



Dr. Imran Hayee and grad students Umair Ibrahim and Buddhika Maitipe are the developers and testers of the new V2V technology. **BRETT GROEHLER/UMD/SUBMITTED**

V2V- traffic updates to and from your car

BY JORDAN DIXON
dixon212@d.umn.edu

New wireless traffic systems may shorten your commute, clear up congested traffic, and save lives.

The V2V, or Vehicle to Vehicle communication, is currently a technology of great importance and significance to the many researchers and engineers developing it, as well as to all the Transportation organizations, like Northland Advanced Transportation Systems Research Laboratory (NATSRL), Intelligent Transportation Systems (ITS), and the Minnesota Department of Transportation that are funding the technology.

"I am interested in this project because of its practical applications and because it could potentially save lives, which are why we are getting funding," said engineering

graduate student Umair Ibrahim, one of the students helping to test and develop the device.

Dr. Imran Hayee and his students here at UMD are a few of the many around the country currently developing and testing this new technology.

"We are all trying to develop unique applications of DSRC to show what it can do to improve efficiency and safety applications," Hayee said.

DSRC, or Dedicated Short Range Communication, is the spectrum dedicated in 1999 to the ITS for the wireless networking and data sharing required for the V2V and V2I (Vehicle to Infrastructure) systems.

V2I, mounted on roadside infrastructure (like signs), would use these data connections to display current traffic info such as congest-

ed roads and the distance and time to that congestion.

"This would give drivers the time to decide whether or not to take an alternate route," Hayee said.

V2I, however helpful, had some practical issues. It was limited to its stationary area, not being able to share and transmit data to any V2V devices beyond its range. It could possibly require V2I devices every mile, which is costly and inefficient.

The V2V system aims to solve that problem through data sharing between two devices that are mounted on moving vehicles.

"The V2V can take the message forward and carry it to distances not attainable by V2I," Hayee said.

The V2V can help acquire travel time data as well as transmit V2I data further. Both systems are supplemented by GPS data.

Hayee and his students have been working with this technology for three years now, and are only finishing phase two of their work.

"Phase one took about a year, and that was seeing how the DSRC

SEE "V2V traffic" continued on page A4

EXPLORING POSSIBILITIES

UMD professor experiments with particles traveling at the speed of light

BY NATHAN LEVENDOSKI
leven046@d.umn.edu

Scientists working with the Oscillation Project with Emulsion-tracking Apparatus (OPERA) team in Italy recently announced the detection of subatomic particles with the capability to travel faster than the speed of light. Similar results were seen in Soudan, Minn., nearly five years ago.

"We had tried the same thing years before for prosaic purposes, because it's a really hard measurement to make," said Dr. Alec Habis, a UMD professor working with the Main Injector Neutrino Switch (MINOS) experiment.

At Fermilab in Chicago, Ill., carbon rods are blasted with protons at very high energy. These high-energy collisions eject particle decay into their subatomic parts, including neutrinos. The neutrinos travel underground until they reach Soudan.

SEE "Speed of light" continued on page A5

SPAT OUT! pg. A5



UMD students participate in the SPAT OUT on campus Tuesday, Oct. 11, 2011, voicing their thoughts on recent controversies.

Duluth's Very Own Dinkytown

BY GRAHAM HAKALA
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Duluth is now another step closer to having its very own Dinkytown. On Sept. 20, the Duluth School Board authorized the sale of the Woodland Middle School property to private developer Village Center Development.

The idea is to create a community complete with retail shops, restaurants and housing that is close to the college campus, similar to U of M's "Dinkytown."

Former Vice Chancellor of Finance and Operations Greg Fox has been interested in the development since its early stages and has watched the events unfold.

"At one time, we looked at the possibility of having UMD purchase it," Fox said. "I think the city had a strong interest in having a developer do it, rather than the university develop the property. They wanted the land to be on the tax roll."

The school and its 20-acre property will be sold for a cool \$3 million. After a competitive bidding war over the summer, the Duluth School Board finally approved the sale in a 6-1 vote.

Mark Lampert of Village Center Development is the man who will be in charge of the new development, and Fox had only good things to say about him.

"Everybody that has worked with him has said that he is a very good landlord and developer," Fox said. "I'm inclined to believe him

when he talks about what he wants to do."

Now that this major hurdle was reached, the Dinkytown-like Duluth community is only years away from a reality. The sale will be done in two parts: first, the sale of the Woodland School land parcels will be sold by sometime next year. After that, the buildings should be sold in 2013. It is unclear whether the school's building will be utilized, as new construction is still a possibility.

"The retail space that (Lampert) plans to put in there would be the kinds of things that would be appealing to students," Fox said. "People would like to have a restaurant, or a bar, or the other kinds of things students would like."

Off-campus housing for students can be hard to come by, and the extra housing units created through this process may help many current and future students find places to live near campus.

Though the land development will look to imitate the Dinkytown model, it will not use the same name.

Go online to the Statesman's new website, umdstatesman.wordpress.com, and comment below this story on what you think the community should be named. The Statesman will also be tabling on Friday, Sept. 14 from 9 a.m. to 3 p.m., during which time you can submit name ideas as well. The best results will be published in next week's edition.



The William A. Irvin ship is transformed into a haunted ship each year around Halloween. Starting Oct. 7, 2011, the crew gives tours through the Shanghai Revenge themed ship. **ALEX LEONE/STATESMAN**

Duluthians get shanghaied at the Irvin Haunted Ship

BY AMBER OOLEY
ooley001@d.umn.edu

One by one your hands are clenched on the person's shirt in front of you. Walking very slowly, not knowing what will pop out of nowhere, you feel short, cold breaths on the back of your neck. You turn around only to see your worst nightmare become a reality. You know it's only an actor covered in makeup, however you still scream and scurry forward.

"I could tell you it was scary, but words won't do it justice," said Jon Oja after leading a group of his friends off the 2011 season production of the William A. Irvin Haunted Ship in Canal Park.

Starting on Jan. 1 each year, the haunted ship team hires a contractor and begins to plan the seasonal event. The design team starts with a theme in March. They won't begin to put the plan into action and start building until June. Supervisor of the William A. Irvin ship Paige Maki says they usually stay with the same concept and use the same props every year, they just find new or different ways to use them with this year's theme.

The people who are in charge of the setup crew attend a haunting convention each year, where they learn tips on how to create a scarier tour than recent years. They get to walk through tours that are on a small budget as well as a multimillion dollar budget. This year's theme for the haunted ship is Shanghai Revenge.

Shanghai Revenge resembles the historical Shanghai Tunnels that were used from the 19th to the 20th century. Bars in Portland, Ore., would find naive men suitable to be a sailor and intoxicate them enough to bring them into a trapped door. This door led to the Shanghai Tunnels, where the men were imprisoned before they were shipped off to Shanghai, China, to work as slaves on the ships, according to the haunted ship's website.

Starting with the layout of the maze, the setup team builds the walls and places them where necessary. The final product turns into an actual maze, leaving the scared visitors on their toes, searching for the quickest way off the ship. The maze is located in the cargo holds, which aren't closed off to the public until the day after Labor Day. This leaves only a few weeks to set everything up.

SEE "Haunted ship" continued on page A4

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Los Angeles Times Daily Crossword Puzzle

Edited by Rich Norris and Joyce Lewis

ACROSS

- 1 Cheryl of "Charlie's Angels"
- 5 Screwdriver liquor
- 10 "Logically, then ..."
- 14 The "height" part of a height phobia
- 15 Have ___ to pick
- 16 Red Army leader Trotsky
- 17 Terrified Detroit baseball player?
- 19 Vietnam neighbor
- 20 Cuts off
- 21 Architect I.M.
- 22 Advantage
- 23 Very long time
- 24 Indy 500 entrant
- 26 Tippler
- 27 Memo-directing abbr.
- 29 Actress Sorvino
- 30 Voice below soprano
- 32 "Don't make me laugh!"
- 33 Embarrassed Carolina football player?
- 36 Boeing competitor
- 38 Strolls down to the saloon
- 39 Depressed Miami football player?
- 43 Gun, as a V6
- 44 Ran a tab
- 45 Mine products
- 46 Talk like Daffy
- 47 ___ Lanka
- 48 Went off course, nautically
- 50 "Little Red Book" writer
- 51 Prefix with directional
- 53 "Community" network
- 54 Sealy alternatives
- 57 Arp's art movement
- 58 Jealous San Francisco baseball player?
- 60 Take too much of, briefly
- 61 Me-tooer's phrase
- 62 Teen outbreak
- 63 Noises from itty-bitty kitties
- 64 Online status update limited to 140 characters
- 65 'Vette roof option

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51			52		53				54				55	56
57					58			59						
60					61							62		
63					64								65	

DOWN

- 1 Cops enforce them
- 2 Yen
- 3 Fast food pickup site
- 4 Pamper
- 5 Chocolate factory vessels
- 6 ___-Wan Kenobi
- 7 Where boxers and pugs play
- 8 Leg joint protector
- 9 Cliffside nest
- 10 Cosmo rival
- 11 Reprimands
- 12 Looks that lovers make
- 13 Beginning
- 18 Bird by the beach
- 24 ___ Tin Tin
- 25 Yakked and yakked
- 27 Starbucks captain
- 28 Like a custom suit
- 29 Soup with sushi
- 31 Capt.'s subordinates
- 33 "I tawt I taw a ___ tat!"
- 34 French friends
- 35 Letters on reply cards

- 37 Drone or worker
- 40 Unsophisticated
- 41 Come before
- 42 "If ___ only listened!"
- 46 Rope at a rodeo
- 47 City destroyed by fire and brimstone
- 49 Common teen emotion
- 50 Ryan of "When Harry Met Sally..."
- 52 Actors McKellen and Holm
- 54 Agitated state
- 55 A.D. part
- 56 Armstrong's "small" stride
- 59 Fair-hiring inits.

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SUDOKU

The Samurai Of Puzzles

By The Mephram Group

8		5						
	3							
			7	1	6			
3		7	4	2				8
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SUDOKU 1

SUDOKU 2

Solutions to last week's puzzles

7	6	8	5	2	1	3	4	9
4	9	3	6	7	8	2	5	1
5	1	2	4	3	9	6	7	8
2	8	9	3	4	5	1	6	7
1	5	7	2	9	6	8	3	4
3	4	6	8	1	7	9	2	5
6	3	1	7	8	4	5	9	2
9	7	5	1	6	2	4	8	3
8	2	4	9	5	3	7	1	6

9	1	7	8	3	5	2	4	6
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1	8	2	5	4	3	9	6	7
3	9	6	1	8	7	5	2	4
5	7	4	9	6	2	1	3	8
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P	A	L				E	R	A	T	O		B	L	I	M	P
S	S	E				S	T	R	E	W		A	L	C	O	A

PUZZLE ANSWERS ONLINE: WWW.UMDSTATESMAN.COM

RAIN GARDENS: Filtration systems benefit the Great Lakes

BY ALI BOETTCHER
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Rain and snow melt-off is essential to the maintaining of oceans, lakes, rivers, streams and ponds. If it never rained or snowed, eventually the planet would dry up and not be able to sustain life.

