**Student-faculty ratio experiences steady increase**

The student-faculty ratio is just one of the many things that the university looks at as a measure of its commitment to investing in faculty. With Iowa State students and faculty numbers at record highs, the trend of recent years has been to “expand the capacity of the institution,” while still keeping a “student-faculty ratio in the middle.”

**Faculty to Student Ratio: 2006-2014**

- 2006-07: 15 students per faculty member
- 2007-08: 16 students per faculty member
- 2008-09: 17 students per faculty member
- 2009-10: 17 students per faculty member
- 2010-11: 18 students per faculty member
- 2011-12: 18 students per faculty member
- 2012-13: 19 students per faculty member
- 2013-14: 19 students per faculty member

**Drone usage article speaks controversy**

Drone usage controversy at Iowa State University continues. A recent story in the *Iowa State Daily* ran a story about ISU’s response to FAA regulations regarding drone usage.

**Biodiesel**

ISU graduate students receive grant to continue biochar research

The new Biosocismatic Complex includes a 7,000-square-foot safety office and classroom facility. Among the programs housed in this complex is the Better Biodiesel program. ISU graduate students receive a grant to continue biochar research.

**Better biodiesel**

ISU graduate students receive grant to continue biochar research

**Student-faculty ratio experiences steady increase**
Weather

FRIDAY Sunny and cool with the chance of spotty clouds later on.
SATURDAY Sunny during the day and partly cloudy at night.
SUNDAY Partly sunny with passing showers during the afternoon.
Weather provided by Weather underground.

Police Blotter

This information is based on the reports of the ISU police department.

Oct. 1
An officer initiated a drug-related investigation at the Armory (reported at 1:48 p.m.).
An officer investigated a property damage collision on Lot 85 (reported at 5:49 p.m.).
An individual reported theft of a bike at Wilson Hall (reported at 1:54 p.m.).

An individual reported attempted theft of a bike at Wilson Hall (reported at 8:19 a.m.).

An individual initiated a drug-related investigation at the Armory (reported at 1:48 p.m.).
An officer investigated a property damage collision on Lot 85 (reported at 5:49 p.m.).
An individual reported theft of a bike at Wilson Hall (reported at 7:10 p.m.).

Constitution

New halls completed

Both Elings and Sukup Halls have been under construc-
tion for 2014, but are now building docks for the students. The two halls are not at the west end of campus between the BioResearch and Development Laboratory and ISU Hall. Currently, on a full recap of the construc-
tion and what the halls will have to offer.

Help Hospitals fundraise this week

St. Thomas Aquinas Church is hosting a fun-
day on Oct. 13 and 14 to help educate Honduran children. For every entry, it costs $40 to assist one student, $160 to assist a family and $400 to assist a class. To find out how you can donate to the cause or for more details on the event, contact the ISU Student Ministry and the Iowa State Daily’s mobile app.

Weather provided by Weather underground.

Correction

The Iowa State Daily wel-
comes comments and sug-
gestions or complaints about areas that warrant correction. Please contact our editor at 515-294-4120 or editor@ iowastatedaily.com.
MacKay Hall hosts ribbon cutting

Friday, Oct. 10, 2014

By Vanessa Franklin
vfranklin@iowastatedaily.com

MacKay Hall hosted a ribbon-cutting celebration to mark the completion of its recent renovations Oct. 9.

The ribbon-cutting included self-guided tours, refreshments and a short program including history of the building.

Renovations include the auditorium, the Visitor Center, the Tearoom, the Batchelder Fountains, 213 MacKay and the Vestibule.

The renovation took about 14 months to complete, becoming ready for visitors this fall. While MacKay is now one of the many homes to the College of Family, Home, and Human Sciences, it was originally part of the College of Home Economics.

Preserving the history of MacKay Hall was one of the biggest challenges. MacKay Hall opened in 1911 and has seen over a century’s worth of history.

“This is one of the things that makes our campus so special,” said Jonathan Wickert, senior vice president and provost.

“We are in our sixth year of record enrollment on campus. A lot of that growth is happening here in the College of Human Sciences,” Wickert said. “Completing this project could not have come at a better time.”

