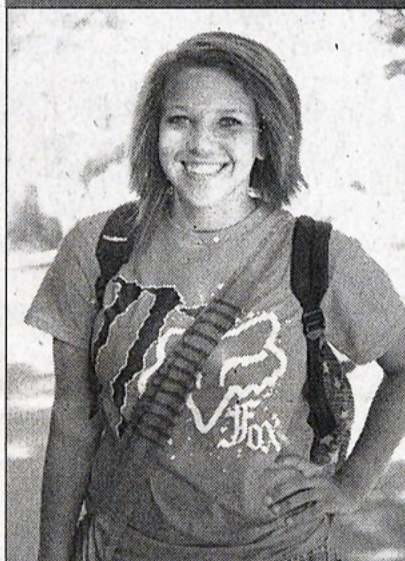
Could be some anarchy. I know there will be an uproar.

BRANDON WHATTS
Industrial Safety - Junior



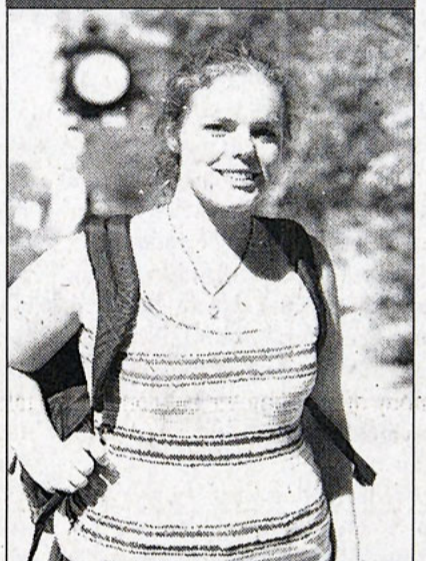
"I think it would turn into an anarchist society."

ARIANNA NERO
Music and Psychology - Freshman



"I would compare it to the TV show Revolution. It'd be almost as bad as if all of the power went out."

LAUREN HAMILTON
Photo-Journalism - Senior



"In about a day or two they're going to be forced to compromised. If there is one thing government likes more than fighting it's money."

Editorial Recap

By: Brooks Nickell (Staff Writer)

Luxottica, sounds pretty fancy, no? The first time I heard the name I thought to myself, surely this is a sports car. But, while it's not the future of the roadster and you won't see it cruising down the freeway trimmed to the teeth in chrome and turtle-wax, it does share one thing with American Muscle cars foreign competitors Ferrari, Alfa Romeo and Fiat.

Much like these top-of-the-line speedsters, Luxottica hails from Italy. The company boasts that their sun and prescription eyewear is of high technical and stylistic quality and improves the well being and satisfaction of its customers, at the same time creating value for employees and the communities in which the group operates (Their Words not mine.)

Exactly what communities does Luxottica operate in? Well, have you ever been to a little store called Sunglass Hut, how about Pearl Vision, Target, Sears or even Lens Crafters.

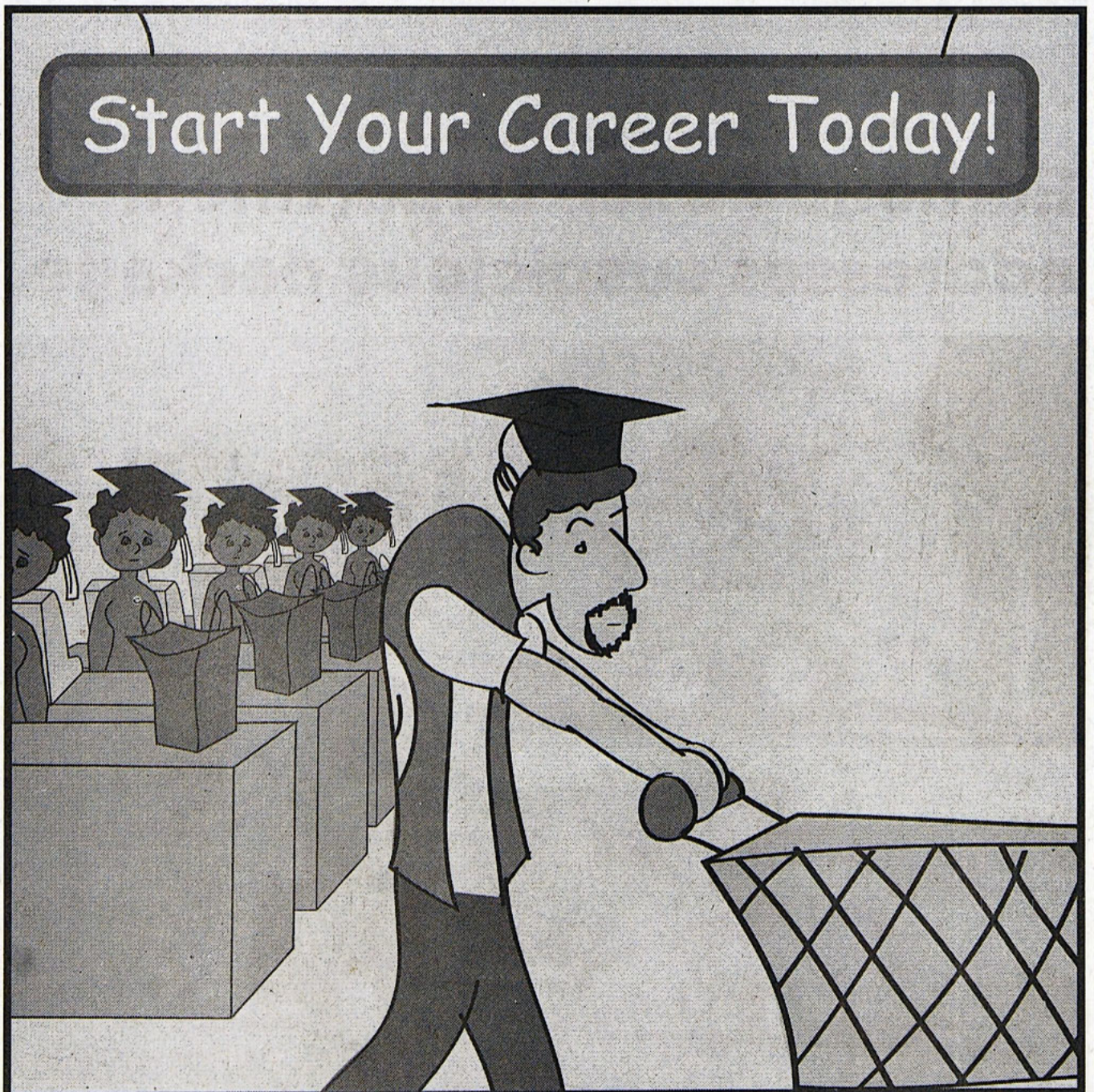
You might be asking yourself, why haven't I heard of Luxottica? If it were such a huge company, you'd think that I'd have seen their name around.

