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Electric cars have been popping up around the country. Tesla, BMW, Ford, Nissan and Toyota have been household names for electric cars for years now.

Ryan Saunders, senior in mechanical engineering, is hoping to bring electric buses to Ames. His independent study, which began in August, is working to have fully electric buses adopted by CyRide.

Saunders loves the idea of sustainability and environmentally friendly vehicles and the electric bus technology is something he admires. As a student, Saunders experiences firsthand what is disliked about the current CyRide diesel buses. He mentions the noise, safety and the emissions that make Union Drive “smell like a diesel alleyway.”

The noise and emission benefits are easy to understand, but safety benefits might be less obvious. According to the Federal Motor Carrier Safety Administration, in 2015, 6,159 buses or large trucks were involved in overturns causing fatalities, injuries or property damage.

Proterra, Inc., a bus manufacturer Saunders has been researching extensively solves this problem with their bus design. As the only bus manufacturer that makes new electric buses from the ground up, Proterra creates their buses with the battery cells under the bus, creating a lowered center of mass.

Proterra also said their buses are made with a lightweight, albeit strong, composite material that will protect passengers on the bus in case of a collision. This composite, in some cases, is stronger than the steel used on buses in CyRide’s fleet today.

A large concern CyRide has is making sure they are comfortable with the performance of buses on the road. There have been many challenges CyRide has faced with the current Cybrid buses, which run on a form of cooking oil. Proterra recently brought an electric bus from their South Carolina plant to present to CyRide.

The bus features the same physical stats, 40 feet long with the same number of seats, while boasting a quieter engine and much lower cost over the life of the bus. The interior is almost identical to the current diesel buses, with an added television monitor mounted at the front of the bus behind the driver. The bus also rides similar to a diesel bus, while of course being quieter and not having a lingering smell of fuel emission.

Lauren Cochran, a sales representative from Proterra who demoed the bus for CyRide at their maintenance center, said that it is “just a matter of time” before CyRide transitions completely to electric buses.

Cochran plans to come back and provide CyRide with a cost analysis, giving CyRide an estimated cost per year based on the routes’ grade, length, stops and average speed.
Reflecting on Wintersteen
Transition from dean to president

BY MADELINE.MCGARRY
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As President-select Wendy Wintersteen transitions into her new role as Iowa State’s president, students and faculty are reminiscing about her service as the dean of the College of Agriculture and Life Sciences.

One of the things I really liked about the way Wendy [Wintersteen] led was she paid close attention and valued the land grant mission: the tri-part mission of teaching, research and extension,” Cooper said. “She didn’t give any more weight to one pillar over the other.”

Theresa Cooper, assistant dean for diversity of the College of Agriculture, worked with Wintersteen in efforts of launching new initiatives and programs for multicultural students.

“Her has been working tirelessly to make better adviser training programs for CALS faculty and staff as well as provide opportunities for CALS students to learn what it means to be culturally competent,” Lambert said.

Edan Lambert, president of the CALS Council, has had the opportunity to engage in discussion related to advancing these initiatives.

“She is one of the very few people on campus who takes the time to listen, and I think that she has demonstrated that throughout her time as the dean,” Smith said.

Serving as the interim director of Iowa State Extension and Outreach and Agriculture and Natural Resources Extension and Outreach, Jay Harmon has been with the university since 1993. Prior to serving in his current role, he primarily focused on the Department of Agricultural and Biosystems Engineering (ABE) as a professor and researcher.

“Dean Wintersteen supported us in our pursuit of striving to be the number one ABE department in the country, and she is part of the reason we reached that goal,” Harmon said.

Smith, who was in Wintersteen’s office when it was announced the Leopold Center for Sustainable Agriculture would lose funding, believes she handles times of crisis in an effective manner.

“I think she has done a fantastic job, and I don’t think that you will find anyone in the College of Agricultural and Life Sciences who says otherwise,” Smith said.

Harmon, Smith, Cooper and Lambert hope to see President-select Wintersteen continue her dedication at the university level. As a result of her leadership on CALS Council, Lambert has cultivated a mentor-mentee relationship with Wintersteen, and considers her to be a personal role model.

“She will serve Iowa State University very well due to her many years of experience and her long history of successes as Dean of the College of Agriculture and Life Sciences,” Lambert said. “They couldn’t have chosen a more genuine, selfless leader as the next president of Iowa State University.”

Wintersteen assumes her role as university president on Nov. 20.

