INSIDE



symphony orchestra showcases range

The University of Iowa symphony orchestra's first performance of the year in the Voxman Music Building included a diverse range of music. The pieces played include "Totenfeier" by Gustav Mahler, "Concerto for Horn and Orchestra" composed by Francine Aubin, and "Three Latin American Dances" composed by Gabriela Lena Frank.



UI to investigate poten tial cancer cluster

More than a dozen teachers have been diagnosed with breast cancer in Hudson, Iowa, within the last decade.



growing

lowa scored two fourth-quarter touchdowns in its 27-14 loss to No. 4 Michigan on Saturday.



PHOTOS: Hawkeyes' wings clipped

The Hawkeyes fell to the Wolverines on Saturday. Iowa's over-

all win-loss record is now 3-2.

ONLINE



schools announce semifinalists for National **Merit scholarship**

Nearly three dozen students from the school district were designated as semifinalists, with students from Iowa City High School, Liberty High School, and lowa City West High School receiving the designation.



The James Theater to show one-man adaptation

of 'Beowulf' Beowulf ran from Sept. 30 to Oct. 1 at the James Theater, capturing the essence of the original tale in Charlie Bethel's one-man adaptation. The legend of Beowulf is over a thousand years old and details the journey of the hero, Beowulf, who slays the monster, Grendel, at the request of the King of Danes.



Watch for campus and city news, weather, and Hawkeye sports coverage at dailyiowan.com



UI lecturer to serve on U.S. Advisory Committee

The U.S. Electronic Tax Administration Advisory Committee hosts eight members who serve three-year terms and provide electronic security for taxpayers.

Grace Katzer **News Reporter**

A University of Iowa Tippie College of Business lecturer was recently selected to serve on the IRS's Electronic Tax Administration Advisory Committee.

Robert Gettemy will be one of eight new members

serving three-year terms on the committee, which promotes electronic filing of tax returns and advising solutions to combat identity theft and tax refund fraud.

John Lipold, chief of tax pro partnerships and advisory groups at the IRS, wrote in an email to The Daily Iowan that the Electronic Tax Administration Advisory Committee was established in 1998.

The IRS holds an "open season" for applications to committee membership, Lipold wrote.

'The IRS looks for members who can ably represent taxpayers and consumers, state tax administrators, tax software providers, financial firms and others involved or affected by electronic tax administration," he wrote.

Gettemy said a colleague recommended he apply for the position. He previously served as chief operating officer at the tax preparation company TaxAct, served as vice chair of the American Coalition of Taxpayer Rights, and was on the board of directors for the Council of Electronic Revenue Communication Advancement.

He said his recent acceptance to the Electronic Tax Administration Advisory Committee means a

TAX | Page 2

Ketamine therapy offered

Corridor Ketamine in Coralville offers a treatment alternative for depressive patients.



Johnny Jarnigan/The Daily Iowan

Colin Votzmever News Reporter

Corridor Ketamine in Coralville provides ketamine therapy as an alternative antidepressant to patients who suffer from treatment-resistant depression.

Workers at the clinic started administering ketamine as an alternative to traditional anti-

community for a safe and comfortable environment where patients can get the help they've been looking for after other

Corridor Ketamine mental health clinic is seen in Coralville, Iowa, on Sept. 28.

options have failed. According to Avesta Ketamine and Wellness, Yale studies in the 1990s found that ketamine can be used as an antidepressant because it prompts

depressants in July, citing the brain to form neural treating major depression patient to develop more positive thoughts and be-

Additional studies in the early 2000s confirmed this finding, and ketamine use in the mental health industry has since rapidly expanded. The Federal Drug Administration approved esketamine in 2019, a drug used for

a need in the psychiatry connections, allowing the that is commonly known by the brand name Spravato.

> Corridor Ketamine co-owner Trent Sassman said the facility provides Spravato, which is administered through the nose, and as IV ketamine, which is infused over a period while the patient is monitored.

Sassman said both methods are provided only for treatment-resistant depression because the most evidence supports that use. Ketamine therapy provides almost

immediate relief, he said. ʿIt's also nice in that traditional antidepressants can typically take several weeks to months before you start seeing

KETAMINE | Page 2

Ul student enjoys college cancer free

First-year Isabelle Ireland is in remission after battling cancer since her junior year of high school.



Matt Sindt/The Daily Iowan

Isabelle Ireland poses for a portrait on the Old Capital on Sept. 29.

Isabelle Foland News Reporter

After eight months of cancer treatment at the University of Iowa Stead

Family Children's Hospital, Isabelle Ireland returned to Iowa City — this time as a

student in remission. Days before her junior year of high school began

in August 2020, Isabelle was diagnosed with small cell carcinoma of the ovary, hypercalcemic type. This form of cancer is very rare and must be treated quickly and aggressively.

Isabelle said she first noticed something was off in July 2020 when she went into surgery to have a painful bunion removed from her foot.

"After surgery, I just did not bounce back," Isabelle said. "I was super lethargic, I would get sick whenever I ate, and just like things that wouldn't be related to having surgery. Just very strange.'

Isabelle said she returned to the hospital for testing, which is when doctors discovered her calcium levels were extremely high. She was then admitted to the emergency room, and after further tests, she received her cancer diagnosis.

The treatment plan was aggressive and only had a small chance of being effective. After her tumor was surgically removed, Isabelle received treatment at the UI Stead Family Children's Hospital from September 2020 until May

In total, Isabelle received six rounds of six-drug chemotherapy, a stem cell transplant, and 25 rounds of radiation.

Isabelle's mother Karol Ireland said Isabelle never complained no matter what she went through

"Her demeanor, especially when she was at the hospital, was almost

REMISSION | Page 2

Tailgating takeover



Jerod Ringwald/The Daily Iowan

University of lowa second year Jensen Orr drinks from a beer funnel before a football game between lowa and No. 4 Michigan near the University Main Library in Iowa City on Oct. 1. The Hawkeyes and the Wolverines kicked off at 11 a.m. Orr thinks the final score will be Iowa, 23-20.

TAX **Continued from Front**

balance between the committee and continuing to be a full-time UI lecturer. Gettemy is a lecturer for the UI division of interdisciplinary programs and the John Pappajohn Entrepreneurial Center.

'We will have five meetings throughout the year, plus other teleconferences from time to time," he said. "We had our first meeting last week, and the final one will be in June, and then we will make a final report to Congress."

The committee will present its annual findings to the U.S. Congress in June 2023, and Gettemy will be one of the committee members in attendance.

'Some of the meetings are while we're off for Christmas break and others during the summer, so fortunately I should only miss a day or two per semester," he said.

said Gettemy he doesn't plan on canceling any classes because of committee meetings, so he will bring in guest speakers or one of his colleagues to cover the class while he is away.

Kay-Deck-Courtney er, a UI College of Law adjunct faculty member, is currently serving her third and final year on the Electronic Tax Administration Advisory Committee.