When rain falls from the sky, some soaks into the ground as well as flows over the ground picking up different kinds of pollution. This water is called stormwater pollution. All water is polluted at some point until it is filtered, which is possible when water goes through a series of channels to help cleanse it.

UMD is doing its part to help increase the clean water that flows into Lake Superior by building and maintaining several rain gardens that aid in the cleansing of stormwater pollution. The rain gardens located on the UMD campus serve a critical purpose in helping the Lake Superior ecosystem.

Peggy Dahlberg from the UMD facilities management office said, "There are several rain gardens around campus: one near the health center, one near Griggs field, three under parking lot G, one located on College Street adjacent to parking lot B, and several naturally made spots around campus."

Dahlberg said that while the natural rain gardens help with the filtration process, the manmade gardens managed by UMD are more efficient.

"The rain gardens managed by facilities management have worked really well to serve their purpose

with no serious problems," she said.

This process is not simple. Most of the manmade rain garden systems consist of plants, a drain tile system and a water level control system. Each of these components does its part to ensure the water is returned to a purer form.

Dahlberg added, "The more channels -- such as plants, trees, filters and pipes -- stormwater goes through, the cleaner it becomes. The purposes of a rain garden are to slow, cool and filter the stormwater runoff from the surrounding areas like parking lots and streets. This is why UMD is a founding member of the Regional Stormwater Prevention Team, also known as RSPT, which consists of groups of people around the area aiding in the process of building and maintaining rain gardens. UMD works with this organization in the education of stormwater pollution, on the effects it has and what can be done about it."

Built in 2005, one of the premier rain garden systems at UMD is located on West College Street near parking lot B. The stormwater that filters into this rain garden goes through a basic process before it is returned to different streams that filter back into Lake Superior.

The four major plant zones of this rain garden include: the ornamental zone, the woodland zone, the wetland zone, and the dry zone. The plant life found around the rain garden is known as native plant life, meaning it is able to regenerate each year. This plant life has a high tolerance for salt, which

is vital during snow melt-off.

The basic process of cleansing the water is as follows: first, the water flows into the sediment basin, which then removes debris and litter. Second, the excess water flows over the wetland zone. Next, an imperative part of the system is the water level structure that consists of dividers acting as a dam to regulate the water depth in the rain garden. Fourth, the plant life surrounding the rain garden acts as differing channels through which the water can siphon. Without the natural plant life, the rain garden could not exist.

This particular rain garden can hold up to 66,000 gallons of water, which is a total of 88 percent of rainfall in a 1-inch storm, according to UMD facts.

The functions of the different rain gardens are to filter the stormwater runoff. This is very critical to our world because polluted stormwater runoff is the primary cause of polluted water in the United States. All plants and trees do their part to help in the aid of cleansing water. Without natural plant life, water would be far more polluted.

The future of the UMD rain gardens is to continue the process of filtering out the cleanest water possible that leads into Lake Superior. UMD will continue to incorporate rain gardens as time goes on, but is limited to the space available since each rain garden needs about one acre of land.



RACHEL KRAFT/STATESMAN



Getting blooms as early as March, the UMD rain garden located on College Street near the Lund building consists of perennial plants used to control stormwater runoff.

RACHEL KRAFT/STATESMAN

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Continued from page A1

V2V traffic

network would work if not actually in the car's equipment, but in a wireless device—like having Bluetooth in a person's cell phone as the designated user interface," Hayee said. "The development of the DSRC application with the V2I and V2V was the second phase and that took the last two years."

The next two phases included warning drivers of nearby snowplows, and reducing the transport time of emergency vehicles.

The work of Hayee and his students, as well as many others across the country, is all pushing for an effort to require these devices to be built into new cars.

"We would also have a box-sold device that can be bought for older cars not built with the device," Hayee said.

Hayee's students, Umair Ibrahim and Buddhika Maitipe share this ideal.

"We are indirectly telling the government that this is a necessary step to take in transportation safety," Ibrahim said.

Continued from page A1

Haunted ship

Jake Roeber, a senior at Superior High School, has been a volunteer for four years now. He started as an actor in 2008. By 2010, Roeber became the technical director mainly in charge of the back of the ship.

Roeber and his co-worker spent two months building a pneumatic grim reaper named Billy. He stands about 12 feet tall.

"This year we did something new and built a pneumatic by hand, completely driven by a computer system," Roeber said.

Each year Maki says they get around 20 volunteers to help with the setup.

"The ship would not exist without our volunteers, so we are extremely appreciative that there are so many people willing to donate their time to help us out," Maki said.

Just two days before the event opened, you were able to see the maze along with a few props.

"Jake says he will probably pull an all-nighter tonight," said Maki, reassuring that the volunteers are dedicated to getting the ship finished on time.

On opening night the ship was crammed with actors with gory makeup. Screams erupted on a bi-minute basis. Whether you take a left or a right, the choice is yours. You are sure to be frightened.

"It's always a fun time," Maki said. "There's never really a dull moment."

The Haunted Ship is open for tours from Oct. 7 to Oct. 31. Cost is \$10, with a \$1 discount if you bring a nonperishable food item. Students also get a \$2 discount if they bring their hockey ticket in after a Bulldogs game. Don't be scared, there will be light at the end of the tunnel.

Culture is for everyone



The Multicultural Center on campus, located on the second floor of the Kirby Student Center, holds 10 different student organizations and also offers student meeting spaces, a multimedia and graphics rooms and a student lounge.

ALEX LEONE/STATESMAN

Multicultural Center welcomes all students

BY JORDAN DIXON
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"No one should be—or even is, for that matter—excluded" is one of the main messages and goals of the Multicultural Center and Office of Cultural Diversity.

Housing nine different student organizations, the Multicultural Center offers a unique and diverse environment.

"If you look around the country at other multicultural centers, you will see that many of them focus on specific cultures and ethnicities," said Susana Pelayo-Woodward, director of the Office of Cultural Diversity located inside the center. "We are unique in that we are not just a center for ethnicity but we also have an organization for wom-

en and the disabled."

The center actually holds four organizations that are not directly related to ethnic diversity and culture.

"There is MPIRG, a grassroots, non-partisan, nonprofit group that advocates for state concerned issues," said Andrea Lares, a senior who is also a board member of two years of the Latino/Chicano Student Association. "We also have the Queer and Allied Student Union, Women's Resources and Action Center, and Access for All—a group that includes the physically and mentally disabled and all those who support them."

The remaining organizations include the Black Student Association, the Asian/Pacific American Association, and the Latino/Chicano Student Association. But do not make the mistake that these organizations are for only those of their ethnicity.

"We are trying to break the stigma that this is not for all students," Woodward said. "This center is an integral part of the institution, not a separate entity. We strive to provide education for all students."

The Multicultural Center has

taken steps to make itself an integral part of the school system.

"We have a study and computer area for students, as well as three meeting spaces for those who need them," Woodward said.

The Office of Cultural Diversity has also made many connections with other school administrations.

"We have partnered with the admissions office to help enroll diverse and international students. We have also partnered with the Student Association, who played an important role in the decision to create the center in 1997," Woodward said. "We are currently helping facilitate discussion at the end of all showings of 'The Laramie Project' in the UMD Theater."

The center also has many practical facilities for student use. They have testing accommodations for anyone who needs them and a nursing room for recent mothers. They also have a printer and paper room where many student organizations not housed in the center have been given drawer space.

"Anyone is allowed to come in and make posters or work on projects. We usually have paper materials in stock if you need them,"

Woodward said. "We also have a printer for people who may not have enough time to run down to the library to print their papers."

The main goal of the center and all its organizations, however, is to enhance academic achievement, create a sense of belonging, celebrate diversity and foster positive relations among UMD students, faculty and staff.

"I want people to know this is a place where everyone is welcome," Woodward said. "All of us on this campus contribute to this campus and we should take ownership in transforming our education by sharing culture and contributing culture to our country."

Lares said, "This is a place for people to feel welcome and to feel that they belong. This is a place where anyone can come into the room and relate to other people and share their experiences."

The Multicultural Center and all its organizations host a variety of events throughout the year. You can find a list of these events at: www.d.umn.edu/mlrc/ocd/calendar/.

New plant life for Ianni Hall

Trees have been planted around campus, in between Swenson science building and the new Ianni residence hall.

BY JORDAN DIXON
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Trees are littering the landscape around the recently named Ianni Hall.

The upsurge in the planting of the trees comes as a response to a UMD written policy about the replacement of removed trees.

"The campus has a stormwater plan mandate that says if a project removes any healthy and mature trees, we need to replace them with healthy young trees," said Landscape Maintenance Supervisor Peggy Dahlberg.

The construction of Ianni Hall was the cause for the removal of

many mature trees and that is also why it is the site for all the new trees being planted.

Not only good for turning CO2 into oxygen, these trees are also meant to help absorb stormwater so it does not become hazardous runoff that gets into our streams and lakes.

"Trees absorb a huge amount of water," Dahlberg said. "The rain is caught on the leaves and absorbed into the plant; they usually catch about the first inch of rain."

These trees are planted to help limit the stormwater runoff from the streets or sod, and limit any chemicals that the runoff dumps into creeks and lakes.

The many benefits of having these trees may also bring a few issues.

"We had to remove some of the Frisbee golf baskets for construction, and I'm sure they're not too happy about it," Dahlberg said. "We even set up a meeting to re-establish and relocate the removed baskets."

For Dahlberg it is not just about the trees, it's about taking care of the university landscape.

"We need to encourage the building department to realize the importance of our landscape and that we need to take care of it," Dahlberg said.



