

THE MSU
exponent

January 30, 2020

MONTANA STATE'S STUDENT NEWSPAPER SINCE 1895

SPORTS

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THE MSU exponent

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FLASHBULB

Professor Anthony Cook of Georgetown University lectures students on the life of Dr. Martin Luther King Jr. on the birthday of the civil rights icon. Cook's presentation emphasized community-building lessons derived from Dr. King's time in American history.

PHOTO BY MARIE STEIGER

INSTAGRAM OF THE WEEK



From @msuarchitecture:

“The countdown continues to MSU’s first-ever Giving Day—a special day to Show Some Love for the people, places and programs of Montana State! Here at the MSU School of Architecture we are asking for donations to fund the “net-zero” tiny home project. Make sure to mark your calendars for February 13-14! #MSUGivingDay #ShowSomeLove #MontanaState givingday.montana.edu.”

From @horrorcreated:

“I love my campus 🧡💛💚💙💜”



HEARD ON THE WEB

SIGNIFICANT FIGURES

Pittsburgh Steelers and New England Patriots have 6 Super Bowl wins, the most of any franchise

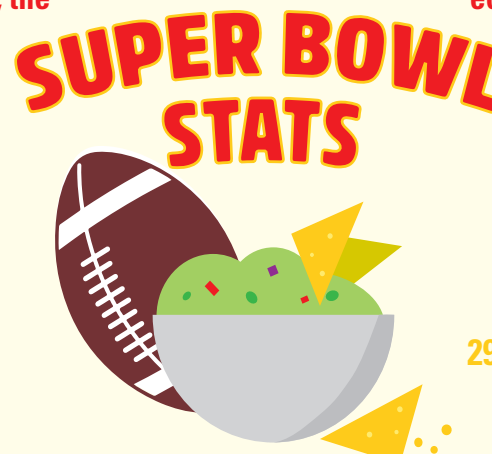
\$3,000,000,000 is the estimated lost economic value the Monday after the Super Bowl

~\$5 million dollars to run a 30 second ad during the Super Bowl

9 of the top 10 most watched American television programs of all time are Super Bowls

The Super Bowl is broadcasted in 25 languages in 180 countries

29,000,000 lbs of chips and 8,000,000 lbs of guacamole are consumed Super Bowl Sunday



COMPILED BY PARKER ELLIOTT • DESIGN BY VERONIKA TURNER

NEWS

An SOS from planet Earth

BY LYDIA FRENCH

A group of passionate individuals gathered in the Procrastinator Theater on Wednesday, Jan. 22 for a special showing of the movie "Footprints: Population, Consumption, and Sustainability." Co-sponsored by student organizations at MSU such as Thrive on Plants and Students for Choice, the event strived to educate, inform and encourage the topic of sustainability.

Around the theater screen, tables boasted petition sheets, free food, flyers and stickers. Students and community members milled around until two taps on the microphone called for everyone to be seated. Caroline Stahl and Anna Campbell, co-presidents of MSU Students for Choice, opened the event by introducing the speakers and thanking the audience for their support.

Uma Rye Graham, founder and co-president of Thrive on Plants Montana, started with a look into our everyday consumption, saying, "There is enough plant food [available for human consumption] on the planet right now to feed 3 billion more people than are currently living." Her following presentation detailed the hard facts of caloric waste and the dangerous consequences of inaction. Using a cow as an example,

Graham mentioned that a high input of plant calories will result in a much lower output of meat-based calories. In short, animals are extremely inefficient bodies of conversion and transmission. The discussion then shifted through the topics of overpopulation, food supply, plant genetics, and sustainable living.

"There is enough plant food [available for human consumption] on the planet right now to feed 3 billion more people than are currently living."

"Footprints: Population, Consumption, and Sustainability" began and the audience settled in to see a peek into population, overconsumption, climate change and the problem of limited resources, as well as hear experts analyzing each issue. During the showing, an expert touched on the single-use plastic problem, saying, "We use eight football fields worth [of single-use plastic water bottles], which is 1 million every five minutes in the United States." The movie intricately

depicted the pressing issues of sustainability that currently affect the human race — issues that, if not addressed, may severely impact the future of the planet as we know it.

Ali Moxley, an MSU graduate student in health and human development, spoke about her research during the panel following the film. Moxley brought a new lens to the conversation when she explained that, "Female health, specifically birth control, is one of the only ways we can stop the overpopulation problem. We just need to start the conversation." In addition to Moxley, the panel included Graham and two other passionate and local supporters of sustainability. Following a short explanation of personal backgrounds and current studies, the panel opened up for questions from the audience.

If you are interested in pursuing more information about birth control and/or associated topics, Moxley, in collaboration with the MSU Women's Center, will be hosting an open conversation titled, "Let's Talk About It: An Open Conversation around Birth Control" on Wednesday, Feb. 12 from 12 p.m. to 1 p.m. in SUB 168.

Volunteers from a variety of student organizations distribute free goods and information about sustainability following a screening of the film "Footprint" in the Procrastinator Theater on Wednesday, Jan. 22.

PHOTO BY GABE BARNARD

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MSU’s AMA Case team named finalist in international competition

COURTESY OF MSU AMERICAN MARKETING ASSOCIATION STUDENT CASE TEAM

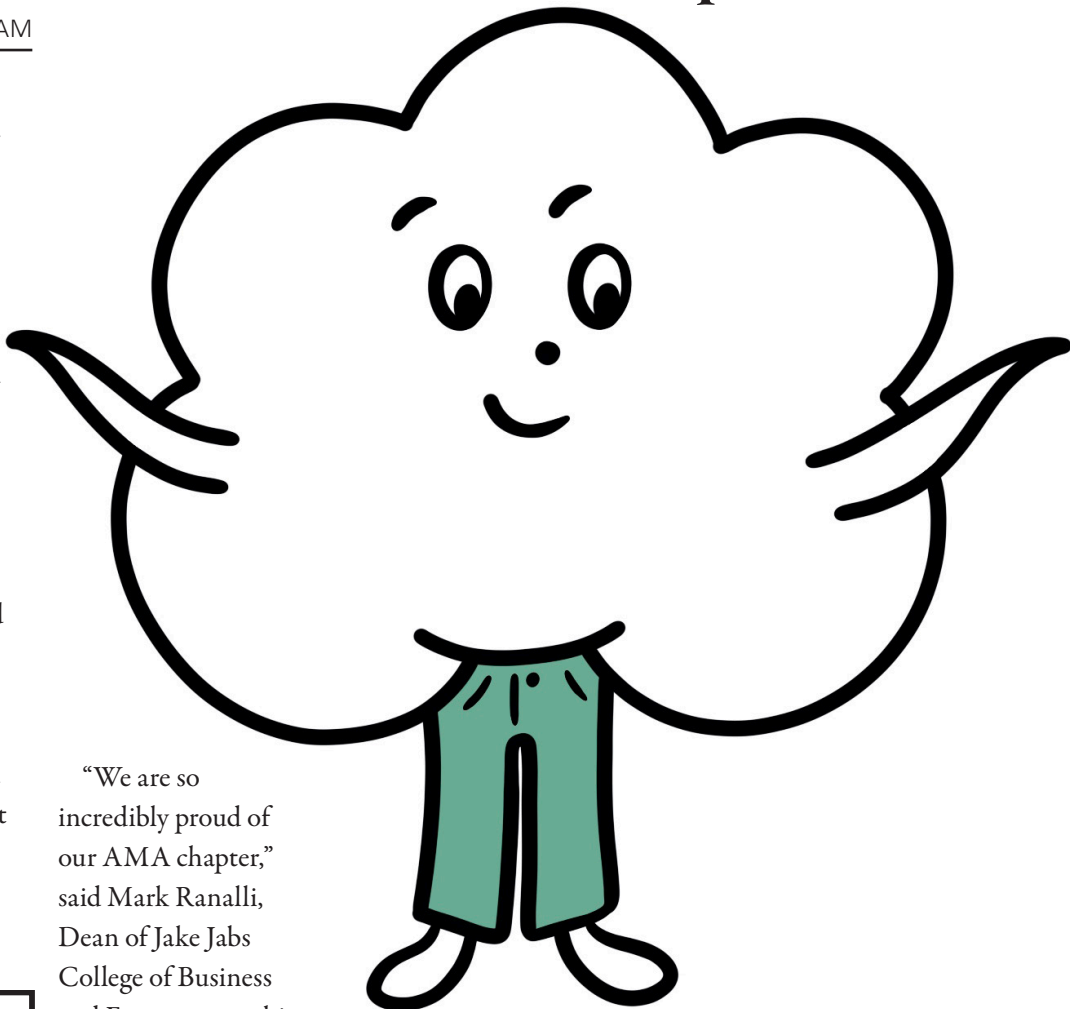
The student team of the American Marketing Association (AMA) at MSU participated in the AMA Case Competition and was named one of 11 finalists that will present its marketing plan to this year’s sponsor, Cotton Incorporated. Presentations will take place Thursday, March 12 in New Orleans at the annual AMA International Collegiate Conference (ICC). The MSU case team will present its marketing plan to a panel of judges consisting of Cotton Incorporated executives and board members of the North Carolina-based nonprofit organization.