Kay-Decker is also of

tient that we take care of,

we require a referral from

their mental health pro-

vider if they're going to be

receiving Spravato, or their

primary care provider if

counsel at Lane and Waterman LLP and previously served as director of the Iowa Department of Revenue from 2011 until 2019. Last year, she was the chair of the Electronic Tax Administration Advi-

Having a background in law has informed her role on the committee, Kay-Decker said.

sory Committee.

The basis of everything that you do in tax is either interpretation of the law or interpretation of regulations," she said. 'You need to understand not only the laws and regulations, but then how administratively the process works."

Kay-Decker teaches a state and local tax class at the UI College of Law in addition to working as a full-time tax lawyer and an Electronic Tax Administration Advisory Committee member.

She said she looks forward to working with Gettemy at committee meetings.

"Last week, we all got together in D.C. for our training kickoff meeting for the new report year, she said. "The committee tends to work in small groups on topics they're assigned to by the chair, so professor Gettemy and I will certainly have the opportunity to work together."

Terry Lemons, communications and liaison chief at the IRS, commented on the committee in an email to the DI.

The Daily Iowan

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"This is an important advisory committee for the IRS and taxpayers, and we've been very fortunate to have a number of Iowans add their talents to this effort through the years," he wrote.

"Dr. Gettemy and Ms. Kay-Decker bring important perspectives to the group, and we appreciate their willingness to serve as committee members."

grace-katzer@uiowa.edu

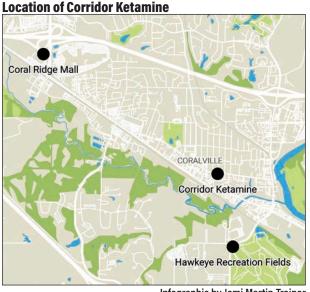
KETAMINE

Continued from Front

a positive benefit from them," Sassman said. 'Ketamine, if it's going to work for you, tends to function much faster so that patients don't have that lag time between starting treatment and starting to feel better.'

To provide Spravato, the facility is certified under the FDA's Risk Evaluation and Mitigation Strategy program. They also work with insurance companies

they're going to be receiv-



Infographic by Jami Martin-Trainor

to get credentials with loing IV ketamine," Sassman cal carriers. said. "These providers have Sassman said he and his long-standing relationco-owner Beth Westerships with these patients mann are nurse anestheand have a lot more insight into their life that we tists, not mental health care providers, so they might not necessarily have, strive very hard to work so we work very diligently collaboratively with proto strengthen those relationships as a collaborative viders. [For] every single paeffort to help provide this

> care to the patient.' Sassman said Corridor Ketamine's goal is to increase access to care.

"IV care can be very cost-prohibitive to a lot of patients, so we have taken on providing Spravato, which is insurance-reimbursable," Sassman said. "There's quite a backlog of patients that are seeking this service but previously have been unable to receive it in close proximity

to home." Sassman said opened Corridor Ketamine because of the high health care costs for treating depression and because depression's prevalence as a mental health issue is

starting to be recognized. "There's always that desire to feel good in general and not feel those depressive symptoms," Sassman said. "We definitely feel like Spravato could potentially help get people back to feeling normal and not having the depressive cloud sitting over top of them throughout their

Sassman said there is a stigma that ketamine is a street drug that can be used inappropriately, which is why the treatment needs to be provided in a monitored environment like the one at Corridor Ketamine.

"Ketamine, when it's used in an appropriate setting by a qualified healthcare provider, can be a very effective drug in bringing benefit to patients," Sassman said. "[We're] making sure it's not going to be another opioid crisis or anything and that it is yielding positive benefits."

Johnson Sam Jarvis, County Public Health community health manager, wrote in an email statement to The Daily Iowan that Johnson County Public Health has minimal insight into the use or demand of therapeutic ket-

"We do not permit or regulate that at the local level," Jarvis stated. "[I] imagine, like other medical practices, it's on the provider to be licensed, credentialed, et cetera to perform."

Ketamine therapy, however, is offered at the University of Iowa.

Mark Niciu, UI assistant professor of psychiatry, does research and clinical works with ketamine. He is a physician at the UI Hospitals and Clinics interventional psychiatry service where ketamine is one of the therapies offered.

Niciu said ketamine therapy in Iowa began in Cedar Rapids and Des Moines but is now offered at Midwest Ketafusion in Iowa City and Corridor Ketamine in Coralville.

'I can guarantee there's a handful of people who are doing it now, and it wasn't like that when I started here," Niciu said. "It definitely got more popular all throughout the country."

Niciu said providing ketamine therapy swiftly is crucial, especially for patients with suicidal

thoughts. "A lot of cases might

have suicidal thinking," Niciu said. "We want more rapid treatments in those patients for certain."

"It's nice to be in a place

where something's always

going on, and if one thing

doesn't work out, I can

always join something

else," Isabelle said. "There's

just so much to learn here

and so much to experience,

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and it never ends."

As facilities like Corridor Ketamine continue to rise across the country, Niciu said oral ketamine and ketamine-like compounds are the next steps for ketamine therapy because they can be taken at home and reduce antidepressant side effects and

risk of addiction. I'm glad there's more interest in the field, and I think the biggest advance that I've seen in twenty years practicing psychiatry is the approval of Sprayato," Niciu said. "I think it's a really groundbreaking approval for novel antidepressants, so it's an exciting time to be in psychia-

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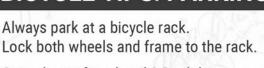
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BICYCLE TIPS: PARKING

Lock both wheels and frame to the rack.

Going home for a break? Don't leave your bike for an extended period of time. Take your bike home or donate it.







REMISSION **Continued from Front**

just, 'Okay, just get it over with, just do it,'" Karol said. "... [The doctors] said she was probably one of the most — and granted she was older than a lot of those kids out there — but one of

the most positive patients that they've ever had." her Isabelle credits

Isabelle Ireland poses for a portrait on the Old Capital on Sept. 29.

mother, her community, and her school for helping her persevere through the difficult time. Isabelle grew up in Sigourney, Iowa, a small town about one hour away from Iowa City.

Shannon Webb, Isabelle's high school principal at Sigourney Junior/Senior High School, said Isabelle's teachers granted her leniency on assignment

sick, Webb said.

Webb said community held several fundraising events for Isabelle and her family,

including a silent auction

Matt Sindt/The Daily Iowan

deadlines while she was in the hospital.

Isabelle felt determined to get the credits necessary to graduate, and she worked on schoolwork even when she was very

and a bags tournament. "I can remember one

day when she finally came home from her [treatment], the fire trucks led her through town and the whole school went over to her yard, and we sang and everything else to her and had the band come," Webb "We did whatever said. we could to make her feel good."

Isabelle said proximity to the UI while growing up made her decision to become a Hawkeye an obvious one. She said the UI was the only college she toured and applied to.

"I have pictures of me like 6 years old in the Hawkeye cheerleading outfit," Isabelle said. "So, it just was never a doubt in my mind that I want to go here."

