A herbarium is a large and extensive collection of dried and pressed plant specimens. Inside the storage system there are rows upon rows filled with fungi, mosses, flowering plants, and more. In total, the herbarium has over 640,000 specimens. These specimens come from all over the world. They are collected by a multitude of different researchers and scientists. "The specimens are first collected in the field by researchers and then they collect them to document their own research projects," said Deborah Lewis, curator of the herbarium. "But once the specimen is prepared and ready to go into the herbarium, and it is in the herbarium, then can be used in subsequent studies as well."

Some examples of the subsequent studies the plants can be used in are anatomical studies and DNA fingerprinting. Deborah Lewis is the current curator of the herbarium and has been since 1984. She, along with director and contributor Lynn Clark, are the two regular and paid staff members. In addition, there are associated faculty members, volunteers, and students who help out.

One key aspect of the herbarium is studying and comparing plants to each other, Lewis said. Another is to try and figure out why certain plants are growing in a particular area.

Through both of these aspects, the dead plants are dried and pressed so they can be conserved. By having the plants preserved this way, it helps the specimens stay intact for up to hundreds of years. "Once plants are pressed and dried, we say they hold up virtually forever," Lewis said.

The oldest specimen found so far is from 1799. It was sent to the University of Iowa's herbarium by the British Museum. "The reason that the specimen is at Iowa State is another pivotal part of the herbarium's history. In 2004, the University of Iowa transferred the entirety of their herbarium to Iowa State. They previously gave all of their fungi to Iowa State's herbarium in 1984, but ultimately ended up giving the rest and merged the two collections." "They seem to be moving away from the natural side of biology to human medicine and human anatomy and physiology," Lewis said.

The mobile storage system was also added in 2004. This allows up to three large cabinets at a time to be wheeled aside for easy access. Each of the cabinets are eight rows deep, which is where the specimens are stored.

Organization wise, all of the big groups such as fungi, algae, mosses, ferns, and flowering plants are grouped together. From there, the specimens are organized by an alphabetical system. Inside the cabinets, there is a triad of colored folders. If a specimen is in a red folder that means it was collected in Iowa, if it's in a white folder it was collected somewhere else in North America, and if it's in a blue folder it was collected somewhere else in the rest of the world.

In some parts of the collection, there is a greater number of blue and white folders than red. "It's a very complex system," said Lewis.

ADA HAYDEN

Born: 1884
Died: 1950

Hayden was the first woman, and fourth student ever, to receive her doctorate at Iowa State College in 1918. She became an assistant professor of botany in 1930 and was the Curator of the Herbarium from 1934 to 1950. In 1988 the herbarium was officially named after Hayden.
Board plans $65 million football complex expansion

The first Board of Regents meeting at Iowa State this semester will take place Wednesday and Thursday with a $65 million Bergstrom Football Complex expansion on the agenda.

The meeting takes place at the Alumni Center starting at 10 a.m. Wednesday and 9:45 a.m. Thursday. The agenda can be found on the Board of Regents website.

The largest ticket item for Iowa State on Wednesday is the possible expansion to the football complex. Iowa State University and the Iowa State Athletics Department are looking to get approval by the Iowa Board of Regents to start a $65-80 million project to expand the Bergstrom Football Complex.

The university believes there needs to be an upgrade in training, performance, nutrition and academic support for the student athletes, according to the agenda in Wednesday’s Board of Regents meeting.

This project is broken up into segments pertaining to the north side of Jack Trice Stadium.

The main part is focused on the expansion of the Bergstrom Football Complex.

With the contract extension for football head coach Matt Campbell back in December, Campbell said in his press conference that he sees the football program growing both in the players and the facilities.

This project would allow an academic center and a sport nutrition center to be built on the west side of the Bergstrom Indoor Training Facility. It would provide student athletes the opportunity to have tutoring rooms and computer labs. It would also allow for a new dining and student nutrition center.

Along with the Bergstrom Complex, the Olsen Building, which is connected to the Jacobsen Building, would be demolished and everything in there would be put into the expansion on the Bergstrom Complex. There would be locker rooms and strength and conditioning facilities specifically for women’s sports like soccer and softball who used the Olsen Building.