Check your shades. Are you wearing Ray-bans? Did they cost around \$150 when you could swear they were only \$30 just a few years back. Trust me, this price jump isn't due to their appearance on Tom Cruise in Risky Business. No, you can thank your "value creating" friends at Luxottica for that one. How about Oakley's? It's the same song just a slightly different tune.

Let me explain. See, the good ol' folks of Luxottica decided to snatch up the poorly managed Ray-ban company, take their famous glasses off the shelves for just around a year, re-market the image and charge a ridiculous mark up.

As for Oakley, a fight with Luxottica over pricing led to the superstar sporting glasses being dropped from Luxottica stores. This resulted in Oakley's stock price collapsing. In 2007 Luxottica bought out Oakley. With the top two names in shades tucked into their back pocket, Luxottica monopolized eyewear.

There is a major issue with this kind of singularity and market control; the United States realized the danger in it during 1890, passing the Sherman Anti Trust Act. Now we're seeing the same thing happening again. You might think it's no big deal. You might be ok with paying the ridiculous mark up for glasses. However, you have to keep in mind that this markup has nothing to do with anything other than Luxottica's own gain.



Cartoon by Matthew Gossom

Luxottica has competitors in a chokehold. Typically you would see companies competing with one another to lower prices and increase sales numbers, but with Luxottica controlling so much of the market and doing so under several different names, they have become who sets the price for eyewear. Also remember that this isn't just for sunglasses but your eyeglasses as

well. Lenses have always been expensive, but now were seeing \$300 frames every optometrist trip.

Next time your looking to pick up a pair of shades, give it a little thought. Don't reach for the Ray-bans find a cheap pair of glasses instead because odds are there made by the same company and even from the same material.

Opinion

Sincerely,



Stevie

Life's Biggest Battle

By Stevie Armstrong

How do you keep your emotions out of a situation, when all you want is for them to be involved?

This is the classic story of head versus heart. You know in your head that you should not get involved, but your heart does everything but listen.

Have you ever heard the saying, "Don't like someone more than they like you?" It sounds simple enough, until you're in the position. How can two organs so close together not work together? They're practically in their own battle.

Your head desires to work with your heart, but your heart seems to have a mind of its own; pun intended.

This can go both ways,

though. More times than not, your head will tell you to back away from something, or someone, that your heart desires. For example, your head may tell you that person you're crushing on probably isn't the best suit for you, but your heart can't get over the fact that it beats faster when they're around.

Your head can also tell you that you should want something, or someone, that your heart couldn't care less about. For instance, the person giving you the time and respect you deserve, your heart finds annoying and unattractive.

I just can't comprehend how this fight is possible. You are one person, but parts of you can think and feel completely

different?

Is there a science to this, a mathematical equation, a secret formula that only the government knows about that could link up these two organs? Probably not science or a mathematical equation, but I'm keeping my eye on the government; them and all their secrets...but that's another topic.

I'm afraid the rivalry between your head and your heart is just a part of life. And college seems to be when life really starts to begin. So not only are we battling the heavy work load of studying, working and trying to make sure we're wearing clean clothes, but we're also trying to figure out the game of life.

Life is hard and even though

most of us just started it, you find out really quickly just how difficult it is.

One of my favorite sayings is, "If we didn't feel the pain, we wouldn't know what good feels like."

Therefore, without these conflicting and confusing times between the head and the heart, we wouldn't know the feeling when the time is right.

Sincerely, Stevie

Tomorrow's Alcohol & Drug Counselors of America Celebrate Recovery Awareness Month

Kanesha Brown

Contributing Writer

Purple balloons were released by Tomorrow's Alcohol & Drug Counselors of America (TADCA) members on the University of Central Oklahoma (UCO) campus, at 1 p.m. Friday, Sept. 27, to celebrate the 24th year of Recovery Awareness Month.

Students wrote the names of friends and family members that are recovering, or need to recover, from substance abuse, along with "... people who lost the battle..." said Public Relations director of TADCA Sabrina DeQuasie.

DeQuasie stated that students were also writing names of people who have mental health problems. "Mental health problems and substance abuse tend to go hand in hand."

DeQuasie expressed that the ceremony of releasing the balloons was a symbol of releasing those prob-

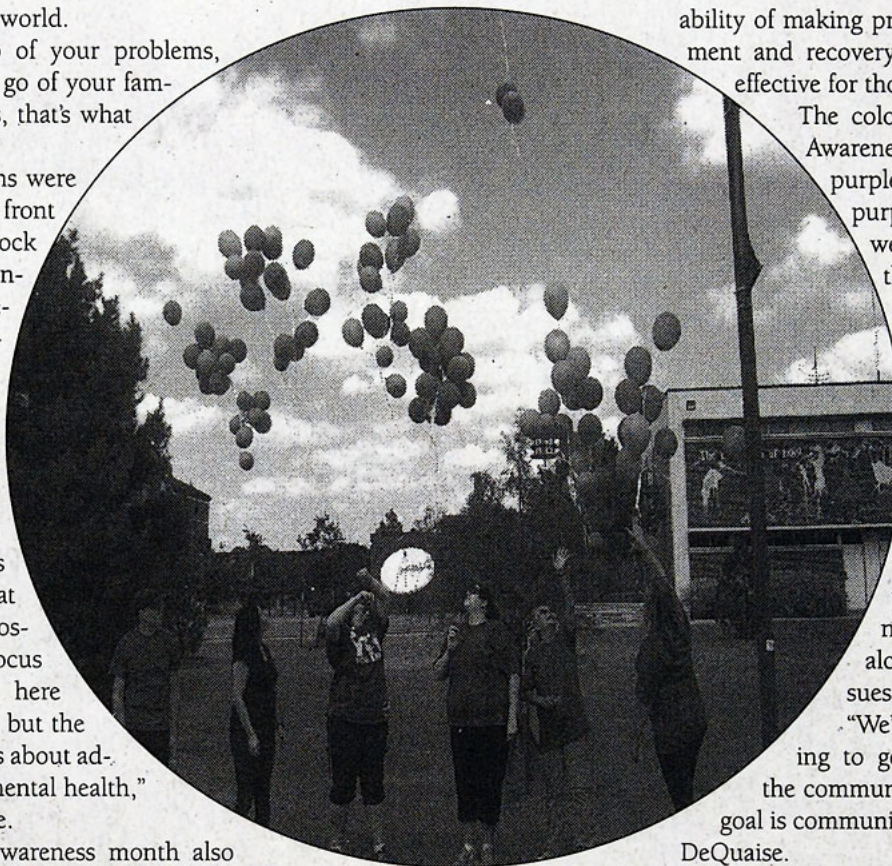
lems into the world.

"Letting go of your problems, you're letting go of your family's problems, that's what this is about."