“We will miss her in CALS, but she’ll be a terrific president,” Harmon said.
Conversion housing to combat ordinance

BY TARA LARSON
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Earlier this year, the Iowa Legislature passed a law pitting Ames residents against each other. On one side were landlords and property managers, bemoaning a law that requires some landlords to restrict occupancy based on familial status. On the other side were neighborhood associations, fearful that without the ordinance, their neighborhoods and houses would become largely renter-occupied.

Caught in the middle? Students — unaware of the large impact their temporary presence has on Iowa’s residents and Ames’ ordinance on housing.

Working under a deadline of Jan. 1, 2018, the city has discussed limiting low-density residential housing based on student status, number of bedrooms and even parking spaces. Other issues have been raised, too, such as: Is the city taking a prescriptive or reactive approach to rental enforcement? Which is the better option?

As a way to better understand the issue of housing in Ames — specifically relating to rentals in single-family residential homes and neighborhoods — and its impact on students, the Iowa State Daily has created a series of articles looking at the issue that affects our city, our residents, and landlords and students. This is the eighth article in that series.

Below are interviews with more than 20 city, students and university officials and stakeholders on how rental housing directly, and indirectly, impacts them.

Taithong Huang, a senior in software engineering, lives in a rental property with 26 single-room apartments.

“There is only one kitchen, on the first floor,” Huang said. “Fortunately, I don’t cook much.”

This type of house is often referred to as a conversion home, and is just one of the many housing options students can choose from while living in Ames.

Saunders has another presentation, this time in front of the CyRide board, to further explain the benefits and what it would cost for the project to succeed. His goal is to get a commitment from CyRide to do their own research on electric buses and decide if the switch is worth it.

Sheri Kyras, director of transit at CyRide, explained that money is the largest hurdle.

CyRide currently uses 95 buses. The maximum cost of $800,000 to purchase each electric bus multiplied by 95 bases is $76 million.

With a yearly budget of around $10.5 to $11 million, this is obviously not feasible. This doesn’t even take into account the new infrastructure the CyRide facility would need to maintain and charge these electric buses.

Dak Hill, founder of Piothree, said CyRide could save around $100,000 per bus for its lifetime, potentially offsetting the initial cost of the electric buses over time.

To help pay for the buses, there are federal grants such as the Low-No grant. This grant is allocated $55 million per year and is split between any organizations that are awarded grant money.

Kyras also mentioned that Low-No grants are very competitive, but definitely something CyRide wants to pursue. Fortunately, CTE is also prepared to help CyRide create a grant application.

Another important hurdle for CyRide is making sure the student body supports the switch.

Kyras said currently about $5 million of the about $11 million budget is from student fees. That works out to about $76 per student per semester.

Raising this fee would require support from student government, students on the CyRide board, representatives from the university and the board of regents, who have to support every tuition fee.

Kyras said the technology for electric buses has only recently become feasible. Before, electric buses in cities needed charging ports around the city in order to last an entire shift, something that was simply not possible for CyRide to achieve in the past.

While training is not an additional cost, it is included in the price of the bus, there are unforeseen additional costs that could lead to trouble down the road.

“The technology has now progressed to the point where it could be feasible, so now we’re just starting the process,” Kyras said. “We don’t know a lot of the answers, and we probably don’t know all of the questions at this point.”

The City of Ames had a law that you could not rent to more than three unrelated people, but most students are not related.” Hendrickson said. “So, if you had a five-bedroom house, you could convert it into a two-bedroom and a three-bedroom duplex, and then you could legally rent to five [unrelated] people.”

The current law states that a family, which is any number of people living together related by blood, marriage, adoption, etc., can live in a single unit. Up to three unrelated tenants can live in a single unit.

Although this law skewed how property management companies and homeowners rented their houses, converting these homes became a common option, and has even brought a benefit.

“The advantage is that you can legally rent to more people,” Hendrickson said. However, the law will be changed in the next few months.

“It was challenged in the courts, and the courts determined we were discriminating non-traditional families by enforcing it this way,” said Sara Van Meeteren, the city of Ames building official.

City Council still has details to work through as far as regulating these houses, Van Meeteren said.

“IT’s probably going to be something tied to the house,” Van Meeteren said. “So it could be so many people per bedroom, or per parking space, something like that.”

Until that law is changed, however, landlords who have adopted this style of housing have created a benefit— generating more income, Hendrickson said.

There are not only benefits to renters and property management, but also tenants as well.

“A lot of the utilities are already paid for, because you can’t break it into units,” said Logan Cooper, a junior in finance who lives in a house with six units. “That’s one of the best [advantages].”

Rongerude said that tenants might have a disadvantage when living in three converted homes, however.