Finally, the last part of this project would be focused on remodeling the north side of Jack Trice Stadium. There would be improvements made to the hillside seats and the marching band area as well as developing better mobility assistance areas like building more ramps and easier entries on the north side of the stadium.

The $65-80 million estimate would be funded by Private Giving and Iowa State Athletics Department Operations funds.

Thursday’s agenda includes reports from institutional heads, including Iowa State President Wendy Wintersteen and a report from Iowa State’s Director of Residence Pete Englin.

VP candidates debate campus issues

Vice presidential candidates Jocelyn Simms and Juan Bibiloni debated Tuesday evening, with candidates gauging questions on campus issues and their individual platforms.

The debate, moderated by the Iowa State Daily and hosted by Student Government, focused on campus climate, budget cuts and tuition, as well as sexual assault and misconduct.

Individual questions on platform also included how the vice presidential candidates intend to implement their campaign promises should they be elected come March.

BELOW ARE KEY TAKEAWAYS FROM THE DEBATE:

What do you hope to create a better bridge between student organizations and Student Government?

Simms said that they will bring outside perspective into Student Government. Bibiloni said they have feasible plans to make their platform happen.

What would be your response should more white nationalist posters appear on campus?

Simms said we have to balance free speech, but converse in a way that doesn’t harm others. Speaking second, Bibiloni said Student Government members have to keep in mind that we have our own free speech and have to stand up for institutional values.

What are some of the biggest issues with campus climate?

“Biggest concern facing our student body is sexual assault,” Simms said. She added that we need to develop a culture where people can be heard.

What can Student Government do to advocate for students in regard to state funding cuts?

Bibiloni said we want to start a March for Education to let legislators know that the cuts to the budget are failing us.

How do you hope to create a better bridge between student organizations and Student Government?

Simms thinks there should be more outreach between Student Government and student organizations by sending liaisons to student org meetings.

How feasible is your proposal about improving campus lighting when it’s been a part of past campaigns and hasn’t happened?

Bibiloni said they want to create a financial partnership between Student Government and university departments to fund the new lighting.

Each campaign had closing remarks to end the debate.

“We’re not just putting out vague ideas to get your votes,” Bibiloni said. He ended asking, “Who has best represented you in the past and who will best represent you in the future?”

“I plan to work with, not above the students on campus,” Simms said, and added that she wants to be a leader not a manager.
Nick Mullins is a former coal miner from the Appalachian region, who is working to try to bridge a gap between those working in the coal mines and environmentalists.

Mullins came to Iowa State to deliver a keynote lecture Monday, titled “The Thoughtful Coal Miner” as a part of the 2018 Symposium on Sustainability.

After Mullins left his job as a coal miner, he began his blog, “The Thoughtful Coal Miner,” in 2010. Via this blog and writing for other publications, Mullins has been a voice “for coal miners everywhere, each of whom have taken time to understand the bigger picture, and who seek justice for their communities.”

Mullins’ blog is a space for him, and sometimes contributors, to post about issues relating to coal miners and the relationship with environmental issues and other topics relating to the culture in Appalachia.

The Daily had an opportunity to sit down with Mullins and ask a few questions that explored beyond the topics he touched on at his lecture Monday in his keynote for the 2018 Symposium on Sustainability.

Q: What inspired you to begin blogging?
Mullins: I had recently left the mines, and I’d always enjoyed writing. After leaving the mines, I got more involved in environmental activism, and some folks suggested that I start a blog. I thought it would be a good idea and get a voice out there that wasn’t often heard.

Q: Did you have writing experience before starting your blog?
Mullins: Nothing professional, I had on a couple of occasions written an op-ed for the local newspaper. In high school I enjoyed writing fiction stories and things like that, but I hadn’t really gotten into the political spectrum of things. I had just enjoyed crafting up emails and causing debates.

Q: Were you surprised by the impact your blog had after you started it?
Mullins: There were a lot of times I was surprised by the readership and how popular it became. But I also, in later years, realized that the audience that really picked up on it was mostly the environmental, liberal side of things. And while I was feeding a lot of the perceptions they had of Appalachia, I also realized that I wasn’t getting out to as wide a genre of audience that I’d like. I also noticed that the more controversial I became about environmental activism, the more heat I took and I had more peaks in readership.