The balloons were released in front of the clock tower at Broncho Lake. Before the balloons were released, a moment of silence was held.

September promotes awareness that recovery is possible. "We focus on addiction here with TADCA, but the month itself is about addiction and mental health," said DeQuasie.

Recovery awareness month also encourages individuals to take action and to help provide and improve the avail-



TADCA members released purple balloons for Recovery Awareness Month on the UCO campus, Sept. 27, 2013. Photo by Kanesha Brown, The Vista.

ability of making prevention, treatment and recovery services more effective for those needed.

The colors of Recovery Awareness Month are purple, which is why purple balloons were chosen for the event.

TADCA has been a student organization at UCO since 1998. It presents events, fundraisers and service projects to promote awareness of drug and alcohol related issues.

"We're really trying to get out there to the community... our main goal is community service," said DeQuasie.

Money donations that are received are used for the events at

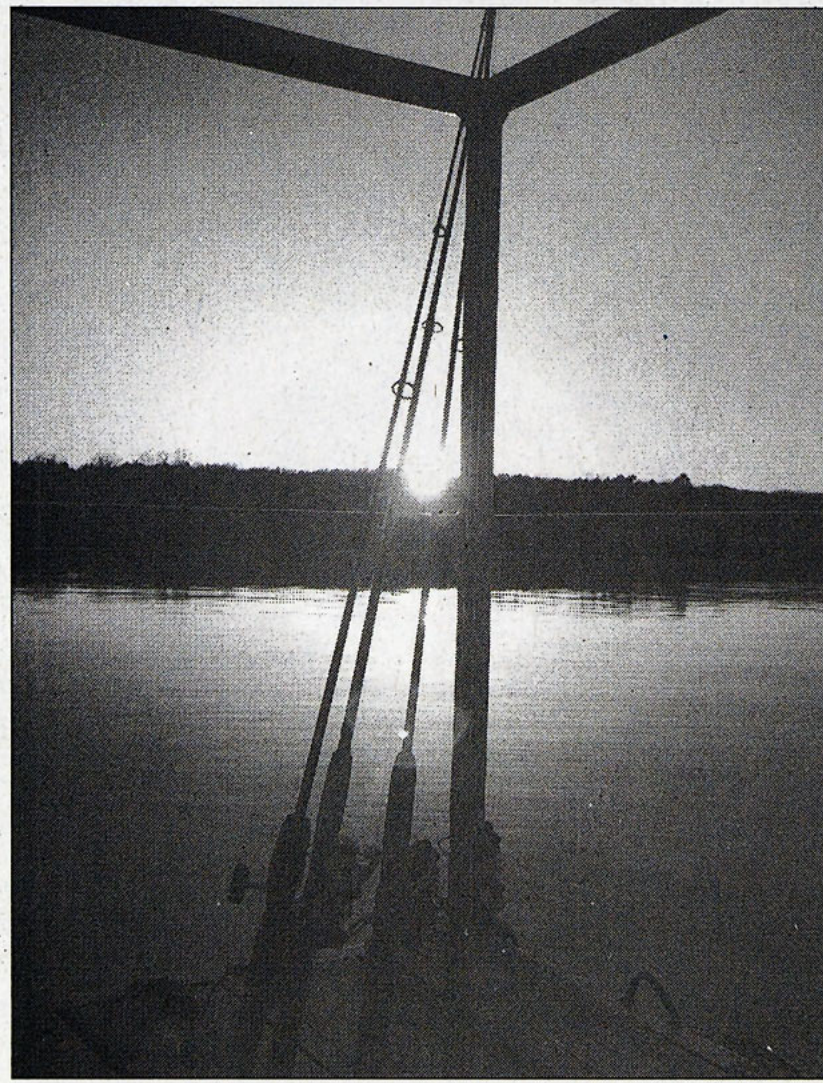
facilities and rehabilitation centers.

TADCA has meetings every Monday at 1 p.m. and 3:30 p.m. in the Liberal Arts building. The majority of the members are substance abuse studies majors, but other majors are welcomed. "We are traditionally a very small organization, but this semester we have actually tripled our membership," stated DeQuasie.

More information about the organization and meetings can be found through the UCO website at OrgSync.com.

"Letting go of your problems, you're letting go of your family's problems, that's what this is about."

- Sabrina DeQuasie



Fishing rods at sunset on Lake Arcadia. Photo by, Cyn Sheng Ling, The Vista.

UCO students hit the lake with the start of the bass fishing club

Olanrewaju Suleiman

Staff Writer

The University of Central Oklahoma has a new bass fishing club.

The Coordinator for Recreational Programs at UCO Alex Allen is the club's sponsor.

"We found a lot of students who really enjoyed the sport of fishing," he said.

Even though the club is mainly for fishers, anyone who is interested would be allowed to join.

"This is a great place for students of all backgrounds," Allen said. "This could be a recreational sport for students who don't competitively fish."

The club is barely a month old and they are already winning competitions. Earlier this month, they ranked first in the Okie Challenge

Series, hosted by the Association of Collegiate Anglers Tournament Series. The tournament took place in Ft. Gibson.

They defeated last year's national runner up, Oklahoma State University.

"It felt great to win," Allen said. "The guys were really amped up about it."

Freshman Zach Brown is a fisher who is interested in the club.

"I love to fish," he said. "I didn't even know that UCO had a fishing club. It seems pretty interesting to me."

Brown thinks that the club is a unique idea for an extracurricular activity.

"Most people don't really think of fishing as a sport," he said. "I did it all the time when I was back home."

Brown also uses fishing as a stress reliever.

"When I'm out at the lake, nothing else matters," he said. "I rec-

ommend everybody try it at least once."

Allen uses word of mouth to recruit for the club, as well as Org-Sync. So far the club has around 14 members.

"If you love fishing, then this is the place for you," he said.

The bass fishing club has three upcoming competitions. On Oct. 13 they are going to Lake Eufaula. They go to Grand Lake on Oct. 27 and Lake Tenkiller on Nov. 2.

The club competes with other schools at fishing tournaments as well as helps with the wildlife department.

For more information on the bass fishing club or how to join, contact Alex Allen at aallen19@uco.edu or by calling 405-844-4560. Information can also be found by visiting <http://www.ucooutdoorrecreation.com>.

Bomb Squad from page one

"We have experienced false threats of different types in the past. One notable threat was conveyed by a student who was later convicted in federal court for making a terroristic threat against the university," said Harp.

That student, Jason Shandy, called Edmond police at 10:36 p.m. April 22, 2008 to report that he overheard three men talking in the

parking lot of a local 7-Eleven with plans to "blow up" UCO.

Shandy was sentenced to 27 months in federal prison and ordered to pay more than \$21,000 in restitution to UCO and the law enforcement agencies for the cost of their response to the hoax.