This is the second time in just three years of competing in the AMA Case Competition that a team from MSU has reached the finals. The first team presented to executives from Mary Kay, the case sponsor in 2017-18. MSU’s marketing plan was chosen as one of the

best by a panel of marketing academics out of more than 100 universities entering the competition.

“I am looking forward to this year’s case competition,” said Lion Mason, a senior marketing major from Colorado Springs. “I know our team has worked extremely hard on this plan all year and I cannot wait to present it to the executives of Cotton Incorporated. I know our team has the potential to win.”

Cotton Incorporated challenged student teams to market and promote cotton to an audience that is less informed about cotton, 13–18 year olds, and to educate this cohort on why it is important to seek out and buy cotton apparel. The challenge for teams included determining how cotton can be relevant to this audience and increasing their propensity to search for and likelihood to purchase cotton apparel.



“We are so incredibly proud of our AMA chapter,” said Mark Ranalli, Dean of Jake Jabs College of Business and Entrepreneurship. “This is just another example of how our students consistently demonstrate their talents on a national level.

“Researching, writing, and editing skills are what I expected to improve with my participation in the Case Competition,” said Kylee Gamradt, a recent graduate of the MSU marketing program and head of the competition team’s research efforts. “On top of these skills, I also grew in my ability to work with a team and experienced the pressure and expectation of working with a real client. After attending last year’s final presentation of the winning team, I am determined to win the competition this year.”

The American Marketing Association is the student lead chapter of the AMA at MSU. AMA’s mission is to prepare students for their professional careers through experiences that inspire students to cultivate strong networks,

The unnamed Cotton Incorporated spokescharacter designed by the MSU Case team. ILLUSTRATION BY JANIE MCRAE

personal growth, and ethical leadership with a community-oriented focus. Membership is available to all students and majors. For more information about AMA at MSU or membership please visit www.amamontanastate.org.

NOTE: This press release was edited for print.

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Bionics: the future of human movement

BY CALEB RUX

From the iconic “Iron Man” comics to the “Six Million Dollar Man,” bionics have long been a part of science fiction. For years these types of technologies seemed unattainable, but researchers at the Human Neuromechanics Laboratory at the University of Florida are working towards making prosthetics and anatomical enhancements a reality.

On Friday, Jan. 24, students, faculty and community members gathered in a lecture room in Norm Asbjornson Hall to listen to Daniel Ferris, Ph.D., speak about the research he and his team of students are conducting at the Human Neuromechanics Laboratory. The seminar, titled “Merging Humans and Machines to Assist Legged Locomotion,” included Ferris’ past and current research as well as what he sees as some of the biggest challenges going forward in developing lower-limb exoskeletons.

Ferris is a professor at the University of Florida and has received many distinguished awards and honors. He is the Robert W. Adenbaum Professor and Senior Associate Chair of the Department of Biomedical Engineering at the University of Florida, Editor-In-Chief for IEEE Transactions on Neural Systems and Rehabilitation Engineering, an NSF Career Award recipient, and a Founders’ Award recipient from the American Society of Biomechanics.

Dr. Ferris began his seminar by displaying images of bionics from well-known science fiction movies and stating how his fascination with these mechanisms fuels his research. He acknowledged that these systems are still far from being a reality, but explained how the field is moving toward more complex and impressive devices. Ferris then delved into his group’s work with bionic lower-limb prostheses.

He explained that the Neuromechanics Laboratory is working on a couple of different types of systems — some designed to be assistive devices and

others for prostheses meant to replace a lost lower extremity. The assistive devices are aimed towards helping people accomplish what Ferris called “super-human” tasks, although they aren’t the ones out of comic books. Much of these assistive exoskeletons are designed to reduce the amount of energy consumed by a user when walking. Ferris spoke of military applications where these exoskeletons could be attached to soldiers to help them walk or hike further than their unaltered bodies would allow. This type of technology also has the ability to reduce stress-related injuries. The prostheses, of course, are meant to replace the loss of a lower-limb and give people the ability to locomote as if they had a fully-functional lower-limb.

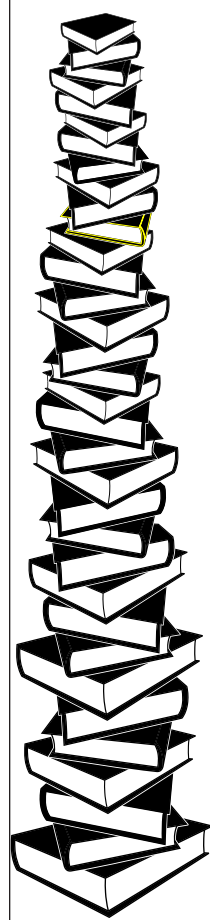
Ferris then explained one of the largest obstacles facing these devices — agility. Current bionics do not allow users to quickly adapt to their environment, which is a vital component in making a bionic feel completely integrated with the user’s body. Ferris outlined a few methods currently used to help bionics act instead of react to users’ motion. Currently, he believes in using electromyography (EMG) to make bionics more agile. This technique involves using sensors that sense when muscles are being activated. Ferris said this is a reliable and quick predictor of motion, allowing exoskeletons and prostheses to act in conjunction with the user. He also pointed out that others are using electroencephalograms (EEG) to monitor brain activity dictating movements, but he believes the delay in processing these signals is currently too long to be useful. Going forward, Ferris believes a hybrid system consisting of both EMG’s and EEG’s will be the best approach toward providing users with the most agile and stable movements as biomechanists work toward better, more robust solutions.

For more information about Ferris’ and the Human Neuromechanics Laboratory research visit faculty.eng.ufl.edu/human-neuromechanics-laboratory.



Dr. Daniel Ferris of the University of Florida lectures engineering students on his work in the field of biomechanics, specifically human-machine interactions, during a seminar on Friday, Jan. 24.

