THE MSU
exponent
February 18, 2016
MONTANA STATE'S STUDENT NEWSPAPER SINCE 1895

Latex & Lace promotes safe sex



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PHOTO BY CONOR GLESNER

Students watch a traditional tea ceremony at the Chinese New Year celebration on Feb. 11.

SIGNIFICANT FIGURES

ON THE RECENT DETECTION OF GRAVITY WAVES

The gravitational waves were detected on Sept. 14, 2015, at 5:51 a.m. Eastern Daylight Time (9:51 UTC)

$g = 9.80665\ m/s^2$ OR $32.1740\ ft/s^2$

Montana State University has been a member institution of the LIGO Scientific Collaboration since 2007 (responsible for detecting these gravitational waves).

The waves moved the LIGO mirrors only four one-thousandths of the diameter of a proton.

The force of gravity varies with latitude and increases from about 9.780 m/s^2 at the Equator to about 9.832 m/s^2 at the poles.

Compiled by Haley Cox • Designed by Kira Nuebel

HEARD ON THE WEB

@elliotcheese12

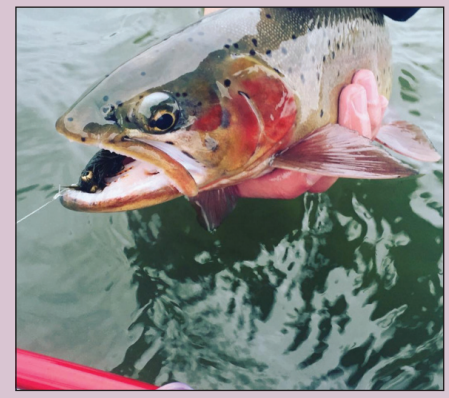


More bad snow... But fun tour!

@tpbrews

Happy 123rd Birthday to Montana State University! That is a lot of candles! GO BOBCATS. #MontanaState

INSTAGRAM OF THE WEEK



From streamer_demeanor's Instagram:

“Pissed off cutties on the two hander. #flyfishing #cutthroat #wildtrout #bozeman #montanastate

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THE MSU exponent

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The MSU Exponent is Montana State University's student-run newspaper, bringing together more than 70 students of diverse backgrounds and approaches in service of the public interest. We strive to contribute to the university's community by providing thorough, original reporting and creating space for public discussion about topics important to students. The paper is funded through a $4.90 annual student fee and advertising revenue. It is published on Thursdays during the academic year and is available online at *msuexponent.com.*

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MSU professor Neil Cornish discusses gravitational wave detection, research

By JULIE DONAGAN



PHOTOS BY BIIANCAA YEOH

MSU professor Neil Cornish is a member of the international LIGO team that has been researching gravitational waves.

On Sept. 14, 2015, an international team of scientists detected gravitational waves, opening a new realm of study in astrophysics. This was the first time that gravitational waves were empirically detected, 100 years after Albert Einstein predicted their existence. MSU physicist Neil Cornish was one of the members of this elite team of researchers.

Cornish has been a professor at MSU since August 1999. He previously worked in the field of theoretical cosmology, both at Cambridge as part of Stephen Hawking's research group and also at Princeton on a NASA project to map afterglow of the big bang. He became interested in changing his focus to gravitational waves because of all the possibilities the field offered. "It's opening up an entire new way of looking at the universe, the potential just seemed to be so great," he said. "It was like wide open territory, like going out to the West and there were all these opportunities where it hadn't all been picked over."

MSU is one of few universities with a program in extreme gravity, which led Cornish to Montana. "There aren't that many places in the world that actually have a focus on studying gravitational astrophysics and extreme gravity," he said. The program was founded in the 1960s by Ken Nordtvedt, who came to MSU from MIT and established a group focused on gravity and general relativity, hiring new faculty in the field.

In addition to its research opportunities, Bozeman's landscape appealed to Cornish. He grew up on a farm in the foothills of the Grampians in Australia, and he was happy to return to the mountains. "There was a department with a research focus in what I worked in also in a beautiful mountain setting, so it just seemed like the perfect fit," he said.

In 2007 MSU became the 42nd institution to join the Laser Interferometer Gravitational-Wave Observatory (LIGO) collaboration, a project which uses high-sensitivity detectors to search for gravitational waves. The LIGO project started in 1997 and began installing advanced detectors in 2011. The new instruments began operation in 2015.

According to Cornish, collaboration on an international level is becoming increasingly common, especially in the field of astronomy. "To be able to go beyond what has been done previously in astronomy you typically need a bigger telescope, more sensitive equipment, and these facilities cost hundreds of millions to billions of dollars. They're not something that a single researcher is going to be doing," Cornish explained. "We're definitely in the era of big science."

Currently, two MSU researchers are working on the LIGO project: Cornish and graduate student Meg Millhouse, using a data analysis method developed by Cornish and former MSU graduate students Tyson Littenberg and Paul Baker. "We've developed a technique that allows us to detect any kind of gravitational wave signal with no assumptions about what it looks like," Cornish said. Other analysis methods use pattern matching, making this method a unique way to search for gravitational wave signals in the trace plots produced by the LIGO detectors, which use lasers to track the distance between two mirrors. By not making assumptions, the the analysis program can pick up even unexpected signals, as signals have not been modeled for all cosmic events. "It opens up discovery space," Cornish said. The team's work was featured in the first figure of the gravitational waves discovery paper.

In MSU's extreme gravity group, there are three professors and eight graduate students doing research, as well as some undergraduate students. Only Cornish and Millhouse are officially members of the LIGO collaboration, but there are other research projects being done as well. Another one of Cornish's projects is using pulsar timing to detect gravitational waves. This technique is meant to pick up lower frequency gravitational waves produced by larger cosmic events.

The department as a whole does not require many university resources; as the research is mostly theoretical, the department does not require laboratory space. They use MSU's supercomputer — Hyalite Cluster — for some of their analysis, though most of the LIGO data analysis takes place on National Science Foundation-established supercomputers at CalTech. Cornish's research is supported by three grants: two from the National Science Foundation (one for LIGO and one for pulsar timing), and one from NASA for the development of a future gravitational wave detector that would go in space. According to Cornish, while extreme gravity research does not require a lot of university resources, they would benefit from greater supercomputer capabilities on campus.

Cornish's research extends into his teaching. For undergraduate courses, Cornish teaches through the Honors College, including the introductory physics sequence and Origins, a seminar focusing on the origins of life and the universe. "When I teach in undergraduate physics, I like to make connections to things that are going on in physics right now because balls rolling down inclined planes doesn't really generate much excitement," he said. Additionally, some of the analysis techniques used for gravitational waves are built into the final project for an undergraduate course on computational methods. "I like to bring as much of the research into the teaching as possible," Cornish said.

Cornish was confident that gravitational waves would be detected by the new LIGO instruments, but not necessarily during the first observing run. "I was a little surprised with just how quickly it all happened, but I was essentially 100 percent confident that the new instruments within the next couple years would make a detection," he said. He expects that within the next few years, tens to hundreds of gravitational waves will be detected. "Then we can really start to do some serious astrophysics. You can do a fair amount with one event, but you really start doing the astrophysics when you have hundreds."



The announcement drew quite the crowd, as students, faculty and community members alike gathered in the Procrastinator Theater to hear Cornish speak.

Faculty Profile: **Prof. Ryan Jones studies insects, bacteria abroad**

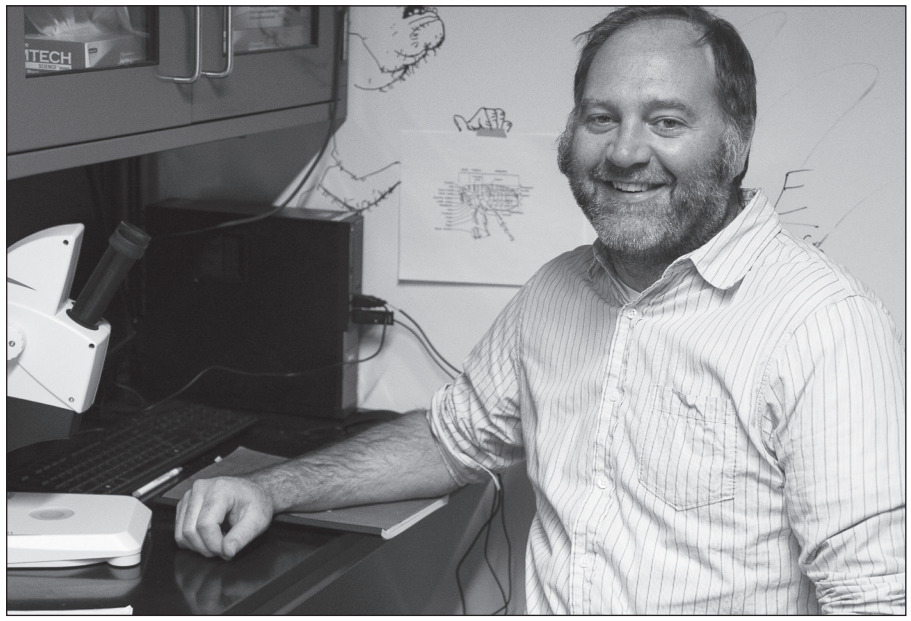


PHOTO BY CHRIS SANDISON

Ryan Jones will be part of an expedition to South America this year.

By DAVE ATKINSON

Most people do everything they can to avoid mosquitoes, ticks, fleas and other blood-sucking creatures and want nothing to do with any exotic Amazonian bacteria, but occasionally there comes an adventurous academic like MSU professor Ryan Jones.

Jones began working at MSU in 2013 as an assistant research professor in the Department of Land Resources and Environmental Sciences. "I sort of became interested in microbiology by accident," Jones said. His research was originally in the field of biology studying parrots and songbirds. He went on to attend graduate school where he learned how to generate and analyze DNA sequence data. Prior to coming to MSU, he worked in a genetics lab at the University of Colorado, where he studied the bacterial communities living inside fleas. This eventually led Jones to be considered a microbiologist, due to his growing experience in the field. However, he said: "I really consider myself an evolutionary geneticist / community ecologist who happens to study microbes."

On a mission to see how the bacterial composition in insects reacts with disease-causing pathogens in Peru's Loreto region, Jones is headed to South America for a four-week expedition supported by a $18,000 grant from the National Geographic Society. The Loreto region covers the vast majority of Peru's Amazon territory. Jones hopes to return with anywhere between 5,000 and 10,000 samples of insects to ensure the research conducted represents a wide range of both geographical locations and insect species. Following the collection of samples and selection of the group of samples to be researched, high-throughput DNA sequencing will be used to sequence the 50,000 to 100,000 bacterial DNA sequences to be found in each sample insect.