Q: In Iowa, what do you believe is the relevance of the conversation about the relationship between coal mining and the environment?
Mullins: The jobs versus environment dichotomy is very intense in Appalachia, but it spreads out to any community, especially rural communities, where that has an issue. People are always trying to find ways to sustain themselves economically. At the same time, there’s issues that come up with the environmental impacts of those jobs. From a perspective in Iowa, I’m sure there is a bit of a jobs versus environment dichotomy that occurs around farming, industrial agriculture and environmental issues, so where do we find middle ground? It also is largely based on a rural-urban divide, which does seem to have a profound impact between the people that provide a lot of the things that urban people need, but also aren’t very well understood by urban people.

Q: What message do you hope people take away from your lecture Monday night?
Mullins: That right now we are so intensely divided as a nation, it feels, and there is such a cultural war going on with rural versus urban, and people on both sides have got to start rere thinking the way that we’re doing things. People in liberal and progressive areas need to really rethink about how they approach issues and approach people of the working class, in order to be able to no longer speak to, but speak with in terms of what we do. And we need to start listening to people in rural and working class communities.
POLICE BLOTTER

2.19.18

Marina Reasoner, age 38, of 4111 Phoenix St, Ames, IA, was cited and released for theft 5th (Case update).

An officer checked on the welfare of an individual at Friley Hall (reported at 12:22 a.m.).

An officer investigated a property damage collision at 224-C2100 Beach Rd (reported at 5:44 a.m.).

Nicholas Steven Swenson, age 18, of 204 Beach Rd Unit 314 - Ames, IA, was cited for possession of a controlled substance and possession of drug paraphernalia at Maple Hall (reported at 9:45 p.m.).

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Oil and natural gas improve the Olympics

BY ISD EDITORIAL BOARD

It has been exhilarating watching the Winter Olympics in South Korea. We are very proud of the athletes on the United States team. Skilled Olympic competitors honorably represent our country. Their ages range from 17 to 39, including many college-age students just like us.

Iowa State is no stranger to Olympic alumni both for the United States and around the world. Already an Iowa legend, Cyclone Dan Gable was arguably the world’s best wrestler in the ’70s and a Summer Olympian. He won the Olympic gold medal in the men’s freestyle in 1972 and became a wrestling legend in the United States and across the world. He is an Iowa legend, Cyclone Dan Gable was arguably the world’s best wrestler in the ’70s and a Summer Olympian. He won the Olympic gold medal in the men’s freestyle in 1972 and became a wrestling legend in the United States and across the world. He was joined in Munich by gold-medal winner Ben Buzzard. All Iowa State students!

There have been many changes to the Olympic games since those days, especially in how we watch them.

Now when we have Iowa heroes in the Olympics, we’re able to watch them live via multiple channels. We can watch them live on cable and satellite, or via live stream on our cell phones and tablets. Back when Dan was in the Olympics, most of the fans who were able to watch the live events were in the stands in Munich or in a similar time zone. These innovations are due in large part to affordable energy and cutting edge technology created from natural gas and petroleum.

Many other aspects of the Olympics have taken remarkable strides thanks to oil and natural gas. First and foremost, natural gas and petroleum have always been crucial in providing the power necessary to make the games happen. From the power needed to light the arenas to the worldwide broadcasts and internet streams, natural gas and oil have played a critical role.

But that’s not where the role of petroleum and natural gas ends. Producing the plastics, textiles, ceramics and other tech-related fibers used in Olympic equipment are possible through natural gas. The training materials the athletes use, and even the electronic devices they use to keep in touch with family halfway across the globe are made more affordable and more effective with development in natural gas and oil.

As you watch the Winter Olympics this year, keep in mind how America’s expanding energy infrastructure for natural gas and oil are working to make the games – and our United States Olympic athletes – better.

SNAP doesn’t need proposed changes

BY ISD EDITORIAL BOARD

“Food is the moral right of all who are born into this world.” The words of Nobel Peace Prize Laureate and Father of the Green Revolution, Dr. Norman Borlaug resonate throughout this university. Iowa State has one of the best agricultural colleges in the world and, therefore, a unique responsibility in ensuring greater food security in our local communities.