RACHEL KRAFT/STATESMAN

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Join the UMD Faculty Ensembles as they celebrate the 10th Anniversary of Weber Music Hall. All seats \$15 (reserved seating)

Faculty Artist Recital:
Tracy Lipska-Perry, piano
Edna Nokola, baritone
Weber Music Hall
Sun., October 16, 2011 - 3 pm
Adult - \$10 / Senior \$8 / Student FREE

Choral Ensembles
Weber Music Hall
Sun., October 23, 2011 - 3 pm
Concert Chorus - Tina Thielke-Gaffney, conductor
University Singers & Chamber Singers - Stanley H. Wold, conductor
Adult - \$8 / Senior \$7 / Student \$5 / UMD Student \$3

Oratorio Guest Artist Series: Krenia Lubyanova, piano
Weber Music Hall Mon., October 24, 2011 - 7:30 pm [artist change effective 9/30/11]
For the full listing of UMD Music events visit <http://www.d.umn.edu/music>

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UMD SCHOOL OF FINE ARTS
Department of Music

SPAT OUT!

Students speak out against racism on campus

RACHEL KRAFT/STATESMAN

BY MANDA LILLIE
lill0177@d.umn.edu

Anger, disappointment and hope were all spoken at Students Promoting Awareness Through

Teaching's (SPAT) annual SPAT Out on Tuesday, Oct. 11.

"I feel that the SPAT served its purpose," said Jean Lohe, SPAT representative. "I hope that they are inspired to take the first step."

This annual event usually takes place in the spring. However, due to an incident among an activist, student and faculty member on campus, the event was moved up. On Sept. 16 a young man from the Youth for Western Civilization (YWC) was handing out pocket constitutions on campus when Director of the Multicultural Center Susana Pelayo-Woodward and former Black Student Association President Blair Moses approached him about his views on multicult-

turalism.

Students, staff and faculty filled the Kirby Ballroom and passed around the microphone. They shared thoughts, fears and words of encouragement related to the incident and the racial climate on campus.

"I wasn't surprised," said Student Association President Hannah Mumm of the Sept. 16 incident. She continued to say that SPAT is doing what is necessary to promote change.

"I remembered to be resilient and to stay strong," Woodward said. "We need to continue to move forward. The amount of support I have received has been amazing."

UMD student Kallan Stedje said, "I think it's very important to stop the cycle of hate."

"I'm here and excited to listen and learn," said Chancellor Lendley C. Black at the beginning of the event. He later took the microphone and voiced his support of the students speaking out.

SPAT is an organization that began in the fall of 2006 because murals in the Multicultural Center were vandalized that year. As a result, the group has put together SPAT Outs since the spring of 2007.

"It's about the students, because we are all here for an education," Lohe said.

Exceptional students



BY JORDAN DIXON
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Going beyond the classroom, ambitious students seek a more active role in securing successful futures through their actions today.

One such student is senior Chemistry major Jared Sabin. Sabin has been working in Dr. Viktor Nemykin's lab since his freshman year at UMD. His main focus has been porphyrin research.

"I learned more through research than I ever did in a classroom," Sabin said. "It's basically researching the uses of molecular storage devices, or nano technology. Hopefully, many years down the road from now, it will downsize every electronic we know."

Sabin has had his work published five times and would recommend any science major to get in on lab work.

"It is really easy to get into, undergrads just need to ask their professors if they can work in their labs," Sabin said.

Out of the lab and into the theater, another exceptional student Caity Shea Violette is sitting in the

director's seat.

Violette, a junior majoring in acting, will be directing a play that she wrote and named "Target Behavior."

"It's not my first time directing a play, but it will be my first time working with someone else as producer," Violette said.

"After undergoing a traumatic experience, (protagonist) Kendra must rebuild her life, fighting a battle of acceptance with her family, her friends and herself," reads a short introduction to the plot of the production.

"I got my inspiration after walking out of Dr. Tom Isbell's playwriting class," Violette said. "I really liked the idea of a passionate female protagonist that does not require a type or is not the stereotypical female protagonist."

"Target Behavior" will show at the Dudley Experimental Theater inside the Marshall Performing Arts Center this December.

Continued from page A1

Speed of light

Collisions are repeated every 2.2 seconds during experiments, which produce about 20 trillion neutrinos at a time. By the time the beam reaches the detector in Soudan, the vast majority of these particles are gone, having flown off into space. Neutrinos don't carry a charge; their only interaction with other particles is through what's known as the weak force. It's highly unlikely that these particles will collide with the incredibly small nucleus of the matter in the detector, but a couple of times a day, scientists get lucky and observe a spray of matter created by a collision at the detector.

All neutrinos do not travel at the same speed, and scientists are typically skeptical when they observe particles traveling faster than the speed of light—the supposed speed limit in the universe.

In Europe, neutrinos arrived at their destination in Italy, 735 km from the accelerator in Sweden, 60 nanoseconds earlier than expected. What gave their measurement validity is that it was within their standard error of 10 nanoseconds, a figure that was checked by many

scientists before being released to the public.

This is why the results from Fermilab didn't show up in the news. The speed that they clocked didn't fall within their standard error, 72 nanoseconds, so the data couldn't be verified.

"But we've seen it in two different places, and that's why it's worth scratching our heads over it," Habig said.

Since the results were released from CERN, the European Organization for Nuclear Research, Habig and his colleagues are revisiting their experiment to minimize error. They think they can improve results from the experiment.

Particles can be accelerated to nearly the speed of light, but the energy needed to approach that limit follows the law of diminishing returns, and acceleration to the speed of light would take an infinite amount of energy.

Albert Einstein came up with the theory of relativity early in his career, and made the observation that nothing can travel faster than the speed of light. He was a master at thought experiments,

using analogy and logic to form his hypotheses. In the later part of his career, he became much more conservative in accepting new ideas.

"I'm sure he would apply the same type of logic to this," Habig said. "His successors in the theory community are going gonzo right now trying to do that."

Calculating the acceleration of a particle beyond the speed of light involves taking the square roots of negatives, something that nature doesn't typically do. And no, this does not mean that the laws of relativity are no longer valid.

Relativity still works incredibly well. After all it is the basis for global positioning system (GPS), Habig said.

"If there is an exception (to relativity), it's a very narrow exception," he said.

In practical terms, the new findings don't mean that we will have any kind of faster-than-light travel any time soon; we can only observe the aftermath of a few neutrinos when they collide with matter.

"They're too darn slippery," Habig said.

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Letter from the Editor

BY MANDA LILLIE
lill10177@d.umn.edu

With technology and media becoming more interactive, readers have the opportunity to be more involved in "the conversation."

By the conversation I mean the overall dialogue that goes on about a particular topic. This could include different articles in different papers, all contributing information about one specific topic.

The conversation is, also, something that can develop from a single story in the form of comments. This is great for reporters and editors because it provides us with feedback, ideas and the chance to talk to someone other than the people in our offices and our mothers.

However, there is the downside to this conversation. It's when you don't contribute in a productive manner. Telling a writer that they write like their head is crammed somewhere it doesn't belong or accusing them of extracurricular activities that don't involve the story are not comments that develop into a discussion. In fact, they usually stop all other commenters from contributing, or start an entirely separate conversation.

It's like when you're sitting down with your friends, talking about that riveting lecture your professor gave and your little sister is jumping up and down going "Hey... hey... HEY..HEY HEYHEYHEY-HEY!" When you finally ask her what she wants, she just tells you that you smell like feet.

If you don't like a story, or don't agree with the writing or editing, that's fine. We encourage feedback. Keep in mind, though, how you go about expressing your concerns. Don't just be an annoying two-year-old. Speak up and say what you want in a grown-up manner.

university of minnesota duluth
THE STATESMAN
OPINION



Americans should not forget about their history

BY RACHEL ELLIS
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In January of 2000, Texas Governor Rick Perry took a stand against the members of the NAACP in order to prevent the removal of a Confederate battle flag from governmental property in the South. The morality of this issue has come up once again since the debate for license plates featuring the Confederate flag was presented. Was Perry in the right? I say yes. Perry's main reasoning for defending the Confederate flag is not to say that no one is equal, but instead to say that he feels that Americans should

know their history.

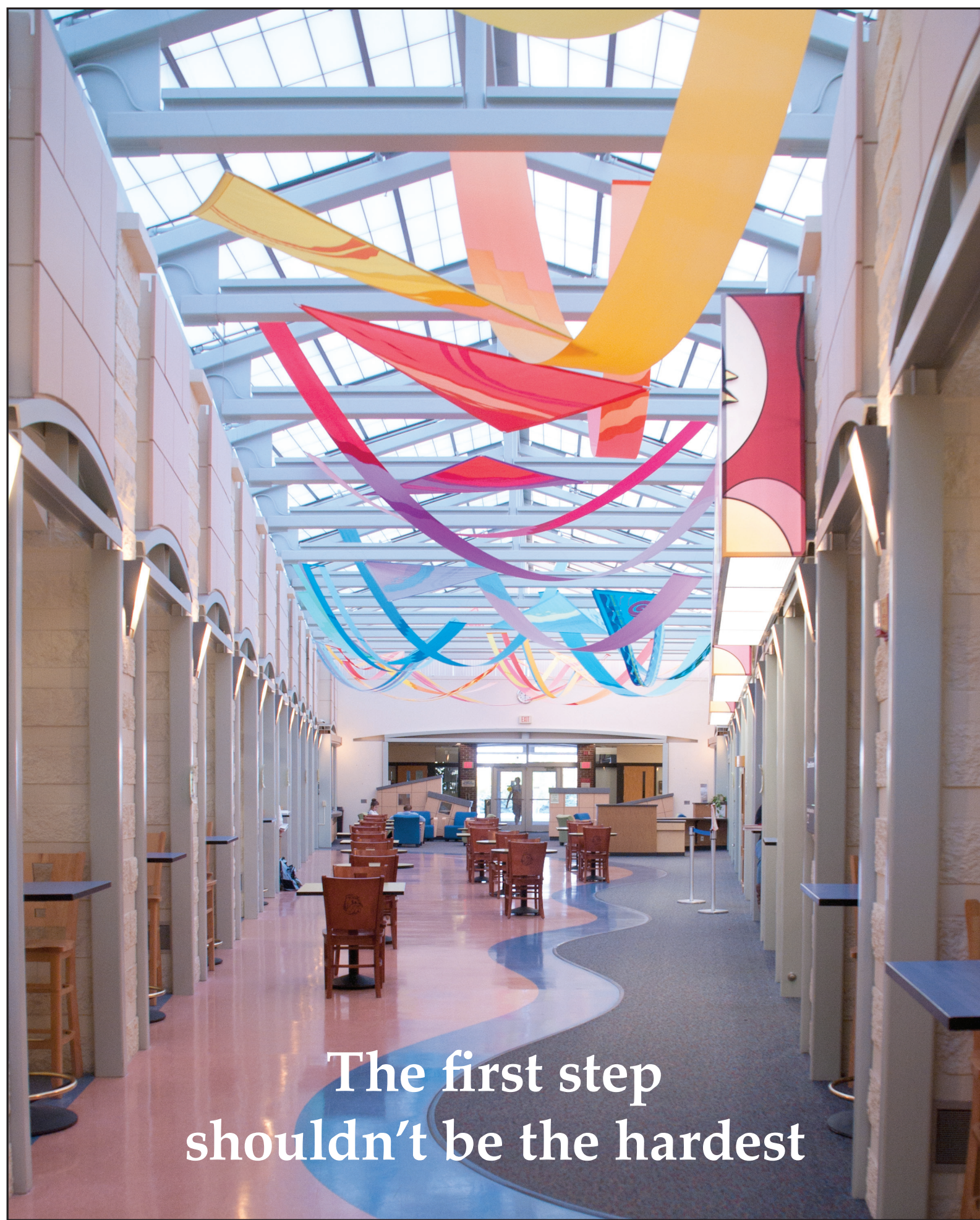
According to the Associated Press (AP), Perry was quoted as saying "I believe that Texans should remember the past and learn from it. We should never forget our history." Personally, I couldn't agree more. The history of our nation seems to be slowly slipping away from our knowledge. Instead of focusing on the foundation on which our nation was created and recognizing the importance of our freedom, we have been brainwashed to focus on the doom and gloom that the last few years has brought, including wars and terrorism.