PHOTO BY GABE BARNARD



Annual SHAREHOLDER Meeting



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TRACK & FIELD

SPORTS

Bobcats sweep

BY PARKER ELLIOTT

The MSU track & field teams had impressive showings at the MSU Dual Meet Invitational at Worthington Arena on Friday, Jan. 24. The men and women both beat Idaho State and Montana to complete the sweep over the competition. The dual score format gave the opportunity for two head-to-head matchups at the same meet. The men beat Idaho State 84-64 and Montana 88-59, while the women beat Idaho State 85-58 and Montana 86.5-59.5.

The men demonstrated strong depth in multiple events. The Cats placed the top three finishers in the 200 and 3,000 meters, and the top seven finishers in the mile. Freshman Will Prettyman won the 200 with a time of 22.18 seconds. Junior Collin Buck set a personal record in the 3,000 with a time of 8:27.11, placing him 12th on the NCAA Division I performance list for this season. Sophomore Duncan Hamilton won the mile with an adjusted time of 4:00.89, putting him 15th on the NCAA Division I performance list for this season. On top of the strong finishes in the running category, junior Noah Martin achieved what no MSU athlete has done in 24 years. Martin cleared seven feet in the high jump with an official mark of 7'1.5", setting him 14th on the NCAA Division I performance list.

The women also dominated by taking first in several events. Sophomore Maddie Brockel won the 60 and 200 meters with times of 7.83 and 25.91 seconds respectively. Senior Mckenna Ramsey took first in the 400 meter at 57.23 seconds. With a time of 10:08.53, senior Gillian Maness ran away with the 3,000. Junior Leah Klein had a solid weekend when she took first in the shot put with a distance of 46'0.5" and second in the weight throw with a toss of 53'1.75". MSU's 4x400 relay of sophomore Natalie Perkins, junior Trisha Carlson, Brockel and Ramsey set a season-best with a time of 3:56.57. Despite all the great individual efforts, MSU's strongest event was the long jump, where the women landed the top five finishers, led by sophomore Twila Reovan, who also won the triple jump.

The Bobcats will host the MSU Indoor Open on Friday, Feb. 7. Come out and support the track & field team in their preparation for the conference championships on Feb. 27-29.

ABOVE Sophomore Duncan Hamilton leads the pack in the men's mile race. Hamilton crossed the finish line at 4:09.34, the fourth fastest time in program history.

BELOW Freshman A'lena Chaney kicks up sand on her landing in the long jump event during the Dual Meet Invitational on Friday, Jan. 24. When the scores for the meet were tallied up, the women's team defeated both Idaho State and the Griz.

PHOTOS BY GABE BARNARD



BASKETBALL

Squads cap perfect weekend with Cat-Griz looming

BY PARKER ELLIOTT

This coming Saturday, Feb. 1, the Cat's basketball teams boast their first of two opportunities to take on their rivals from across the divide. The Griz basketball teams host the women at 2 p.m. and the men at 7 p.m. Both squads have the week off to prepare, giving the teams some much-needed time to rest after a hectic beginning to conference play. This past week, both teams went a perfect 2-0, providing momentum entering the most important games of the regular season.

MEN'S

To start last week, the Cats knocked off perennial Big Sky Conference contender Weber State in Ogden for the first time since 2009. Senior guard Harald Frey, who is this week's Cat Close-up on page 10, had a late assist to junior guard Amin Adumu with three seconds to play to stamp a bounce-back win for the Bobbies, 62-61. The Cats clawed back from a 13-point second-half deficit to finalize the gritty win over the Wildcats, who were desperate for a win after fighting early-season injury turmoil. The Cats are now 5-2 in one-possession games, and Head Coach Danny Sprinkle discussed this after the win, "We're comfortable in those stressful situations. We've been practicing a lot of those situations. We'll never be unprepared in the last minute of a game again."

For the second game of the weekend, the Cats made a late-game run to pull away from Idaho State, 75-64. The two-game stretch saw the return of junior forward Devin Kirby after missing eight games, and his 6'11" frame provided some relief to sophomore forward Jubrile Belo in the paint. The two bigs were a force in the 75-64 victory over the Bengals. Belo and Kirby combined for 14 offensive rebounds, and Adamu along with the duo logged a combined 36 points in the paint, ultimately wearing out the Bengals. Despite the Cats only shooting 1-11 from three-point range, their stifling defense and offensive boards gave them a convincing victory to complete the road trip.

This Saturday, Feb. 1 at 7 p.m., the Cats, who are now 5-4 in conference play, will make the highly anticipated trip to the league-leading Griz, who are 7-2 in conference play despite dropping their last game at Weber State. The Griz have also been great in close games this year, a big factor in their early success in conference play. If the Cats hope to win, they will have to find a way to slow down preseason Big Sky Conference MVP senior guard Sayeed



Pridgett, who is averaging 19.2 points, 7.5 rebounds and 3.3 assists per game. If the Cats can continue to rebound and play strong defense consistently, they will be in every game until the end. Judging by the plethora of one possession games in the Big Sky Conference so far, I would expect nothing different in this game. I anticipate a late surge will propel to the Cats to the first Cat-Griz victory in the Sprinkle era.

WOMEN'S

The women opened up the weekend with a runaway victory over the rehauled Weber State team, 81-52. The Cats outscored the Wildcats in each quarter and never let them gain any sort of momentum during the contest. Junior guard Tori Martell led the charge with 16 points, but, overall, it was another balanced offensive effort, with 10 women getting their name on the scoring sheet. After the win, MSU Head Coach Tricia Binford said, "We got better tonight defensively, and that's where we needed to turn the page. We had a lot more deflections than we did at Eastern Washington, and I thought we came out a lot more attack-minded on the defensive end, and I thought that set the tone for us right from the start."

In front of nearly 2,500 fans, the Cats capped the perfect weekend with a strong victory over Idaho State, 67-59. Six Bobcats finished the game with at least eight points, led by senior forward Fallyn Freije with 15 points and eight rebounds. The Cats, who are on a four-game winning

Freshman guard Darian White weaves through Weber State defense looking for a pass during the game on Thursday, Jan. 23.

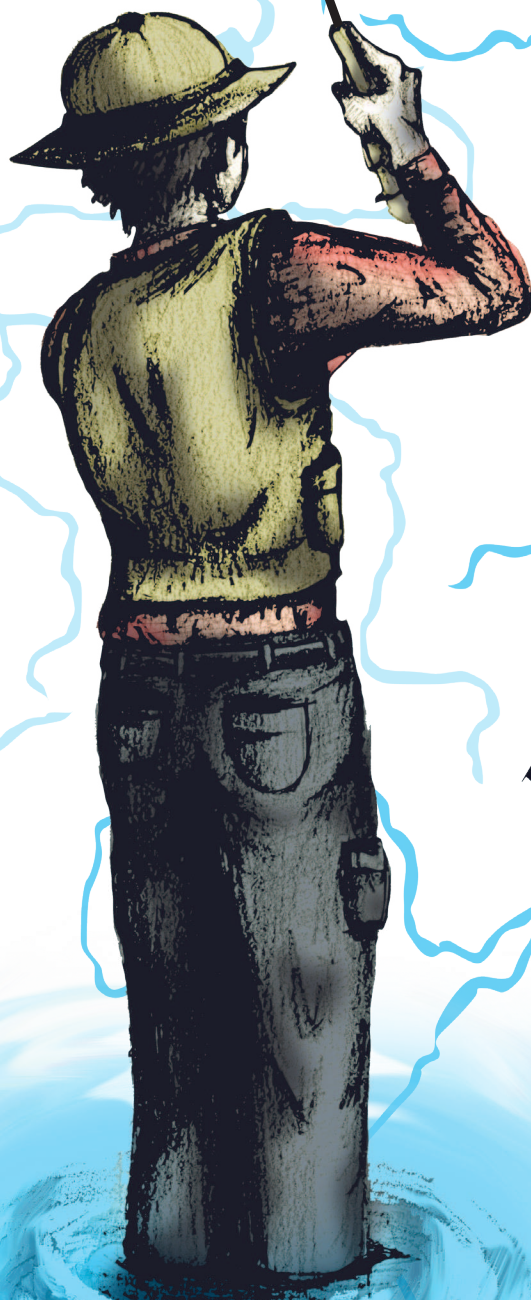
PHOTO BY GABE BARNARD

streak, have made it clear that the team comes before any individual statistics. Binford recognized this by saying, "All season we've had different kids step up. We're a team that is never going to have a conference player of the week because of our unselfishness. And this game was no different. Everyone filled their role, and everyone contributed, and when you do that, you'll have success."