Although charges are filed and those who

report false threats or suspicious packages are prosecuted, the entire process is costly and it can take a significant amount of time before restitution is received.

With new technology, the law enforcement field hopes to advance its ability to recognize and gain insight into how large attacks are undertaken and discover how they can be

stopped.

American F.B.I. agents are currently poring over any and all data in relation to the attacks on the shopping mall in Kenya, hoping to find any information that will reveal how this attack was coordinated.



Play a role in UCO's efforts of preserving the environment; recycle this issue.

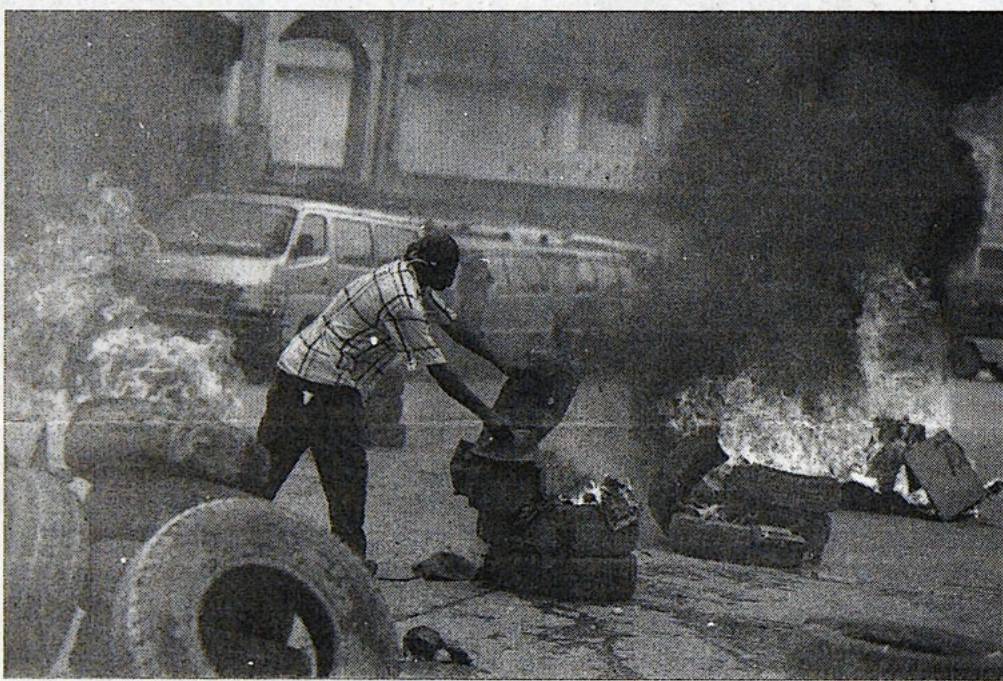
A Look Around the World



Pakistani women gather by the window of a local clinic waiting to receive medical relief, following an earthquake in Labach, the remote district of Awaran in Baluchistan province, Pakistan, Thursday, Sept. 26, 2013. Two days after the tremor struck, rescuers were still struggling to help survivors. The death toll from the quake reached in hundreds on Thursday, with more than 500 people injured. (AP Photo/Arshad Butt)



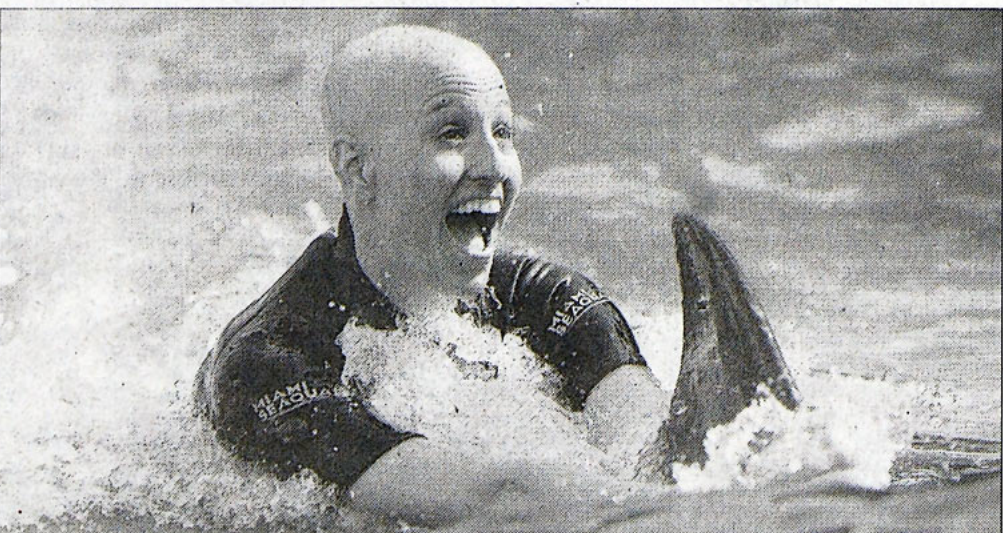
In this Sept. 28, 2013 photo, Sphynx kittens reach for a referee's toy while being evaluated during an international feline beauty show in Bucharest, Romania. Hundreds of felines from several countries take part in the two-day beauty contest in the Romanian capital. (AP Photo/Vadim Ghirda)



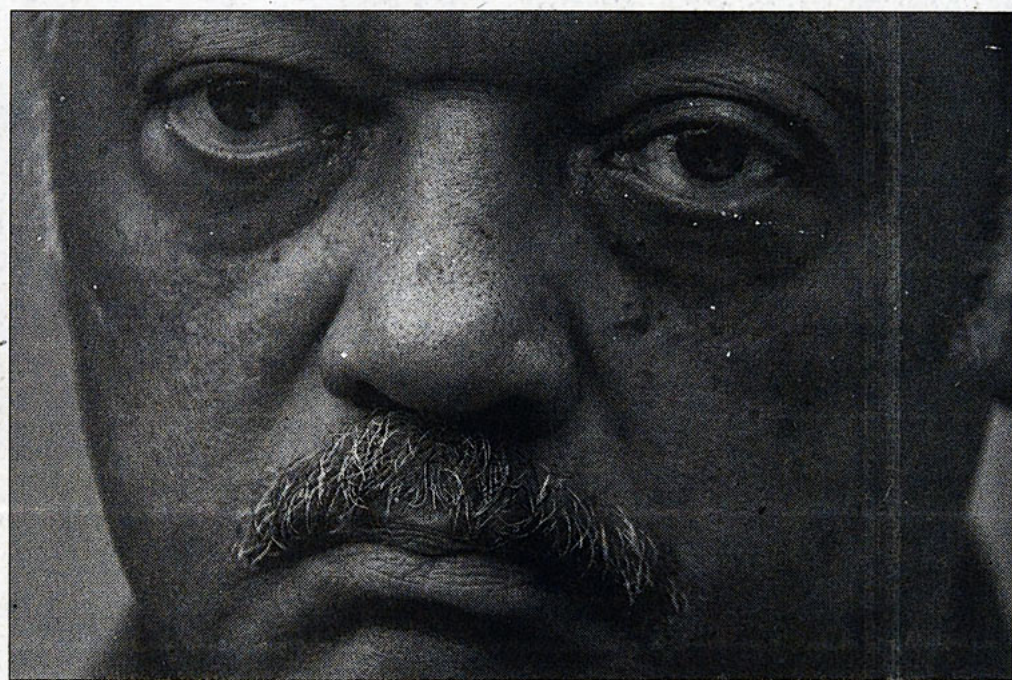
A demonstrator adds cardboard to burning tires blocking the capital's main street during a protest against the government of President Michel Martelly in Port-au-Prince, Haiti, Monday, Sept. 30, 2013. Some protesters demanded that Martelly resign because of corruption allegations while others protested the absence of elections. (AP Photo/Dieu Nalio Chery)