Using this method, Jones and graduate student Nick Pinkham will analyze how the non-harmful bacteria living inside insects impacts their ability to spread diseases. "We'll be working to determine the effects of biogeography on microbial community composition, and to assess the relationship between microbial community composition with the presence of specific disease-causing agents," Jones said. "If we see a disease that's prevalent in one area or another, we might find a correlation with bacteria that is present in the insect sample from that area. For example, other studies have shown that certain bacteria will limit the ability of mosquitoes to spread dengue." The research will ideally help in the prediction of where diseases are likely to spring up and spread.

In addition to his research trip, Jones will be taking students to the Amazon for two weeks this summer as part of his summer course on tropical diseases.

MSU professor wins CAREER Award

By ANN RUPERT



PHOTO BY COLTER PETERSON

Ron June is an assistant professor in the Deparment of Mechanical and Industrial Engineering

An MSU professor is conducting research which will potentially lead to new treatments for a disease that affects 50 million Americans. The National Science Foundation awarded Ron June Ph.D., an assistant professor of mechanical and industrial engineering, the CAREER Award: a $500,000 grant to further his work in osteoarthritis. He aims to develop a drug to regenerate the cartilage tissue the disease affects, which will require research that has never been done before.

June obtained his undergraduate degree in engineering sciences at Dartmouth College, where he was involved in research measuring acceleration in the heads of football and hockey players in order to develop more effective helmets. He moved on to graduate studies at University of California-Davis, where a wide array of research in biomechanics furthered his interest in cartilage mechanics, as did postdoctoral studies at the VA Hospital in San Diego in a rheumatology lab. He came to MSU in 2011 and began his research in osteoarthritis. June was granted the CAREER Award this month, which is a prestigious award given to a single junior faculty member who exemplifies the role of a scholar and a researcher.

Osteoarthritis occurs when the cartilage at the end of bones deteriorates, often affecting the knees, hips, spine and hands. With the largest risk for the disease being age, little can be done after diagnosis. The disease causes stiff and painful joints as cartilage is unable to keep up with regular wear and tear. This leads to a cycle of weight gain and worsened symptoms. There are no drugs currently available for treatment, leaving joint replacements as a last option. However, many patients cannot undergo the procedures due to the risks, and if eligible the surgeries are painful, expensive and can only be done a limited number of times.

This is where June is directing his work. "I would love to give the opportunity to people to live the last decade of two of their lives in dramatically less pain and with greater function," June said. "The goal of my research program is to come up with new ideas for drugs that can help to slow the onset of osteoarthritis." He is looking to determine the energy metabolism in tissue cells, and whether the cartilage is able to convert mechanical energy into biochemical energy. Ultimately, this could lead to finding drugs to aid in cartilage regeneration.

June's team consists of 12 MSU researchers. He coordinates with many departments on campus, as well in the Bozeman community and throughout the country. Due to a strong core in mass spectrometry and building of specialized equipment, MSU has a unique setup that has allowed for opportunities that other universities are unable to provide. Graduate and undergraduate students from a wide variety of fields are allowed to develop their own projects that aid in the basic research needed to understand the complexities of the disease.

Additionally, the MSU and Bozeman communities have been very collaborative in their efforts. Medical institutions in Bozeman have provided the team with raw material. Procedures done at the hospital and other establishments provide tissues and joints to the research team that otherwise would have been thrown away.

If June's hypotheses are proven correct, drugs may be developed to delay or stop the onset of osteoarthritis in the next few decades. He attributes the success of his program thus far to the emphasis MSU places on research. "Not only enabling but requiring faculty to do research is something MSU in particular is far-sighted on, and in my opinion, that will result in better experiences in the classroom," June said. "A lot people try to separate research and teaching, but I don't think you can. They need to be integrated, and bringing cutting edge research into the classroom."

The Warming Center provides shelter to Bozeman's homeless community

By DAKOTAH WHITING

It's the dead of winter, and a Bozeman man is chilled to the bone from the biting December winds. He yearns for a warm house and a steaming cup of hot cocoa but unfortunately has no place to call home. Instead, he is forced to crawl into the back of an open U-Haul truck to shield himself from the bitter cold. Slowly, he freezes to death, and his body is found the next morning.

This tragic story, which occurred in Bozeman during the winter of 2007, prompted the Human Resource Development Council (HRDC) to open a seasonal shelter called The Warming Center. This year is their sixth season in operation. The center is open seven days a week from 7 p.m. - 7 a.m. and is free for patrons. The shelter provides comfortable sleeping arrangements as well as hot showers. Everyone in need is encouraged to stay. "Trained professionals make sure every person is safe and comfortable. We dedicate ourselves to getting everyone back on track to being a safe member of our community," Housing Director Sara Savage said.

Though the Warming Center would ideally stay open year round, the major lack of funding makes it a struggle to keep the doors open even seasonally. The center costs roughly $120,000 a year to operate; that is $25 per person, per night. The center is funded entirely by community donations and when the cost of funding is not met, the center has no choice but to close early. "The ability to keep our doors open is utterly dictated on funding each year," Savage said. This winter, the Warming Center was excited to be able to open their doors earlier than usual on Nov. 1.

The number of people without homes is an increasing problem throughout America. Though Bozeman is progressing in the right direction, there is still a lot to be done. "Across the nation we are coming up with new ways to approach homelessness. From sober living to transitional housing, we need to put people directly into housing as soon as possible. It is important to understand that every challenge is different so there need to be different options for people. These people are human beings. Hearing their story shows you just how unique each and every one of them are," Savage passionately expressed. The Warming Center has seen over 170 guests since the beginning of November and they expect to see many more.

Prior to the Warming Center's opening in response to the U-haul incident, there were no resources available for Bozeman's homeless community. "The event woke up our community. These are our neighbors, we need to make sure our people are protected," Savage said. Though the Warming Center and other available resources such as the Battered Woman's Shelter and The Family Promise of Gallatin Valley are helpful assets to Bozeman, these alone will not end homelessness. "The most pressing issue in Bozeman is the amount of time it is taking our neighbors to get into affordable housing. With so few units available, and prices rising, the struggle becomes difficult. Being homeless, there are strikes against you making it much harder to compete for housing," Savage said.

After the Warming Center opened their doors in 2010, many MSU students have used it as a resource. According to the Free Application for Federal Student Aid (FAFSA), there are more than 58,000 homeless college students registered in the U.S. "If you are lost or confused this is a great place to start. Our staff are kind and empathetic, we are here to listen and to help," Savage said. Other MSU students can get involved by volunteering. "Time is the best gift students can give. Volunteering offers an incredible opportunity to understand the face of homelessness and learn their stories. Not everyone has a long beard and a cardboard sign, just like our community, homelessness come in all shapes and sizes. Homelessness is very isolating, giving up your time to help means so much to our guests, you give them a new sense of hope," Savage said.

According to Savage, long term goals for the Warming Center are "not for me to answer." She went on to say that, "This is a community effort, we cannot do it on our own. I am excited to start a community conversation on how we all feel and what we think an appropriate response is."

For more information, visit *thehrdc.org* or contact Robin Mayer at (406)-585-4853, *rmayer@thehrdc.org*

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MSU receives donation

By MORGAN KUNTZ

MSU's College of Engineering and South Campus project recently received a large donation from a well-known construction mogul. Tim and Mary Barnard of Barnard Construction Companies Inc., a Bozeman based construction and engineering firm, is pledging $6 million to the College of Engineering and the development of MSU's South Campus. The pledge has been divided with $5 million going to the South Campus construction and $1 million going exclusively to the College of Engineering to be used at their discretion.

The Barnards, although not alumni of MSU, have hired many MSU students from the College of Engineering. According to Traci Weller, senior director of development for the MSU Foundation, "Mr. Barnard's pledge is a way for him to pay back what the college has done for him and his business. He understands the quality of students that MSU produces." Of MSU's recent enrollment growth, 46 percent has been in the College of Engineering.

The remaining $5 million of the Barnards' pledge will go towards the construction of MSU's South Campus, which will be located across the street from the SUB. The project includes a parking complex and the Norm Asbjornson Innovation Center (NAIC), a state of the art learning facility geared toward "breaking down the silos between colleges," essentially closing the communication gaps between colleges and programs of campus.

Norm Asbjornson was born and raised in Winifred and was a 1960 graduate of MSU in mechanical engineering. He is the founder and CEO of AAON, a heating, ventilation and air conditioning company with annual revenues of over $300 million. The Tulsa, Oklahoma based company is also a NASDAQ traded company.

Asbjornson's vision was to create a learning space where all colleges can come together and collaborate. "You may be majoring in engineering and may not necessarily have ever communicated with someone that is a political science major or a landscape-design major and suddenly you are on a job and you realize there is more to constructing a building. You may have to talk to a political science major to finish a certain building and you need to know how to communicate," Weller explained.

The Norm Abjornson Innovation Center is a $70 million project and Asbjornson has already pledged $50 million towards the construction, which is the largest private donation in the history of the state. All of this is part of a new "What It Takes" campaign launched by MSU with the goal to raise $300 million by Dec. 31, 2018. "The campaign focuses on three main aspects: people, places and programs," Weller stated. "People includes money for scholarships, endowments, etc. Places includes the construction of buildings and programs essentially encompasses everything that does not fall into the other two categories." Including these two donations, thus far the campaign has raised $200 million.

Construction on the Norm Abjornson Innovation Center will begin in fall 2016 and is anticipated to be completed in fall 2018. The parking garage is already underway and is slated to be open for parking in January 2017. The garage will hold a total of 550 cars which will be an increase of 150 total parking spots over those lost due to the construction of the NAIC.

Lecture series explores immune system

By LILLY BROGGER

The human immune system protects against harmful microorganisms on a daily basis and has the ability to produce millions of pathogen-specific immune cells. Mark Jutila, a Bozeman native, is head of MSU's department of microbiology and immunology and a major contributor to the body of knowledge on the immune system. Jutila delivered a lecture at the Museum of the Rockies on Feb. 16 as part of the Provost's Distinguished Lecturer Series.

Jutila graduated from MSU in 1982 with a bachelor's of science in microbiology. He received a Ph.D. from Washington State University and did a fellowship in the Department of Pathology at the Stanford School of Medicine. In 1989, he returned to MSU.

Jutila began his lecture by giving an overview of how the immune system works. The body fends off a wide array of microorganisms on a daily basis, many of which are highly pathogenic. "We have rather exquisite mechanisms to fight off viruses, bacteria, parasites and fungi," Jutila said.