The ribbon-cutting organizer was Natasha Banks, senior in event management, who was awarded an internship with the College of Human Sciences. Banks began working on the project around the end of the spring semester last year.

“I did a lot of the planning on my own and just consulted with the [ribbon-cutting] committee on my plans and my ideas,” Banks said. “I definitely think it was an amazing learning experience. I wasn’t planning the event on my own, but in a way I was.”

Banks researched MacKay Hall to prepare for the ribbon-cutting, along with creating a presentation on MacKay, working with student organizations to provide refreshments and creating programs.

“It’s amazing to see that MacKay Hall is going to be preserved for many years to come,” Banks said. “It was definitely a great starting point for my career.”

MacKay Hall hosts ribbon cutting
History professor writes book about women in engineering, tech fields

By Abby Wadeson

Amy Bix, an associate professor in history, published a book this year called “Girls Coming to Tech!: A History of American Engineering Education for Women.”

Bix’s book focuses on the history of science and technology education, particularly how discrimination they have suffered from childhood entered the field.

“The interest in the topic was piqued with a class the teachers titled the History of Women in Science, Medicine, and Technology,” Bix said. “I found plenty of materials for my students to read about the history of women in science and technology, but no books about the history of women in engineering. “When it came to women in engineering, I literally couldn’t find anything for my students to read,” said Bix.

At first she decided to work around it, but then she decided she would have to write the book herself.

“My own perspective as a historian is that a lot of things have risen, enrollment has increased, but the journey to complete equal representation of women in science and engineering up isn’t going to be ‘quick and easy,’ but both the field of engineering and women in the workforce is steadily rising, and engineering is so much more masculine than those fields were,” Bix said.

Amy Bix, associate professor of history, wrote a book describing the hardships and benefits of being a woman in the engineering field. Through her book, Bix documented the history of women in engineering and the discrimination they have suffered from childhood entering the field.

“The students are really good, they’re just one of those — you’re not really any different,” Barrett said.

Barrett says that there’s no longer discrimination in the engineering field and women are able to enter into the workforce as easily as men.

“People notice that if you’re the girl, but they don’t make it a big thing,” said Barrett.
Monument needs to alter image

By Katie Titus
IOWA STATE DAILY

Monument is a popular name in the agriculture community. However, Monsanto is perhaps the most hated name in the agriculture community. Monsanto, however, is being used as farmland. Taking this as farmers, according to the one percent of the population employed actually only has five percent aging to the farmers that take using genetically modified in most of North America, years, Monsanto has monop-

I discovered that many international students re-

sists the IFC members and I

Monsanto, however, is being

Taking this into consideration, farmers in the United States have one of the toughest jobs: feeding our nation and the rest of the world, among others, with a limited amount of land and resources. Farmers have to be able to decide whether the crops they grow will be GMOs or their crops, or will they use non-GMOs for their crops, or will they use non-GMOs for their crops? Monsanto has the capability of going to a church or to one of the other churches in the area. Christians from Stonebrook church, and did not bash him just because he was surprised as well that the Muslim student did not have any particular religious beliefs or harm African American students for simply group different from your others who have different beliefs can still be considered very un-

Every year to year, this act toward farmers of seeds being bought each year, it could affect the numbers of farmers who have inadvertently had their fields contaminated with Monsanto seeds, are farming the seeds that are being used at such a high rate and for so much money. Monsanto has the capability of causing many farmers to lose their farms, literally.

The IFC members and I

I am not trying to pro-

In this nation, and sometimes in the United States, we have a system where same-sex marriage is an option. This shift in the meaning of marriages has sent a shock wave through our society, and the majority of Americans now favor it. Allowing same-sex couples to get married in another state is not a bad idea to approach Christianity in front of them. This indicates to me that these two churches are good places for international stu-

Iowa City, Iowa

The United States Supreme Court refused to hear 11 cases regarding same-sex marriage on Oct. 7, six weeks after the court rulings stand as a result of a same-sex divorce case. The justices allowed same-sex marriage to be legal in California, Washington, Oregon, New Hampshire, Rhode Island, New Jersey, Illinois, Connecticut, Massachusetts, Indiana, and Wisconsin were all allowed to marry same-sex couples. The court also refused to hear 11 other same-sex marriage cases.