The Cats currently sit atop the Big Sky Conference at 8-1, while the Griz are in the middle of the pack at 5-4. Montana halted a three-game losing streak by beating Weber State last Saturday, Jan. 25, after starting conference play 4-1. The Lady Griz are led by senior guard McKenzie Johnston, who averages 12.3 points, 5.1 rebounds and 4.7 assists per game. They have proven they can hang with anyone, as they blew a late lead in a one-point loss at Idaho, who sit at 6-1 in conference play and are the only team to beat the Cats in the conference. If the Cats can continue to roll with their team oriented mindset and find consistency on offense, they could pull away in this one. There are no easy games in Big Sky Conference play, and with the added pressure of the rivalry, expect an entertaining game. All Big Sky Conference games can be streamed on PlutoTV for free, so check out the 300th Cat-Griz matchup on Saturday, Feb. 1 at 2 p.m. Go Cats!

Escape the crowded ski hill for an empty fishing hole

By Cameron Graves



Design by Marie Steiger

SPECIES OF FISH IN THE BOZEMAN AREA:

Yellowstone Cutthroat Trout: Native

Arctic Grayling: Native

Mountain Whitefish: Native

Rainbow Trout: Introduced, now wild

Brown Trout: Introduced, now wild

Brook Trout: Introduced, now wild

Check out the Bozo Trout Bums

Montana State has its very own fly fishing club where the mission is to fish, tie, teach, conserve and spread the stoke! Check them out on Facebook at Montana State Fishing Club or on Instagram @bozotroutbums

As students of Montana's land grant university, we're awfully fortunate to have so many recreational opportunities in close proximity to our campus. During the winter months, MSU students enjoy the area's iconic landscapes by skiing, snowmobiling, and ice climbing, just to name a few. Even though the increased number of people enjoying winter sports in the area is to be expected, the added pressure of crowds may cause some outdoor enthusiasts to second-guess their decisions. Most leave the urban sprawl to escape the unpleasantness of town, not to run into neighbors and colleagues. For those who desire to get away from it all, the answer may come in the form of an unassuming place for this time of year: a local trout stream.

Fly fishing is a tradition that began in the 13th century in England. Today, Montana is the world's fly fishing capital. The rugged geography of the Rocky Mountains and consistent moisture from the Pacific Ocean creates a spectacular and diverse habitat for trout, allowing healthy populations of large fish to endure for generations. This combination of landscape and climate also creates breathtaking backdrops of mountain peaks standing guard over golden valleys whose blue arteries tempt anglers with fish. In Montana, fly fishing is much more than an enjoyable pastime, which former president Herbert Hoover illustrated precisely in 1951, "To go fishing is the chance to wash one's soul with pure air, with the rush of the brook, or with the shimmer of sun on blue water. It brings meekness and inspiration from the decency of nature, charity toward tackle-makers, patience toward fish, a mockery of profits and egos, a quieting of hate, a rejoicing that you do not have to decide a darned thing until next week. And it is discipline in the equality of men, for all men are equal before fish." Today, Montanans understand that fly fishing is a crossroads between the state's incomparable environment and its unique culture.

"Trout U" is one of the alternate titles trademarked by MSU, and it really is fitting. Our Bozeman campus is settled close to some of the most extensive and highest quality fly fishing opportunities in the entire world. For those unaware, fly fishing is deeply ingrained in this town, university and state's culture. MSU's connection to fly fishing goes much deeper than just a pastime of its students, staff and faculty. Special Collections and Archives at the Renne Library is home to one of the world's largest trout and salmonid collections, holding an immense amount of print, archival and digital information detailing trout, salmon and char along with the experiences of those who have interacted with these fish. Furthermore, MSU graduates work as biologists, resource managers

and fly fishing guides amongst a great deal of other professions directly involved with our area's fly fishing culture.

For students who seek to engage in the beautiful tradition of fly fishing, Bozeman offers plenty of opportunities to get started. A good first step would be to visit a local fly shop and be honest about your greenness. At a good fly shop, they will help outfit you with a rod, reel, line, waders and all other necessary equipment along with some information regarding where to fish, examples of productive flies and how to present them to fish. A possible further step could be to book a guided trip with a local fly shop. This would allow one to gain a true education on how to fly fish effectively and will definitely decrease the somewhat steep learning curve associated with the activity. A few fly shops that I would recommend in the area are the Bozeman Family Fly Shop on W. College St. and Montana Troutfitters on East Main. Both shops are close to campus and give students a discount on their purchase, plus they have enjoyable and knowledgeable staff, and like all good fly shops, often there's a friendly dog greeting customers at the front door.

Some people, including myself, would rather learn how to fly fish the cheaper and more frustrating way. To begin this process, seek out some used equipment at Second Wind Sports on Olive St. Second Wind has everything a beginner needs besides some smaller things such as tippet and flies, but those can be purchased at any full-fledged fly shop. Once outfitted in hand-me-downs, you're going to need to learn the basics of setting up your rod along with how to tie some basic fishing knots, which can all be found on YouTube. I recommend the series of videos published by The Orvis Company, which are well-produced and very informative. Also check out their videos on casting, as this can be one of the more frustrating aspects of learning and requires a good amount of practice before it becomes second nature. A good place to find your rhythm is in a grass field such as the MSU intramural fields, where your fly line won't be degraded by concrete, and you'll have plenty of space to mess up.

After honing your skills enough to hit the water, find some sources to point you in the right direction. Trout Unlimited recently released an interactive map with every fishing access in the state. Go to map.montanatru.org to start exploring. A good book for information regarding our area fisheries is "Montana's Best Fly Fishing: Flies, Access, and Guides: Advice for the State's Premier Rivers" by Ben Romans, which offers information useful to any angler. However, no one book is going to make you a successful fly fisherman.

Defining what being a successful fly fisherman means itself is open to quite a bit of controversy. For instance, some fly anglers' main goal is to capture impressive hero-shot-style photographs with big fish while repping the most expensive equipment on the market. For many outsiders to fly fishing, this is what they picture when thinking of the activity. To add, newcomers' first intentions may be pure, but they might quickly feel pressured to imitate those producing trout clout on social media. For some, that may be the goal, and that's their choice, but regardless of the gear you use or the fishing clout that you hold, the only thing that will deem you successful is if you really enjoyed the experience. Getting started fly fishing shouldn't be daunting, though I'm not saying that it'll be easy to enjoy at first. But the struggle that comes with fly fishing is what makes the activity so wonderful and rewarding. As you continue to fish you will eventually realize that there is no capacity for knowledge and experience, but rather only infinite room for improvement and growth.

