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THE ROSE THORN

ROSE-HULMAN INSTITUTE OF TECHNOLOGY • THORN.ROSE-HULMAN.EDU • FRIDAY, SEPTEMBER 20, 2013 • VOLUME 49 • ISSUE 02



saturday
sunny
72°/50°



sunday
sunny
74°/52°



monday
sunny
76°/52°



Star Trek and
Imagine
Dragons. **Page 4**



The approaching fall weather is a great chance to enjoy some seasonal traditions. **Page 5**



Save early. Save often. The effects can compound. **Page 6**



Fightin' Engineers host Defiance College in Homecoming football game. **Page 7**

Homecoming tradition at a glance

Elena Chong • news editor

Homecoming weekend is a good time for students to relax, take a break from homework, and enjoy some valuable time celebrating Rose pride. The weekend is also a good excuse for alumni to escape their busy life and come back to their alma mater to meet up with some old friends and reminisce about their times as a Rose student.

According to Dr. Richard Diteon, Professor of Physics and Optical Engineering and Director of Oakley Observatory, Homecoming hasn't changed much since he was a student at Rose-Hulman. Homecoming begins with the Pep Rally, a traditional event where the cheer and banner contest take place. Members of different residence halls and fraternities or sororities spend time together creating their own masterpiece to submit to the contest.

During the Pep Rally, the Homecoming Queen is also chosen from a group of women nominated by students. According to Thomas Miller, Associate Vice President and Dean of Student Affairs, the Homecoming Queen was

usually a girl from Saint Mary of the Woods College before women were admitted into Rose-Hulman.

After the Pep Rally, students get together to watch the bonfire burn down. The bonfire started as part of a freshmen project for a class called Leadership 101, which Miller advised. Freshmen in this class were in charge of building the bonfire. This project then became a tradition to build a bonfire one foot taller than the year before, but this tradition did not last due to safety measures. According to Miller, the bonfire was so much of a weight on the shoulders of freshmen that they almost got rid of the tradition entirely.

In 1996, Erik Hayes, Associate Dean of Student Affairs and former Rose stu-

dent, with a couple others seniors at the time decided to help out with the project so that the bonfire tradition wouldn't die out. "We did

built it will become a class of successful engineers and the Fightin' Engineers will win the Homecoming game. Usually, the president has the

"Homecoming is my favorite day of the year; people who have built a bonfire and have pulled all-nighters come back and recon-



Students working with each other to build the 2013 Bonfire.

Alla Letfullina • photo editor



All the departments are preparing to welcome alumni back.

Elena Chong • news editor

not have money to have the bonfire, so we made T-shirts from our own money and sold them in order to raise money to build the bonfire." Thus, in 1996, building the bonfire had become a campus project, not just a freshmen project, and remained that way for several years.

Around the year 2000, the freshman reclaimed the bonfire as their own tradition thanks to the support of the Student Government Association (SGA). "We could not [have done] it without SGA," said Hayes.

At the top of the bonfire sits an outhouse. The tradition states that if the outhouse should collapse into the fire when the bonfire is lit, the freshmen class that

honor to light the bonfire. Every year, students think of a unique and different way of lighting the bonfire.

The effort that the Rose-Hulman freshmen class puts into Homecoming is unquestionable. Freshmen may know by now that they need to put a lot of hard work in order to succeed at Rose-Hulman. Some of them may have already pulled an all-nighter to finish assignments. Even though the Rose lifestyle is rough, this does not stop them from celebrating Rose tradition. The freshmen spend precious hours that they could be using to sleep to build and guard the bonfire from upperclassmen, who want to tear it down.

As Erik Hayes describes,

nect with the school."

Dr. Diteon, who attended his first homecoming in 1975, has never missed one homecoming since his return to Rose after attending graduate school. "As a professor now, it's nice to see former students and catch up with what they have been doing," he added.

Homecoming would not be the same without the efforts of several students who contribute their hard work and creativity. These students make homecoming such a special and memorable day for the alumni to come back and share stories of what their life at Rose was like.

Cheers for the freshmen and upperclassmen that make the Homecoming tradition possible every year.

events

Homecoming Festivities

It is time for students, faculty, staff and alumni to share some memories.
On campus, September 20, 8:00 a.m.

Blood Drive

Want to save lives? Help by donating blood to the Indiana Blood Center.
Kahn Rooms, September 24, 11 P.M.



Lectureship in Astrophysics

Do you like Physics and/or Astronomy? Then you should not miss this event.
Kahn Rooms, September 25, 4:30 p.m.

Talk : "Muslim Journeys"

Want to understand more about diversity? Come and hear Luby's story.
On-campus, September 20, midnight

sports

Volleyball vs. Principia
September 21 - 11 a.m.

Volleyball vs. Illinois College
September 21 - 1 p.m.

Football vs. Defiance
September 21 - 2 p.m.