To Perry, keeping the flag is a matter of honor than it is about anything else. He is preserving not only our nation's history but our nation's pride as well. According to the AP, Perry's great-great-grandfather fought in Gettysburg. I think it only fair that he honor his ancestors, and that is precisely what Perry believes maintaining the flag will do. "By learning about the past," he wrote, "we honor our ancestors' memories and contributions, and appreciate the people and events that preceded the present."

Not only is taking down a Confederate flag a degradation of our

nation's history, but it is just plain stupid. If people keep taking down statues and flags simply because some organization or a group of people don't like what it represents, then we will have no historical monuments to remind us of what America is built on. Having these state monuments and flags shows national pride and provides the American people with incredible stories to tell their kids. War may not be pretty, but it is important to remember the events that took place in our country.

Keeping that flag is a right - a freedom of indirect speech, if you will. Perry is not keeping the flag to say that Confederates fought better, that slavery is a good practice, or that southerners are better than anyone else; he is maintaining a freedom that has been given to us. To remove the flag would be to compromise the history of the United States.



The first step shouldn't be the hardest

Career Services is located in the Wedge where students can find help on campus.

RACHEL KRAFT/STATESMAN



BY ASHLEE HARTWIG
hart0812@d.umn.edu

Hello, fellow college students! I'd like to introduce myself. My name is Ashlee, I'm a UMD senior and I'm a peer educator in the Career Services Office. Though you may not know me by name, I may be familiar to some of you, as I've worked with Career Services since I was a first-year student.

Career Services, located in the Solon Campus Center, offers a wide range of services for every type of student found on campus. We have resources for freshmen finding themselves questioning their first choice in a major, or freshmen

wanting to rid themselves of the title "undecided." Seniors preparing for graduation can find help with their resumes and cover letters, find information on internships and graduate school, or even develop and practice their interviewing skills.

Graduation and moving away doesn't mean that assistance is no longer available. We're here to help with any step in the process, be it exploring graduate school options, getting your first "real world" job or making a transition from one career field to another. Our services are meant to aid and assist in your job search, making the process of finding the perfect job right out of college that much simpler.

Maybe job hunting isn't at the forefront of your mind right now. That's perfectly okay, but it's good to be aware that at some point, looking for an internship or putting together a resume will become a priority for you.

Job hunting can be an intimidating process. I hope to help make it

a little easier for you through this column. Every week I'll offer tips, suggestions, ideas, what not to do, and insider information on how to break into the working world. There is so much more I could talk about, but being it's my first write-up, I don't want to be the reason you're still procrastinating on that paper.

But one quick story before I go... Back when I was an incoming freshman, I was repeatedly asked the same question. "What are you majoring in?" At that point, I knew exactly what I would be studying. Theater, I told them, with an emphasis in acting. Let me tell you, I got a lot of strange looks, followed promptly by the following question: "What will you do with that degree?" Back then, I really didn't know. I just knew the field I wanted to delve into a little deeper.

Fast forward to where I am now. I'm in my fifth year of college and am now a double major in theater arts (my emphasis in acting!) and journalism. The closer to gradua-

tion I get, the question I get asked has changed, but not by much. "What sort of job do you hope to get with that?" We have a new winner for the most commonly asked question award.

To be honest, though, my answer hasn't changed much since I was a freshman, but I do have a better idea of where I'm headed.

For that, I thank Career Services. It's an office stock full of helpful people and resources. We, as students and emerging members of the work force, need to utilize them.

Our office is open from 8 a.m. to 4:30 p.m. Monday through Friday. Stop in with a question, and if we can't answer it, we'll find someone who can.

Until next week, be sure to get your homework done.

Questions or comments, contact me at hart0812@d.umn.edu

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Steve Jobs: The Re-inventor

BY ETHAN WALKER
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In case you missed it, Apple co-founder Steve Jobs has passed away. Jobs lost his battle with a rare form of pancreatic cancer last week; and the world lost a visionary. His ability to see where technology was going, and help shape it, was equal to none.

Steve Jobs was not an inventor. He was a re-inventor. Starting with the personal computer. Jobs helped welcome in a new era of computers, with the introduction of the Apple 2. It changed the way we thought about computers, with a mouse and a user-friendly interface. Yes, Jobs did not invent the computer; he re-invented it.

After Jobs was booted from Apple, they slipped into a financial crisis and lost tremendous ground to Microsoft and Bill Gates.

After Apple brought Jobs back in 1996, he would re-invent the personal computer again with the iMac.

Then, in 2001, Steve Jobs introduced the device that would change the music industry forever.

In late October, Jobs would announce the arrival of the Apple iPod.

At the time, MP3 players were in their infancy and there were plenty of other options for people to buy.

However, the simplicity of the iPod was unmatched, and again Jobs would outlast the industry.

More recently, in 2007, Apple would re-invent the smartphone market with its release of the iPhone.

Again, the iPhone was not the first smartphone; but it was the first to have simple and effective multi-touch software in it. It also drove the competition to adapt to the keyboard-less approach to smartphones and led companies like HTC and Samsung to push out their own touch-based smartphones.

Jobs was the most creative man in the tech business; hopefully someone can re-invent his vision and guts.



Black Gold: Part 2

BY ALI NAQVINAQVI
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So? Drowning in homework yet? Well, I am. So writing this article was a good break for me and reading this should be a good break for you. Previously, I wrote about crude oil, where it comes from, how it's refined, and some other dry stuff. This article is the second of three in the oil series that I am writing and it's a lot more interesting than the last one as it is something everyone can relate to. So, let's dive in.

Gasoline is the most commonly used transportation fuel throughout the world. After being refined in refineries, gasoline is pumped to storage locations near populated areas and then trucks transport it to pumping stations. Gasoline is sent through shared pipelines where co-mingling occurs. So if you purchase gasoline at a specific pump, it does not mean that it comes from a specific source; crude oil going to and refined products coming from refineries are often mixed in shared pipelines. America uses more than one gallon of gasoline per every man, woman and child. The demand for gasoline rose sharply in the last decade throughout the world as the growing population, improving living standards and more financial options for people in developing countries resulted in the number of cars and machinery increasing throughout the world. This resulted in record prices in 2008, but the slowing world economy has brought prices down. Recent unrest in the Middle East has resulted in higher gasoline prices as well. The highest demand for gasoline is during summer months and prices usually rise in these months. Another factor resulting in high gas prices is some environmental regulations requiring gasoline to be less volatile (evaporate less) during the summer months. An interesting fact: the prices of gasoline are higher in the state of California because the state requires special additives to be added to reduce harmful emissions. At the gas pump, gasoline is

sold under different grades such as regular, mid-grade, premium. Premium is usually required in high performance engines of sports cars and motorcycles.

Gasoline and the environment

Gasoline itself, if released into the environment, is considered a pollutant and since gasoline is very volatile, it's easy for it to vaporize and thus it is supposed to always be stored in sealed containers and spills should always be avoided. In fact, it is smart to fill your tank in the evenings on hot days. This is because fueling your vehicle in the heat causes more gasoline to evaporate, and a high air temperature aids in its reaction with the environment. When burned, gasoline produces water and carbon dioxide in an ideal case. Carbon dioxide is considered a greenhouse gas. In 2009, carbon dioxide emissions from burning gasoline made up 20 percent of the total CO2 emissions of the U.S.: 1,157 million metric tons. As mentioned, CO2 and H2O are the by-products only in the ideal case. In reality, by-products include toxic gases such as Carbon Monoxide and Nitrogen Oxides. Unburnt gasoline and particulate matter are also present in a vehicle's exhaust. The cleanliness of exhaust gases mainly depends on the age of the car. Government regulations require cars to have catalytic converters, as catalytic converters react harmful substances with Oxygen to reduce their toxicity, but catalytic converters are not perfect either -- when cold they are not as efficient. In addition, the EPA requires the following: removal of leaded gasoline, reformulated gasoline for metropolitan areas, low sulfur gasoline and reduction of gasoline leaks.

At the end of the day no matter what actions are taken, gasoline-powered vehicle emissions will always be a cause of pollution. Thus, the sooner we develop alternatives, the better. In the next article in this series, I'll explore diesel fuel. Diesel fuel and vehicles have evolved a lot since their birth (and I find diesel engines really interesting.)

TALKING NERDY



WITH JOE HAEG

BY JOE HAEG
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The sale of annual sequels is hurting games and gamers alike. Do you really want to fork out \$60 of your hard-earned cash for some minor updates to multiplayer, team rosters or a tacked-on single player campaign?

I sure as heck do not.

It is time you stop supporting publishers as they assault your wallet. There are other ways to get the same results that I believe will work better for consumers and publishers.

When companies pump out sequels to games, it hurts the franchise and leads to its eventual death.

Guitar Hero is the perfect example of this. The series became popular and Activision saw dollar signs and began pumping out more games than the Red Hot Chili Peppers had guitarists. This over saturated the market and sales plummeted. In 2010, Activision put out four Guitar Hero games, not including spin-offs and hand held titles. There were no significant changes made to these games. It was the same game over and over again with maybe a few minor gameplay changes. You were basically paying \$60 for some new songs.