“There’s a lot more wear and tear on a building when more people are living in it than were intended to,” Rongerude said. “I think that generally, landlords are [maintaining these houses], but because there’s a profit motivation it seems to accompany less interest in maintenance.”

Even with Rongerude’s thoughts on landlords and issues they may have maintaining their properties, it doesn’t affect all tenants.

“This is my second year living here,” Cooper said about his current apartment. “It’s pretty cheap for how close it is to campus. I’m moving out [after the lease ends] because my roommate is graduating.”
POLICE BLOTTER

11.14.17

Garret Gregory Hazdra, age 19, of 245 Richardson Ct – Ames, IA, was arrested and charged with theft, possession of a controlled substance, and possession of drug paraphernalia at Richardson Court (reported at 16:23).

An officer initiated a disorderly conduct related investigation at Larch Hall (reported at 12:32 a.m.).

An individual reported being harassed at Ammony Building (reported at 1:15 p.m.).

Christian Ray Kirk, age 19, of 245 Richardson Ct – Helser Hall (reported at 11:17 p.m.).

An officer investigated a property damage collision at Lot 67 (reported at 4:04 p.m.).

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IOWA STATE DAILY

CORRECTIONS

The photo on the front page of yesterday's paper incorrectly stated that the photographer was Mikkina Kerns. The correct photographer is Kaldyen Campbell. The Daily regrets the error.

The Iowa State Daily welcomes comments and suggestions or complaints about errors that warrant correction. To submit a correction, please contact our editor at 515-294-5688 or via email at editor@iowastatedaily.com.
Kevin Spacey, who plays the president on House of Cards, caused the beloved show to get cancelled after putting his own desires ahead of his career. With one being fictional and one real, I believe that people would still like to have the fictional character be their president. Why?

I believe people would rather follow a fictional character over a real one because the fictional world is the daily escape we all have come to crave. From video games to books to Netflix to social media, we all have our own outlet to escape the troubles of the real world for even a few minutes.

Studies show that people get attached to fictional things because of a little lobe in our brain called the right supramarginal gyrus. This lobe is what makes us project our emotions onto others. We follow a relatable character through the life the director puts together and feel that we have made a connection with them.

Both Trump and Spacey have done things morally incorrect. Both Trump and Spacey have allegations of sexual assault against them. Trump doesn’t think about the things he says and he seems to be a terrible role model.

The president should be someone people look up to, yet we would rather turn our heads at things happening to us and focus on things others did. This is why after Spacey was accused of sexual assault, he got fired, the show House of Cards was cancelled and he is getting ripped apart via social media.

When the president makes sexual and derogatory comments about women, he loses a few followers. He was already elected to lead us and make our decisions for the next four years because he made empty promises and talked as if he was making a sale.

The real question is, why did Spacey get such a harsh punishment and Trump gets booted for a day then whatever he did disappears into thin air like it never happened?

It seems like those who have money have the most power, but Trump has both money from his business and his career before presidency and power from being elected as president. If Spacey and Trump were judged under a panel of judges, or someone who is unbiased to the people and just understands the actions, Trump and Spacey would be given relatively equal punishments. Both men treat women unfairly and do equally wrong things.

The people are beginning to want to take action against Trump as they should have done before. With all the things he’s done during his year of presidency, the people have built a firm case and it could possibly lead to his impeachment.

In the end, Kevin Spacey is still fired, House of Cards is still cancelled and Trump is still president. If enough people were to agree on a mutual idea, maybe equality could’ve been served when dealing with Trump or others who have made a choice that was morally wrong.
Offense aims to build on last week

Iowa State has had such an up-and-down 2017 season, from two wins over top-five ranked teams to three home losses. After four straight wins in October, Iowa State was on top of the college football world. But, November has been a nightmare. Back-to-back losses have knocked the Cyclones out of the Big 12 Championship race and, while Matt Campbell's squad has already clinched a bowl berth, the bowl destination may be slightly less appealing after the two losses.

But when Iowa State (6-4, 4-3 Big 12) plays at Baylor (1-9, 1-6 Big 12) Saturday at 1:30 p.m., it will be a much-needed chance for a win. Baylor has given up over 36 points per game this season, including 48 to Liberty, 49 to Oklahoma and 59 to Oklahoma State.

For redshirt freshman quarterback Zeb Noland, who will likely make his first career start at Baylor, that's an appealing opponent. Noland, who threw for 263 yards against Oklahoma State in relief of the injured Kyle Kempt, is quite a bit different than the quarterback he's replacing.

"Zeb [Noland] definitely has a little kick to his personality," said senior wide receiver Allen Lazard.