In this Sept. 24, 2013 photo, Sonia Marquez, an organizer with the Colorado Immigrant Rights Coalition, looks for keepsakes amid the muck inside one of the many homes now declared uninhabitable due to permanent flood damage at a decimated trailer park in Evans, Colo. The majority of the residents in the trailer park are immigrants who didn't have flood insurance, and because some are not citizens or legal residents, they can't get government help. (AP Photo/Brennan Linsley)



Lainey Kieffer, 29, of Miami, smiles while hanging on tight to the dorsal fin of a dolphin as she and 27 other breast cancer survivors swim with the dolphins, Wednesday, Sept. 25, 2013 at Miami Seaquarium in Miami.



Rev. Jesse Jackson listens to a reporter's question during an impromptu news conference at the Hotel Nacional in Havana, Cuba, Saturday, Sept. 28, 2013. Jackson accepted a request on Saturday by the Revolutionary Armed Forces of Colombia, or FARC, to oversee the release of a U.S. citizen Kevin Scott Sutay kidnapped in June. Jackson is in Cuba for talks with religious leaders about their concerns for the poor, and peaceful relations between Cuba, the United States and the rest of the Caribbean. (AP Photo/Ramon Espinosa)



Phill Randall carries the American flag as wranglers work to control the herd as they move toward the corral area Friday, Sept. 27, 2013 at the annual bison roundup at Custer State Park in South Dakota. Over 1,100 of the park's bison are rounded up from all corners and herded into corrals where they'll be vaccinated, branded and sorted for an auction in November. (AP Photo/The Argus Leader, Jay Pickthorn)

Preparing Today for an Uncertain Tomorrow: Questions regarding if the government shuts down

Associated Press

Since 1977, there have been 17 shutdowns, according to the Congressional Research Service.

Will I still get my mail?

Yes. The U.S. Postal Service functions as an independent business unit.

Can I get a passport?

Maybe, but hurry. The Department of State says it has some funds outside the annual congressional appropriation. "Congressional operations domestically and overseas will remain 100% operational as long as there are sufficient fees to support operations," the department says.



Can I visit national parks?

No. The National Park Service says day visitors will be told to leave immediately, and entrances will be closed.

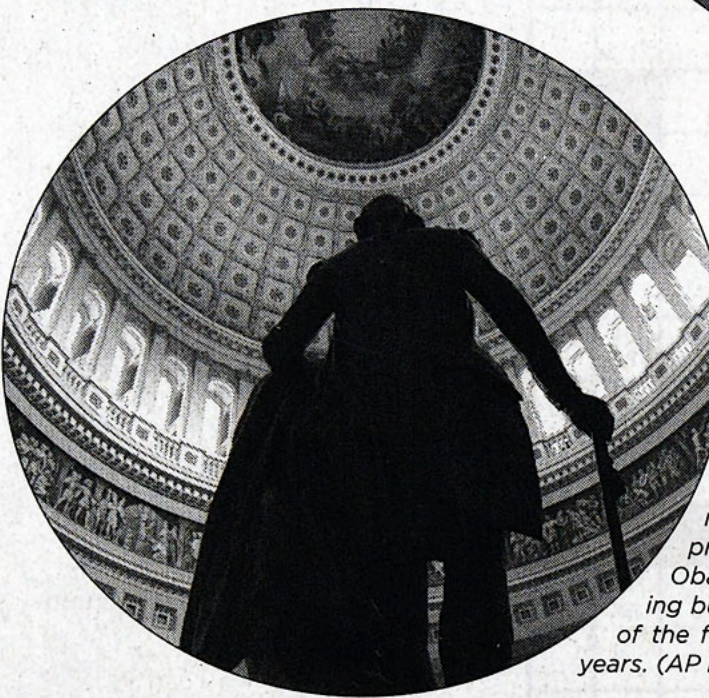
What about campers already in the parks?

They will be given two days to leave.

Will Washington museums be open?

The Smithsonian, the National Zoo and the Holocaust Museum would all be closed. Private museums, such as the Newseum, the Spy Museum and Mount Vernon, would remain open. Rule of thumb: If it's usually free, it's probably closed.

The morning sun illuminates the U.S. Capitol in Washington, Monday, Sept. 30, 2013, as the government teeters on the brink of a partial shutdown at midnight unless Congress can reach an agreement on funding. Congressional Republicans and Democrats spent Sunday trading the blame for failure to reach agreement on the stopgap funding bill. (AP Photo/J. Scott Applewhite)



A statue of George Washington stands in the Rotunda of the U.S. Capitol Sunday morning, Sept. 29, 2013 as a government shutdown looms, in Washington. The political and economic stakes mounting with each tick of the clock, the White House and congressional Democrats say a House-approved delay in President Barack Obama's health care law does nothing but push Washington to the brink of the first government shutdown in 17 years. (AP Photo/Cliff Owen)



House Speaker John Boehner of Ohio, and GOP leaders, speaks to reporters on Capitol Hill in Washington, Thursday, Sept. 26, 2013, after a closed-door strategy session. Pressure is building on fractious Republicans over legislation to prevent a partial government shutdown, as the Democratic-led Senate is expected to strip a tea party-backed plan to defund the Affordable Care Act, popularly known as "Obamacare," from their bill. Boehner originally preferred a plan to deliver to President Obama a stopgap funding bill without the provision to eliminate the health care law. (AP Photo/J. Scott Applewhite)



Rep. Ann Wagner, R Mo., joins other Republican House Members as they call on Senate Democrats to "come back to work" on the Senate Steps of the U.S. Capitol, Sunday, Sept. 29, 2013 as the United States braces for a partial government shutdown Tuesday after the White House and congressional Democrats declared they would reject a bill approved by the Republican-led House to delay implementing President Barack Obama's health care reform. (AP Photo/Cliff Owen)

Would the government continue to enforce wage and hour laws?