Isabelle is majoring in communications. She is involved in the Salt Co. church group and has an office job at the Carver College of Medicine for the Office of Student Affairs and Curriculum.

thing Isabelle enjoys most about being in college, she said, is the in a small town.

change of pace from living

The

UIHC nurses protest overwhelming patient-to-nurse ratios

Nurses gathered outside the hospital on Sept. 29, expressing concerns about quality of patient care.

Emily Nyberg News Reporter

University of Health Clinic nurses protested outside the hospital on Sept. 29 amid concerns about nurse-to-patient ratios and the quality of care provided if they care for too many patients.

Across the country, nurses are quitting their jobs, largely due to burnout and feeling overwhelmed. UIHC currently has an estimated 350 job openings for nursing at the hospital.

Ashley Lynn, a nurse in the cardiac unit at UIHC, said nurses care for three to four patients a day, but the number is about to go

"When I first started here, it was three per nurse, which was sometimes up to four, but that was okay. And now we're like, pretty normalized. Everybody has four," she said. "And then now they're telling us that we're going to have to take a fifth patient.'

Lynn said nurses are not able to provide patients with the quality of care they deserve when they have too many patients in their caseload.

"This was organized because we all really care about the quality of care that we give to our patients, and we don't want our patients to be affected by the poor planning of the administrators not staffing us correctly," she said.

Grace Loomis, a UIHC nurse in the intensity and



Jerod Ringwald/The Daily Iowan Protesters converse during a protest for nurse-to-patient ratios on Hawkins Drive outside the University of Iowa Hospital and Clinic in Iowa City on Sept. 29. About 20 protesters gathered to express concern over rising ratios.

special services unit, said caring for a surplus of patients takes a toll on her mental health because she feels like she can not adequately care for all of her patients.

'You just want to do everything you can for these patients. You think of them as your own, like you treat them as you would the care you would for your family. And when you're not able to do that you just go home feeling guilty," Loomis said. "It's

kind of just like, 'Hi, here's your meds, gotta go.'

Loomis said the ratio of nurses to patients is also a risk for patient safety. When they are overloaded with patients, they can not respond efficiently to concerns.

"How are we supposed to respond to our patients or fall risks?" she said. "Or, when we don't have the staff on the floor, to hear the bed alarms, to hear the PMU alarms, to respond to the alarms that are supposed to be in place to keep our patients

Loomis said the solution to the overwhelming nurse-to-patient ratio is to put a cap on how many patients a nurse can take on in a day.

"I like the idea of having a mandate on safe staffing ratios," she said. "I know like California has laws against it that you were only allowed this many patients because quality care comes from safe staffing."

In an email statement to The Daily Iowan, UIHC spokesperson Laura Shoemaker wrote that the hospital is not ignoring nurse's concerns.

"University of Iowa Health Care is committed and always will be — to providing safe, high-quality care. This means having a team of staff who care for patients in a safe, supportive work environment,' she wrote.

The hospital is working to alleviate the caseload

of nurses at UIHC with travel nurses. However, with unpredictable patient numbers, it is hard to ensure consistency for staff,

Shoemaker wrote. "Hospital staffing needs can change quickly based on the number of patients and their level of acuity [severity of illness]." she wrote. "Travel nurses are another strategy used to supplement regular workforce - not only to fill open roles, but to support staff."

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UI symphony orchestra showcases range

The University of Iowa's symphony orchestra's first performance of the year plays a diverse range of music.

Ellie Heeren Arts Reporter

The Voxman Music Building's concert hall filled with excitement on Sept. 30 as attendees anticipated the start of the University of Iowa's first symphony orchestra performance of the year. Music swelled as performers warmed up, preparing to present audience members with a diverse musical line-

UI Director of Orchestral Studies Mélisse Brunet said she tried to further the value of diversity with the performance.

"I'm bringing a lot more underrepresented composers to the stage so there is a good mix of big classical masterpieces but also new pieces," Brunet said. "There are three pieces, and two of them are written by women, which is very seldom to have women composers."

The first piece was "Totenfeier" by Gustav Mahler. It was packed with emotions ranging from angry, in-your-face rhythms to softer, sweeter melodies. Brunet orchestrated her students with care during the piece.

Brunet hoped her students expressed their emotions through the music

and included the audience in this emotional journey.

certo for Horn and Orchestra" composed by Francine Aubin, had horn soloist Kate Ambrose play alongside the students and faculty of the symphony. This piece sounded more classical and joyful.

Ambrose played her challenging solo with ease. She thought including a diverse ensemble was immensely important

poser population represented means that you're going to appeal to more people, and that's really what we should be doing in academia," Ambrose said. "Making sure that we're representing the experiences of all our students and not only a hand-picked few."

The last piece, "Three over the audience.

Diversity stood out as a theme during the concert and in conversations with Brunet and Ambrose.

'We should represent

The second piece, "Con-

and forward-thinking. "A more diverse com-

Latin American Dances" composed by Gabriela Lena Frank, told a story about the deity of weather. Metal sheets imitated the sound of thunder and lightning, and the echoing cellos cast an intense spell



Matt Sindt/The Daily Iowan

The UI Symphony Orchestra, led by Dr. Mélisse Brunet, plays in the Voxman Concert Hall on Sept. 30.

everyone and not only represent the music of the classical period or the music of the romantic period, but we should be representing the music written by our own composers, by our own students, and our own faculty," Ambrose said. "We should be living in the present of music."

After the concert, UI sec-

ond-year student Andrea Lee said the performance met her expectations.

"I thought it [the performance] was really good. I really liked the three Latin

American dances because it was very vibrant, and there were a lot of things going on," Lee said.

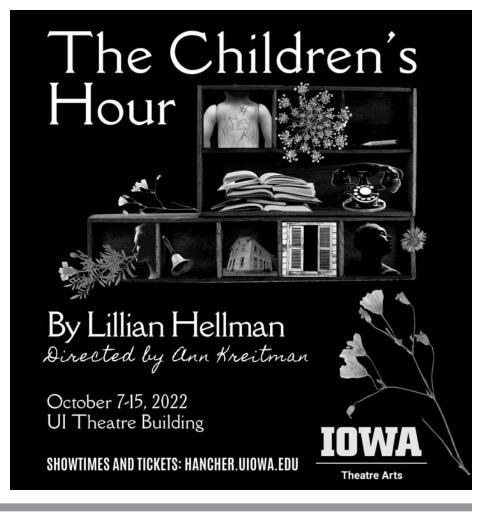
elizabeth-heeren@uiowa.edu

Do you or someone you know **still** experience neuropathy in their hands or feet after finishing chemotherapy within

the past 15 months? Cancer survivors with persistent chemotherapy-induced peripheral neuropathy (CIPN) have an opportunity to participate in a study to determine if the numbness, tingling or shooting pain of CIPN can be alleviated by a form of vitamin B3. Participants will interact with oncologists and neurologists during 8 visits over the course of 6 months to the Holden Comprehensive Cancer Center at the University of Iowa Hospitals and Clinics. Participants will be compensated for their participation and can be receiving their primary and cancer healthcare anywhere.