As the famous seventeenth-century English writer and angler Izaak Walton wrote, "As no man is born an artist, so no man is born an angler." He further echoes the idea of the ever improving fly angler by saying, "Angling may be said to be so like the mathematics that it can never be fully learnt." The great historic novel turned movie, "A River Runs Through It" sums up the anglers mindset by considering, "Many of us would probably be better fishermen if we did not spend so much time watching and waiting for the world to become perfect." With time, the river becomes a sanctuary for those with patience and perseverance.

Our student body is incredibly lucky to be on the doorstep of some of the most pristine fishing country remaining in the continental United States. Our area's streams and rivers are some of the last on the planet to hold such brilliant populations of wild trout and grayling, but all landscapes change. With the large increase in population and development in our corner of the world, along with increasingly abnormal weather patterns, this unique resource may not be around for much longer. If you decide to become a fly angler, know that you are also becoming an ecologist, environmentalist, historian, policymaker and ambassador for the next generation as it becomes your responsibility to ensure that future Bobcats and others will be able to enjoy the same resources you did. One of the best ways to ensure that future is to use the resource you hope to sustain. So when the ski hill is too crowded on a future weekend, look to our area's rivers for a chance to escape it all.

CAT CLOSE-UP: BASKETBALL // HARALD FREY

BY CAMERON GRAVES

Rarely in Division I Basketball do you see a player start all four years of eligibility. Senior guard Harald Frey has done that and much more during his career as a Bobcat. The Oslo, Norway native is the Cat's leading scorer and assister in his senior season, averaging 17.3 points and 4.7 assists per game, while playing 37 out of the possible 40 minutes per game. After a successful career as an amateur in Norway's professional league and his years at MSU, Frey has shown the ability to manage the pace of games at an extraordinary level. Frey, who is also a team captain, is an excellent student, studying psychology at MSU. He is also a candidate for the 2019-20 Senior CLASS Award, which is awarded to the most outstanding senior student-athlete in Division I Basketball. To be considered, one must exemplify excellence in the community, classroom, character and competi-

tion. On top of his recognitions, Frey hit a game winning half-court shot against UNC Greensboro earlier this season that earned him ESPN Sportscenter's top play of the night on Nov. 16.

Upon graduation, Frey hopes to get a chance to play professionally. For the fans who have watched number five play the past four seasons, they have no doubt that he'll find success at the next level. The future is bright for Frey, thanks to his dedication, it is also bright for MSU basketball. For more on Frey and the Cats' upcoming game against the Griz on Saturday, Feb. 1 at 7 p.m., check out this week's Cat-Griz basketball preview on page 7.

COULD YOU DESCRIBE HOW YOUR SENIOR SEASON IS GOING SO FAR?

It's going well. I am having a ton of fun. It's going by fast of course, and it's crazy how fast my time in college has gone, but I'm having a fun time with my teammates

and I'm loving the coaching staff. As long as we continue to win, things will continue to be good.

WHAT'S THE MINDSET FOR THE REST OF THE SEASON?

Of course we want to win every game, so we try and focus on attacking every day and telling ourselves that the rent is due every day, so we have to put in the work. Definitely my ultimate goal is to go to the NCAA tournament and take part in March Madness. I don't care how we get there, we just need to get ourselves some wins in order to get there, and that's as far as I am looking right now.

HOW HAS YOUR BASKETBALL JOURNEY FROM PREP ACADEMY TO THE NORWEGIAN PROFESSIONAL LEAGUE TO STARTING ALL FOUR YEARS AS A BOBCAT PREPARED YOU FOR THIS FINAL STRETCH OF YOUR SENIOR SEASON?

It's been great playing at a high level in the men's league [BLNO Norway professional league] against some really good players by being in some high pressure situations and winning a couple of national championships in Norway. So I do have an understanding of what it takes to be on a winning team at a high level, and adding that with my experiences here gives me a lot to share with the younger guys in the program. The more we gel together and find this common goal and understand how much work it takes to reach that high level, the better we will be, and that's our goal right now.

WITH SO MANY FRESH FACES AROUND THE PROGRAM FROM COACHES TO PLAYERS THIS SEASON, HOW MUCH HAVE YOU GUYS COME TOGETHER SINCE MEETING THIS SUMMER?

It's been great. I never want a coaching change to happen because everyone wants stability and to find the perfect situation right away, but that's not always how it shapes up. I think this transition has gone as smoothly as any transition could have gone. I think the players and coaches from last year have done a really great job of helping the new coaches, players and trainers fit into our culture and also

allowed us the chance to establish a new culture. I really think it's been as easy as you could hope since we've been all getting along and hanging out away from the court, and it's beginning to become a family, and honestly I am kind of sad I only get one year with all of these guys. It's been great building this close bond and getting to know each other a bit more every day, and I am really excited about this journey that we are on.

WHAT'S THE LEGACY YOU HOPE TO LEAVE AT MSU?

For me it's about more than just scoring baskets and dishing out assists. I want to make an impact on this community because when I was in the recruiting process and looking for my school I didn't want to find a place where I would only go for four years then never return again. I wanted a place that I could look back at and call a second home where I'll be coming back for five, ten, twenty years and still have the same connections. So that's what I want to build for people on the other side of their Bobcat career as well. To make this a place where I just might be missed a little, and when I come back people will remember who I am. I just want to create an atmosphere like that for the guys who will come after me. We always talk about leaving it off better than when you found it, so for me that's on the court, in the classroom and in the community.

WHAT INTERESTS YOU ABOUT PSYCHOLOGY?

It's always been an interest of mine. Just knowing how individuals function in different settings and stuff. Coaching for example, and the mental aspect of basketball has always interested me, so I like to apply that to life in general and sports. Sports psychology is something I can definitely see myself getting a masters degree in if I pursue my education further along the line. I just think that there is so much to be explored in the mental aspect, especially in sports, where there is so much focus on technique and strength, but a bigger part possibly than the physical aspects of sports is the mental aspect of sports and applying that to real life as well because so much of what we go through in life is mental. Overall, I find it interesting and I believe there is not much point in obtaining a degree in something uninteresting.

Senior guard Harald Frey pivots to avoid pressure from Eastern Washington during the Cats' game on Jan. 18.

PHOTO BY GABE BARNARD



OPINION

DEAR *Expie...* WORDS of ADVICE

"Dear Expie" is a semi-weekly, anonymous column answering student questions. This week, Expie answers questions about managing time and studying abroad.

If you've got a burning question for Expie, email ExponentOpinion@montana.edu. All submissions remain anonymous.

Dear Expie,

I'm a freshman, and second semester is really rough. These first few weeks have been so busy and I'm feeling overwhelmed with work and school. I never seem to have time to hang out with my friends or do anything fun. How do I manage my time better?

— All Out of Time

Dear All Out,

Time management is key to college success. Personally, my planner is the only reason I'm still alive. I strongly suggest picking up your own planner and writing down every assignment, shift, and commitment that you have on each day so you have a clear idea of what you need to do.

Next (and this part is really important), do those things. Don't procrastinate or put off your work because you feel overwhelmed by it. Once you start on something, it always becomes less daunting, whether it's a school paper or a long shift at work.

However, don't let your schedule turn into nothing but soul-draining drudgery. Even if you feel like you don't have time for it, keep your days balanced. Make sure that you take study breaks and do some fun activities like spending time with friends. It will make you more joyful, more relaxed and overall more productive.

If you really can't fit a movie with friends or a dinner out with your significant other into your schedule, then you should consider dropping a few credits or working less. No degree or job is worth months of constant anxiety and stress.

Overwhelmed and Also Abroad

Dear Expie,

I'm thinking about studying abroad next semester. I think it would be a great experience and I know I would have fun. But it's really scary to think about living in a different country thousands of miles away from all of my friends and family. Should I go for it or stay here at MSU?