The laws will still be in effect, but the Department of Labor's Wage and Hour Division would suspend operations.



A sign in front of House Majority Leader Eric Cantor's, R-Va., office door in the U.S. Capitol Sunday morning, Sept. 29, 2013, as a government shutdown looms, in Washington. The political and economic stakes mounting with each tick of the clock, the White House and congressional Democrats say a House-approved delay in President Barack Obama's health care law does nothing but push Washington to the brink of the first government shutdown in 17 years. (AP Photo/Cliff Owen)

Would the president be paid during a shutdown?

Yes. The president's \$400,000 salary is mandatory spending. If furloughs begin to affect the government's ability to process payroll, his paycheck could be delayed.

Would the government continue to pay unemployment benefits?

Yes. The Employment and Training Administration will continue to provide essential functions, as occurred during the shutdown of 1995.

Would food safety inspections continue?

Mostly. The Food Safety and Inspection Service would continue all safety-related activities. The Grain Inspection, Packers and Stockyards Administration would continue inspections to the extent they're paid by user fees, "but inability to investigate alleged violations could hamper corrective action in the long term and could have an immediate impact on members of industry." The Food and Drug Administration would limit its activities but continue to monitor recalls and conduct investigations.

Would active-duty military be paid during a shutdown?

If a shutdown lasts longer than a week, the Pentagon might not be able to process its payroll in time for the Oct. 15 paychecks, Defense Department Comptroller Robert Hale said Friday. The House passed a separate bill early Sunday that would appropriate money for active-duty and reserve paychecks regardless of the shutdown — and also pay for support services to make sure they get paid. That bill passed the House 422-0, but still must go to the Senate.

Will civilian defense workers be furloughed?

About half of them, or about 400,000, will be sent home, according to the Defense Department's contingency plan.

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RANDOM FACTS CONT.

Octopuses have rectangular pupils.

No bears are native to the continent of Australia. (The Koalas aren't bears, but marsupials.)

Like many high-impact sports, break dancing can lead to long-term health issues, including (no joke) Breaker's Thumb, Break Dancer's Pulmonary Embolism, and Break Dancer's Fracture of the Fifth Metatarsal.

Technically speaking, Alaska is the northernmost, westernmost, and easternmost state of the United States. Parts of the Aleutian Islands cross over the 180th meridian.

There are over 40 ships buried underneath the city blocks of the financial district of San Francisco. Abandoned gold rush ships and their wharves were buried beneath landfill used to fill in Yerba Buena cove; the residents of San Francisco needed more housing.

The ZIP in ZIP Code stands for Zone Improvement Plan.

RANDOM FACTS

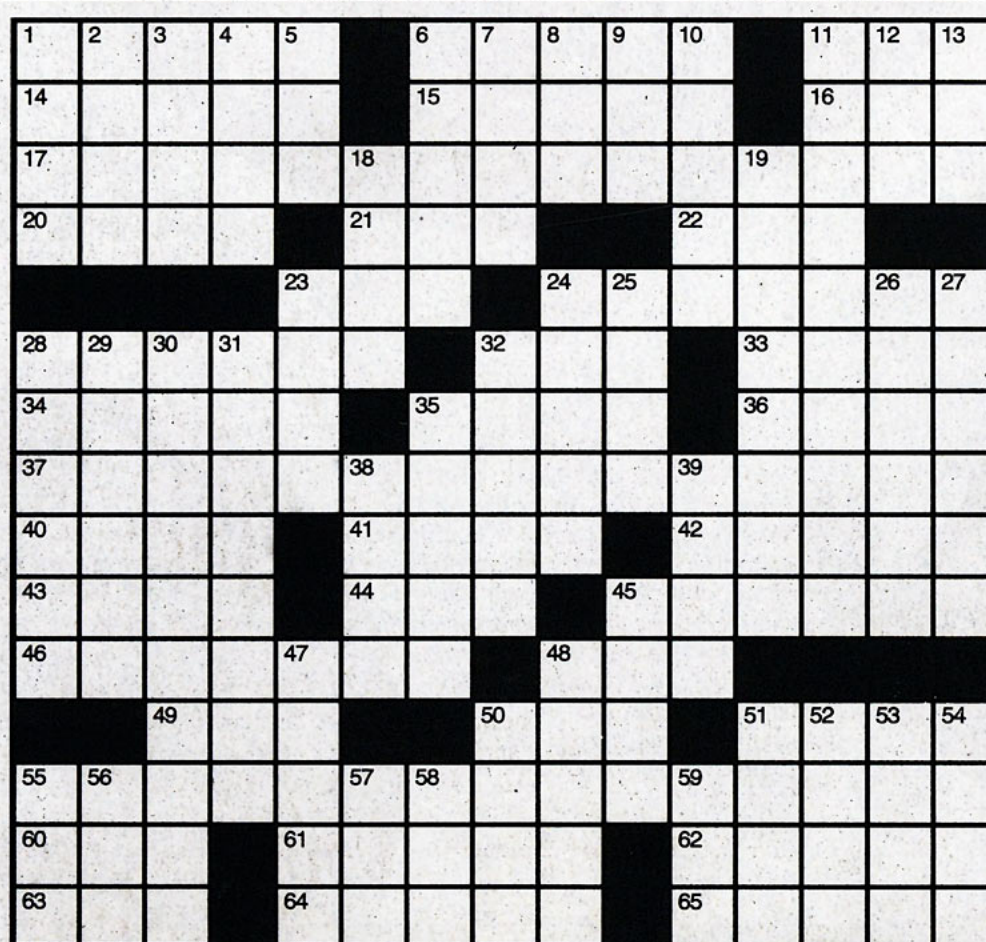
Brian May, the lead guitarist for Queen, dropped out of a physics PhD at Imperial College London to follow the path to rock stardom. He finally completed his thesis in 2007.

During WWII, Tootsie Rolls were added to soldiers' rations thanks to their durability in all weather conditions.