Interested individuals may contact Spenser Pfannenstiel B.S. at spfannenstiel@uiowa.edu or 319-384-4481 for more information.





Opinions Disney needs people of color in films

Disney's new adaptation of "The Little Mermaid" brings waves of admiration and excitement throughout Black and Brown communities.

Naomia Rivera Morales Opinions Contributor

Disney released a teaser trailer for the live-action adaptation of "The Little Mermaid" on Sept. 9." This new adaptation of Disney's 1989 film stars Halle Bailey as Ariel.

Many people are upset Disney cast a person of color in the film. However, as a person of color myself, I find this inclusion fulfilling and encouraging for Black and Brown communities.

This first trailer showcases Ariel swimming through the ocean with a long, green tail and flowing, red dreadlocs. Soon after, she begins to sing "Part of Your World."

Ever since Disney released this trailer, there has been backlash against Halle Bailey's role in "The Little Mermaid." Many are upset with Disney's casting because Bailey is a Black woman — not a woman with pale skin and wavy red hair like in the animated version.

Because of this, some have taken to social media to express their thoughts. The hashtag #NotMyAriel has been viewed 14 million times on TikTok and seen across Twitter and Instagram.

However, Disney's casting for this film has also received praise and excitement. Positive reaction videos can be found on several social media platforms including Twitter, Facebook, TikTok, and Instagram.

In these videos, we see young Black children with a mixture of shock

and admiration on their faces. The first thing they notice when watching this teaser trailer is the similarity in skin tone and/or hair texture. They see themselves in Ariel's character.

As many of us know, there are few Disney

believe in themselves. They will feel like they are worth being acknowledged, leading them to feel a sense of belonging in our world.

In an interview with Variety, Bailey spoke about the support she received from family

You don't understand what this is doing for us, for our community, for all the little Black and Brown girls who are going to see themselves in you."

- Halle Bailey, who plays Ariel in the "The Mermaid"

princesses of color. These princesses include Tiana, Pocahontas, Moana, Mulan, Jasminem, and now Ariel from the new adaptation. A few of these princesses have also been voiced by white women.

Having princesses of color can make younger audiences feel like they are a part of this world. Quite often, there are children of color that feel as though they do not belong. There is a barrier that is placed in front of them when it comes to the media and the real world.

Growing up, I did not get the chance to see many princesses of color. Though I was a fan of Disney's princesses, I was never given the chance to truly see myself in one.

Being given the opportunity to see oneself in a film is huge, especially for young children. It is important for children to see themselves in the characters they admire or hope to be like.

Through representation, children are given the chance to not only see themselves but to

during times of backlash. Her grandparents, especially, offered encouragement, telling her, "You don't understand what this is doing for us, for our community, for all the little Black and Brown girls who are going to see themselves in you," Bailey said in the interview.

Following this, Bailey mentioned how her younger self would've felt a sense of belonging and confidence if the 1989 film had a Black Ariel.

"What that would have done for me, how that would have changed my confidence, my belief in myself, everything," Bailey said. "Things that seem so small to everyone else, it's so big to us."

With Bailey's words and the reactions of many Black children throughout the world, we see the importance of representing those that don't often get the light.

This is a big moment. This celebration should be loud and proud.

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Dan MacMadan/USAS Tod

March 27, Los Angeles, CA, USA; Halle Bailey arrives at the 94th Academy Awards at Dolby Theatre.

THE DOC IS IN

The ingredients in toothpaste and what they mean

When buying toothpaste at the grocery store, understanding what each ingredient is and does can be challenging.

For many people, oral health means brushing, flossing, and visiting the dentist twice a year. However, using the right toothpaste is important for your oral health as well.

It can be overwhelming to choose a toothpaste with so many options available, but understanding the ingredient list can help you decide which one will best serve your needs.

What toothpastes should you consider?

The American Dental Association promotes the safety and efficacy of dental products through its Seal of Acceptance. Any product with the ADA Seal of Acceptance has undergone testing to prove its safety and efficacy according to the ADA requirements. Regardless of which product you chose, it is best to choose one with an ADA Seal of Acceptance.

What ingredients should you look for?

One of the most common tooth-related concerns are cavities. One study showed that 20 percent of adults in the U.S. have untreated cavities. Fluoride-containing toothpaste is proven to prevent cavities when compared to non-fluoride toothpaste.

There is also specific toothpaste for those with teeth sensitivity, which is temporary pain that occurs when eating, drinking, or brushing teeth. Potassium nitrate has been shown to reduce sensitivity. Persistent sensitivity and pain should be addressed with your dentist, who can prescribe higher-strength toothnaste.

Finally, for those struggling with gum disease, stannous fluoride has been proven to have a positive impact on gingivitis when compared to non-stannous fluoride toothpaste.

An additional factor to keep in mind when selecting toothpaste is whether the company makes a cosmetic or therapeutic claim. Toothpaste can be referred to as a "personal care product," which makes it a cosmetic. For reference, other items considered cosmetic include perfumes, lipsticks, and shampoos.

Toothpastes that are not considered drugs are not subject to the same rigorous premarket approval by the FDA. Keeping this in mind, it is important to determine if the claims made by cosmetic toothpaste are accurate. Although this can be difficult to determine at the grocery store, it can be determined at home with a little bit of research.

Abhigna Akurathi 2nd Year Dental Student

COLUMN

The robots won't take your jobs

Automation is not the job killer it is made out to be.



Shahab Khan Opinions Columnist

American workers should look forward to working with robots because this will increase economic productivity and open up a plethora of future employment opportuni-

Automation, or the idea that workers will be replaced by robots, has a dystopian connotation to it. Certain corners of the American workforce feel anxious that technological innovations in robotics will put workers out of employment.

In fact, even economists, such as the esteemed Darron Acemoglu, have published papers showing there is a correlation between robots being introduced in industry and depreciation in wages and the number of jobs within that industry

But as anyone who has taken an introduction to statistics class knows, correlation does not equal causation.

More recent empirical work has shown there is no causal link between automation and industrial decline. Instead, it is more likely that automation within an industry would cause increases in employment opportunities and wages in industries that are more

likely to adopt them.

In short, automation causes long-term economic growth, leading to workers gaining more employment opportunities and wage growth.

This maxim and the results of evidence can best be explained by economic theory. Particularly by the Solow-Swan model.

The Solow-Swan model postulates that for a country's economy to achieve long-term economic growth, that economy must constantly increase its savings and investment rates. This would lead to the capital stock of a country to climb, thus increasing economic growth.

To unpack this definition, savings and investment rates refer to how much disposable income households save or invest. Capital stock refers to the equipment and assets needed to produce a product.

The second and more important aspect of what the Solow-Swan model attempts to answer is how increasing the savings and investment rates would increase capital stock.

It is from here that the model concludes that an increase in savings and investments would allow for firms to make technological innovations. These technological innovations cause more capital stock to be produced and are more efficient than previous capital stock.