This same thing is happening in sports games and in the Call of Duty franchise. In sports games you are paying for glorified roster updates; and in Call of Duty, you are paying for new maps and weapons. But beyond that, is there much more that is worth your \$60?

When I play a sequel, I want an experience that is significantly different from the previous one. In

other words: when I play Modern Warfare 2, I don't want it to feel and play like Modern Warfare 1. I want it to feel and play like Modern Warfare 2.

Thankfully, we can fix this problem, and there are already methods in place to solve it. The answer, my friends, is downloadable content (DLC). It is already in place in games like Call of Duty and Rock Band.

When it comes down to it, what is the basis of the new game? In Rock Band, it is more songs; and in Call of Duty, it is more multiplayer maps and weapons. But you can already download more maps and guns and songs online via DLC.

The problem is that most people have gotten so used to the retail model that they don't even notice it anymore. You're buying these new games at \$60 a pop because you think it is the only viable option. But if you were to stop buying these games brand spanking new on day one, and instead voted with your money by buying DLC, then I think publishers would probably look more fondly toward that.

This new model would work better for everyone. The consumers get more of the content they love for less; the developers are able to keep their franchises from stagnating by having better sequels every couple of years. I believe developers have the resources to manage updating the games they have out with more content that you love while planning a new sequel that feels significantly different from the previous one. We just need to stop supporting the old model by paying \$60 day one for the same old stuff.

Letter to the Editor

BY ELIZA STEELY
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Besides the thousands of dollars I pay to attend UMD I spend endless hours in the library, drink countless cups of coffee, and have days that are so stressful I want to yank my hair out... all to double major in four years. I have devoted myself to achieving that goal despite the doubt and warnings from others. I take 18 credits a semester to graduate on time, I dedicate my free time to studying in order to achieve a high GPA, and have made several sacrifices in my decision to excel academically. I was appalled when I attended graduation and discovered that double majors are barely recognized.

The majors are listed in a program, but students with more than one major are asked to choose one to walk across the stage in recognition of. This forces the student, who invested a lot of work, commitment, and effort, to demean one (or more) of their majors, so that students aren't scrambling to walk for the other degrees. Something that could easily be remedied by having a section for people with more than one major, allowing them to walk for ALL of their hard work, not just part of it.

Is that too much to ask for? To have the thing I have been working toward for four years of my life be recognized? To be able to ceremoniously walk for both of the degrees I've earned? Is recognition of something that can further the reputation of the university, something that is too much of a hassle to do?

I hope that by the time I graduate in May of 2013 the efforts of people with more than one major will be recognized with pride.



UMD students walk at the 2011 commencement ceremony at Amsoil arena.

BRETT GROEHLER/UMD

Think the parking needs to be fixed?
How are your classes going?
Does the Statesman need to do something different?

Tell us! Write a letter to the editor expressing your views about the Statesman, UMD or Duluth.

A letter from Student Association

The Student Association would like to welcome our new freshman, representatives, and senators! With a variety of new members joining us in the past two weeks, we are nearing full capacity! All current voting positions, except for a few senate openings, are occupied. We have moved the location of Congress on Thursdays at 5pm to KPlz 312 to better fit our new dimensions. We again encourage all of those interested in Student Association and what we are doing to join us for those meetings.

This Saturday, October 8, the annual Fall Retreat was held and all members were taught about the structure of Student Association, parliamentary procedures, and our constitution. It was a great opportunity for new members to learn about what people

holding executive positions do and also have a chance to meet each other outside of Congress and committee meetings!

Fund Allocation Committee has finished meeting with all student groups hoping to receive funding this year. After twenty-seven hours of interviewing, their work load has not ceased. This Thursday, October 13, they will propose to Congress how they presume \$32,000 should be allocated among 89 organizations ranging from the Cricket Club to Battlebots. They will make their decisions based on a list of criteria concerning numbers of members, fundraising attempts, volunteer opportunities, etc.

If the resolution is passed, groups will be notified and checks will be made available in November. Zack Filipovich, the

Vice President of Administration and Finance states, "learning about 89 groups was an enlightening experience and UMD truly has something to offer everyone! Thank you to all the student groups for taking the time to share what your group does!"

With a bunch of wonderfully working minds coming together, we are excited about new events and proactive initiatives coming into play. Things to keep your eyes and ears open for: flag football, barbeques in your neighborhoods, and a forum with the mayor.

Student Association would like to emphasize and extend their support to the Multicultural Center in light of recent events. Have a great week!

Taylor Glynn, Director of Campus Outreach



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Men's Hockey kicks off season with split against Notre Dame



Scott Kishel, 6, battles Notre Dame going for a goal.

PHOTOS BY ALEX LEONE/STATESMAN

BY BILL ZIEGLER
ziegl149@d.umn.edu

An impressive win Friday put the Bulldogs in familiar territory in front of a spirited crowd at AMSOIL Arena.

In their 34th meeting, No. 1 ranked Notre Dame and No. 8 UMD split victories in their two matchups this weekend. The Dogs took home the victory Friday (4-3) in their debut after senior Travis Oleksuk scored the game-winning

goal with 4:24 left in the third period.

The team looked very cohesive as a group and played well right out of the gate. Along with Oleksuk's game winner, junior left winger Mike Seidel, junior right winger Keegan Flaherty, and sophomore right winger J.T. Brown all recorded a goal in the victory.

"That was a total 60-minute team effort tonight," said Flaherty. "I felt we were in great shape and had worn them down a bit. We didn't

have much play at all in our defensive zone and instead kept the puck in their end for a good part of the night."

UMD coach Scott Sandelin was happy with the way his team performed as well.

"We did well playing with the lead, our intensity level was good and we got stronger, and that comes from confidence," Sandelin said. "We did a good job defensively, and that is what we are going to need this season."

Friday night featured the unveiling of the 2011 NCAA Division I Championship Banner that now hangs in the rafters over the ice at AMSOIL Arena. The new banner is perched next to the American flag on the north end of the arena.

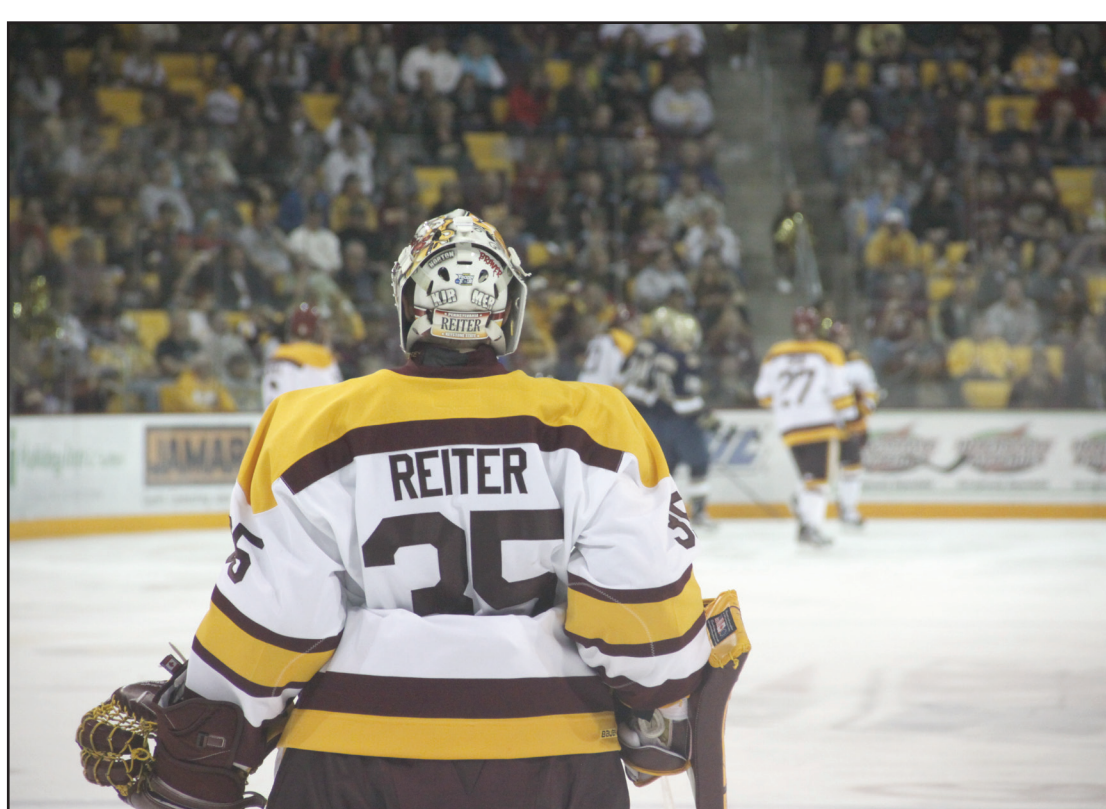
Saturday night was a different story as Notre Dame out-skated UMD en route to a 3-5 loss at home.

Oleksuk scored the first goal of the game with a slap shot 13 minutes into the first period. This was

followed by a goal by Mike Seidel at the beginning of the second period that put the Bulldogs up 2-0 before the game's midpoint.

The Fighting Irish marched back with five consecutive goals that sealed the deal for them in the final game of the series.

UMD will play at home again this coming weekend and will host the rival Minnesota Golden Gophers.



UMD goalie, Kenny Reiter takes to the ice with his fellow Bulldogs.