CROSSWORD

Across

1. Having chutzpah
6. Range
11. Nod, maybe
14. Bye word
15. Christmas ____
16. Alias
17. Used in calling
20. Aces, sometimes
21. Armageddon
22. Clavell's "____-Pan"
23. Compete
24. Person who expresses contempt by remarks or facial expression
28. Sealed vessel converting water to steam
32. Buzzer
33. International Civil Aviation Organization
34. "It's a Wonderful Life" role
35. Compensated
36. Aquatic plant
37. Internationally recognized signals indicating help is needed
40. "Go ahead!"
41. Adjudge
42. Atlas enlargement
43. "... or ____!"
44. Clinker
45. Seizes forcibly or violently
46. Unoriginal work
48. Black gold



49. Moray, e.g.
50. Beast of burden
51. Particular, for short
55. Official language for all of China
60. Parenthesis, essentially
61. Protective outer layer of seeds of flowering plants
62. Removals of significant amounts of prostate tissue
63. Golf bag item
64. Hard, red wheat grown in Russia and Germany
65. Doesn't ignore

Down

1. Alliance acronym
2. "Our Time in ____" (10,000 Maniacs album)
3. Anger, with "up"
4. Flashed signs
5. "Uh-huh"
6. Bakery treat
7. Potter's tool
8. Bard's "before"
9. Long, long time
10. Cartoon canine
11. Less expensive class accommodations on a ship, train or plane
12. Arthur Godfrey played it
13. Attention
18. Prince of Wales, e.g.
19. Song) written and performed by Terry Gilkyson and the Easy Riders
23. Swerve
24. Earthquake
25. Ghanian monetary unit
26. Young raptor
27. Windings
28. Cleans students' rooms in Oxbridge colleges
29. Brooks Robinson, e.g.
30. Continual, persistent demand
31. Filled with a disorderly accumulation of rubbish
32. Stationed
35. Pretentious sort
38. Icelandic epic
39. Demoiselle
45. Desire
47. Carry away, in a way
48. Academy Award
50. A chip, maybe
51. Give the cold shoulder
52. French for father
53. Catch a glimpse of
54. British tax
55. "Welcome" site
56. "What ____ the odds?"
57. "Losing My Religion" rock group
58. Belief system
59. "Am ____ believe ...?"

SUDOKU

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	7	3	6			2	8	
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		8		3				7

RANDOM QUOTES

It is curious that physical courage should be so common in the world and moral courage so rare.
- Mark Twain

Life is a series of experiences, each one of which makes us bigger, even though sometimes it is hard to realize this. For the world was built to develop character, and we must learn that the setbacks and grieves which we endure help us in our marching onward.
- Henry Ford

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Litterell-y Sports: So much negativity towards MLB



Austin Litterell

Sports Reporter

notes that have come out of this. Stories that can finally have their chance to shine through the clouds those steroids have created.

Several unexpected teams have made unlikely runs into the playoffs this year. Teams that have won World Series and teams that have waited two decades for the very moment that awaits them.

The Boston Red Sox, from a historical standpoint, are not a surprise to be in the playoffs. After last season's disaster, nobody could figure out what the Red Sox were going to do this year.

John Farrel felt like a good hiring for manager, but he could never get Toronto into the postseason so he was another question mark. Seeing the leadership he has shown and bringing this team together after the division with Bobby Valentine, is amazing. The Red Sox are a threat in this year's playoffs.

The next team is a story of redemption. They are the Cleveland Indians. Terry Francona was unfairly fired after his team col-

lapse a few seasons ago and missed the playoffs. After working as an analyst, he came back and looked refreshed. Francona is my pick for the manager of the year.

Maybe the best story of the unexpected, a layoff game in Pittsburgh. Yes, I am talking about the Pirates. Pittsburgh is one of the best baseball cities with the best fans in America. Their stadium is second-to-none and finally will get some exposure in the second season.

The last time the Pirates made the postseason, Barry Bonds was in the lineup and Jim Leyland (now with the Tigers) was the manager. Now Clint Hurdle and star Andrew McCutchen lead Pittsburgh.

Fans and players have had to endure 20 consecutive non-winning seasons, trade after trade, and rebuild after rebuild to get to this moment. Great first halves and poor second halves have defined this ball club, well, not this year.

Enter Sandman: the song that played when Mariano Rivera entered the game be-

cause that is who he is, the Sandman. It is a rare occasion to be able to see someone who is the best of all time at their position, leave the game forever. Nobody compares to Rivera AKA the sandman, at the closer position.

Rivera has 694 career saves in postseason and regular season play. His farewell tour was one to remember with each stadium giving him a standing ovation, even Boston. But one moment, in particular, brought a lot of sports fans, even if they hated the Yankees, to tears.

His last appearance at Yankee Stadium will go down as one of the best. When Andy Petite and Derek Jeter came to the mound, I found myself giving him a standing ovation in my room. The emotion on his face said it all.

Now the Yankees will enter a new era. Who the closer will be, I do not know, but whoever they are, they have some big shoes to fill. As Rivera walks into the sunset, he leaves a lasting legacy that nobody in his positions can match. Exit Sandman.

Cross Country

Bronchos place third at Stillwater's annual Cowboy Jamboree

Rick Lemon

Contributing Writer

The Bronchos managed to battle their way through the mud to a third place finish this Saturday in Stillwater. The 77th Annual Cowboy Jamboree saw the Bronchos score 104 points, only trailing Wayland Baptist with 98 points and Oklahoma Baptist with 43 in the women's college race.

Katie Kerns was the top finisher for the Bronchos, with a time of 19:54.74, earning her ninth in the five-kilometer race.

Rebekah Hickman (20:12.74)

and Jacquelynn Skocik (20:17.23) were the second and third finishers for the Bronchos, with a 17th and 20th place finish respectively.

Stephanie Fleig's 25th place finish (20:24.26), as well as Rachel Davis' 33rd place time of 20:49.48, finished the scoring for the Bronchos.

Makayla Miller (21:15.74) and Ashlyn Wilhite (21:19.74) were the final two runners for UCO's squad, with 50th and 52nd place finishes, respectively.

The scoring in a cross-country meet is calculated by adding all the places of a team's top five finishers together. The team with the lowest combined score afterwards is de-

clared the winner.

The real winner for this Cowboy Jamboree, though, was the weather. Heavy rain the morning of the race, forced race officials to call a two-and-a-half hour rain delay. With four different university level races, as well as high school races to run, there were thousands of runners left stranded around the city of Stillwater all morning.

By 9:15 a.m., the time that the university women's race was supposed to be held, the course was practically flooded and the rain showed no signs of stopping. The problem came in the fact that many teams had already shown up at the course by this point, most

not hearing about the rain delay until they arrived.

It made for a chaotic scene, with teams huddled under whatever covers they could or hastily setting up tents to try and stay dry, while the coaches sorted out how long the wait would actually be until the races started.

The mud came to affect all aspects of the race. No record times were set in any of the races and everyone just seemed to be happy they were finished once they crossed the finish line.

One of the most memorable features on the course was the large ravine that runners trek up and down on four separate occasions.

These obstacles became especially interesting now that the ravine had flowing water at the bottom of it and the soft ground was decimated by thousands of pairs of running spikes.

The third place finish by the Bronchos goes far as to validating how good our girls believe their team to be and gives them confidence as they continue this season.

UCO is back in action next Saturday at the Midwestern State Invitational in Wichita Falls, Texas where they will be hoping for nicer weather and another top-three finish.



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Football

Central Oklahoma comes up short on the road

Austin Litterell

Sports Reporter

The Bronchos hung around all game, but came up just short against the Washburn Ichabods on Saturday. Washburn never led by more than one score, but UCO could not quite get over the hill. UCO fell to the Ichabods 28-19 in Topeka, Kansas on Saturday.