To bring this back to robots, the Solow-Swan model explains that an increase in automation would positively impact the growth of the capital stock. This leads to more employment opportunities and higher wages for the labor force.

When grocery stores and supermarkets began to introduce self-checkout stands, many labor activists were up in arms, arguing that these kiosks would eliminate the need for cashiers and thus eliminate millions of jobs.

The story that the labor activists told did not come to fruition. After years of self-checkout, it was found that the kiosks actually complemented the work human employees partook in, as it allowed them to partake in other

Furthermore, it led to firms paying their workers more in wages, seeing that they were able to increase their productivity.

This effect can also be seen in other countries such as South Korea and Germany. These countries have higher rates of automation compared to the U.S., and their economies are humming along just fine.

The real world is not science fiction. Robots will not take all of our jobs and force humans into destitution. Rather, like most instances of technological advancement, automation will improve the quality of life for most humans by facilitating the next wave of long-term economic growth.

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UI to investigate potential cancer cluster

More than a dozen teachers have been diagnosed with breast cancer in Hudson, Iowa schools in the last decade.

Emily Nyberg News Reporter

Diane Anderson, a retired teacher from Hudson Community School District in Hudson, Iowa, received a breast cancer diagnosis in

She is one of more than a dozen teachers from the district who have been diagnosed since 2012, according to an email sent to school district families by the school superintendent. Anderson said this news concerned her, so she brought her worries to Ashley Ezzio, the outreach and education coordinator at the Iowa Department of Health.

"I talked with someone at the state public health department, and then they referred me to Dr. Michele West at the University of Iowa," Anderson said, "She said, 'If we do a cancer cluster correlation investigation, what we need to do is present this to the superintendent."

After being put in contact with researchers at the Iowa Cancer Registry at the UI, Anderson went to Anthony Voss, superintendent of **Hudson Community School** District. Carol Murphy, a current teacher in the district who also has breast cancer, went with Ander-

"We brought along two other teachers to meet with Dr. Voss, the superintendent, representing other teachers that have not had

Location of Hudson, Iowa



Lillie Hawker/ The Daily Iowan

Professor Mary Charlton poses for a portrait in a lab at the State Health Registry of Iowa in Iowa City on Sept. 30.

a number of questions. We

breast cancer but are very concerned because of the large number of people that

In an email statement to The Daily Iowan, Voss wrote the district is aware of the concerns but does not want staff members and families to worry.

have," Anderson said.

"It is my responsibility to take employee concerns seriously. I shared this information with our staff and families on Friday," he said, "Today [Sept. 27], I met with the Cancer Registry. The meeting went well, and I had the opportunity to ask

also discussed the statistical fact that about 13 percent of women will develop breast cancer in their lives. Voss wrote it is possible the number of cases in Hudson schools are within

the statistical margins for cases in the population. The district is working with its legal team to decide how to share staff information with the Iowa Cancer Registry so UI researchers can examine the situation. "At this time, we are dis-

cussing the data set they will need and how best I can provide it to them without violating any employee

confidentiality laws," he

Mary Charlton, an associate professor of epidemiology at the UI College of Public Health and the director and principal investigator at the Iowa Cancer contributing to breast cancer cases is difficult, Charlton said. 'Being educated or of

environmental factors are

higher socioeconomic status is actually a risk factor for [breast cancer], and

that's because people with

college education or be-

yond tend to have kids later

in life, and having kids lat-

er in life is a risk factor for

breast cancer," she said. "So,

it's possible that there is no

source causing the cancer in

So, it's possible that there is no source causing the cancer in the school, but they all have these similar risk factors."

> - Mary Charlton, a UI College of Public Health associate professor of epidemiology

Registry, will be leading the investigation.

Charlton will investigate whether endocrine-disrupting chemicals are located in the schools. These chemicals have a history of causing cancer and can be found in plastic, cleaners, and personal care products.

the school, but they all have these similar risk factors." The investigation into whether

once employee information is provided to the researchers, Charlton said. "When it's a worksite

the cancer cluster will start

population, it's a little bit less straightforward," she said. "Hudson School District will have to tell us a roster of their employees back several years.' The relative prevalence of breast cancer in women

makes it difficult to prove the existence of a cancer cluster, Charlton said. No matter the result of the investigation into this potential cluster, she said, the research will provide valuable insight into breast cancer. "Even if we can't find an

environmental source or common source, we always learn something through these investigations that we can share back with the community," she said.

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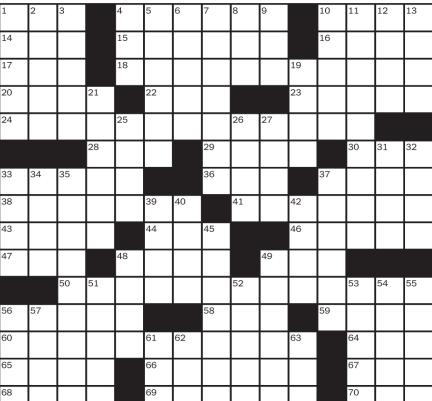
Determining

Infographic by Jami Martin-Trainor

The New York Times

Crossword

Edited by Will Shortz No. 0829



Across

- Gadot of "Wonder Woman"
- 4 Annoying reflections while driving
- 10 Nasty cut Max (popular streaming service) 14
- 15 Red root vegetable 16 Well-qualified
- 17 "Well, look at that!"
- 18 Environment that reinforces one's biases 20 Seating that can be L-shaped
- 22 Young 'un
- 23 Does some gardening work 24 Major thoroughfare
- 28 Video camera button
- 29 Bungee jumper's attachment
- 30 Bread for a pastrami sandwich 33 Skedaddle
- 36 Excessively
- 37 Joint ailment
- 38 With 41-Across, classic love song suggested by the ends to 18-, 24-, 50-
- and 60-Across
- 41 See 38-Across 43 Utah ski town

- 44 "2001: A Space Odyssey" villain 46 Home to more than 350 million
- vegetarians
- 47 "For sure"
- 48 Two-liter bottle contents, often 49 Wrath 50 "Similarly ..."

56 Clarinetist Shaw

- 58 Corp. money overseer 59 Does some mental math
- 60 Precautionary device in a pneumatic
- machine 64 Home project inits.
- 65 Newspaper covering Congress, with "The"
- 66 Filled French pastry
- 67 Positive or negative particle 68 Big name in ice cream
- 69 Inquiry for a lost package
- 70 And so on: Abbr.