— Living in Limbo

Dear Limbo,

The short answer is yes, you should go for it. The long answer comes mostly from my friends and professors, who constantly advocate for studying abroad. Apparently, it's practically required to graduate with a history degree from this institution.

Studying abroad gives you a brand new perspective. Wherever you go, it will be completely different from the United States. You'll learn a crazy amount about how the people of other cultures live, and you might even understand the U.S. a little better.

You'll also meet a whole bunch of awesome new people. Going to a new place and making new friends is always scary, but it's also an incredible experience. Plus, you get to say that you have friends overseas, which gives you so many cool points.

Worst case scenario, you get lonely. Don't forget that modern technology exists. You can always call, text, Snapchat, Facetime, Skype, email, and otherwise communicate with your friends back home in Montana. You'll never be completely alone.

If you want to learn more about what studying abroad is like, check out the Exponent e-Editions online at our website msuexponent.com for Rob Jump's article "What the Hell Am I Doing Here?" and Shelby Morris' article "A Semester Abroad." Good luck with your journey!

Thanks, guys! See you soon. This is Expie, signing off.

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Public Lands Under Attack



PHOEBE ZEA
OPINION COLUMNIST

Montana's pristine wilderness draws visitors from across the globe, yet the state's main attractions may be in jeopardy. Public lands and the laws that protect them have been destroyed during the last three years under the Trump administration. The pro-corporation Trump regime abused

its powers by dismantling organizations searching for solutions to climate change, removing key lawmakers and putting the beauty of the undeveloped lands we cherish in danger. As stewards of the land, we must use our vote to combat this regime in the 2020 election for the sake of our natural playgrounds.

The Trump administration took dramatic legislative steps to decrease the size of protected public lands and open them up for private ownership, mining, and gas and oil drilling. According to a study in the *Journal Science*, the Trump administration is responsible for the largest reduction of public lands in history. The Review of Designations Under the Antiquities Act put the protected status of numerous national monuments like Grand Staircase-Escalante, Giant Sequoia, and Upper Missouri River Breaks in jeopardy. These national monuments, forests, and parks serve as destinations for sportsmen and tourists alike.

The POTUS also opened up wildlife refuges and Bureau of Land Management recreation areas like the Arctic National Wildlife Refuge and Sand Flats Recreation Area to drilling and restricted public access for

recreationalists. This was possible due to turnover in the National Parks Service (NPS). Upon Trump's election, many officials resigned from NPS. This left leadership roles open for the president to nominate a new head of the NPS and new superintendents of parks like Yellowstone and Grand Canyon.

As the Trump administration's economic interests manifest across the country, we are seeing effects of the legislation close to home. In 2017, the Yellowstone National Park grizzly population was removed from the threatened species list, which puts them at risk for further reduction of their population through hunting. In addition, the Upper Missouri River Breaks, a favorite spot for avid fishermen, hunters, hikers and boaters, is located only 250 miles from Bozeman. This national monument is under review, and its federal protections are now also at risk. The Trump administration has put the conservation efforts of our outdoor community on the back burner. Therefore, we must take action to combat the environmental collapse by electing officials who will protect the interests of communities like Bozeman.

The current administration does not act alone. In some situations, corporations can benefit from the actions of the federal government. In 2017, federal acreage leased by energy companies hit its highest rate since the initial fracking boom of 2012. Numerous fracking corporations like Chevron and Chesapeake Energy have been purchasing tens of thousands of acres as the Trump administration puts the former public lands up for auction. Drilling for gas and oil on public lands would make a great deal of gasoline, oil, and power available for use. By utilizing federal, public land, drilling would not take away privately

owned lands or contaminate the oceans, and it is proven to be a highly profitable method of extraction.

While President Trump and his supporters believe the lands should be used only for economic purposes, we must look at the consequences of drilling and mining for our environment. These processes can disturb wildlife, spill oil, and produce fossil fuels. For example, studies by Earthworks show that 74% of gold mines may be contaminating water sources. Although our country is built on the foundations of free-market capitalism, we must put aside visions of wealth to focus on preserving wilderness and endangered species. If we allow the Trump regime to continue down its path of destruction, these animals, plants and lands may not be around for the next generations.

Some actions by the Trump administration have protected the environment. For instance, Trump signed a public lands bill in February 2019 that "added 1.3 million acres of wilderness, expanded several national parks, and created five national monuments," according to the Associated Press. In 2020, the administration passed the Land and Water Conservation Fund Permanent Funding Act, which guaranteed \$900 million per year to this vital environmental organization. However, these actions are not enough, and the bad outweighs the good in the Trump administration's choices regarding the environment.

As residents of Bozeman, we must place the environment at the forefront of concerns when filling in our ballots in November. The current political administration is tearing apart the very foundations of the great American wilderness. Our public lands support our economies, ecosystems, and recreation. They protect American history, habitats, and draw visitors from around the globe. The 2020 presidential election will change the course of environmentalism forever, and we must do our part to protect our values as outdoorsmen and -women.



BY PARKER ELLIOTT

It was 6th grade, and I had just proudly placed third in my school's spelling bee. That moment probably

represented the peak of my spelling ability. With today's technological advances, I no longer feel the need to remember the trivial, irrelevant spelling of every word in my lexicon.

Spellcheck is not a Joke

As times changed and typing assignments on computers became the norm, I eventually stopped caring about spelling. Why do I need to know the exact order of the letters of each and every word when I can just sound it out and then right-click to replace my butchered spelling?

I've expected this technological safeguard to catch my mistakes since I was a middle schooler. Sure, teachers tried to make me learn to spell, but I didn't want to waste precious brain space on an outdated skill envied only by boomers. I'm now in my last semester of college, so clearly my terrible spelling hasn't stood in the way of achieving an

education. However, the issue persists in my daily life.

Somehow, Google, one of the most influential companies in the world, doesn't have a spellcheck feature. Google Drive has essentially become necessary to complete work for school. It is the only convenient platform that can accommodate multiple users working on the same document at the same time. While Google Drive has made group projects a lot easier, it still hasn't created a functional spellcheck.

Google has built smartphones, mapped our world, and built up a worth of nearly 1 trillion dollars. It's about time they

make spelling simple for everyone. I'm ready for a change that conforms to the current standard. Microsoft has had spell check for over 10 years, so why can't Google do the same? To quote the legendary sports analyst Stephen A. Smith, "We have been hoodwinked, bamboozled, led astray, run amok, and flat-out deceived!"

I have heard claims that using various browsers, opening up Microsoft Word, or downloading browser add-ons could cure my spelling woes, but I have yet to find anything that works. Reach out to me at ExponentSports@montana.edu if you have any solutions, but for now the problem persists.

I'm out here speaking for the common folk. The terrible spellers of the world need not be judged for their illiteracy, and I'm here to lead the charge!

CULTURE

Gettin' old school with KGLT

BY ROSE VEJVODA

For any lover of all things vintage, there are few things better than finding vinyl. It takes patience and a positive attitude to slowly sift through old records to find the right one. Beyond just finding it, you also have to consider if the vinyl is in good condition or not. The true test comes when the vinyl is slowly removed from its sleeve and carefully examined for smudges and scratches. After some digging, the perfect record is unearthed.

“For any lover of all things vintage, there are few things better than finding vinyl.”