The Ninth U.S. Circuit Court of Appeals in San Francisco heard arguments in California's case on Oct. 7. The justices also refused to hear 11 other same-sex marriage cases.

In 2011, the Supreme Court struck down the Defense of Marriage Act and Proposition 8, which bans same-sex marriage. The law had been in effect in California since 2008.

Now 53 percent of Americans favor a policy that allows same-sex couples to marry. But in 2011, only 36 percent of Americans favored same-sex marriage. This is an increase of over 17 percent in just two years.

Iowa City, Iowa

Iowa State Daily

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Laura Friedrich and Stella Maris Strohman didn’t have to travel very far for college.

In fact, the two frosh in their first year didn’t have to travel at all.

Friedrich and Strohman, both Ames natives, decided to stay close to home when it came to their college decision and where they would continue their soccer careers.

“I grew up here and I always kind of looked up to playing for an Iowa State soccer team, so it’s something I didn’t really have to do,” Friedrich said. “It was nice to have a dream come true when they offered me a position here. I always wanted to go to Iowa State.”

Like Friedrich’s decision to play for the Cyclones was an easy one. The choice to play for her hometown team was a no-brainer.

“I didn’t have to even think about it,” Friedrich said of the decision. “I have a lot of family here that would want me to continue my soccer careers anywhere else.”

Staying close to home has provided the two freshmen with plenty of family and friends in the stands to cheer them on.

In fact, the duo said they have even seen past coaches and their old teammates from high school come to cheer on the Cyclones.

For Friedrich, it was great to see my old teachers here and people that don’t usu-
ally support the team to be out here,” Friedrich said. “There’s been a lot of really awesome to me.”

While the duo has enjoyed their time at Cyclones so far, it hasn’t been without its challenges.

“In freshmen, they’ve had to adjust to a whole new brand of soccer where everything happens a little bit late,” Friedrich said. “It’s challenging at times, but that just comes with the level of play and the speed of play.”

Even with the challenges of playing at this level when you get to this level. Another challenge has been trying to find playing time.

“Playing for a Big 12 school represents playing opportunities than if you would have decided to play at a different level or smaller Division I school,” Friedrich said.

Also being from an Iowa high school where the level is lower than some parts of the country. Friedrich and Friedrich haven’t found the same caliber oppo-

nenters that other players may have faced previously in their career.

This means they have had to work extra hard to catch up and progress so that they can have an impact down the line for the Cy-

clones.

“I’m going to be a lot of hard work and there tak-

ing a couple steps back, but they’re still trying to put that confidence and be a player,” Friedrich said.

Going back to school and it’s a really joyous occasion for us,” Strohman said.

“I grew up here and I always wanted to come back here and make the community proud,” Strohman said.

As freshmen, they’ve had to work extra hard to catch up and progress so that they can have an impact down the line for the Cyclones.

“If it’s going to be a lot of hard work and there taking a couple steps back, but they’re still trying to put that confidence and be a player,” Strohman said.

It’s challenging at times, but that just comes with the level of play and the speed of play.”

For now, the freshmen haven’t faced the same caliber oppo-
nenters that other players may have faced previously in their career.

“Iowa high school where the level is lower than some parts of the country. Friedrich and Friedrich haven’t found the same caliber oppo-
nenters that other players may have faced previously in their career.

Along with a group of other players, Strohman has three sacks on the season. Jones has three sacks on the season.

Treyvon Hester and Orion Bibbs.

Another challenge has been trying to find playing time.

“It’s going to be a lot of hard work and there taking a couple steps back, but they’re still trying to put that confidence and be a player,” Strohman said.

Iowa State has relied on offensive coordinator Mark Mangino says.

The thing about them is they give you a lot of different looks,” Mangino said. “They put people on the edge, which was a one-handed grab near the goal. "I think this had match-
up for us and a defense that’s trying to cover him." "Richardson said of Bibbs.
In what has been an up-and-down conference season for the 35th volleyball team thus far, the Cyclones are again looking to get back on track.

After two road losses to start Big 12 play, the Cyclones (9-5, 3-3 Big 12) appeared to find their groove in a home win over West Virginia on Oct. 4. Two non-conference losses and a conference loss to Oklahoma have kept the momentum rolling, however, as the team dropped to 3-3 in Big 12 play. The Cyclones need to keep their momentum rolling on their home court Oct. 12 against Kansas State.