- 1 Blinky, Pinky, Inky or Clyde, in Pac-Man
- Hate, hate, hate
- Scrubber in the tub
- Test for some coll. seniors
- Obtained from milk
- For a single purpose, as a committee
- It's "read" to an unruly crowd Top-left keyboard key
- "Quiet!"
- 10 Esports competitor Beatles album whose cover shows the
- band using a crosswalk
- Snow day conveyance
- That woman's Wonderstruck

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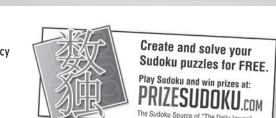
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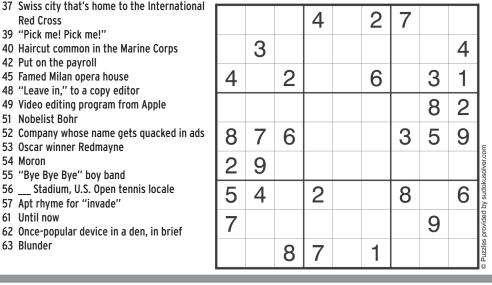
- Kilimanjaro is its highest point 25 Big party 26 Word after elbow, escape and emergency
- 27 Helen of _
- Gagarin, first person in space
- 32 James who sang "Tell Mama" 33 Fix, as a pet
- 34 Heap
- 35 Doesn't hold back one's emotions 37 Swiss city that's home to the International
- Red Cross
- 39 "Pick me! Pick me!"
- 40 Haircut common in the Marine Corps 42 Put on the payroll
- 45 Famed Milan opera house 48 "Leave in," to a copy editor
- 49 Video editing program from Apple 51 Nobelist Bohr
- 53 Oscar winner Redmayne
- 55 "Bye Bye Bye" boy band
- 57 Apt rhyme for "invade" 61 Until now
- 62 Once-popular device in a den, in brief

Stadium, U.S. Open tennis locale

63 Blunder









HAWKEYE UPDATES

Grades

Offense –



Iowa football didn't score any points against No. 4 Michigan until the fourth quarter on Saturday. The Hawkeyes mustered just 110 yards of total offense in the first three periods of their 27-14 loss to the Wolverines.

In the fourth quarter, however, the Hawkeyes somewhat managed to change the tone. Iowa found the end zone twice in four possessions and threatened to score on one other occasion.

With less than six minutes remaining in the game, lowa drove the ball to the Michigan 6-yard line. On fourth-and-2, the Hawkeyes opted to throw a short pass out to tight end Sam LaPorta, who failed to make the line to

Had the Hawkeyes picked up the first down and gone on to score a touchdown, they would've trailed by six points with two of their timeouts still available.

Senior quarterback Spencer Petras had his best game of the year, completing 11 of his 21 passes for 246 yards a touchdown. Petras posted a 145 quarterback rating and did not turn the ball over.

Ultimately, lowa's offense deserves a C- because its fourth-quarter burst was arguably the best it's been at any point this season.

The Hawkeyes should still have to take their share of lumps. Iowa only rushed for 35 yards and one touchdown as a team that brands itself as being run-first. The Hawkeyes also failed to score for the first three quarters of Saturday's game.

Offensive coordinator Brian Ferentz's decision to throw short of the line to gain to LaPorta on fourth-and-2 was also questionable, to put things nicely.





By no means did Iowa's defense cost the Hawkeyes the game this week. But defensive coordinator Phil Parker's group has certainly had better outings.

Coming into this Saturday's game. Iowa ranked sixth in the country in total defense, allowing about 236 yards and one touchdown per contest. The Wolverines racked up 327 yards and three

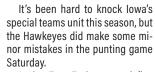
The Hawkeyes were also rated sixth nationally in run defense, letting up just 73 yards on the ground per game. Michigan picked up 172 yards and two touchdowns rushing at Kinnick Stadium.

The Hawkeyes also struggled to get off the field Saturday, as the Wolverines picked up 24 first downs. Michigan went 4-of-11 on third down and 1-of-1 on fourth down. On the game, the Wolverines earned 12 first downs without facing a third or fourth down situation the snap before.

Michigan put together two touchdown drives spanning more than 65 yards in length. Before the Wolverines hung 27 on them, the most points the Hawkeyes had surrendered in a game this season was 10.

Saturday's game was also the first Iowa failed to force a turnover in this season. The Hawkeves have amassed 11 turnovers in 2022.

Special teams —



Junior Tory Taylor punted five times totaling 241 yards, booting five balls over 50 yards. Though he didn't have many opportunities to do so, Taylor failed to down a single ball inside the 20-yard line.

Taylor's first punt of the game was downed at the Michigan 21yard line. His second bounced at the 1-yard line and rolled into the end zone.

Taylor's five punts on Saturday tied this season's record low. He also took the field five times when the Hawkeyes beat the Rutgers Scarlet Knights, 27-10, at SHI Stadium in New Jersey.

True freshman kicker Drew Stevens also converted both of his PATs this week. He's gone fourof-four on field goal attempts this

QUOTE OF THE DAY

"I try not to get distracted by things."

 Kirk Ferentz on Iowa's penalties throughout Saturday's game.

STAT OF THE DAY

- Total punting yards for Tory Taylor

through this season's five games.



Iowa quarterback Spencer Petras throws a pass during a football game between Iowa and No. 4 Michigan at Kinnick Stadium in Iowa City on Oct. 1.

Grace Smith/The Daily Iowan

FERENTZ **Continued from Page 8**

the ball down the field 20 yards ... it changes the complexion of everything

Hawkeye center Logan Jones was also called for

unnecessary roughness on what Ferentz thinks was a routine block — voiding a play that brought Iowa to Michigan's 2-yard line.

'That happened to be where the defender was, and he's finishing the play, and that's something we really emphasize and

teach," Ferentz said. "I'm a little perplexed by that one, and I don't know when you're supposed to know when to stop if your opponent is still going. It's a little confusing.

Iowa was called for six major penalties throughout the course of the game,

including an offensive pass interference on Arland Bruce, defensive pass interference on Sebastian Castro, and a personal foul on Ragaini.

To have six major penalties, that's kind of uncharacteristic," Ferentz said. "Maybe we were overwhelmed talent-wise or maybe our guys are that sloppy. It didn't feel that way from the sideline. It is what it is. But it impacted the game, and we weren't good enough to overcome

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Grace Smith/The Daily Iowan

Michigan running back Blake Corum scores a touchdown during a football game between lowa and No. 4 Michigan at Kinnick Stadium in Iowa City on Oct. 1. Corum took 29 carries for 133 yards and a touchdown. The Wolverines defeated the Hawkeyes, 27-14.

IOWA **Continued from Page 8**

"You know, we're a work in progress," Iowa head coach Kirk Ferentz said Saturday. "I'm not discouraged by our guys. In fact, I'm encouraged by some of the things I'm seeing. But we're going to have to keep moving and obviously have to get better. We're not going to win a game scoring seven points."

While the Hawkeyes do fall short of the Golden Gophers, Boilermakers, and Fighting Illini on offense, I'm not willing to declare them unfit to win

the Big Ten West. Since its atrocious start to the season, Iowa's offense has gradually improved in each. In its last three games, Iowa has produced 298 yards and two touchdowns per outing. The Hawkeyes managed just 316 yards and one touchdown in their first two games combined.