Eager vinyl detectives took over Ballroom D of the SUB on Friday, Jan. 24, to participate in KGLT's semi-annual Vinyl Sale. KGLT, the event host, is the alternative public radio that services most of southwest Montana including Bozeman, Big Sky, Helena, Livingston, Gardiner-Mammoth and Big Timber. KGLT allows vendors from around Montana to join them to sell records and share their love for music. This year vendors like Cactus Records of Bozeman and Ear Candy, of Missoula congregated in the SUB from 2:30 p.m.-7 p.m. on Friday afternoon.

Customers started lining up at 1:30 p.m. conversing about the records they were searching for, their turntable set-ups at home and various concerts they attended. By 2:30 p.m., the line almost reached the end of the SUB hallway. As vinyl enthusiasts began to shuffle

their way into the ballroom, the space was quickly filled with excited customers. Some still talked with the people around them while others rushed to find their favorite records before anyone else could get ahold of them.

Most vendors offered a variety of genres of music, including jazz, bluegrass, classical, country, and of course, plenty of rock n' roll. Ear Candy, who has been in business for 22 years, even had a special collection box full of rare and collectible records. The box featured The Beatles, The Doors, Wu-Tang Clan, and much more. If you ever happen to be in Missoula, check out their shop at 624 S. Higgins Ave. to snatch up their special records.

In addition to vinyl, KGLT also sold hoodies, t-shirts, bags, various pieces of merchandise to represent their company, and tons of free stickers, because one can never have too many stickers.

This event had an amazing turn-



out. It brought community members together in a unique way and gave everyone an opportunity to find treasures at a great price. Be sure to be on the lookout for the next Vinyl Sale to ensure you stay groovy.

ABOVE Classic vinyl records rest in a former potato box, waiting for a new owner.

BELOW Bozeman community members rummage for treasure in boxes of used records at the KGLT vinyl sale on Friday, Jan. 24. Proceeds from the event benefitted the KGLT Alternative Public Radio.

PHOTOS BY CHRIS FARRER



JAN. 30 – FEB. 10

Want your event featured here? Email event info to us at ExponentEntertainment@montana.edu one week in advance.

CALENDAR

THU 30

MSU LEADERSHIP SOCK DRIVE
Fork and Spoon, All Day
Come out and donate socks to the Warming Center.

TRIVIA NIGHT
Rendezvous Dining Hall @ 5:30 p.m.
Free for all students with or without a meal plan.

LASER TAG
Marga Hosaeus Fitness Center @ 6 p.m.
Join other Bobcats in playing Laser tag in the fitness center. Event begins at 6 p.m. and is free to participants. Sign up at imleagues.com.

STUDENT INNOVATION ROADSHOW
Museum of the Rockies @ 6 p.m.
The Office of Research, Economic Development and Graduate Education and the Year of Undergraduate Research will host its inaugural 8 x 8 Student Innovation Road Show.

MSU WIND SYMPHONY CONCERT
Howard Hall, Reynolds Recital Hall @ 7:30 p.m.
The MSU Wind Symphony presents “Urban Requiem.” \$5 for students and \$10 for general admission.

FRI 31

PICKLEBALL TOURNAMENT
Marga Hosaeus Fitness Center @ 6 p.m.
Intramural Olympics is hosting a Pickleball tournament in the North Dome.

BOLLYWOOD DANCE NIGHT
Marga Hoseaus Fitness Center Studio 1 @ 7:30 p.m.
Come out and dance to the tunes of Bollywood.

MSU SCHOOL OF MUSIC STUDENT SHOWCASE
Howard Hall, Reynolds Recital Hall @ 7:30 p.m.
Students from the School of Music will be performing solo and ensemble works in a free recital.

SAT 1

KING AND QUEEN OF THE RIDGE
Bridger Bowl Ski Area @ 9:30 a.m.
Pledge money for one, two or the most ridge hikes in 5 hours. Money will go to avalanche education in southwest Montana.

FEBRUARY SERVICE SATURDAY
SUB Ask Us Desk @ 10 a.m.
Join the Office of Student Engagement in serving the community.

BATTLE OF THE BANDS
SUB Ballrooms @ 7 p.m.
Rock out at the Debut Battle of the Bands.

WED 5

SKI MOVIES AND SUSTAINABLE TRANSPORTATION
Procrastinator Theater @ 6 p.m.
Join the Office of Sustainability for an evening of ski movies, raffles and discussion on sustainable transportation.

THU 6

MEN'S BASKETBALL VS. UNIVERSITY OF IDAHO
Brick Breeden Fieldhouse @ 7 p.m.
Come out and support the Bobcats as they take on the Vandals. Students get free admission with their CatCards.

FRI 7

TRACK AND FIELD: INDOOR OPEN
Brick Breeden Fieldhouse @ 4 p.m.
The MSU Track and Field team will host the MSU Indoor Open. Free admission.

SAT 8

WOMEN'S BASKETBALL VS. EASTERN WASHINGTON
Brick Breeden Fieldhouse @ 2 p.m.
Come out and cheer on the Bobcats as they take on the Eastern Washington Eagles. Free admission for students with their CatCards.

MON 10

OFF-CAMPUS LIVING FAIR
SUB Ballroom A @ 2 p.m.
The Off-Campus Living Fair provides opportunities to find resources needed to live off-campus.

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**ASTRO
WEEKLY**

THINK ABOUT YOUR
PLACE IN SPACE.

The AI function

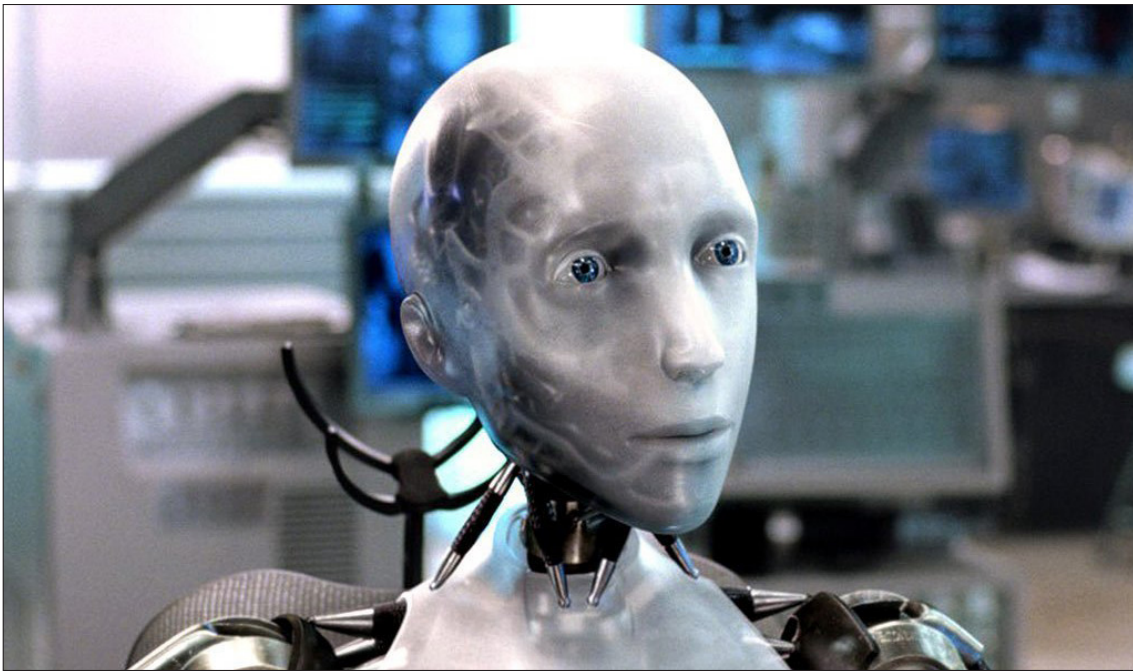


PHOTO COURTESY OF IROBOT

BY CADEN HOWLETT

Right now, as you read this, there are hundreds of brilliant human minds working tirelessly in an attempt to create artificial intelligence (AI). Even more individuals are working on creating technology that will assist in achieving this goal. As computing power doubles every two years (Google “Moore’s Law”), we are getting closer and closer every day to creating echoes of the human mind in the machine. As exciting as our technological growth is, we must maintain a proper level of concern regarding AI and consider the future paths we will need to take and strategies we will need to employ to control it.