The immune system targets pathogens, or microorganisms that can harm the body, by targeting the molecules on pathogens called antigens. One example of a mechanism used to target pathogens is that the body makes antibodies. "Through some really wild mechanism those antibodies will eliminate, clear that pathogen from the body," Jutila said.

Jutila explained that this process almost always works, and that the proportion of the time that the body cannot fight off the pathogen and becomes ill is actually very small. The antibodies the body makes last a long time, which explains why once the body is exposed to a pathogen it can become immune. Jutila said the key point in this is that antibodies are highly specific, "They target the molecules that are unique to the given pathogen."

Jutila then explained that the body is capable of creating a defense for an impressive number of pathogens. "We have the capacity to make millions and millions of different antigen receptors each different by the antigen that they recognize," he said.

The lymph nodes and tonsils are places where immune cells proliferate, which explains why sickness is often accompanied by swollen lymph nodes and tonsils. The body is creating more immune cells. This is also why it takes a week to 10 days to get over things like a common cold. The body has to have time to mount its defense. Jutila also pointed out that the body creates antibodies before birth.

For the remainder of the lecture, Jutila discussed the work that came from his own studies. He emphasized the role of students and colleagues in the progress he was able to be a part of and humbly expressed, "This is not me."

Part of Jutila's research has focused on gamma-delta T-cells, which are a part of the body's adaptive immune system response and the body's immunity. His research into the body's inflammatory response has helped in the development of treatments for disorders like psoriasis. Currently, Jutila's research focuses on increasing the trafficking of immune cells in the body.



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FROM THE EDITOR'S DESK

Founders' Day Provides Time to Reflect on Growth

MSU may have turned 123 years old on Feb. 16, but the university is looking younger and better than ever. MSU was originally founded in 1893 as Montana State College of Agriculture and Mechanic Arts.



ERIN MURDOCK
Editor-in-chief

MSU has grown a bit since the initial enrollment of 46 students, and with that growth it is important to ensure that MSU is keeping the student experience in mind.

Each year it is increasingly evident that MSU is straining to keep pace with the growth. From struggling to find rooms in residence halls for the freshmen to students spending twenty minutes looking for a parking space — the struggles are obvious. MSU is responding to the cramped campus with additional infrastructure, albeit a little late, but additions from the parking garage to the new residence hall will provide certain areas on campus much needed relief. The parking garage provides a slight increase in parking spots, as it will accommodate 550 cars, 150 more than the previous parking lot provided. Jake Jabs College of Business and Entrepreneurship created 11 new classrooms that accommodates 440 students. The Norm Asbjornson Innovation Center will provide additional classroom and laboratory spaces, while the Yellowstone Residence Hall will house 400 new freshmen.

The last two years have seen exceptional struggles with residence halls. At the beginning of the last academic year, 89 students were placed in temporary housing. The temporary displacement undoubtedly had negative impacts on freshmen's first year experience — trying to soak in the college experience living in a dorm lounge with other students doesn't exactly scream "ideal freshmen experience." It also doesn't help when students go from their temporary housing to a cramped, under-equipped and overcrowded classroom.

Although, with the growth came expansion of several notable departments, offices and positions. The growth is apparent in the most subtle of ways — even in the SUB. In 2011, MSU committed to opening a Veteran Support Center, creating a welcoming space for veterans to connect with other veterans and resources, including tutoring and counseling, and to simply provide a space for veterans to call 'home' on campus. The Diversity Awareness Office used to be a half-time position before the school provided funding to not only change the half-time position to a full time position, but also provided an office space for Diversity Awareness on the third floor of the SUB. Broadening the scope of student services, however small they may seem, is incredibly important for ensuring that MSU does not lose its appeal and its student centered focus amid growth.

Broadening the scope of student services, however small they may seem, is incredibly important for ensuring that MSU does not lose its appeal and its student centered focus amid rapid growth.

It would be an understatement to say that the above changes are beneficial, but it would also be misguided to say such changes are enough. Each new student comes to MSU with a variety of needs, and as a school MSU should be doing all they can to ensure that all students have resources available to them — from increasing ADA access across campus to creating a staff position for LGBTQIA students — MSU needs to continue increasing services with increasing enrollment numbers. Happy 123rd birthday MSU, you're still looking better than University of Montana.



Fill these shoes.

Apply to be the Exponent's next Editor-in-chief.

Inquire at exponenteditor@montana.edu or visit SUB 366. Applications due Feb. 28.

The Value of Learning a Foreign Language

Higher education has more to offer than just classes to prepare people for careers; universities also offer classes that prepare you for life itself and make you a more well-rounded individual overall. Learning a foreign language is the most practical way to gain real-world knowledge in the classroom.



ALEX LEI
Staff writer

There are the obvious uses of learning a foreign language; for instance, if you plan on traveling or doing business in a foreign country, knowing the native language will make life significantly easier. However, knowing a foreign language serves a much greater purpose on a personal level. The fundamental act of learning a non-native language forces you to re-evaluate the world and perceive it through the eyes of someone else. Quirks of other languages, such as gendered pronouns or words that don't have a direct equivalent in English, serve as windows into another world: in order to learn another language, you have to learn another culture, and in doing so you'll expand your worldview.

Becoming fluent in a foreign language can be a long and difficult process, but in the end it's about more than just how to make sentences or read different kinds of characters. You will come out with a better understanding of the English language. The ability to speak and communicate with others in our native language is often something that develops relatively naturally over time, and is thus very easily taken for granted. Foreign languages force you to look at the idea of language differently, and allow you to become more intentional with word choice in daily dialogue.

Becoming fluent in a foreign language can be a long and difficult process, but in the end it's about more than just how to make sentences or read different kinds of characters.

In this sense, the value of learning another language cannot be properly quantified. It is not as simple as the idea that "this class will help me complete this degree to get this job." While there are more job possibilities when you know a foreign language, the overall value goes beyond what you're adding to your resume. Learning another language should be a natural part of higher education, because it makes people more intelligent and well-rounded such that they can live better lives, which is, after all, one of the most important reasons to get an education in the first place.

This is more in line with the idea of a liberal arts education, which, as David Foster Wallace put it, gives you "the choice of what to think about." This way of thinking sums up both the practical and personal value of that kind of education, and if that sounds at all appealing than learning a foreign language is a great first step towards that. MSU currently offers courses in Arabic, French, German, Japanese, Mandarin Chinese and Spanish. Any credits beyond 12 don't add to tuition costs, and MSU offers the option to audit classes, meaning they're not factored into GPA. So I guess the only question regarding learning another language is "Why not?"

POLITICAL CARTOONS



ILLUSTRATION BY CHRIS MYERS

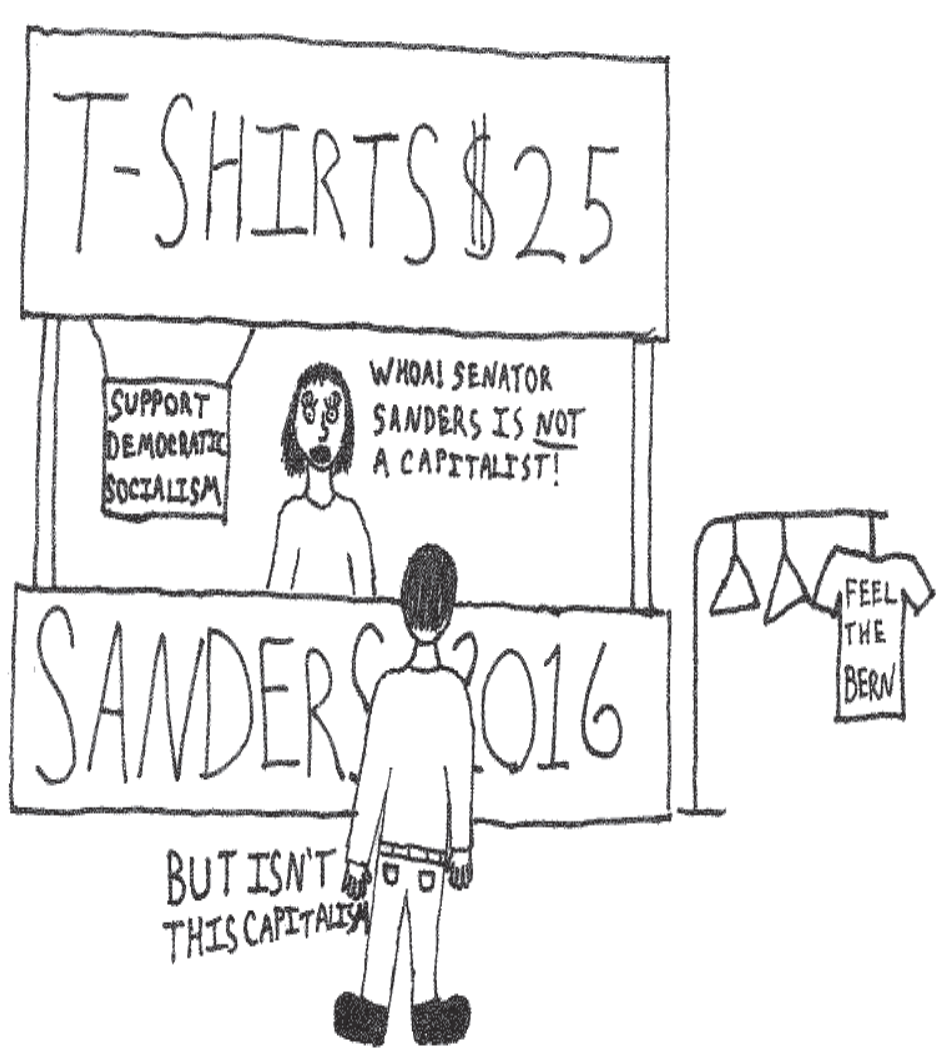


ILLUSTRATION BY CHRIS MYERS

APP-TIME WITH CHRIS

Digital Society Sheds Virtual Weight

Regardless of age, gender or social status, everyone is beset with self-doubt concerning their personal appearance. This self-doubt motivates virtually everyone to enhance or alter their looks with distinct clothing, jewelry, makeup, diets, hairdos and so on. There is no end to the extent to which members of society will go in order to make themselves attractive. Similarly, there is no end to the manners in which people will attempt to take advantage of others' insecurities.



CHRIS MYERS
Staff writer

An app that finds itself enveloped by issues in body image is photo editor SkineePix — designed to make people look up to 15 pounds thinner. The app works only with single headshot selfies and claims to "level the playing field" by removing the 15 pounds cameras supposedly add to a person's figure.