Noland said after the game that he blacked out during the first drive. He was too excited to finally get on the field during a meaningful game after he had only played garbage time snaps against Northern Iowa and Kansas.

Even though he didn't know he was going to play in the Oklahoma State game, Noland was still prepared.

"No one has any idea how much time both Zeb [Noland] and Kyle [Kempt] worked over the summer even though coming into the fall they weren't the starting quarterback," said passing game coordinator Jim Hofher. "How much they worked together with the rest of the team, individually whenever they had their own free time, nobody knows that, but these guys know that's part of the recipe."

That preparation has been the key for Noland and the Iowa State offense. Even though Noland rarely works directly with the likes of Lazard or his fellow first-string receivers like Marchie Murdock and Trever Ryen, Noland still fired well-timed passes to those receivers for big gains. It's why Iowa State's offense likely won't suffer much, even though it's on its third starting quarterback in one season.

That kind of culture is why a third-string redshirt freshman quarterback can step in for his first major college football action and put up 28 points in half a game against a top-15 team.

"We can't just be satisfied we're going to a bowl," Noland said. "We can't be satisfied with where we're at now."

Lazard hunting for records

Allen Lazard has caught a pass in all 45 games he's played in a Cyclone uniform, which is already a school record that likely won't be broken for many years. He's also grabbed a hold of the school record for career receptions.

The receptions record, which was previously held by Todd Blythe at 176, is now Lazard's. He's currently at 223 and will have three more games to tack onto his record.

But the receptions record isn't the only one of Blythe's that Lazard is gunning for.

Lazard is at 3,071 yards. Blythe's record is 3,096.

"Hopefully Zeb throws me a few balls this week and I can go get it," Lazard said. "It will be a huge honor. I'm still trying to get that touchdown record though."

That touchdown record he mentioned — also held by Blythe — is 31. Lazard is at 24, so it would take a spectacular final three games for Lazard to reach that mark. However, with two more touchdowns, Lazard can set the single-season record and be the first Iowa State receiver to ever record 10 or more touchdowns in a season.

"I idolized [Blythe] as a kid," Lazard said. "To be able to be mentioned with him on the record lists is a huge honor."
Thanksgiving break means time away from school and work, and it also means more time to sit down and enjoy one of the many new albums or movies being released over the week of break.

Read up on some of next week’s new releases here:

**MUSIC**

**Green Day - “Greatest Hits: God’s Favorite Band”**

Nov. 17, 2017

The East Bay, California punk-rockers will release their greatest hits album, complete with 22 tracks recorded between May 1991 and October 2017. The album will include tracks from albums like “Dookie,” “American Idiot” and their most recent, “Revolution Radio,” but will also feature two new tracks, a new recording of “Still Breathing” featuring country artist Miranda Lambert and a previously unreleased track titled “Back in the USA.”

**Eminem - “Revival”**

Coming Soon

The ninth studio album from the man known as “Slim Shady,” Eminem’s latest album features his commentary on the American political climate, as well as a single titled “Walk on Water,” the lead single from the album and a collaboration between Eminem and Beyoncé.

**Suřjan Stevens - “The Greatest Gift Mixtape”**

Nov. 24, 2017

A follow up to 2015’s “Carrie and Lowell” and “Carrie and Lowell Live,” “The Greatest Gift Mixtape” is merely the short name for the album. Titled “The Greatest Gift Mixtape - Outtakes, Remasters and Demos from Carrie and Lowell,” the album will feature previously unreleased tracks from the album, an early iPhone recording of the song “John My Beloved” and remakes of the original tracks done by other artists.

**MOVIES**

**“Justice League”**

Nov. 17, 2017

The highly anticipated fifth release from the DC Extended Universe (DCEU), “Justice League” will follow five heroes - Batman, Wonder Woman, The Flash, Aquaman and Cyborg - on their mission to honor the late Superman, as well as save the world from villain Steppenwolf.

“Justice League” is also slated to be one of the most expensive films ever made, with a budget of $300 million.

**“Coco”**

Nov. 22, 2017

Pixar’s “Coco” is based around the Mexican holiday Dia de los Muertos and tells the story of a young boy named Miguel who comes from a family whose ancestors have banned music. Despite this, Miguel wishes to become a musician and finds himself on a journey through the Land of the Dead to discover the true nature of his family’s history.

**“The Man Who Invented Christmas”**

Nov. 22, 2017

Just a week shy of the start of December and the onset of Christmas decorations, movies and music filling the air, this film tells the story of one of the holiday’s literary traditions. “The Man Who Invented Christmas” shows how Charles Dickens brought together real-life experiences and his imagination to write “A Christmas Carol.”
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