W. Tennis vs Transylvania
September 22 - noon

Let's Talk About It: Muslim Journeys



Lobna "Luby" Ismail

Thursday, September 26

4:20-5:10 p.m.

Robert and Louise Kahn Rooms,
Hulman Memorial Union Building

Hear and be inspired by a woman whose life and work have been dedicated to breaking down prejudice and preconceptions of the "other." Her story will allow us to collectively share how we unite our communities to confront bias and bigotry, and engage in building bridges based on mutual respect and unity across our diverse religious landscapes.

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We are Rose-Hulman's independent student newspaper. We keep the Rose-Hulman community informed by providing an accurate and dependable source for news and information.

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WEEKLY MEETINGS OCCUR at 5:15 p.m. on the first through ninth Wednesdays of each academic quarter. All members of the Rose-Hulman community are welcome to attend.

SUBMISSION of articles, photographs, art, and letters to the editor is encouraged. Submissions may be made by email to thorn@rose-hulman.edu or in person to Hulman Memorial Union room 249. The submission deadline is 5:00 p.m. Wednesday.

THE RIGHTS to accept submissions or changes made after the deadline, to include submissions in the online edition at thorn.rose-hulman.edu, to edit submissions insofar as the original intent of the submission remains unaltered, and to reject submissions deemed inappropriate for print are reserved by the editors.

LETTERS TO THE EDITOR should be no longer than 600 words in length and must contain the writer's (electronic) signature.

THE VIEWS EXPRESSED herein are those of their respective authors and, with the exception of the Staff View, do not necessarily represent the views of the staff or the Rose-Hulman community.

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Derek Robinson • *entertainment*
Bethany Martin • *living*
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NEWS BRIEFS

Miriam Remmers • staff writer

Federal Reserve Determines to Continue Pace of Stimulus

Despite their recent slew of optimistic remarks on the recovery and growth of the economy, the Federal Reserve postponed the end of their money stimulus campaign at least until the end of the month, if not until the end of this year. This announcement came as a surprise to many, who thought that with these optimistic statements the Reserve would certainly retreat and allow the economy to grow on its own. As positive as the commentary has been in past months, Ben S. Bernanke, the Fed’s chairman, said in a speech on Wednesday that the Federal Reserve still feared a turn for the worse. The policies in question, which were unveiled last year in an attempt to help housing recovery and job creation, added \$85 billion per month to holdings of both Treasury securities and mortgage-backed securities. These additions were intended to keep long-term borrowing costs down until the labor market showed marked improvement. Confusion over these policies has run rampant since June, during which time the Fed commented that they would begin to retreat by the end of the year. This statement instantaneously began to undermine their efforts, as lenders began to panic and demand higher interest rates on mortgages. Overall, the Fed is sending mixed messages to the general public, which is increasing confusion and may result in more harm than good. Investors may attempt to decode the Fed’s plans and could end up inadvertently increasing volatility in the market.

Efforts from Iranian Leaders May Signal a New Beginning in Diplomatic Relations

As Hassan Rouhani, the new Iranian President, prepares for a trip to New York next week, speculation of a new era of diplomacy and increased transparency in Iran’s nuclear program abound. In an interview with NBC, Rouhani declared that Iran would never seek weapons of mass destruction, including nuclear weapons, and that he was fully equipped to manufacture a nuclear deal with the West. While skeptics remain as unconvinced as ever that this marks a new age in diplomatic relations with Iran, experts are more confident in strengthened relations. Lately, the taboo of dealing directly with the United States has lessened, as evidenced by the efforts of Iranian leaders. Since the end of the very anti-Western Mahmoud Ahmadinejad’s terms as president, both government official, such as Rouhani and the Supreme Leader, Ayatollah Ali Khamene, have been astoundingly positive towards Iran’s dealings with other countries. They have gone as far as releasing political prisoners, exchanging letters with President Obama, and even transferring control of the nuclear program from the military to the much more moderate Foreign Ministry. Previous policies under Ahmadinejad left Iran in a deep economic depression with oil production down and its only allies in countries such as Syria and Venezuela. Now, the government is seeking a way out of this abyss; communication with Western countries seems inevitable. Rouhani’s trip to the United States is likely to include several proposals for Iran’s nuclear policy such as increasing transparency and diluting the potency of stockpiled uranium. Although no official meeting had been confirmed, it is entirely possible that Rouhani will meet with President Obama, an event which many would have viewed as impossible a mere month ago.