Though it is intended to help its users feel better about themselves and their photos, the app only adds to the societal pressures placed on appearance. The American populace has habituated itself to an unbending standard of beauty preserved by magazines, movies, television and most other forms of media. What is worse is that there is a specific demographic being targeted: young women. Most body image research shows that women are far more disapproving and judgmental of their appearances than men. There is more value and judgment placed on the female beauty standard, meaning young women have greater pressures to maintain an attractive appearance. These pressures, combined with other factors, can have severe consequences including mental health issues and eating disorders; SkinneePix is only contributing to the problem.

There are claims that the app promotes an unhealthy body image that may motivate women to adopt unhealthy behaviors. For young girls already insecure about their physical appearances, as well as vulnerable to disorders, apps like SkinneePix could contribute to anorexic and bulimic behaviors.

SATIRE

Goodbye Football, Hello Parking

Tens of Bobcat football fans are becoming concerned by the growing interest in replacing Bobcat Stadium with a massive parking complex. In recent years, MSU's football team has proved that increasing enrollment rates are not enough to beat the Grizzlies, so the administration is seeking to kill a half dozen birds with a truck full of concrete: end the Bobcat/Grizzly rivalry and increase the university's total revenue by replacing the Bobcat football stadium with a parking structure that would make more money with four parking passes than Bobcat football ticket sales grossed since 2010.



ALEX LEI
Staff writer

Representatives from MSU's Sports Facilities Department have claimed that the new parking structure would keep the spirit of Bobcat football–tailgating–alive while getting the redundant and expensive football game out of the picture. The NCAA is fully endorsing this move by schools in lower-tier conferences, potentially saving them billions in the long run. The NCAA's contractual 15 percent profit from these new parking facilities only further motivated them to get behind the move.

Tailgaters have been especially in favor of this shift away from football and continue to push for parking reform. Tailgate AdvoCat Rick von Sloneker was quoted saying, "The halftime no re-entry policy is, like, really killing the mood." von Sloneker has hopes that the freedom of the parking garage will bring tailgating back to being "pretty dope," in his own words. Montana Hall refused to comment on this statement.

According to financial projections, the monetary loss of the tens of Bobcat football fans will net out after the parking garage has been operational for approximately 43 minutes. Admins are advising current MSU football players to either switch to pre-med or transfer to the University of Oregon. The general consensus by the community is that this move away from attempted 'sports culture' will overall benefit both MSU and the community of Bozeman, both financially and socially.

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Bridger Bowl: Bigger Than Ever

Community Spirit Remains

After a night of snowfall, while most MSU students file into rows of tiny desks to await 50 minutes of lecture, others board the first lift of the day at Bridger Bowl, preparing to ski untouched powder. From locals who have been skiing Bridger Bowl their entire lives to out-of-state students who were drawn to Bozeman by powder-dusted mountains, MSU is home to a passionate skiing community.

The campus climate at MSU is shaped by its students and faculty, consisting of academics, activists, athletes, sports fans, artists and a variety of other groups. One strong and relatively large subset of the MSU population is its outdoor community, many of whom are skiers. Bridger Bowl's proximity to campus and relative affordability for students attracts a specific group of people to MSU who contribute to the overall character of campus. As MSU and Bozeman have grown, so has Bridger Bowl. Though much has changed physically at Bridger, its roots and ties to the MSU community have remained strong.



BRIDGER BOWL ILLUSTRATION COURTESY OF JIM NIEHUES



Humble Beginnings

Officially founded in 1955, Bridger Bowl recently celebrated its 61st anniversary as a Bozeman landmark. Unique for its backcountry service, its non-profit status and its small town vibe, much has changed at Bridger over these 61 years, but much remains the same. The truly dedicated locals began hunting out the cold smoke the mountain resort is known for in the 1940s, before chairlifts, lodges and other amenities were even imagined. With enough of a following, the State of Montana decided to purchase a 120 acre chunk of land and turned it into the Bridger Mountain State Park. Its lone tow rope wasn't enough to hold the public interest however, and the park struggled.

The mountain wasn't out of commission for long though, as local skiers banded together and reorganized into what is now known as the Bridger Bowl Association. Operating as a non-profit, the association first relied on volunteers in order to build the original lifts. The iconic red chair lifts popped up in the mid-1970s and can now be found on campus or around town. The late 1980s and early 1990s brought more rapid expansion. In 1988, the Jim Bridger Lodge replaced the old base chalet, and the Deer Park Chalet at mid-mountain received a facelift in 1996. Other renovations such as the stairway to the Jim Bridger Lodge, some snow-making capacity, the Powder Park quad lift and another base lodge, Saddle Peak, opened to keep pace with ever-growing demand.

An Ever-Evolving Landmark

On Jan. 17 of this year, Bridger experienced the busiest day in its lifetime. Over 5,000 people made the trip up the canyon to the ski hill. A normal weekend with new snow usually attracts 3,500 to 4,000 people, so the big jump came as a welcome surprise to Bridger Bowl's General Manager Randy Elliott. Hired to his current position in 2004, Elliott has overseen a number of expansions and renovations to the once-small ski resort. Once a meager size, the ski hill now boasts over 2,000 acres of terrain. Its most recent expansion, Schlasman's lift, began operating in 2008. Named after a miner who died in a 1885 avalanche, the expansion brought new, accessible backcountry area to the Bridger community.

On Jan. 17 of this year, Bridger experienced the busiest day of its lifetime.

"We went a long time without doing much to lifts, until basically 1995 when we started replacing the old Riblet lifts that were built in the 1960s and 70s," Elliott remarked. "And that only happened because Bozeman grew and we were able to get out of debt and with the growth of Bozeman and the increase in skier traffic which has led to even more traffic. It's kind of like what you've seen with MSU and it's really blown up quite a bit since the 80s and 90s."

The expansion of the physical boundaries also accompanies an expansion of the clientele at the resort. At one point, only technically advanced skiers could tackle the wide array of skiing the mountain offers. That is no longer the case. "With the new equipment now, everyone's a powder skier," Elliott continued. "It used to be that, back in the 70s and 80s, you used to have a certain number of folks who would come because it was much more difficult to ski powder, and others who would only seek the groomed runs."

"With the new equipment now, everyone's a powder skier." - Randy Elliot, Bridger Bowl general manager

But more than just the capabilities and types of skiers has grown. Thanks to the modern upgrades, relative affordability of the hill (about half the price of nearby Big Sky Ski Resort) and accessibility and popularity of the surrounding area, Bridger sees more skiers from across the globe than ever before. Elliott would know better than anyone — he has been with Bridger Bowl since 1977, starting as part of the ski patrol.

"There are definitely more people traveling to get here. With the growth of the airport, it's easier to get here than ever. It used to be pretty much just drive traffic and now we see more people fly in on the direct flights, rent a car and hotel in Bozeman and ski Bridger. It's a pretty economical option compared to flying in to some of the bigger resorts."

Capturing the Cold Smoke

While the resort has certainly moved past its humble beginnings as a local mom-and-pop operation, the cooperative spirit stays firm, even in the explosion of the Bozeman area. What changes might be in store for the mountain in the next decade? The Bradley Meadows area is one future expansion spot toward the north, but likely not until the in-bounds area is filled in more. Bridger operates on a lease from the Forest Service, so expansion is a much more complicated process than it may be for other areas. But with profits reinvested into the mountain, rest assured that no matter how much changes at Bridger Bowl, certain things will stay the same.

"I think most everybody would say the roots are still there," Elliott concluded. "Everything evolves in time, but I think that people really take pride in being the local area and a lot of people have been skiing this area for a long, long time and that flavor hasn't changed too much."

WRITTEN BY DAVIS CONNELLEY
AND JULIE DONAGAN
LAYOUT DESIGN BY VALERIE SEELYE

MEN'S BASKETBALL

Record-setting Bobcats fell Lumberjacks, bring down Thunderbirds

By IAN BREUNER

The Bobcat men took advantage of a week of home games and defeated Northern Arizona 101-58 and Southern Utah 80-73 in conference games in Brick Breeden Fieldhouse.

On Thursday, Feb. 11 the Cats hosted the Lumberjacks from Northern Arizona. The Cats rode hot shooting the entire game, shooting 55.6 percent from the floor and 58.1 percent from beyond the arc. The Cats rained in a Big Sky record 25 three-pointers en route to a 101-58 victory over NAU. Senior guard Marcus Colbert got things started for the Bobcats, knocking down his first three just 28 seconds into the first half. Leading 11-8, the Cats went on a 25-0 run to expand their lead to 36-8. By the end of the first half the Bobcats established a commanding 38 point lead, outscoring the Lumberjacks 56-18. "I thought defensively and rebounding we were pretty good in the first half," MSU Head Coach Brian Fish said. The Cats out-rebounded the Lumberjacks 28-7 in the first half as well as out-shooting them 63.3 percent to 17.4 percent.

MSU's first-half fire carried into the second, as freshman guard Tyler Hall nailed a three just 10 seconds into the second half. This sparked a 19-8 Bobcat run, and the Cats established their largest lead of the game at the 14:21 mark. MSU led 75-26, a remarkable 49 point lead. The Cats cruised



PHOTO BY COLTER PETERSON

Marcus Colbert shoots one of a multitude of threes in a record-breaking game against NAU.

to a 101-58 win over the NAU, setting a NCAA record for most three-pointers made this season, and were only three away from an all-time NCAA record. "They were good shots," Fish said. "They were penetrate-and-kick, they were shots we practice, and tonight they went in." The Bobcats had five players in double-digit scoring, four of them reserves. Hall led the Bobcats in scoring, racking up 29 points, with 23 of them in the first half. Freshman Sam Neumann had a career high 15 points on 5-5 shooting from beyond the arc and junior Nahjee Matlock scored 13 points while dishing out 10 assists.

The Bobcats followed up that impressive performance with a conference win over Big Sky rival Southern Utah on Saturday, Feb. 13. The Cats started the game off with a 19-6 run to take a 13 point lead at the 12:34 mark in the first half. The Southern Utah Thunderbirds cut the lead to 11, but the Cats pushed it back out to 14 at the end of the half. The Bobcats lead 40-26 at intermission. MSU continued to control the game in the second half, keeping a double digit lead for most of the second half. The Thunderbirds would not go down quietly, however, and with a minute and 20 seconds left, cut the lead to only three points. With the team only leading 73-70, Colbert stepped up and answered with a three-pointer, an assist to a Zach Green dunk and a pair of free-throws to seal the game for the Bobcats. Colbert finished with 11 points, three rebounds and a season high nine assists despite a slight leg injury. Hall led the Cats in scoring again, scoring 14 points as well as snagging three steals. MSU now stands above .500 with the win, reaching 7-6 in the Big Sky Conference.