Bread wins are hard enough to come by in the Big 12, so the Cyclones can’t afford to stumble at the home match Oct. 12 against Oklahoma. The Sooners (12-4, 2-4 Big 12), sit at second place in the conference and received votes to place 20th in the most recent poll, present a formidable challenge for Iowa State’s attack.

“They’re always a great defensive team,” said ISU coach Carrie Johnson-Lynch. “They can be very intimidating to play because you can’t get to your outside hitter defense on. What we’ve found, especially when we play them here, is you can kill their outside game and they’ll come out and be All-Americans the next.”

Oklahoma has two middle blockers, Marin Haskard and Mia Alio-Span, who have 51 blocks each this season, providing a formidable challenge for the Cyclones on defense. The Sooners also have some of the most experienced hitters in the Big 12, including 6’4” outside hitter Hannah Witherhack, who has 161 kills so far this season. The Cyclones will need to continue to get kills. It might take a few tries, but we’ll get it.” Horner said, pointing to the team. Unfortunately for Iowa State, its hitters have been plagued with injuries this year. Victoria Hurt, Madeline Bieger and Gateman have all seen playing time this season with injuries.

Stapling them up in times of need, however, has been redshirt sophomore Morgan Kuhrt. Kuhrt had a breakout performance on Sept. 24 when she had 8-kill match on 26% efficiency. Iowa State’s middle blocker has increased drastically since that match with 14 of her 18 attacks on the season coming in the last five contests. She has been the one to top each game to keep the ISU defense in check.

“The main thing is I’m trying to be aggressive as a team and work as hard as I can out there. I think we’re always going to out-working and have good athletes,” Horner said. “The Cyclones will have an advantage on the defensive side and, however, as ISU senior Lauren Horner played her freshman season at Mississippi State with Oklahoma’s Kenny Gaffin, an ex-husband, in third on the Sooners coaching staff. Horner said that after seeing her ex-husband, he knew some of her opponents habits and how the Cyclones can prepare for them.

The Oct. 12 match might be enough to keep Iowa State in contention for the conference crown, so the Cyclones still have to give it their all to avoid a disheartening 1-4 start in Big 12 play. The Cyclones just need to be prepared to go to war. Hopefully, that will help us prepare.”
Horoscopes

for March 28

ARIES - 9

Friends can open the door for you. For the next two weeks, take care to complete unfinished projects. With Venus, Uranus, and Jupiter in your 12th house, perfect for setting or reading balance and work rest. You'll need to manage boundaries, check your comfort level with boundaries, and efforts to balance the core family "ground." We're on the verge. Check the right lights. It's the season of the most challenging.

LISA BLACK

Libra - 9

envy and obligations and ethics to make different decisions. This will be the most benevolent time to re-examine your power

Aquarius - 8

...and in the process of biomass energy, the biomass can be converted to biochar.

Kieffer, vice president of Artichar.

We worked on it for about three years, Holger said. “But over the next three to four years, that type of system has been very fruitful for us,” Kieffer said. “It is a charcoal-like substance with a good structure that is easy to handle from downstream. You can store and ship it easier. It's getting easier. Ask for what you need. Your reputation precedes you. People's Company, which manages the Mepham Group, has received a grant for $150,000. We have people from high school, we have very different classes, I feel like I could have many different differentiated levels better and understand it better as the classes grow.

As of June 2, the FAA will continue to address operations of small unmanned aircraft systems—a small unmanned—small aircraft under 50 pounds. Dart said. “We hope to get that...In some ways see some variability.”

As the discussion of undergraduate programs for all the colleges, an administration group of people from students and other stakeholders is working on a plan for the future. Holger said they are considering ways to see some variability. “As you get through your first four years, there are many broad opportunities. This is not just about the one large platform. That's where the big lecture halls are ones that are being cut down to size. It is a charcoal-like substance with a good...It seems like a perfect thing to have to offer one large section of the class, the big lecture halls are ones that are being cut down to size. It is a charcoal-like substance with a good structure that is easy to handle from downstream. You can store and ship it easier.

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