Tailgaters invade AMSOIL Arena parking lot prior to hockey opener Friday night

BY BILL ZIEGLER
ziegl149@d.umn.edu

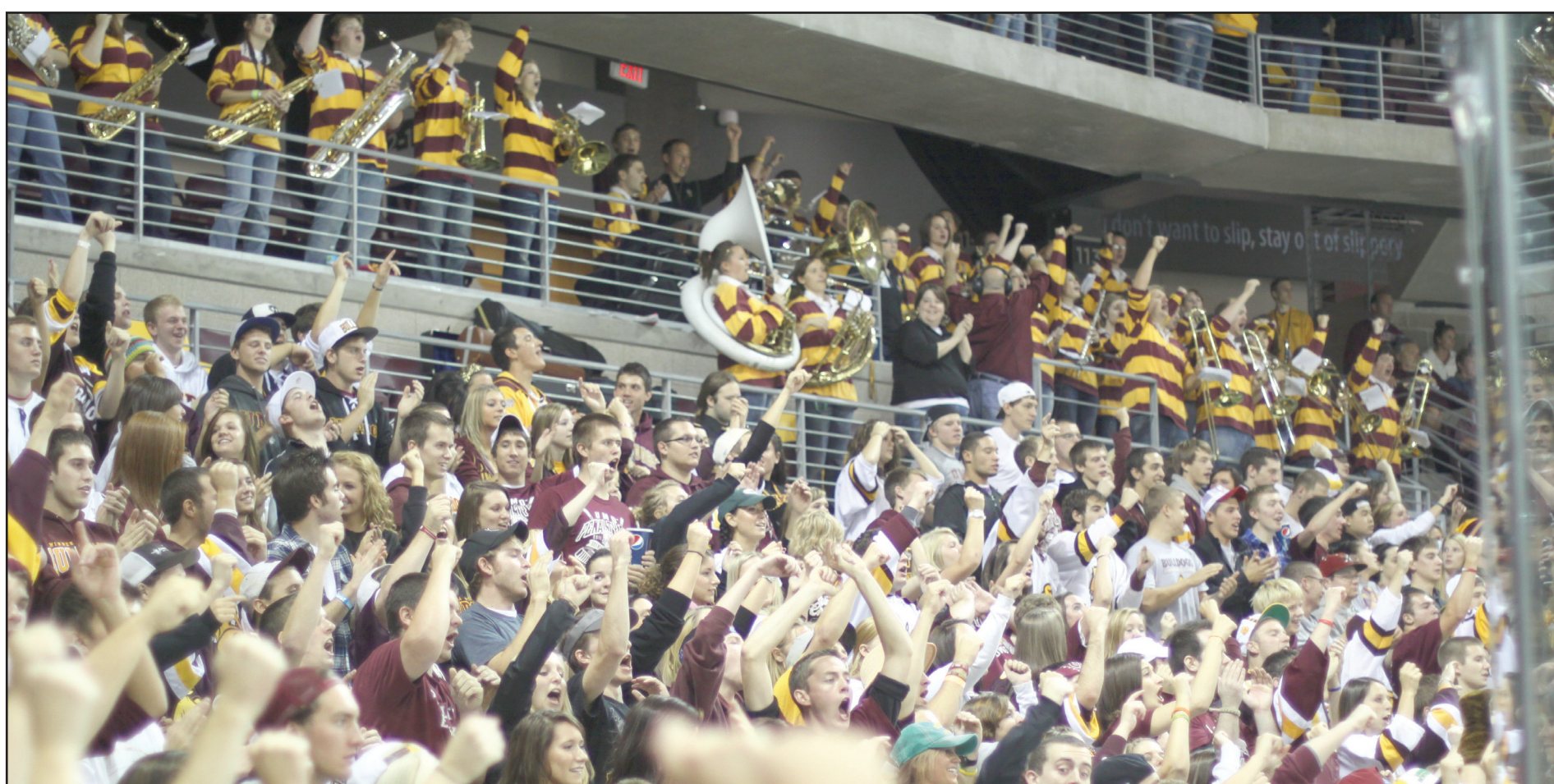
It's that time of year again! Hockey season is underway for the defending NCAA Division I National Champion UMD Bulldogs. Many of the 6,296 fans in attendance for the game showed up for a tailgate party before the Bulldogs opened their season Friday night at AMSOIL Arena against No. 1 ranked Notre Dame.

UMD students, staff, fans and alumni tailgated to celebrate the beginning of another season of UMD hockey. People were showing up hours before the game to

grill, hang out and show their Bulldog spirit.

"It is awesome to come out and show our pride before the game with fellow Bulldog fans," said UMD junior Nick Hansen. "Eating food, watching hockey and having a good time, it doesn't get much better than this."

Tailgating provides a unique experience for fans to interact with each other. Just by simply observing the people who were down there tailgating, you could tell it was a special experience. It is clear how the alumni and community members feed off the energy from the students.



The UMD student section at Amsoil Arena celebrates the Bulldog's 4-3 victory Friday, Oct. 7, 2011.

Women's Hockey season kicks off

BY KARA HILLE
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The Bulldogs were only 0.4 seconds away from sweeping their opening series against their non-conference opponent Boston College last weekend. Prior to the game on Saturday, coach Shannon Miller knew just what to expect from the Bulldogs in the game against the Hockey East team.

"Exciting hockey, speed, physical plays and creative plays," said Miller.

She also expected the freshmen to make a big difference.

"Brigette Lacquette, Jenna McParland and Zoe Hickel are three freshmen that have to step in and be impact players," Miller said.

All three players notched a point in the Saturday game: Hickel with an unassisted goal, and an assist for both Lacquette and McParland. However, junior and team veteran Nicole Wong was the Toyota-sponsored "player of the game" Saturday afternoon, tallying five points with two goals and three assists, aiding in the 7-2 final score. Hickel went on to earn an assist on Sunday just before Lacquette could score a goal of her own during the second

period. With less than a second left in the third period, it looked as if the match was going to head into overtime when a stunning goal from Boston College's Alex Carpenter upset the Bulldogs. The game finished 3-2 in favor of the visiting team. This was the first time the Bulldogs had lost to the Eagles.

Sunday's game produced 14 penalties, half of which were either cited for roughing or checking. Jamie Kenyon did not finish the game after an injury was caused by what was called as a body check. She watched the remainder of the

game from the bench and was able to join the team afterward for an autograph session.

"When you have a window of opportunity to play a non-conference game, it's important to play a good opponent ... for national rank as well as strength of schedule," said Miller.

Last season the Boston College Eagles made it all the way to the national semifinals in the NCAA Women's Frozen Four, losing to the Wisconsin Badgers in a 3-2 game. UMD is set to host the Women's Frozen Four this spring.

"To be given the honor (of host-

ing the Frozen Four) for the third time says a lot about the program, the university and the community," Miller said. "In my opinion, the best two have been hosted by UMD. We try to raise the bar for the third time. It's a fun opportunity."

Next weekend the Bulldogs will take on another Hockey East team when they play the University of Connecticut. They play in Connecticut on Friday at 7 p.m. ET and Saturday at 4 p.m. ET.

Cycling club rolls into a new year

BY MATT BUSCH
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UMD has many club teams, but very few as laid-back and inviting as the cycling club. "Rides are open to everyone," club president Cassie Columbus said. "Even faculty members show up."

The club fields some members who will participate in local citizens races, but have yet to compete against other universities.

The club has two practices a week, one road ride and one mountain bike ride, but Columbus describes the group rides as more of a social club rather than a competitive team.

"Those are nice rides just to get to know everyone," Columbus said. "We always go at the pace of the slowest person," said Matt Manor, a club member.

The club also has some more serious rides and riders, even biking to the Canadian border once a year. "Last year we had some one swerving, sleeping on his bike," said Columbus about last year's journey to Canada. Club member Garrett Cardinal

undertook the 150-mile trek to the Canadian border this past Saturday, leaving at 8:00 a.m. from UMD. Cardinal finished the ride to our northern neighbor in a riding time of eight hours and 15 minutes.

The group was only started five years ago and participation has swelled to more than 20 riders.

"It was just a group of people who saw they rode bikes," Columbus said about the origins of the group.

The club's goals include growing membership, getting more female participation, and helping to promote sustainability at UMD by riding to class instead of driving.

Columbus doesn't want people to be afraid to say, "Hey, I'm a cyclist, and I wear spandex!"

Anyone interested in joining the club can join at any time. Columbus can be contacted via e-mail or the club's website, accessible through umdrsop.org. "We encourage everyone to ride," Columbus said. "Especially since it's been so nice out."

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Matthew Busch at
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PHOTOS BY RACHEL KRAFT/STATESMAN

DESSA: Artistry in skillful writing

Performing in the Ballroom on campus, Dessa serenades students Friday, Oct. 7, 2011.



BY ABBY ROSEN
rosen672@d.umn.edu

Intellectual is not the first adjective that often comes to mind when someone says "modern hip-hop." Dessa, who visited UMD on Friday, is a very notable exception. Through her workshop and performance, she let her audience in on her exciting departure from her Doomtree roots.

On Friday, Dessa broke down the performer-audience barrier and let people into her world with her workshop. She offered students advice on everything, particularly the importance of writing and establishing the kind of reputation you want to live up to.

As acting technical CEO of Doomtree Records, she is responsible for the band's press releases and communications, and even writes all of the band members' bios. Because of her own songwriting and these professional responsibilities, Dessa noted how crucial strong writing skills are. "Developing clear and inviting writing skills" is often the difference between getting an interview, getting hired, getting published or not. She also offered the most valuable piece of

advice that she got from her father.

"Keep your overhead low. It affords you the time to navigate your options instead of spending all of your spare time working," Dessa said.

Though her talk alone was inspirational, the performance went above and beyond expectations. The smaller venue and three-piece band gave the gig a sense of intimacy unusual for live shows. The album, released on Tuesday, is not an entirely new record but one of previously released tracks.

"We went out west, and when we came back, the songs had changed. By the end of the run people were asking for the newer version too," Dessa said.

Each new version exemplifies why Dessa is an amazing talent. Instead of resting on old, well-received songs, playing them the same way over and over, she chose to evolve them. Because of her talent and the talent of her band, they were able to develop naturally, unlike other overdone or artificial remixes. They were more revisited than remixed. "Mineshaft 2," a popular song off of her second album, "A Badly Broken Code," was pared down to a simple guitar

riff and light drums to highlight the power of her voice.

The band even treated audiences to a different version of "Bullpen," one of her most well-known songs. It featured an unexpected but expertly done 70s-style guitar solo and, as always, Dessa's haunting vocals.

Every song was not better or worse, but a successful experiment in what music can be when looked at through new eyes.

Dessa is at home on stage, interacting with the audience, making conversation and, at times, losing herself in the music along with the rest of us.

"She really shines on her own. I love to be able to watch an artist clearly enjoying themselves at their show," said Curtis Foster, a UMD senior.

Dessa's artistry and passion for music and writing was on full display on Friday. The talk allowed a select few the privilege to spend a few hours in her head; to learn from her knowledge and down-to-earth experiences. The concert allowed even more of those people to see what could be attained with that knowledge, that type of passion and that type of writing.



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Charlie Parr performs on campus

Blues guitarist Charlie Parr performed in the Kirby Rafters on campus Wednesday, Oct. 5, 2011.

BY ALANA AUTENRIETH
auten009@d.umn.edu

Certain images come to mind when picturing country blues music. A man sitting on a porch with a guitar, old washed up singers who have seen better days, even hillbillies. If these claims are true, you wouldn't know it stepping into the Kirby Rafters last Wednesday night. The seats were filled with young college students waiting to listen to some good ol' country blues! Sounds of sweet blues music filtered through the Rafters, compliments of Charlie Parr.