In his book “Superintelligence,” Nick Bostrom outlines (in illuminating and sometimes excruciating detail) the steps that are necessary to prevent AI from catastrophically getting away from us. Much of his book focuses on an artificial superintelligence — one that far exceeds a normal “general” artificial intelligence. Through recursive self-improvement (continuously building better versions of itself), it is probable that the creation of a general AI could inevitably lead to a machine that will leave us in the dust intellectually (and spiritually, artistically, etc). However, superintelligence aside, I want to emphasize the possible

implications of creating a computer matching only the intellectual capabilities of the humble *Homo sapiens*.

Let’s say that in the year 2030, scientists/technologists create the first ever AI with intellect matching that of your average researcher at MIT or Cal. Tech. Even with equivalent intelligence, a general AI would far exceed our capabilities through speed alone, as electronic circuits function approximately one million times faster than biochemical ones. Therefore, over the course of one human work day in the MIT lab, the AI will have made approximately 20,000 years of intellectual progress. Imagine this occurring day after day, and you may start to get an idea of what would become possible. We are talking about machines that will have the capability to read every book, every newspaper/magazine article, every legal document, and every webpage that has ever been written — in a matter of seconds. How can you not be frightened by that alone?

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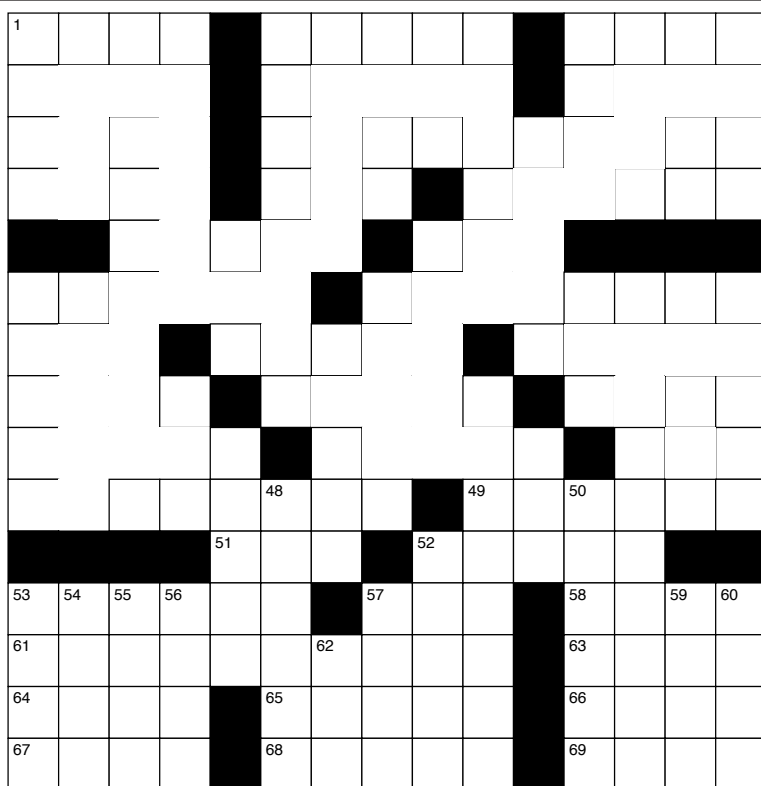
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Across

1. "Stop!"
5. "___ nice day!"
10. Catcall?
14. Rope fiber source
15. "Take ___ at the stop sign"
16. Initial poker stake
17. Cubesmith Rubik
18. Inherent privilege
20. Famous Diamond?
21. ___ loss for words
22. A large quantity
23. Texas city just north of Dallas
25. Simon and Garfunkel's "I ___ Rock"
26. Peter of "My Favorite Year"
28. Warm underwear
33. "However..."
34. Astronomer Tycho
36. Crayola color since 1958
37. Did an impression of
39. Hyundai sedan
41. "___-Dick"
42. French painter of "The Fifer"
44. Beast under the bridge
46. Dernier ___ (last word)
47. Play conclusion, often
49. Scurrier in a maze
51. European market org. until 1993
52. Candy on a stick, informally
53. Ancient Greek theaters
57. Cave denizen
58. Antonyms, briefly
61. Protest type
63. London guy
64. Striped antelope
65. Mirror's offering
66. "Kiss Me ___"
67. High school formal
68. Hamstrung
69. Dispatched

Down

1. "___ the Saints Go Marching In"
2. Not there
3. All-powerful
4. Moon mission name
5. Cuban dance
6. Justice Samuel
7. Norm's wife, on "Cheers"
8. Young salamander
9. Comfortable (with)
10. Housekeeper
11. Part of the UK
12. Will-___-wisp
13. Moistens
19. Makes a noise like Simba
24. Tirana's country (abbr.)
25. "Billy, Don't Be ___" (1974 song)
26. The 44th president
27. Rapper Shakur
28. "Done!"
29. 13th letter of the Hebrew alphabet
30. Of questionable authenticity
31. Seventh celestial sign
32. "___ with flowers"
35. Ancient Mexican
38. NYPD rank
40. Doled out
43. Rascal Flatts' "___ Did"
45. Purple and gold team, on scoreboards
48. Fight erosion, say
50. Obstructs
52. Actress Jessica, of "American Horror Story"
53. Doing mil. drudge work
54. Sullen
55. Within: pref.
56. Reproductive cell
57. Roofing timber
59. ___ de foie gras
60. Shoot out
62. "Little Women" author's monogram

B S G N I G D I R B A D G E
U T D O O W G O D E R S H X
R R S C G W R I E S E R O P
R A M A R D A O M O I E S B
S Y N B E S V S U O N D T O
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M A L I C E S T S A O R V X

- | | | | |
|----------------|-----------|----------|---------------|
| Argues | Gravely | Plumed | Taverns |
| Bacon | Grease | Pores | Triples |
| Badge | Hostility | Ports | Udders |
| Boors | Impairs | Ranks | Unconsciously |
| Bridging | Kneaded | Reindeer | Wries |
| Burrs | Least | Roasts | |
| Deeps | Loose | Roulette | |
| Dogwood | Malices | Seams | |
| Drama | Memos | Sells | |
| Erred | Midst | Stark | |
| Exterminations | Naivety | Stray | |
| Graces | Palms | Stress | |

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EASY

CHALLENGING

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**Things Scariier
than the
Bubonic Plague**

- Almost manbuns
- Chemtrails
- The 3rd floor SUB bathroom
- The rising price of avocados
- Running out of Coronas
- The universe's impending heat death
- Latex allergies
- MSU parking services
- Asking your crush to prom
- My AirPods dying
- The wrath of President Cruzado
- The crippling psychological weight of being alive
- Disappointing your favorite professor
- The ravenous jaws of the Exponent printer
- E. coli* from Chipotle
- 8 football fields worth of plastic bottles
- Losing your mojo
- The mortifying ordeal of being known
- Denting my Hydro Flask®
- Falling in love
- Getting domed by a Hydro Flask®
- The sound a koala makes
- Going bald
- The electricity bill
- Collapsing gym roofs
- Fish teeth
-
- Tall Tales
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