The Bobcats travel to Missoula next Saturday, Feb. 20, to take on the Grizzlies of Montana. Tip-off is at 7 p.m. in Dahlberg Arena.

Women's basketball takes over top spot in conference

By PATRICK ALLARD

The Montana State women's basketball team faced two close contests on the road this past week that resulted in back-to-back wins, giving the Cats its 19th win of the season, and their 12th overall Big Sky Conference win. This records gives the Cats top standing in the Conference over teams like Eastern Washington (11-2) and Idaho (10-3). These wins have great significance elsewhere as they mark MSU Head Coach Tricia Binford's 100th Big Sky Conference win since her coaching debut 11 years ago.

The Bobcats rode down to Flagstaff, Arizona to face NAU for their first game of the week. Despite NAU's weak record (6-17, 2-10), their aggressive board play gave the Cats a run for their money. Points in the paint, total rebounds and field goal percentage were all nearly tied. Every type of play of the game was tight, and if weren't for MSU's 13-3 final run, the Cats wouldn't have been able to break away from NAU in the middle of the fourth quarter. The game featured eight ties and five lead changes, most of these occurring in the third period. Senior forward Jasmine Hommes and senior guard Lindsay Stockton each finished with a team-high 19 points. Hommes went 8-of-14 from the field and added seven rebounds. Stockton went three-of-four from 3-point range and dished out a game-high seven assists, as well. The win, coupled with North Dakota's 72-69 victory over Eastern Washington, put the Bobcats in sole possession of the top spot in the Big Sky Conference.

"It was a tough game to get into any kind of a flow," Binford said. "It was hard to establish a tempo, but I'm proud of the kids and their resiliency. Everyone stepped-up and just made plays to finish the game against a really tough opponent."

After Thursday's nail biter against NAU, the Cats headed back up to Utah to face the Southern Utah Thunderbirds. The first quarter saw the Cats fail to establish any flow in the offense, much in part due to SU's tenacious crashing defense. The Thunderbirds severely out-rebounded the Cats (39-50), but this is coupled with allowing 12 takeaways, overshadowing their dominant board performance and giving the Cats more possession time. "Southern Utah was crashing all over and we had no answer for them on the glass," Binford said. "Give Southern Utah credit, they played hard and hit shots. It was a tough first half."

In the second half, the Cats were able to get a grip on the offense, shooting 44 percent in the field. The Cats began to break away and never looked back, never forfeiting the lead back to SUU to finish the game 87-66.

Montana State earned a well deserved break this week before facing rival Montana in Missoula Feb. 20 at 7:05 p.m.

Bobcats sweep competition, prepping for Conference Championships

By JULIA CONNELLEY



PHOTOS BY PARKER FAIREY

Zach Sharp threw 18.16 m. in the meet.

On Feb. 12, the men's and women's track teams swept up the competition in a dual meet against University of Montana, Weber State and University of Northern Colorado. The men's team beat Weber State 81.00 to 61.00, Northern Colorado 85.00 to 55.00 and Montana 82.00 to 64.00 points. The women beat Weber State 89.00 to 53.00, Northern Colorado 89.00 to 54.00 and Montana 81.00 to 68.00 points.

For the women, sophomore Amanda Jaynes and junior Daryan Box placed second and fourth in the 200. Junior Josephine Petruska placed fourth in the 400 meter with a time of 57.56. Junior Kaylee Schmitz placed first in the 800 meter, running an adjusted time of 2:08.55, just 0.05 seconds short of the MSU school record set in 1998 by Christine Otte, with teammate freshman Kendra Larson behind her in third place. Freshman Alyssa Snyder won the 1,600 meter with a time of 5:03.79. The Bobcats placed second in the 1,600 meter relay with a time of 3:55.83. Seniors Alisa Gilchrist and Danielle Rider placed second and fifth in the high jump, with jumps of 5-05.00 and 5-03.00, respectively. Rider also placed third in the long jump. Senior Leah Cook took first in the triple jump with a jump of 36-05.50. Senior Casey Teska, once again, won the pole vault with a height of 12-05.50. In the weight throw competition, the Lady Cats placed third through fifth.

On the men's side, sophomore Mitchell Horning placed third in the 60 meter dash with a time of 7.02 seconds. Freshman Jadin Casey and junior Eric Zechenelly placed fourth and fifth in the 400 meter. Freshman Samuel Bloom won the 800 meter in a time of 1:57.04. In the 1,600 meter, sophomore Diego Leon and freshman Martin Ponce took first and second with times of 4:20.65 and 4:21.97, respectively. Freshman Matthew Gotta and Justice Lamer placed first and second in the 5,000 meter. Gotta ran a winning time of 15:14.51, more than 21 seconds ahead of his competitors. The men's 1,600 meter relay took second with a time of 3:19.87. Junior Austin Decker placed second in the pole vault with a jump of 15-03.00. Senior Kevin Close placed first in the triple jump with a jump of 46-01.25, with teammates junior Trevor Simanski placing second and sophomore Alex Lewis placing fourth. Sophomore Kyle Douglass remains first in the Conference in the shot put, placing first with a throw of 53-01.00. Sophomore Calvin Root placed second in both the shot put and the weight throw, behind senior Zach Sharp, who threw a winning toss of 59-07.00 in the weight throw.

The Bobcats have qualified 13 men and five women with automatic marks. For athletes that have not already qualified, the Last Chance Qualifiers meet will be held on Feb. 19 at the Brick Breeden Fieldhouse. There are 27 possible entries for the top 16 in the Championships, with 19 Bobcats on the men's side competing for those entries. The Cats have 19 women in the top 16 looking to place in 26 event entries. Conference Championships will be held at home, in the Brick Breeden Fieldhouse, on Feb. 25-27. There is lots of hype for the Bobcats going into the next two meets. As MSU Head Coach Dale Kennedy said, "Only two more meets until showtime!"



Tristan Gray competes in high jump at the meet on Feb. 12.

SPORTS BRIEF

Women's tennis wins first home meet

The Montana State women's tennis team got off to a great start at home this season, defeating the University of North Dakota 6-1. After capturing the doubles point, the Cats got wins from juniors Laura Middel, Jess Brycki and Shelby Cerkovnik, as well was sophomore Angelina Philippova and freshman Linda Vink to earn the victory. The win is the Cats' first under new head coach Jon Reeves.

Both the men's and women's tennis teams will play at home this weekend, Feb. 20. The men face the University of Montana Grizzlies at 11 a.m. and the women take on Portland State at 5 p.m. Both games will be at the Bobcat-Anderson Tennis Center.

– DAVIS CONNELLEY

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Winter rock climbing destinations for the cabin crazed climbing crusher

By PARKER WEBB

Regardless of the climbing style — be it trad, bouldering or sport climbing — we all are itching to get out on the rocks. Luckily, within close distances to Bozeman there are options for all climbing types to get out and crush this winter. For directions to all of the crags and more information on the climbs there, check out Mountain Project. To maximize your fun for winter climbing, remember to layer up and study up on what the weather is supposed to do for the day you'll be out.

Sport Climbing: Allenspur

For those looking to clip bolts and whip big, the best option for winter rock climbing would be Allenspur. Located in Paradise Valley and roughly 30 miles from campus, Allenspur gets afternoon sun, which helps keep temps warm enough to climb. Please do all Southwest Montana climbers a favor and read about the access issues for Allenspur, and practice good crag etiquette — the owners of the land below Allenspur are very generous to allow people to climb there, and the ability to go there can be taken away at any time. With climbs mainly in the 5.9 - 5.11 range, it is perfect for the moderate sport climber looking to whip hard and have fun in the sun. While definitely not warm all the time, tracking weather windows can add to the enjoyment and allow you to feel your fingers while crimping down. The must-do route is Flake Fest, a 5.10b climb located on the 7-11 crag. Starting up a slight corner leads into big jugs on a slightly overhanging wall. A sixty-meter rope with twelve quickdraws will work for most climbs. Bring a rope tarp, and leave the dog at home.

Trad Climbing: King and Queen Spires, Pipestone

While not the closest option for trad climbing near Bozeman, the King and Queen Spires located near Pipestone and Delmoe lakes are definitely the greatest choice for trad climbing in the winter. Normally holding warmer temperatures and milder weather than the Gallatin Canyon, these spires offer quite a variety of climbs. The Queen holds shorter routes, many of which can be top roped, and a mixture of trad and sport routes. With climbs from 5.6 up to hard 5.12, anyone can find good climbs in these Spires. A great beginner trad lead is Beginner's Lead, a moderate, gear eating crack.. A classic for the Queen is Cruise Control, an overhanging hand crack rated at 5.10b. Both of these routes tend to get their fair share of sun, perfect for winter weather. The King offers longer lines, including a few multipitch routes. A single rack will work for most objectives, however a double rack to a number 3 Camalot would be ideal, with a 4 and 5 as well. When you get bored of the roped climbing, there is a multitude of bouldering nearby as well. A 4WD car is a must unless you want to walk further, as it is an off-road ATV trail to get to the main parking area. Subaru Outbacks can make it, however you will bottom out once or twice.

Bouldering: Madison River

I'm going to start this with stating that I am not a boulderer and have only bouldered outside less than ten times at the most. However, I think I know of some outdoor bouldering opportunities for winter. The best, in my limited opinion, is bouldering on the Madison river. Roughly 40 miles out of Bozeman towards Norris Hot Springs, the Madison river bouldering is great for all types of climbers. Needing only one pad at a minimum, the boulders are short but tricky and cruxy. With numerous boulders from V0 to V7, there are various types from crimp ladders, slopers to arête problems. A favorite of the area is The Butterfly Effect, a one move wonder V5 moving from a jug, heel hook start to a hard crimp, then jugs to top out. Since your skin will be soft from pulling on plastic, I highly recommend getting some quesadillas at Norris Hot Springs afterwards and relaxing in the warm water. More information can be found by googling Madison River bouldering, or checking out "SW MT Blocs" by Erik Christensen.

Winter in West Yellowstone provides plenty of opportunities to explore

By ANDREW WATERS

With pristine wilderness, well groomed trails, geysers and mountains, West Yellowstone offers plenty of adventure, even in winter. The challenge is determining what to do. In Montana that challenge is even steeper with so many opportunities to explore what is around us. While there are plenty of local attractions to keep us busy (the M, Drinking House, Bridger Bowl, Big Sky Ski Resort, Hylite) one that often gets overlooked is Yellowstone National Park.