Parr, who hails from Duluth, took the stage and the audience sat in awe as his fingers flew across the guitar strings. Parr skillfully incorporates elements of blues, folk, bluegrass and country in his music and lyrics that give it a real, raw feeling.

The audience definitely responded well.

"I've never seen anyone play so effortlessly before. This guy is really good," Lauren Chapman, a sophomore at UMD, said. "I don't really like country music, but I definitely like his stuff."

Parr's opening act, The Giant Mountain Family Band, got kudos from the audience as well.

"They were funny; it was cool that they didn't take themselves too seriously and told jokes to the audience. It loosened the crowd up," Chapman said.

Giant Mountain Family Band incorporated acoustic folk rock and

bluegrass elements in their songs, adding an occasional accordion and mandolin. Lyrics and harmonies were whimsical, charming and funny. They closed with a crowd-pleasing rendition of "Kiss from a Rose" by Seal, complete with a sing-along chorus in which anyone who knew the words joined in.

Parr took the stage. The audience was ready. A quiet man, Parr talked little but played much. He drew people in by his ability to tell stories through his music. Some were silly, like living on a farm with a lot of kids and dogs, and some were somber and reflective, like realizing that one day you will inevitably die. He spoke about his daily life, his children, and his lawn mower troubles.

Charlie Parr's ability to relate to people is what makes him so great.

"If you came here to see a professional musician, I am sorry," he joked with the audience while fine tuning his guitar.

But the audience didn't come to see a spectacular show with crazy lighting and huge numbers. They came to see a real, raw performance from someone who plays for the love of it. Country, blues and folk music are popular with students today because we are looking for someone to tell us the truth; real lyrics and instruments with real heart. Sure, sometimes it gets a little silly, but isn't that what life is about? The good, the bad, the silly, the serious: it's all there.

Maiers and Kraus A not-yet band

BY BEN PIEPER
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From lethargic movie nights to exciting night games, many on-campus events are fun and carefree. Few of these programs require actual talent from the individuals that participate; except, of course, open mic night at UMD in the Kirby Rafters.

Last Tuesday, about halfway through the open mic lineup, the Kirby Rafters was filled with the music emitting from sophomore Jordan Maiers and freshman Max Kraus.

Their performance relied heavily on the soaring vocal harmonies that Maiers and Kraus created so beautifully together. With chemistry on a stage mostly devoted to amateurs, they gave a shot of charisma to a venue in which some performers brought none at all.

"That was the first time," Maier said.

The duo, despite having little

time with the audience's attention, had no trouble conveying their blatant love for the music that they were making and their passion for the art of performing.

With all of this newly discovered passion, the pair has high hopes to keep up their long-running partnership.

"Ninth grade is when we became good friends," Kraus said.

Maiers said, "I taught Max guitar lessons for like four or five months, and we were in our church's youth band together for a long time."

With their love of music and their perseverance, the two UMD students aspire to not only play more at the Kirby Rafters open mic nights, but also write original material together and play gigs outside of the school and around Duluth.

However, the longtime friends and partners in rock do not consider themselves a band, at least not yet.

"We're just two guys who play

music together," Maiers said. "We're working toward that (a band) though."

The pair confessed that they have yet to even consider ideas for a group name. Naming, the "hardest part" of creating a band, is at the moment being avoided. The two have instead put thought into creating a set list, including some possible songs to cover that stick with their dual harmony sensibilities.

"Maybe some Simon and Garfunkel," Maiers said. "'Sound of Silence' would be pretty sweet to do."

For now they will use the open mic night as a great opportunity for amateur student artists to demonstrate their budding professional talents, until they come up with a name and become a band.

As it is, it stands as an inspiration to Maiers and Kraus to take their gifts a few steps further, to the stage and beyond.

Creative Corner One Cereal to Rule Them All

A Serial By Laura Prosser
pross016@d.umn.edu

Welcome back ladies and gentlemen to Survival of the Cerealest. I'm the host of today's show, Poppin' Fresh the Pillsbury Dough Boy, and my co-host today is Kool-Aid man. Say Hello, Kool-Aid.

Kool-Aid: Hello Kool-Aid.

Poppin': We left our contestants all leaping ill-equipped into the tepid milk of the Mills General Sea. Each one, in their attempt to attain their designated destination of the Kel Island of Llogs, commenced discovering their own individually unique way across the great expanse of the milky sea. We pick up where we left off in the foray of adventure.

Kool-Aid: That's right Dude! Today, we find the Capt'n in his ship with a parrot...ahem...toucan on his shoulder. A bee and a bat testing the winds of chance in their flying devices. A Tiger trying his own endurance against the currents. Three pocket-sized boys, with minute spoons, in a bowl of their own surrounded by white. And last but not least, a grief-stricken Irish legend afloat on a marshmallow the shape of a four-leafed talisman.

Poppin': Kool-Aid, mishaps are bound to happen today, what with the great stretch of sea the contestants have to cover. That distance would be a challenge on anyone's body, as well as mental state.

Kool-Aid: I agree Pop diggity! Today's challenge looks way easy but the more I watch these mascots try really hard, and the more I look at this big milk sea, the more I say "Kool, this stuff ain't easy!"

I mean, just look. Tony "the Champion" Tiger seems to be doing good but if his body wasn't already in grrrrreat shape already...

pun intended haha... he would probably have drowned. He's going way slower now and he's sittin' in milk and movin' his arms about, more than he's swimming. **treading milk.

Poppin': I concur! If any champion can do it, it's Tony. I identify with the Tiger, but if you'd look for a second at the bat and the bee in the sky. Buzzbee, despite his undersized wings, is maintaining the taxing velocity that the Count is setting with his superior wings. It makes me want to root for the underdog here, or the underBEE, to be socially understanding and politically correct.

Be still my heart! Look, Kool-Aid, it seems that the Count is having trouble with his sonar! Due to the great, wide-open sea and the lack of physical objects he can use to bounce his sonar off of, he's having trouble telling if he's going the correct direction. He's weaving back and forth, up and down, trying to get his bearings, and in the process losing time and stamina as he wastes energy determining what is -- or is not, in this case -- in front of him.

It's like watching a kid trying to decide which one candy he can have in a candy emporium, only much, much sadder. Even Buzzbee, behind that perpetual smile, seems to be questioning if he should guide the Count like the old blind bat that he is or leave him to his own devices. Will it be every Bee for himself, Buzzbee?!!!

Kool-Aid: Yes! Holy Toledo it is going to be every Bee for himself!! Buzzbee just completely did a U-turn and left the Count in his dust! I guess behind that stupid grin hides a messed up, dark little bug. Like a killer hiding behind the smiling face paint of a circus clown, Buzzbee just abandoned

Count Chocula as easy as he'd hand a kid a balloon. That's cold, Buzzbee. Just plain cold, man!

Poppin': Who would have considered a game like this would have revealed the sinister side of well-loved and cherished mascots?

Kool-Aid: The dude that set this up.

Poppin': That was rhetorical.

Kool-Aid: Right, knew that.

Poppin': Don't you agree, Kool-Aid, though, that it's got to be painful for human children of the world to watch as their most admired and esteemed childhood... dare I say friends, fall far short of expectations right before their very eyes? To realize what you believed real and humane in someone was a complete act put on for boosting sales.

Kool-Aid: You should talk, Mr. Hoo-Hoo! What are we doing here besides being product placement? Dude, lose the wordiness and just close.

Poppin': You don't appreciate art. Fine, let's do it your way. That's it today. Next week we see how the other dudes are faring in the milk ocean. Catch you then, Peeps.

Kool-Aid: I wouldn't have said "faring."

Now who among you so brave and so smart? Who among you have ideas like art? What shall befall our travelers big and small? What tasks? What trials? What tribulations face them all? Suggest what you want to see happen next. Be the one that decided what next will perplex? What dilemmas, misfortunes and tests they engage? Your ideas, your creations, even your notions may appear on the next page.

Submit to pross016@d.umn.edu

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- 3 WILCO
- 4 WILD FLAG
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- 6 DUM DUM GUES
- 7 MEGAFALN
- 8 MOVES
- 9 TWIN SISTER
- 10 TENTH LAGOON



- You And Me, Else
- Obsession
- The Whole Love
- Wild Flag
- Strange Mercy
- Only in Dreams
- Megafaln
- Making in Wrong
- In Heaven
- The Year Of Misadventure

ALBUM SPOTLIGHT

Artist: The Horrors
Album: Skying



England's The Horrors could have so easily fallen into the abysmal cookie-cutter, post-punk revival band camp. However, the band's incredible album-to-album progression from garage-punk to shoegaze to dream pop (all with the post-punk foundation) feels so damn natural that it's difficult to dismiss them on the grounds of imitation – something listeners may be a bit too quick to label a crime these days. *Skying*, the band's third album, maintains an elevated focus on atmospherics with heavily layered textures of synth, bass, and vocals with the occasional guitar riff cutting through it all. The album still contains great hooks; tracks such as the lead single "Still Life" would suggest as much. While *Skying* doesn't quite match the brilliance of 2009's kraut-fueled *Primary Colours*, the album certainly highlights The Horrors' capacity for musical expansion and forward-thinking creativity. At the very least, *Skying* is a faithful, modern interpretation of a genre that may have been overlooked by those of us born after 1985.

— Joe Iannazzo

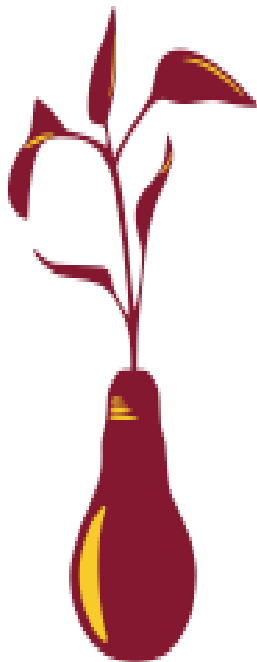
Focus tracks: "Changing the Rain," "Still Life," "Endless Blue"

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KATELYN WHITE:

A girl in love with patterns

BY HANNAH LORENZ
lorenz293@d.umn.edu

Inspired by patterns, nature and anything that she can see, the birth

of five unique paintings came to be. Katelyn White calls them pattern panels. She has a love of patterns.

"There's no deeper meaning to

them," White said, when asked if she had a message she wanted people to get through her paintings.

Just different patterns, nature, anything she can see inspires and creates meaning for her.

Walking into the art gallery, you can see White's own little room with her five panels on display. They hang on the walls: a green one, a gold one, a blue one, a purple one, and a diamond one. Right there for all to see.