The early hole Iowa dug itself will likely create a somewhat inaccurate reflection of what the Hawkeyes' offense has been of late. Still, Iowa has faced two top-10 defenses in each of its last two matchups. In those games, the Hawkeyes have gener-

ated 279 yards, on average. Iowa gained 281 yards two touchdowns against a Michigan defense that ranked eighth in the country on Saturday. The Wolverines only allowed about 245 yards a game in the first four weeks of the season — albeit they played against putrid opponents like UConn, Hawaii, Maryland,

and Colorado State.

Still, Iowa exceeded the yardage total most teams were putting up against Michigan. And Petras had his best game of the year so far, completing 21 of his 31 attempts for 246 yards and touchdown. Petras' quarterback rating was 145, and he did not turn the ball over.

Will that kind of offensive output be enough to win the West? That remains to be seen, but the Hawkeyes will probably need to get better on of-

fense to win their division. But for the first time since its six-game win streak in 2021, Iowa has made some visible strides on the offensive side of the ball. The Hawkeyes are trending up, offensively. The two questions remaining for Iowa are: How quickly can the offense improve, and how good

can it actually get? Some pause for concern with Iowa's defense may be warranted after Saturday's game. Though not enough to think it will inhibit the Hawkeyes' ability

to win the West. Iowa's defense entered its bout with the Wolverines ranked sixth in the country, allowing just over 236 yards and less than one touchdown per game. Michigan racked up 327 yards and three touchdowns on Saturday. In the Hawkeyes' defense, the Wolverines came into the game averaging nearly 500 yards and six touchdowns per game on offense.

The most eye-popping stat of Saturday's contest, however, was how helpless the Hawkeyes were against the run. Michigan picked up 172 yards and

two touchdowns on the ground. Iowa's rush defense, which was formerly ranked sixth in the nation, let up just 73 yards per game in its first four con-

I expect Iowa's defensive performance to be more of an anomaly than a new standard. The Hawkeyes didn't really perform too poorly against

the Wolverines' offense.

The problem for Iowa is, its defense will likely need to be perfect for it to win games this season, no matter how much growth its offense makes. An average defensive performance won't translate to victories for the Hawkeyes

We'll know a lot more about Iowa's odds to win

it's division after it's first game against a West team next week. At this point, it appears the Hawkeyes' matchup with the Fighting Illini at Memorial Stadium in Champaign will go a long way in terms of shaping the West division standings for the rest of the season.

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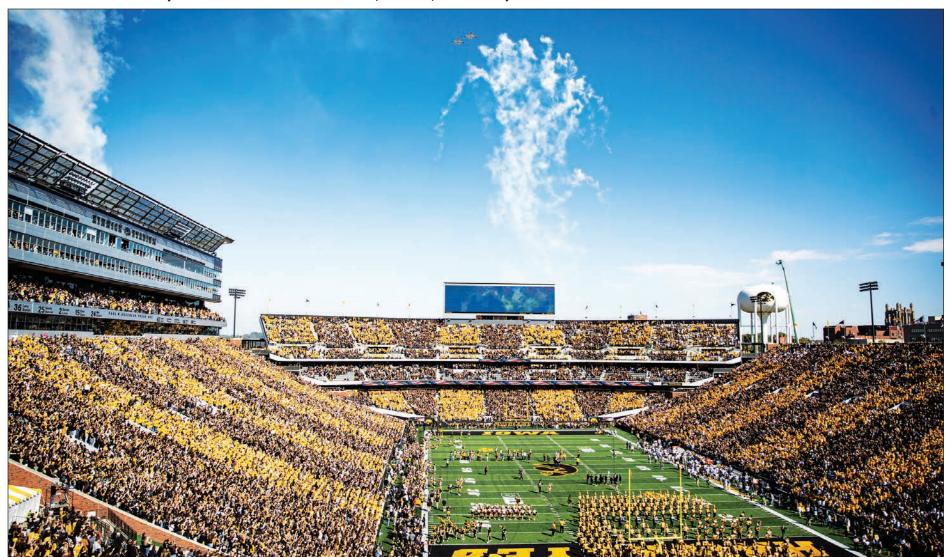
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PRÉGAME

Hawkeyes' wings clipped

The Hawkeyes fell to the Wolverines, 27-14, Saturday afternoon. Iowa's overall record is now 3-2.



Planes fly over the field during a football game between lowa and No. 4 Michigan at Kinnick Stadium in Iowa City on Oct. 1.

Jerod Ringwald/ The Daily Iowan



Jerod Ringwald/ The Daily Iowan Michigan wide receiver Ronnie Bell scores a touchdown during a football game between Iowa and No. 4 Michigan at Kinnick Stadium in Iowa City on Oct. 1. Bell rushed for 26 yards and a touchdown.



Grace Smith/ The Daily Iowar Michigan defensive lineman Taylor Upshaw grabs Iowa quarterback Spencer Petras during the football game. Petras was sacked four times, causing the Iowa offense to Iose 31 yards.



Grace Smith/ The Daily Iowan Michigan wide receiver Andrel Anthony catches a touchdown during the football game. Anthony caught one pass for 29 yards and a touchdown.



Grace Smith/ The Daily Iowan lowa wide receiver Nico Ragaini lunges for the goal line during the football game. Ragaini and the offense celebrated the play as a touchdown before refs signaled Ragaini had stepped out of bounds.



lowa offensive coordinator Brian Ferentz communicates with an official after lowa celebrated a touchdown that was called back during the football game. Iowa wide receiver Nico Ragaini ran a pass for 29 yards to the 1-yard line.



Grace Smith/ The Daily Iowan

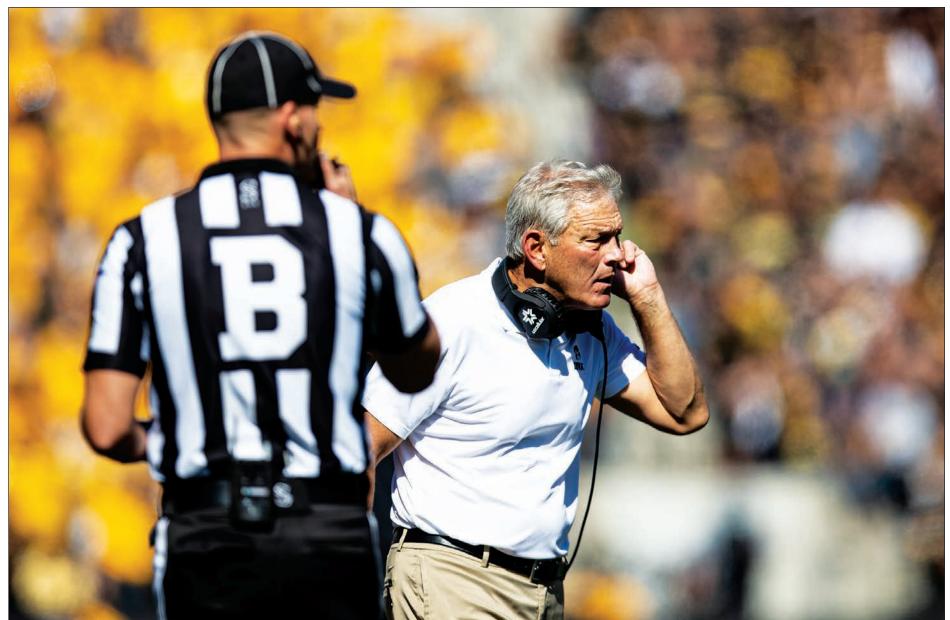
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Michigan - 27 Iowa - 14

Ferentz sees offense growing

Iowa scored two fourth-quarter touchdowns in its 27-14 loss to No. 4 Michigan on Saturday at Kinnick Stadium.