The Editorial Board strongly opposes the proposed changes to the Supplemental Nutrition Assistance Program (SNAP), formally known as the Food Stamp Program. President Trump’s budget proposal calls for a cut of $213 billion from the program over a decade. A more troubling aspect of the budget deals with the Republicans obsession with shaming the poor.

Currently, SNAP serves about 44 million people each month. These benefits are distributed to those who qualify through an EBT card that is loaded with a set amount of money each month. The recipient is then free to spend the money on any food items that meet the USDA’s guidelines.

Trump’s plan calls for 81 percent of current SNAP recipients to receive a box of “shelf-stable milk, ready to eat cereals, pasta, peanut butter, beans and canned fruit and vegetables.”

This proposal replaces a recipient’s freedom over their own diet with a box of processed foods void of fresh produce. Furthermore, the contents ignore possible food allergies and may not be culturally appropriate. Simply, it seeks to “fix” a program that, according to the USDA, has “one of the lowest fraud rates for federal programs.”

There is substantial proof that the program works in improving the lives and communities of the people who receive benefits. The Brookings Institution reported access to SNAP, especially at early ages, has a positive impact on later health. SNAP also improves households’ financial well-being, lift people out of poverty and increase household food security.

In Iowa, the state government even helped expand SNAP recipients’ access to fresh and local produce thought the Double Up Food Bucks program that “matches” SNAP EBT Card benefits spent at farmers markets. The purpose is to help support local agriculture and promote healthy diets through the consumption of fresh fruits, vegetables and more.

Iowa State recognizes its role in the debate around reducing food insecurity here and around the world. In fact, Iowa State Extension and Outreach operates a SNAP educational program which teaches families about budgeting, reading nutrition labels, preparing healthy food and much more. These types of programs focus on education coupled with the adequate financial resources help people progress.

SNAP is funded and administered through the USDA Farm Bill, which is up for renegotiation this year. Contact your senators and representatives to let them know you support increasing food security and oppose the proposed cuts to the SNAP program.
Injuries affect men's basketball

BY BRIAN.MOZEY
@iowastatedaily.com

The injury bug has reached Ames, Iowa, and it's hitting almost half of the Cyclone men's basketball players.

Iowa State has played 26 games and the players have shown the effects from playing so many games.

For Wednesday's home game against TCU, coach Steve Prohm could have anywhere from six to eight healthy players. And healthy is a loose term.

"It's a gray area between reality of [seven to 10]," Prohm said. "That's just part of the game."

Lindell Wigginton, Cameron Lard, Jakobley Long, Terrence Lewis, Jeff Beaver and Zoran Talley Jr. are all good to go for the game against the Horned Frogs.

Weiler-Babb has been dealing with tendinitis in his knee since the beginning of this season, but the 191 minutes he's played this season has come to a close after an ISU representative said Weiler-Babb is expected to be shut down for the rest of the season.

Young will be out for three to four weeks after having surgery on his left knee. He is repairing two tears in his meniscus and his return to the court this season is uncertain.

Finally, Braze could return from his knee injury for the TCU game. Prohm expects him to be in uniform and playing some minutes against the Horned Frogs.

Prohm will need all hands on deck against a powerful TCU team that has its eyes on a possible NCAA Tournament bid.

"I've been waiting for the opportunity since I got here, so it's a blessing right now for me," Lewis said. "When your number is called, you got to be ready."

Prohm remembers that high powered offense when Iowa State lost to then-No. 24 TCU in Fort Worth, Texas, on Jan. 17 with a 96-73 final score.

The 96 total points by the Horned Frogs is tied for the highest score the Cyclones have allowed on the road this season. The other 96-point performance was from Oklahoma State on Jan. 6, but it ended in overtime rather than regulation.

"They're very good offensively," Prohm said. "They can space you out... they as a team are shooting 42 percent from three, that's pretty good."

One name that could be called quite often from the bench is freshman guard Terrence Lewis.

He's averaged 8.5 minutes per game and has only played 2.5 points per game, but he could get some extra time because of the small number of players.

Coming into Iowa State, Lewis was known for his shooting ability. He has had a lot of rhythm during games since he's only in there for 8.5 minutes but hopes this game could be a chance to shine and showcase his abilities.

"I've been waiting for the opportunity since I got here, so it's a blessing right now for me," Lewis said. "When your number is called, you got to be ready."