White is a senior, and studio art is her passion and her major with an emphasis in painting, drawing, and print making. No other major could possibly hold her interest.

"Everything else was boring," she said. "There's no fun in that."

However, plenty of fun was in the creation of her show.

"I'd work on two easels and work back and forth," White said.

She painted the base, put tape on the entire rectangular board to protect the base paint, and then she drew and carved different specific shapes on each. By peeling away the tape around the shape she began to reveal a distinct pattern --

a pattern she loved.

The green and purple one were started first and were pretty much finished when she went onto the diamond one.

"(It was) kind of a headache," White said.

So she started on the blue panel. Nearing the blue's end, the gold one got started and the diamond one was still in waiting.

"It was the most stressful thing to work on," White said.

Cutting out the little diamonds and shifting them all the way across the 2-foot width required accuracy.

The green panel, a pattern of many, many circles all connected by thick lines, emerged and was inspired by blurred dots of light coming from a television in a dark room.

The purple pattern panel was base drawn squares. Originally, White intended the top to be a whole grid of squares. That soon changed.

"I did not want to be too overwhelming, so I went with just lines and some squares," White said.

With the blue one, she confessed to doing a lot of doodling in class.

"The bottom layer is like this organic swirly pattern, and on top it's a simplified leaf form in a structured; a rigid pattern."

The gold one has nature. "My own version of branches," White said.

The top layer portrays many branches and the bottom layer involves leaves or flower forms. White has yet to decide.

From July to October she worked on them. From her small room to a school studio, she planned.

Every pattern, every color; inspired by nature, life or doodles, made their appearance on the panel.

Every pattern meticulously measured, designed, thought out.

"I'm a one step at a time type of person," White said.

It shows in her work and in her love for patterns.

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Planetarium of a new era

BY JENAE PETERSON
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Many people love to watch the stars. The only problem is that in Duluth, the weather is too unpredictable to plan outside star gazing. However, what a lot of people don't know is that UMD has an indoor planetarium, which is open to the public.

Started in 1965-67 with a "generous donation by Marshall W. Alworth," UMD's planetarium has been running for 44 years, struggling to keep its doors open.

In 1992 the budget was retrenched, leaving only the fund set up by Alworth at the start. Despite these hardships, the planetarium has prevailed. But after 44 years, the equipment was failing -- until its reopening in September.

"It's like an omni-theater now," planetarium director Howard Mooers said.

The new place includes digital lighting, a full-dome theater, new seats, surround sound, laser shows and more.

"The purpose of the planetarium is public science education ... with focus on space education," Mooers said.

However, learning about space isn't just for adults. There are shows

for all ages. While "Natural Selection" may not be the most interesting for kids, "Larry Cat in Space" was fitting for the kids in the audience.

"Anybody can understand science," Mooers said.

Shane Loeffler, a Geology major and astronomy minor at UMD, works at the planetarium.

"Space is my passion," Loeffler said. "It's a great place. A lot of work, but a great place."

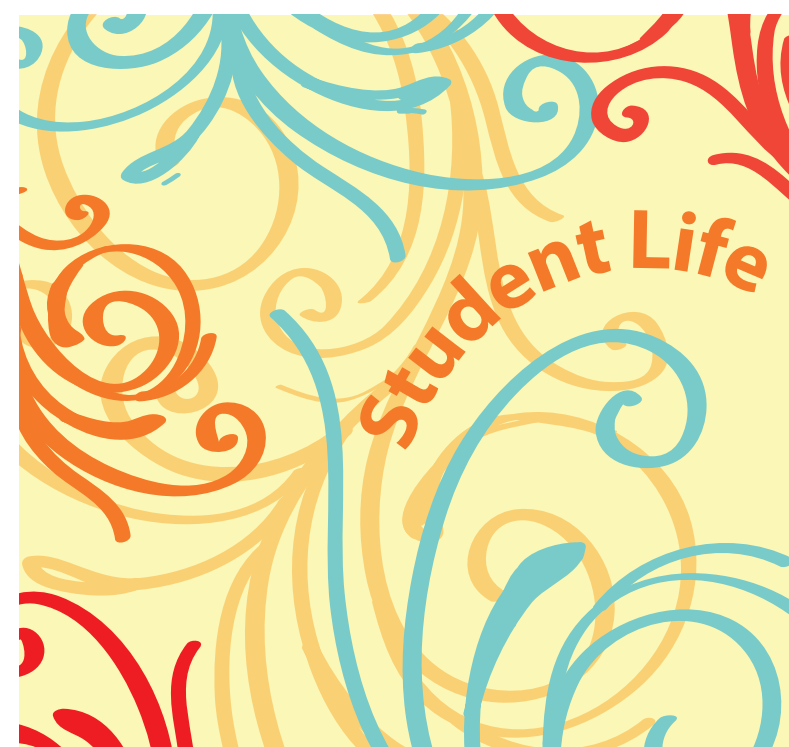
The shows are designed by the employees and the director. They show movies, give star shows, and answer all the questions they can.

The designs usually come from the ideas of the employees, but if there's a "current event happening in the sky," then they will make the show to focus around that.

"I get to show the general public and anyone who comes the wonder of the cosmos," said Loeffler.

Saturday, Oct. 8, 2011, was the start of Saturday showings. It was also a new era for the planetarium: the era of revival. When it first opened, the only free shows were Wednesday evenings. It then moved to Wednesdays and Fridays, and finally they have added two Saturday performances.

"We want everybody to have access," said Loeffler.



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Canceling of Mortal Kombat

BY AMY BERG
berg2008@d.umn.edu

Kid: Mortal Kombat, on Sega Genesis, is the best video game ever.

Billy Madison: I disagree, it's a very good game, but I think Donkey Kong is the best game ever.

Kid: Donkey Kong sucks.

Billy Madison: You know something? YOU SUCK!

"Billy Madison," 1995.

This was literally the only information I knew about Mortal Kombat before I was supposed to attend a tournament on Thursday night. Sadly, it is still all I know, because the tournament was canceled. There were not enough participants signed up.

While the tournament was canceled, the Underground was still hopping at 9 p.m.

UMD senior and Underground employee Sean Braid said that the tournaments held on Thursdays are usually busy.

"We have regulars but we also have a lot of new faces in here every day," Braid said. "A lot of people just come do homework, play video games or hang out, and some people just come here to sleep in between classes."

If you have never been down to the Underground and feel intimidated, don't. It's just a bunch of big screen TVs, video games, pool tables and people like you in a big room, much like a weird arcade.

Instead of a roll of tickets that you use to buy a cheap fan or wind-up car that breaks 10 minutes later, though, here the prizes are \$20-\$30 school store gift cards or a free game of the winner's choice.

A tournament is held on Saturdays featuring door prizes given out to random participants, not just the winners.

Why shouldn't a gamer participate? Why shouldn't everyone participate?

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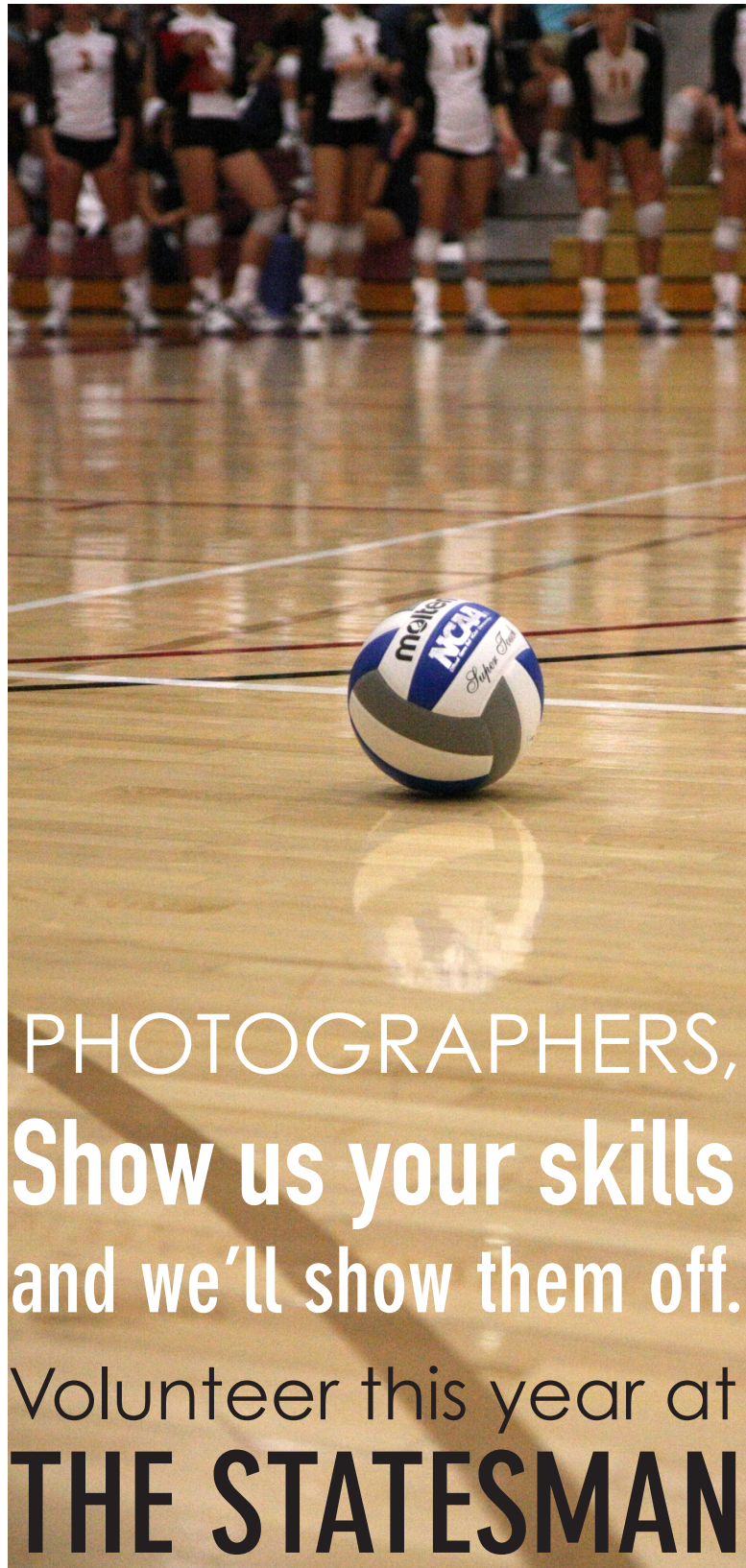
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