Jerod Ringwald/ The Daily Iowan lowa head coach Kirk Ferentz moves to discuss a call with officials during a football game between lowa and No. 4 Michigan at Kinnick Stadium in lowa City on Oct. 1. The Wolverines defeated the Hawkeyes, 27-14.

Chloe Peterson Sports Editor

Iowa football head coach Kirk Ferentz saw improvement from his offense on Saturday despite the Hawkeyes' 27-14 loss to No. 4 Michigan.

"As crazy as it may sound, from where I stood, I thought our guys played hard and I saw some growth in our football team," Ferentz said postgame. "Time will tell."

Iowa finished the game with 281 yards of total offense and two touchdowns. Iowa quarterback Spencer Petras had his best passing game of the year, going 21of-31 for 246 yards and one touchdown. He also posted a 145 passer rating.

Most of the Hawkeyes' progress came in the fourth quarter when Iowa scored all 14 of its points. Iowa put together a 7-play, 44yard touchdown drive that ended with a 2-yard rush from true freshman Kaleb Johnson in the opening play of the fourth quarter.

The Hawkeyes also scored on their final drive of the game. Sophomore tight end Luke Lachey found the end zone on a 5-yard pass from Petras,

capping off a 75-yard drive. I think we're coming together," Lachey said postgame. "We have bet-

ter chemistry there, and

I think we're just following the plan of what the scheme has set for us. So, we iust have to go and execute. We have to do that in the first half as well."

> Between the fourth-quarter touchdowns, Iowa turned the ball over on downs two consecutive times.

> With five minutes left in the fourth quarter, Iowa was five yards away from the Wolverine end zone. But the Hawkeyes failed to convert a fourth-and-2 play when Petras threw a 1-yard pass to tight end Sam LaPorta, who was immediately tackled short of

> the sticks. "It was cover zero," Pet

ras said postgame. "We ran a sprint play that we liked. I think that certainly was a throw there. I think I kind of pulled up just feeling the contain guy, which, especially in that situation, the thing I can't do is do that. I have to wear that one, and I didn't. I pulled up; location was low. I didn't give Sam a chance. It sucks, but

I got to do better." Iowa's second turnover on downs came when Petras was sacked twice in three plays. On fourthand-28 deep in Iowa territory, Petras was nearly sacked again. He got the ball out of his hands for an incomplete pass.

Despite Iowa's miscues

in the final quarter, senior wide receiver Nico Ragaini is optimistic about Iowa's offense.

"I thought that was the best we've looked this season," Ragaini said of the Hawkeyes' fourth-quarter performance. "So, as the season goes on, good teams continue to get better. We're 3-2 right now, but the season's not over and our goals are still there. So, we just gotta push forward and continue to grow every single day."

Iowa's offensive performance in the first 45 minutes of the game, however, was uninspiring. The Hawkeyes scrounged up just 110 total offensive yards and no touchdowns in the first three quarters.

But Ferentz thinks two nearly back-to-back penalties on Iowa's offensive linemen in the second quarter hampered the Hawkeyes' momentum.

Johnson had two rushes over 20 yards in the second quarter, but both were called back because of a holding penalty on redshirt freshman Gennings Dunker and a clipping violation on sophomore Connor Col-

by.
"It looked like a pretty clean play and we gained 20, 25 yards," Ferentz said. "So, you go from moving

FERENTZ | Page 6

COLUMN

Iowa, B1G West are a mess

The 1-1 Hawkeyes are currently part of a six-way tie for first place in their division.



Austin Hanson Pregame Editor

The Big Ten West is already a dumpster fire, and its teams have only played two league opponents each.

As of right now, six teams are tied for the division lead with 1-1 league records. Wisconsin, the team that has won the West four times since 2014, is currently 0-2. The Badgers lost to the Ohio State Buckeyes in Week 4, which is understandable. This week, Wisconsin fell to Illinois, 34-10, at Camp Randall Stadium in Madison - which was unexpected, to say the least.

While Illinois was drubbing Wisconsin, No. Michigan beat Iowa, 27-14. The Hawkeyes are now 3-2 overall.

Iowa has been a bit of a mess in 2022, but that doesn't make it different from any of its divisional foes. Technically, Iowa is tied for the West division lead. No ties at the top can be broken because the Hawkeyes haven't played any of their West brethren yet.

If the West had a bouncer, the Hawkeyes could easily get past it. The only things that seem to be required to compete in the division are good special teams and defensive units, so Iowa fits right in.

Counting sixth-rated Iowa, three of the six teams tied for the division lead ranked inside the top 10 in the nation in total defense after Week 4. Minnesota and Illinois were rated first and fourth, respectively, and Purdue was ranked 29th.

Given how well the Hawkeyes have played defensively and on special teams this season, I think they'll be competitive in the race for the Big Ten West crown. To put it simply, West teams are going to make under bettors very happy this season.

The separator between the likes of Iowa, Illinois, Minnesota, and Purdue will be their offenses. Illinois has one of the top rushers in the nation in junior Chase Brown. He's gained 733 yards on 120 carries this season — a 6.11 yards per carry average.

Minnesota's offense ranked third in the nation through four weeks



Grace Smith/ The Daily Iowan

lowa offensive coordinator Brian Ferentz talks with quarterback Spencer Petras before the offense took the field during a football game between Iowa and No. 4 Michigan at Kinnick Stadium in Iowa City on Oct. 1. The Iowa offense registered 16 first downs compared to Michigan's 24. The Wolverines defeated the Hawkeyes, 27-14.

of action. The Golden Gophers' featured running back, Mohamed Ibrahim, has racked up 670 yards and nine touchdowns on the ground this year.

Purdue has former Iowa wideout Charlie Jones at its disposal. He's caught 47 passes for 588 yards

and seven touchdowns in five games.

The Hawkeyes don't even have a signature weapon on offense this season. Currently, Iowa ranks last in the 131team FBS in total offense.

fense's top producer from yardage standpoint. He's thrown for 770 yards 154 a game — and two The Hawkeyes are avtouchdowns. Petras has eraging 269 yards and also been intercepted

just over one touchdown twice this season. per game on offense. Senior quarterback Spencer Petras is the Hawkeye of-

True freshman Kaleb Johnson, the Hawkeyes' leading rusher, picked up 206 yards on 31 attempts in 2022. He's gaining nearly seven yards a run.