The majority of roads that access the interior of the park are closed from early November through mid-April, generating the misconception that the park as a whole is inaccessible. To be fair, only three percent of the park can be accessed by road anyway, so for tourists the park is, by their standards, inaccessible to begin with. But Yellowstone during the winter is just as exciting as it is during the summer. With pristine snow-capped mountains overlooking plains that is the type of wilderness that makes you truly understand the purpose of National Parks in the first place. Without the influx of tourists, even the mundane sections of the park become transcendent.

To get to Yellowstone, head toward the West Yellowstone entrance, along US-191. It typically takes around two hours to get there depending on weather and any detours planned. The drive is almost half the fun, following the Gallatin River through the mountains with peaks on both sides continuing on and past Big Sky. Once you reach West Yellowstone it can be almost eerie and seems deserted. During the summer it's almost unbearable how many people compact themselves into this small town. You can hardly tell that you are now in what many consider "Nordic Mecca."

The Rendezvous trail system is more than 21 miles of rolling groomed trails that can be taken on by even the most novice of skiers. The different heights of pine trees make for varying degrees of shade that cause for amazing tunnels that lead to open views of the mountain ranges.

While cross country skiing is a main attraction, you can also take part in many other activities. Those include snowshoeing, backcountry skiing, hiking, snowmobiling and a few others. It is advisable to bring your own lunch as the prices are significantly higher in the area. Overall the trip is worth it for whatever activity you are looking to do. Get out there and try a new adventure.



ILLUSTRATION BY MAGGIE WEEDMAN

Next week: Gamer's Paradise — Student Film — Sexponent — Flashback Review — Film Festival

Bozeman favorites Cure for the Common touring Northwest

By BROOK GARDNER-DURBIN



PHOTOS BY CHRIS SANDISON

Cure for the Common plan, play-through and rearrange their set for their upcoming tour.

Cure for the Common is Bozeman's favorite local band. That is no exaggeration — it is simply a fact. The electro thunder funk (as they like to be known) group played more than 100 shows last year, and their dedication paid off with wins for both best local album and best local rock band of 2015 in Bozeman Magazine's readers poll.

Like most local acts, Cure for the Common has gone through more than a few lineup changes since formation in 2008 ... or 2009 ... or was it 2010? Half the current members only know the origin story through folklore at this point, and the others can't settle on a date. Some considered the group "formed" when the members first performed live together, others when they first met and others when the crew first began recording for their first album together.

The group consists of either five or six people, depending on whether or not you count Frank Douglass, the man behind the band's impressive light show. While he doesn't usually contribute musically, Douglass has been known to take a break from working the lights to sing the occasional novelty song — The Doors' "Ghost Song" for a Halloween show or Flight of the Conchords' "Business Time" for a New Year's Eve celebration. The musical members of the group include two guitarists, a bassist, a keyboardist and a drummer drawn to Bozeman's music scene from around the state. Several graduated from MSU.

After finishing their day jobs, the group gathers for rehearsals at least three times a week, where Douglass helps with feedback. The group also records many of their live shows, allowing them to critique their performances and see where they need to focus. Unlike many small acts, Cure for the Common is not content with taking it one show at a time — they have ambition.

"You can see, every year, we're closer to full time," said Garrett Rhinard, the keyboardist. "We're phasing out the day jobs."

Joe Sheehan, the drummer, elaborated on their 10 year plan: "We're trying to play The Gorge by 2024. I think that would mean we had made it."

In the meantime, the group is trying to get work in commercials or get their music played in airports, "anything to get it heard," Douglass said. "We're focusing on the live show, not trying to mail out cds to big labels and get signed." While the group resists the label "jam band," which has sometimes been attached to them, they draw inspiration for at least their business model from acts like The Grateful Dead and Phish.

Everyone in Cure for the Common cares deeply about not only their own music, but using their gift to help others. Rhinard said he'd eventually like to form a label to help further promote the Bozeman music scene, and the group regularly plays benefit concerts. They are in the process of setting up a non-profit to give a percentage of their proceeds to "help perpetuate culture and the arts in Montana. We're growing to the point of being able to do some real good," Sheehan said. Jordan Rodenbiker, the bassist, added that "one of our goals is to put Montana on the map."

Living in Montana places a strain on the group. Last summer they spent a month touring festivals in the Southeast and were repeatedly asked questions like "What state is Montana in again?" or "Montana — that's in southern Canada, right?"

"It's hard to get to bigger markets," Sheehan said, "but part of the reason we're even a band, we even met each other, is because we love living here." The group has discussed moving to Denver or another bigger city to gain a larger audience, but so far the appeal of the Bozeman vibe has kept them local.



Steven Brown sings and plays guitar in Cure for the Common.

That isn't to say they can never leave town. The band plans to go back to the Southeast festival circuit again this summer, and at the moment, the group is preparing for a tour across the Northwest with another genre-defying band, North Carolina-based Papadosio.

The tour will kick off in Jackson, Wyoming before coming to Bozeman's Emerson Theatre later this week, and the band is eager to get back on stage.

"It's going to be a full Emerson," they promised. "It'll be a fun, rowdy show. We are going to deliver 60 minutes of hot fire."

Cure for the Common will perform at the Emerson on Wednesday, Feb. 24 at 8 p.m. Tickets to the all-ages show are $20 and available at Cactus Records in downtown Bozeman or online at *cftcband.com*.
The band's albums are available at *cureforthecommon.bandcamp.com* on a pay-what-you-can basis.

The Vibe Quartet highlights 406 atmosphere



PHOTO BY CHRIS SANDISON

The Vibe Quartet consists of guitarist Weston Lewis, upright bassist Haley Ford, drummer Jerrad Highman and keyboardist David Charles

By ADAM WALDORF

If you've never been to the 406 Brewing Company, you're missing out on great dining, great beer and great music. 406's food and beer will draw you in, and the music will make you stay. The music is unique, easy to listen to and full of energy. The most unique of all of the bands that play there is The Vibe Quartet. Their "jazz jam improvisation" music will grab your attention and keep you begging for more.

The Vibe Quartet consists of four members: Haley Ford on bass (both electric and upright), Weston Lewis on guitar, David Charles on keyboard and Jarrad Highman on drums. Most of the members of the band have been, or currently are, students at MSU. The only exception is Charles, who is a professor at MSU, teaching History of Jazz and World Music. They play every Thursday night at 406 Brewing from around 6 - 8 p.m. Primarily, the band improvises everything they play with an original theme to their music. However, they don't limit themselves to just improvising jazz music.

"We mainly focus on improvisation and jazz, but our style does vary away from that," Ford said. "Our music is almost entirely originals that are made up on the spot, but we also do some covers of classic rock, metal and sometimes even pop. We also have a couple of songs we call 'dub songs' which have a dubstep feel, which is very unique for a jazz-style band. It is different from everything else we do and really grabs the audience's attention."

The band has been the house band for 406 Brewing for about three years. "Our first gig was at 406," Ford remembered. "We have played at lots of other bars and breweries, but we're here every week, and we all love it here. I love the atmosphere and everyone seems to really enjoy what we do. We're the first consistent band that 406 has kept for this long."

Everyone in the band performs with a high level of energy and the members are able to feed off of each other. Ford said the best part about the band is that they have freedom with improv to do what they want: "We don't have limitations on what we can do, with the ability to start with one thing then instantly transition to something else almost effortlessly. With just a simple glance or head nod, we all know that we're going to transition to something else along with how we're going to do it. The audiences really sound impressed with our ability to transition. Being able to transition like this lets us feed off of each other's energy well and adds a lot to our sound." After listening to a bit of their playing, their transitions were indeed impressive and the abundance of energy in the group was apparent.

It's easy to see that The Vibe Quartet plans to be around for awhile as they all enjoy working together. They get along well, and a major part of their dynamic is a shared love and level of intelligence for jazz music. Over time, this love of music has developed a respect amongst the members of the group and basically has negated any egos that may have been present. They all live to play with each other and it shows with how they act and play.

If you're ever hungry and thirsty on a Thursday, there isn't a better place to go than 406 Brewing. You'll get great food, great drinks and you'll be able to listen to some of the most unique, energetic music that Bozeman has to offer.

PROCRASTINATOR PREVIEW

By ADAM WALDORF

The Good Dinosaur

Disney Pixar takes us back to the prehistoric era when dinosaurs roamed the Earth and humanity was still losing their minds over fire and wheels in "The Good Dinosaur." It is a beautifully animated movie that just falls short of being memorable.

In "The Good Dinosaur," a young Apatosaurus named Arlo is having a normal dinosaur day. However, his day is completely thrown out of whack when he discovers a caveman human. Against all odds, the two of them become friends and go on an adventure where they must face their fears and trust each other. Throughout the movie, their friendship blossoms and they grow up together.

"The Good Dinosaur" shines is in its animation. The movie is beautifully animated, and you won't want to take your eyes off the screen. However, that's about all of the positive aspects of the movie end. "The Good Dinosaur" lacks an intriguing story, just being a lot of things that happen to the unlikely duo. The voice acting, despite featuring some big names such as Sam Elliot, Anna Paquin, Jeffrey Wright and Frances McDormand, is also poor, taking away from the intense and emotional scenes.

The Big Short

"The Big Short" went under a lot of people's radar, as it didn't start advertising itself until a month before its release. Despite this, I was more excited about this movie than any other movie in 2015, so entering the theater, my expectations were high. Luckily, "The Big Short" completely met my expectations.

It's the mid-2000s, before the housing bubble burst. Everything seems to be going well; people are getting lots of loans and the banks are getting lots of money. Everyone is happy. However, there is something fishy going on with these loans that isn't being seen on the surface. The loans are bad and most people are going to lose everything they have. Even though it was unexpected, four people saw it coming: Jared Vennett (Ryan Gosling), Michael Burry (Christian Bale), Mark Baum (Steve Carell) and Ben Rickert (Brad Pitt). Using these predictions, the four of them decide to go against the banks and short the stocks.

The four leads give electric performances, especially Bale and Carell. The Big Short is filled with laughs, education, near perfect acting and an eye opening to the economic crisis that tore the country apart in 2007.

Sisters

To kick off the end of 2015, Tina Fey and Amy Poehler attempted to combine their comedic genius and make a movie. Unfortunately, the two comedic minds came up with "Sisters."