"It'll be an opportunity for redemption after the 21-point loss to the Horned Frogs earlier this season. Even with the injuries, Prohm is focused on finishing this regular season strong, but the first priority is focusing on Jackson and his situation.

"Right now, more than anything, (is making sure Jackson is our priority)," Prohm said. "Basketball stuff will take care of itself."
ICE, ICE, BABY

Rails by Lake Laverne are coated with ice, much like the rest of campus after recorded freezing rain hit Ames from 1:53 a.m. to 2:53 a.m. Tuesday morning.

Icicles dangle from the handlebars of a student’s bike left out in the freezing rain.

Sidewalks remained coated in ice, a combination of hail and freezing rain, late into the day.

The National Weather Service recorded freezing rain in Ames from 1:53 to 2:53 a.m. Tuesday morning.

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Close up of a specimen collected by George Washington Carver, stored in the herbarium. The specimens collected by Hayden are neatly and delicately pressed. All of the proper details are in place and preserved as clearly and accurately as possible.

When a specimen is collected for the herbarium, collectors will put a description of where they found it. These descriptions range from extremely vague to very exact.

Even though Hayden was collecting a long time ago, she gave a multitude of particulars in the descriptions of where her specimens were found. "She was careful enough in her work to get it down to at least a square mile, and with her description, you could probably get it down to much closer than that," Lewis said.

"The herbarium is working toward a complete catalog of all its contents, but for now there is no way of knowing for certain how many there are exactly." An example of this is their fungal collection. They currently are working on a project to catalog all of their fungi. This project is funded by the National Science Foundation.

Lewis said they estimated they had around 36,000 fungi to document. However, her student workers hit that number just before winter break. Lewis said they underestimated by about a third, so they are trying to get as much done as they can before the funding ends at the end of the school year.

One of the undergraduate students who is helping out with this project is Olivia Hubbard, a senior in biology. Olivia has a focus on fungi and has also done research regarding lichens.

Her job consists of cataloging the herbarium’s micfungi collection. She photographs the packets of the fungi and enters the information inside the packet into an online database. Even though Hayden was collecting a long time ago, she gave a multitude of particulars in the descriptions of where her specimens were found. "She was careful enough in her work to get it down to at least a square mile, and with her description, you could probably get it down to much closer than that," Lewis said.

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starting to realize their careers in the cardinal and gold are winding down.

Durr, the senior leader, is averaging 19.4 points per game and four assists per game in her last five outings. That stretch was highlighted by a 21-point performance at TCU. Ricketts, who has filled in following Bride Kennedy-Hopoate’s injury, is averaging 5.3 boards per game and 17.3 minutes per game in her last six.

Amazingly, Ricketts above ten minutes of playing time just twice prior to Oklahoma State win.

"We're trying to set an example right now for the younger girls," Ricketts said.

"We're trying to set the tone of what it should be like so when we're gone they remember the little things, the extra, the culture it should be.

"Go out with a bang." While Durr and Ricketts have heated up, the Sooners also have a few players scorching the basket. To be exact, they have five girls who are averaging above ten points per game, compared to Iowa State’s two.

The Sooners are led by their senior center, Vionise Pierre-Louis. The 6-foot-4 center is averaging 15.5 points per game and 8.6 rebounds. When Oklahoma traveled to Ames, the Cyclones held Pierre-Louis to just five points and five rebounds, although she was battling foul trouble that game.

And then there is Gabbi Ortiz, Shaina Pellington, Ana Llanusa and Maddie Mann.

"It's kind of hard to pinpoint one point on defense there or need to guard this player this way," Durr said. "They're a very offensive oriented team and very spread out.

Simply put: no one on Oklahoma is an easy task. That’s what has surprised Sooners to play themselves into NCAA Tournament talk.

Oklahoma even showed that last time against Iowa State as it had four girls score in double figures.

On the Iowa State side, though, it just had three girls in double figures. One was Bridget Carleton and the other two were Madison Wise and Adrianna Cumber Durr, who said it herself, was practically a no show at the game with just two points.

This time it will be different, according to the Cyclones’ leader.

"Personally, I didn't play well at all," Durr said. "We know we can change the outcome if we do this."