"Overall I thought we played decent. We still have to clean a lot of things up but we played better as a football team on Saturday," headcoach Nick Bobeck said.

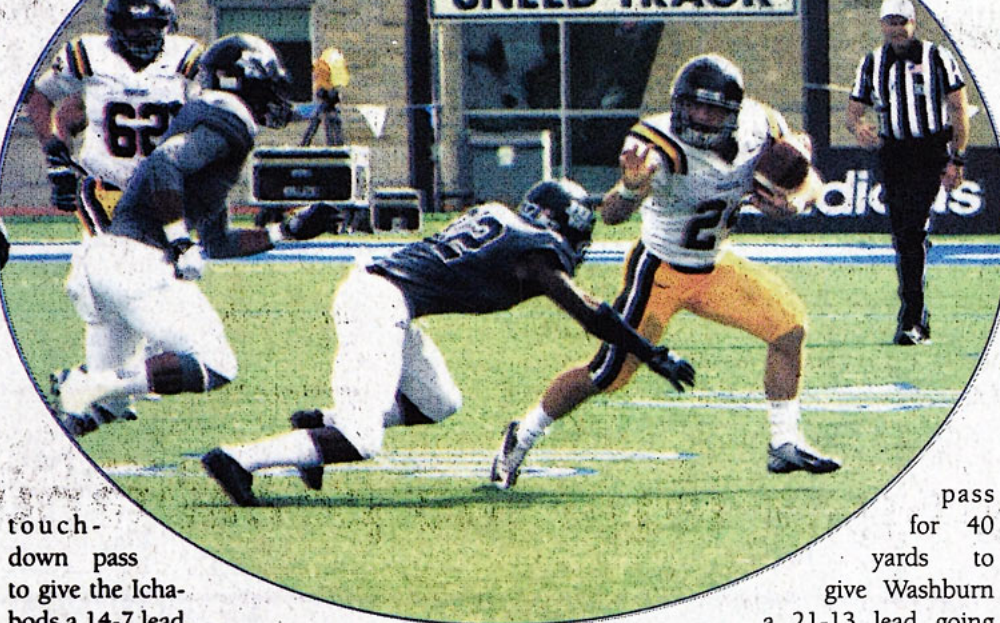
The first half was full of defense for both teams. Both offenses had trouble putting points on the board.

An important factor going into this game was for UCO to get off to a quick start. They had not scored on an opening drive or had a first quarter lead all season. That changed as UCO took a 7-0 lead at the end of the first quarter. Adrian Nelson found Marquez Clark for a 34-yard touchdown pass to give them the lead.

The only touchdown in the second quarter came from Washburn. The Ichabods went on a nine play, 55-yard drive and finished it off with a one-yard touchdown run from Vershon Moore. The Bronchos and Ichabods were tied at seven going into the locker room at halftime.

A couple of long passes in the second half

would put Washburn in the lead for good. Late in the third quarter, quarterback Mitch Buhler found Tyrell Brown for an 80-yard



touchdown pass to give the Ichabods a 14-7 lead.

The Bronchos replied on their next possession as Jake Gandara got the ball into the end zone from five yards out.

The extra point was missed however. Washburn only needed ten seconds to score their next touchdown. They struck on a

pass for 40 yards to give Washburn a 21-13 lead going into the fourth. The Bronchos, once again, were able to pull within a couple of points. UCO recovered a muffed punt inside the two-yard line and took advantage. Joshua Birmingham plowed into the end zone from one yard out, but they could not convert the two-point conversion. Washburn secured the victory as Vershon Moore added his second score from five yards out. The Ichabods avoided an upset with a 28-19 victory over UCO.

This was the best performance by the Bronchos this season. Washburn came in to this game averaging 53 points per game and they were kept in check for most of the game.

"We played much better on the defensive side of the ball. We were much more physical and gave ourselves a chance to be successful," Bobeck said.

UCO's defense forced their first turnover on the season after an interception. The defense held a team under 400 yards for the first time this season and held the Ichabods to just 47 yards on the ground for the game.

It was another solid performance from the offense, as well. The Bronchos put up over 400 yards on one of the nation's best defenses. Adrian Nelson threw for 318 yards and UCO had 131 yards rushing on the ground. Washburn's defense gave up 329 yards per game on the season and UCO finished with 449 on the game.

UCO's schedule does not get any easier. They will return home next weekend to face the 6th ranked Missouri Western at 6 p.m.

Freshman runningback Jake Gandara runs the ball versus the Washburn Ichabods on Sept. 28, 2013. Photo by Mike Goehring, Washburn University.

Senior runningback 21 Joshua Birmingham runs the ball against Washburn on Sept. 28, 2013. Photo by Mike Goehring, Washburn University.



Junior linebacker 52 Mike Harris breaks down for a tackle against Washburn on Sept. 28, 2013. Photo by Mike Goehring, Washburn University.



Hockey

UCO shuts Lindenwood out after suffering first loss

Cody Johnson

Sports Editor

The University of Central Oklahoma had a busy last week taking on Adrian (3-2) on Wednesday and a two-game weekend, matching up against Lindenwood (2-4) on Friday and (5-0) on Saturday.

Going into Wednesday's game, Adrian was ranked No. 4, while UCO sat at No. 14, but the Bronchos bucked the odds with a 3-2 victory over the Bulldogs. This put the Bronchos at an opening season record of 3-0.

But the Bronchos didn't stop there. They came back on Friday to take on the Lindenwood Lions on the Bronchos' home ice. The Lions overcame Central Oklahoma on Friday night with a 4-2 victory. This was Lindenwood's season opener for the 2013-14 season and was the first loss given to the Bronchos, this season.

It only took four minutes for Central Oklahoma to

find its way on the scoreboard. The Lions tied the score at the end of the first period, though. The Lions pulled ahead with two goals scored in the second period that went unanswered by the Bronchos.

The Bronchos came back 49 seconds into the third period to score another goal, but the Lions held the Bronchos off and added one more goal in the final minutes of the game.

Central Oklahoma came back Saturday for their rematch with a fire on the ice. It took eight minutes into the first period for the Bronchos to find a goal. They held the lions off the whole period.

In the second period, the Bronchos saw an opportunity off an extended man advantage and scored two goals. They then scored in a faceoff late in the period.

Central Oklahoma held the Lions to a shutout in all three periods and found their final goal

with four minutes remaining in the game. This weekend left the Bronchos with a 4-1 record for the 2013-14 season.

Central Oklahoma will travel to North Dakota to take on the North Dakota State University Bison on Thursday.



Sophomore Brandon Harley playing against Lindenwood on Sept. 28, 2013. Photo by Aliko Dyer.



Freshman Sam Rice playing against Lindenwood on Sept. 28, 2013. Photo by Aliko Dyer.