In "Sisters," two siblings, Maura (Poehler) and Kate (Fey), find out that their parents plan to sell their childhood home and they need to go back home to move some old belongings. While Maura, the calmer, more down-to-earth character, completely understands, Kate, who is spastic and wild, throws a temper tantrum like a four-year-old and decides to act rebellious. Kate convinces Maura that to say goodbye to their old childhood home, they should throw a party. They invite old high-school friends, buy supplies, do a bunch of childish things and eventually set up for the inevitable rager. As every single movie of this type goes, the party starts off well, but eventually things take a turn for the worst and the two get themselves into trouble.

I like Poehler and Fey, and their on-screen chemistry is obvious, but that's where the good aspects of the movie end. The two characters are completely unrelatable, and the comedy seems too forced. Most of the jokes come off like they're expecting a punchline, and it takes a lot of the believability out of the movie. Unless you really want to watch Poehler and Fey act like unconvincing teenagers, I wouldn't recommend going to see "Sisters."

THE BREWPONENT
BARTENDER EDITION

brew·po·nent (**broo**-poh-n*uh*nt)
n. a person or thing who expounds, explains or interprets drinks for refined palates < Old English *brēowan* + Latin *expōnere* >

Chart your course to Map Brewing

By ROLF TENGDIN

Located on the outskirts of Bozeman, Map Brewing has taken a quaint old wooden farmhouse and turned it into a certified taphouse complete with two floors of seating, a fireplace, board games and one of the most stunning views of the Bridger Mountains that you can get. To top it all off they even have one of the most stunning selections of brews in the Bozeman area. It captures the essence of being in a ski lodge without having to spend time out on the frozen slopes, and when you pass through the double doors you can feel the warm and cozy vibe.

One of the more interesting things to take away from Map Brewing, aside from the award winning brews, is the unique decor. "It really helps with the overall feel of the room," said Sam Willey, a bartender at Map Brewing. "The major decorations were all done by my boss' wife, from the paintings of the landscape to the moose head made of scrap over the fireplace. But that's not all I love about it," she continued. "The owners are some of the best people I've ever worked for and I never dread going to work." This statement is reflected in the mood of the staff overall. When you come in they don't seem to greet you with a rehearsed line like so many other businesses, instead you can actually feel the excitement in the air.

The mood of the staff can largely be credited to that of the owners. The owners both come from the Bozeman locale and they used their knowledge of the area to find a place that feels like you were being welcomed after a long day of skiing. Owners Pat (aka PK) and Dash started Map with the sole purpose of focusing on beer rather than food and it shows. The two owners worked within Montana Ale Works for years, but left after seeing how there was not enough passion put into the beer that was being sold, so the two decided that they would make their own place with the sole focus of creating brews that could fit anyone's palate. They've elected to have a food truck park outside their brewery to remove any possible distraction from the brews by major entrees. Instead, the food truck Grill 406 serves mainly appetizer dishes such as poutine and nachos so if you want a light snack to go with your beer it won't distract from the taste.



PHOTO BY CONOR GLESNER

Map aims to provide a warm, friendly atmosphere as well as good beer.

You may also be surprised to find that Map Brewing is one of the few breweries in town to not have wifi or televisions. "We want people to focus on having a good time and having a good drink," Willey said. "It feels more important that people talk with each other than lose themselves in a football game or a news broadcast." This mood was immediately reflected by the crowd in the bar. Within minutes of sitting down the couple at the next table struck up a conversation about their favorite drinks and recommendations from the menu. The goal of Map is to create a friendly environment and they have succeeded with flying colors.

Then there's the ale itself. All named after directions you can take or ways that you can travel, the ale is clearly brewed with love and care. The staff favorite around the bar is called the Steep Terrain, an India Pale Ale that has a clean and assertive bitterness with a malty background. While bitter, one can't help but notice the sweet aftertaste that is brought on through the extensive use of hops. The real crowd pleaser though is the Northbound Ale. Winner of the 2015 Montana Brewers Association Fall Brewfest Gold Medal, this beer has a sweet malty biscuit flavor with a kick of floral hops that is sure to make any patron leave Map Brewing with a full growler of fresh brew. Map Brewing is one of the last breweries you should skip in Bozeman.

33rd Annual International Food Bazaar: experience the world

By ISABEL LOOS

Mark your calendars for Saturday, Feb. 20 because the SUB Ballrooms will be transformed into a cultural wonderland you won't want to miss. Countries from all over the world will be represented at the 33rd annual International Food Bazaar, where international students — in collaboration with other MSU students — will prepare traditional food from their home countries to share with the Bozeman community. Most of the students running the booths will also be in traditional dress, and there will be a myriad of unique performances throughout the evening, from drumming to dancing to unicycling.

"This is not a one person job, it's a team event," said Deborah Chiolero, one of the coordinators of the bazaar. Teams start preparing on Thursday and Friday to make their dishes to be shared with about 3,000 people on Saturday. Each team is able to use the MSU food service kitchens in the Union Market, and there is also a crew of chefs to help when needed. The students do almost everything entirely by themselves, from getting ingredients to cooking the food to decorating their booths. Each booth charges between about one and seven dollars per serving of food to offset the costs involved. Whatever is left over is then used for club events and activities. Other costs of the event are sponsored by the MSU Office of International Programs to help MSU become a more culturally aware and enriched place.

There is also an element of competition to the event. Four secret judges will be wandering booths, judging them on their organization, decoration and interaction with the crowd. Most students, however, care a lot more about sharing their cultures than about winning.

"When I see the students interacting and showcasing their countries, it's amazing to see [their] excitement," Chiolero said. "The energy is always high. It's amazing."

There will be 28 booths this year, representing almost any country you can think of. Among them you will find booths run by students in the International Business Club. One will be a Pakistani table where you can try cardamom chicken and pink tea, both traditional dishes. The students will be wearing traditional Pakistani dress, and decorating with kites and Ajrak, a traditional print.

"Since we Pakistanis like to talk a lot, come and talk and gossip and have fun," Sobia Anjum, one of the students participating in the booth, said. She has been in Bozeman since August, working on pursuing a Ph.D. in environmental engineering. Another booth will feature three different desserts from three different countries: a Canadian dessert called a Nanaimo Bar, Sesame Tahini Cookies from Mongolia and a Filipino sheet cake called Bibingka.

"I think of the food bazaar as a surprise. You never know what you [will] encounter," Yanwen Xu said. She is from China and has been in the U.S. for two years, studying psychology and international business. Clearly, there is much more to the food bazaar than just food.

"[It's great] to get the word out that there are so many cultures on our campus," Chiolero said. Attendees get to meet people from all over the world and get a glimpse of their customs and traditions.

"You don't need to get out of Bozeman to see the world. Come to the food bazaar, and you'll be amazed by the culture diversity," Xu said. It isn't every day that there is a global street-market right here on campus.

The bazaar will be in the SUB Ballrooms on Saturday, Feb. 20 from 4 - 7 p.m. The event is free for MSU students with a CatCard, $4 for adults, $2 for children ages 10-18, and free for kids 9 and under.

CALENDAR

Feb. 18 – Feb. 25

Want your event featured here? Email information to *entertainment@exponent.montana.edu*, preferably two weeks in advance.

ON CAMPUS

RESUME CRITIQUE
Thursday, February 18, 4 - 7 p.m.
SUB 177
No appointment necessary! Simply drop-in at the Allen Yarnell Center for Student Success to have your resume reviewed by one of our Career Coaches!

SALARY NEGOTIATION
Thursday, February 18, 5 - 6 p.m.
SUB 168
Did you know that your starting salary often determines how much you make for the rest of your career? Come learn how to negotiate a higher salary by learning all the steps you need to get the salary you deserve!

WORK AND PLAY IN STORY
Friday, February 19, 4 - 5 p.m.
SUB Procrastinator Theater
Author, actor and Honors College faculty member Kent Davis digs deep into the landscape of creativity and identity. From speculation about our first urges toward narrative, to meditation on sixteenth-century Italian sight gags, to consideration of his own journey to publication, this talk invites us to playfully wrestle with the questions that bind stories to how we think, how we live and even to our own identities.

IRSHAD MANJI LECTURE
Monday, February 22, 7:30 p.m.
SUB Ballrooms
Manji is known for her best-selling books, including "Allah, Liberty, and Love" and "Trouble with Islam Today" and the director of the Moral Courage Project, which is dedicated to equipping people with the ability to make decisions without compromising their integrity. For Manji, this means living openly as a lesbian and a Muslim.

MUSIC

MODERN SONS AND LIV
Thursday, February 18, 10 p.m. - 1:45 a.m.
The Haufbrau
21+
Come enjoy a great night of music at the best bar in town! Two of Bozeman's favorite bands will be playing.

THE BENT BONES WITH BRIANNA AND THE SASQUATCH FUNK
Friday, February 19, 10 p.m.
The Filling Station
21+
$5.50
Are you ready for a great night of music? We've got you covered. The Bent Bones are MSU's premiere funk group and they are ready to tear the roof off. With special guests, this is sure to be the best live show in town. Tickets are available at Cactus Records.

COMMUNITY

AUTHOR READING/BOOK SIGNING
Thursday, February 18, 7 p.m.
Country Bookshelf
"Canyons" is about the twisted relationship between two self-destructive men. Eric and Ward were classmates and friends at U.C. Berkley, but their friendship turned ugly in an instant when, on a hunting trip, Ward accidentally killed Eric's twin sister, Gwen, with a shotgun. Now, 25 years later, Ward invites Eric to come to his ranch to go on an elk hunt. The two former friends set out on a tense, contentious camping trip. Ward longs to atone for his guilt. Eric wants revenge.

BREWS AND THE BIG SKY
Tuesday, February 23, 5:30 - 7:30 p.m.
Museum of the Rockies
21 and older
$8
Based on our popular summertime Hops & History program, this new winter series pairs the history of local industries – presented by MOR Curator of History, Michael Fox – with beer tastings from local breweries. Since its founding in 1872 Yellowstone National Park has attracted explorers, scientists and tourists to our part of the American West. Space is limited. Tickets are required for all events at museumoftherockies.org.

FILM, THEATER

THE PRINCESS BRIDE
Saturday, February 20, 7:30 p.m.
The Ellen Theatre
$5
Experience the motion picture masterpiece as it was originally intended - on the big silver screen! And, as an added bonus, celebrate the return of Ellen Theatre Trivia Nights. So brush-up on all things Buttercup and prepare to be stumped!

SPORTS

LASER TAG
Thursday, February 18, 5 - 9 p.m.
Marga Hosaeus Fitness Center North Gym
Thursday is the first day to register for laser tag put on by MSU Intramurals. Registration is not necessary to participate, but unregistered players will have to provide all registration information at sign-in the day of the event. Teams of 4 or 5 will play against each other in an inflatable arena.

TRACK AND FIELD LAST CHANCE QUALIFIER
Friday, February 19
Cheer on the Bobcats Track & Field at the Last Chance Qualifier.

INTRAMURAL INDOOR SOCCER TOURNAMENT
Friday, February 19, 6 - 9 p.m.
Saturday, February 20, 10 a.m. - 4 p.m.
Sunday, February 21, 2 - 6 p.m.
Marga Hosaeus Fitness Center
Friday is the first day to register for the indoor soccer tournament put on by MSU Intramurals. Participants are encouraged to sign up and register before hand and will be told playing times upon completion of the tournament bracket. Teams will consist of 4 - 6 players.

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“Have fun, be safe” at Latex & Lace

By KAYCEE CRONK

“What are you looking for from the contestants tonight?” emcee Alex Paterson asked one of the judges at the start of the evening.

The deadpan response foreshadowed the tone of the rest of the competition: “Stamina.”

The SUB Ballrooms were packed on Thursday, Feb. 11 in advance of the much-anticipated 7th annual Latex and Lace Fashion Show. The yearly event, now a staple of MSU culture, is sponsored by the Office of Health Advancement and is one of the wildest exhibitions of creativity — in the name of a good cause — seen at the university each year. To raise awareness about safe sex, clubs and organizations from every corner of campus create items of clothing made almost entirely from condoms. Those outfits are then modeled on the runway by a collection of brave, eager and innuendo-loving models.

Star Wars was a recurring theme throughout the evening. The show opened with a head-to-toe, rubberized replication of Darth Vader, who was quickly followed by his son, “Lube Skywalker,” aka “The Thigh-walker.” Later on, the show gifted audiences with condom-coated versions of “The Force Awakens” fan-favorites, Finn and Poe, who — much to the delight of Finn and Poe-shippers everywhere — made out with each other at the end of the runway.

“Well, you have a lot of Poe-tential,” Paterson said as Poe exited the runway, one in a long line of puns from the emcee.

However, the audience did not know how good the Star Wars theme could get until they were blessed with Latex and Lace’s take on Jabba the Hut — brought to life by a collection of inflated condoms with a person lost inside somewhere — dragging a unique Slave Leia by a chain. The muscular, male, scantily-clad Slave Leia was a definite fan favorite, as evidenced by the chorus of whistles and cat calls he received during his unveiling. One audience member exclaimed, quite loudly, “Holy crap! That guy’s ass muscles are bigger than my arm muscles!”

Other inventive, pop-culture-themed costumes included Dora the Sex-plorer, which saw the beloved cartoon character and her iconic backpack now rendered with rubbers, and the Anime Club’s rendition of Speed Racer. A bubbly, Safe-Sex Fairy also made an appearance, throwing condoms to the audience and to the judges.



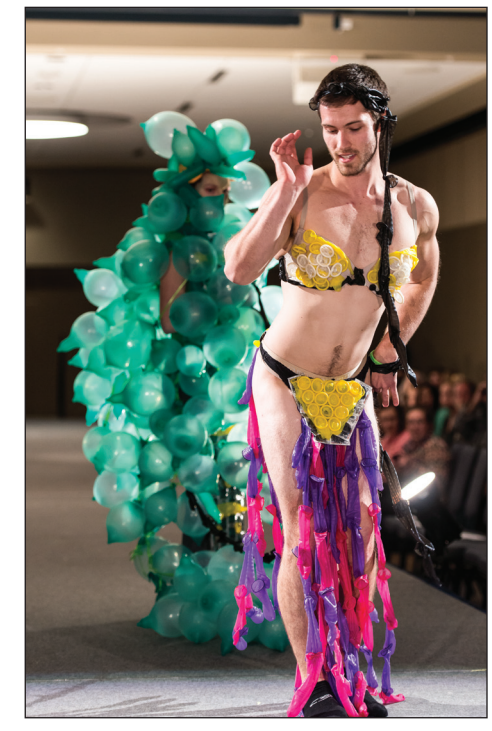
PHOTOS BY CONOR GLESNER

Tawni Johnson struts her stuff as Katy Perry from the "Roar" music video.

The “Academy Award,” sponsored by the Academy of Cosmetology, which donated services to the show for the evening, honored best overall creativity. It was bestowed upon the two Girl Scout-themed costumes in the competition, whose models went by the names “Mindy & Maggie Tag-along” and boasted a collection of condoms in the place of merit badges.

“The Girl Scouts — they looked like their cookies were sweet,” one judge said. “Was that suggestive enough?”

Other awards included the “Most Complex” award, which deservedly went to the Katy Perry-themed outfit, whose model bore a gigantic peacock spread of condoms across the runway. There was also the Most Safe and Sexy Award, which went to the design that most reflected the purpose of the Latex & Lace Fashion Show. It was awarded to the “Sexy Cop.” The People’s Choice Award was decided by the audience, and it was ultimately given to the Lube Skywalker and Darth Vader, who were competing as a pair.



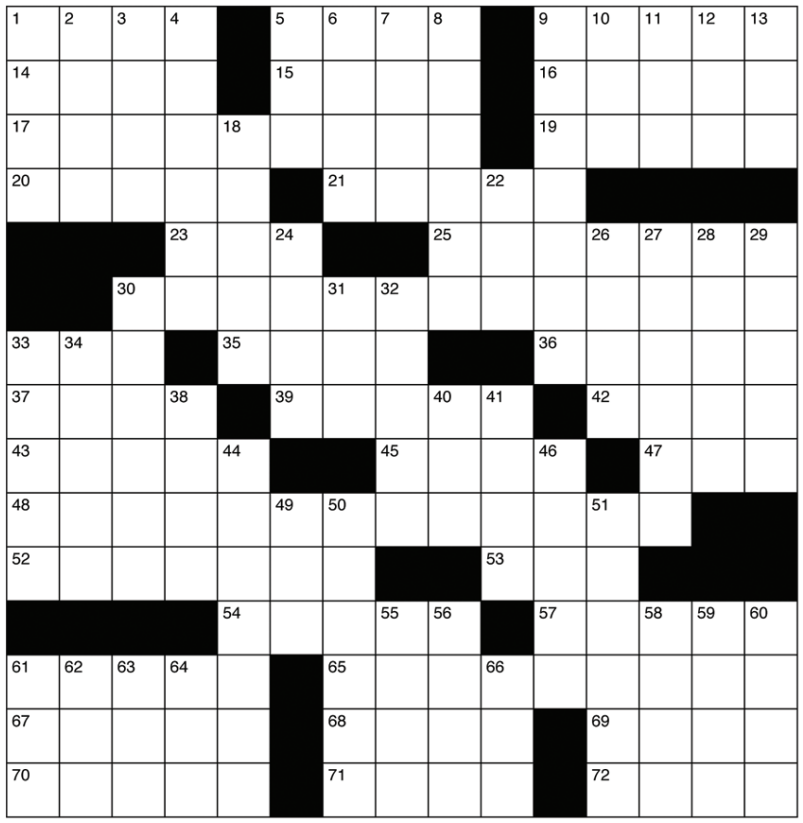
Princess Leia is escorted by Jabba the Hut down the catwalk.



Dora the Sex-plorer walks the runway, complete with her trusty rubber backpack.

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THE MSU exponent PUZZLES



Across

1. Facts, for short
5. ___ time (ASAP)
9. Crosswise, shipwise
14. Big top noise
15. Horse offspring
16. Breaks in relations
17. 1967 Erma Bombeck best-seller
19. Playing hard ___
20. Muscle
21. Susan of "All My Children"
23. Little drink
25. Haydn's homeland
30. "This can't lose"
33. Online advertising metric (abbr.)
35. Green hazard
36. ____ Up
37. Kind of wave or stroke
39. "Hogwash!"
42. Spot where a cat picks up kittens
43. Rolling Stones ballad
45. Seaweed eaten in Japan
47. Mil. ranks
48. Submissive spouses
52. Gigantic
53. Ancient Chinese dynasty
54. Vampiress
57. On-line bread
61. Temporary pattern of behavior
65. Prudent
67. Lumberjack, e.g.
68. "What ____ for Love" ("A Chorus Line" song)
69. Coal deposit
70. Signs of the future
71. Gestures of approval
72. O'Neill's "Desire Under the ___"

Down

1. Popular accts.
2. "Chicken Little" turndown
3. Young deer
4. Get one's bearings
5. "No ____, ands or buts"
6. Christmas in Cannes
7. Half of Mork's farewell
8. Clunker
9. Michelangelo and Monet
10. Thumbnail sketch
11. Three D followers
12. Scarfed down
13. Ariz. zone
18. New wrinkle
22. Billiard stick
24. Breaded entree with melted mozzarella, briefly
26. At that time
27. Yankees and Red Sox, e.g.
28. Prone to bungling
29. She played Endora on "Bewitched"
30. Reflections
31. "Oh ____ can you see..."
32. Go bottoms up
33. Wide divide
34. Numerical prefix
38. Words of advice, perhaps
40. "Ouch!" relative
41. Original "ER" cast member La Salle
44. Accountants, e.g.
46. Harvard and Yale
49. Female gametes
50. Sit tight
51. Completely cover
55. "___ it in a heartbeat!"
56. Fanatical
58. Biblical victim
59. Close with a bang
60. ____ and haws
61. Vietnamese dish with rice noodles
62. Garment border
63. Fill with wonder
64. Legislator (abbr.)
66. Beer buyers' proofs

This week's crossword is sponsored by KGLT 91.9 FM and 97.1 FM.

Contact Ray Porter at 994-2611 for advertising opportunities.

Easy

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Extinct
Eyebrows
Fading
Fells
Future
Glory
Gnats
Haddock
Impend
Maybes
Mundane
Newts
Notably
Ordain
Poker
Polar
Primp
Ranted
Reform
Slang
Slogs
Snowball
Soaking
Stales
Stoke
Tweet
Uniquely

Rejected Grammy categories

Electro-Thunder-Funk Record of the Year

Animal Noises of the Year

Bonnie Raitt of the Year

Kanye Album of the Year

Best “Now That’s What I Call Music” Compilation

“Pink Floyd” Award for ‘Real’ Music

Best Surround Sound Album (this is a real category)

Hardest-working Autotune of the Year

White Suburban Soccer Mom Album of the Year

Least Threatening Pop Group of the Year

Best Disguised Drug Reference of the Year

Least Threatening Black Performer of the Year

Your BBQing Dad’s Favorite Album of the Year

Best Album to “Netflix and Chill” to of the Year

Most Desperate Reunion Album of the Year

Least Convincing “OMG I won?” Speech of the Year

For links to answers, go to facebook.com/MSUExponent.