The Place of Mental Health in Gun Policy

In the wake of the Washington Navy Yard shooting by Aaron Alexis, a man who authorities say showed clear signs of delusional psychosis, the debate surrounding gun control and mental illness has once again forced its way to the forefront. More people believe that it is of paramount importance to keep firearms out of the hands of those who are not mentally sound enough to properly and safely use them. This is not so much a debate over weapon or ammunition control as it is a question of providing proper diagnosis and follow up care to those suffering from a severe mental illness. Strong proponents of the now failed Senate proposal to increase background checks of those looking to buy a weapon are not unanimously in favor of this new plan, however. They fear that opponents of their initial plan would throw their support behind these new regulations and that consequently increased gun control only for those with mental illness would be as far as new gun control laws would get. Even if new laws were put into effect, it is unclear how stringent the new system would have to be to catch cases such as Alexis’s, which with current regulation did not reach levels which prohibited him to buy a firearm. However, some states are beginning to take gun control into their own hands. States such as California, New York, and Florida have all passed legislation regarding mental health and the purchase of guns, largely focusing on individuals who have been admitted for psychiatric treatment or who have been determined to be a danger to themselves and others. It remains to be seen whether or not Congress will be able to agree on and pass the same type of regulation.

MOMIX Botanica

Christopher Kodama • guest writer

This past Wednesday, the Momix dance company performed at Hatfield Hall, marking the beginning of the 2013-2014 Performing Arts Series. Momix is led by Artistic Director Moses Pendleton and Associate Director Cynthia Quinn.

The Momix dance company is known for its unique use of various theater elements during their dance performances. They recently appeared in a colorful red and white Target advertisement that premiered during the 67th Annual Golden Globe Awards.

Momix has a large presence in Europe; they were commissioned to perform at Fiat’s 100th Anniversary Celebration in Italy and at Mercedes Benz’s International Auto Show in Frankfurt, Germany. In total, their work has been broadcast in 55 countries worldwide.

Earlier this year, an agent representing Momix contacted Bunny Nash, Manager of Hatfield Hall, to let her know that Momix would be passing through the area during the fall. Bunny was drawn to Momix’s distinctive use of projection, props, and costumes and really liked the “cirque show feel” of their performances. She subsequently decided to book Momix as the opening performance of Hat-

field Hall’s 2013-2014 Performing Arts Series.

Momix’s Wednesday performance was their Botanica production, which guided the audience through a 90-minute journey in two parts: “Winter, Spring” and “Summer, Fall.” Both parts contained several dances, each with one of the four seasons as a central motif. The performance was accompanied by a diverse soundtrack consisting of 22 separate pieces. Aside from the common theme of the seasons and nature, the dances were vastly different from one another and invoked wildly creative imagery. Equally imaginative were the numerous props and costumes used in the dances. As one audience member,


Travis Baumbaugh, put it, “I thought the show was very interesting, especially the part where the dinosaur skeleton went out of control and ate that person alive.”

The show was very well received, earning a standing ovation from the audience. As a token of thanks, the performers came back on stage for a

short encore. Incidentally, many Rose students were interested in this show; they made up an impressive 40% of the audience that night. Hatfield Hall’s next show in the Performing Arts Series is the Rhythmic Circus production Feet Don’t Fail Me Now! There will be a large block of free tickets available for that show, courtesy of the SGA.



Different colorful dances were performed by the dancers. hatfield.com



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From darkness into limelight

Kevin Weaver
entertainment emeritus

“Star Trek” as a television series has long been hailed as one of the greatest science fiction series ever written, often posed against the likes of “Star Wars.” Fortunately, with “Star Trek: Into Darkness,” trekkies have a new bright point within the “Star Trek” series.

The film begins, rather deceptively, with the classic star trek crew, cast with younger versions of their now currently 60-70 year old counterparts, trying to save a planet from being wiped out from a massive volcanic eruption. If you wonder how this threatens a planet, consider Pompeii, but about thrice as large and over the only mass of land on the planet. Fortunately, the crew is able to save the planet, but not before breaking, as Spock points out, no less than fifty regulations. In other words, an average day.

However, this is all just a clever introduction to get the ball rolling for the audience. The real trouble begins at Star Fleet command where a mysterious man, whom I am keeping mysterious for the sake of those who haven’t seen the movie yet, bombs a building. This was just a clever ruse, however, to get the heads of Star Fleet into one room where he then promptly rips most of them apart

with his gunship. Enterprise is the given orders to chase down this man and bring him to justice or blow him to kingdom come, whichever is easier.

Let me just say that the movie does an excellent job at keeping you, well, in the dark. You don’t know who’s the real villain, the real conflict, or even who to trust. It’s a constant game of keeping track of who is trying to get the most out of whom.

The movie is only further elevated by the brilliant acting of all the star actors, but kudos automatically get dispensed to Cumberbatch for his acting as the still-not-going-to-be-named villain. His every line and action is only emphasized by his distinctly masculine and charming voice, perfect portrayal of cold apathy, and of course, some of the best lines in the movie.

But as many would request from a Star Trek movie, as movies have a higher budget than television shows, the effects in

this movie are amazing. From the visuals depicting a futuristic Earth to the sounds created at warp drive between warring

Enterprise post-battle. I cannot and will not spoil anything, but I can tell you that the first time I watched, I was holding onto

In the end, “Star Trek: Into Darkness” is a great film that truly deserves to be seen by all trekkies or even new-comers to the



sequart.com

ships, the movie really does just pull you in. The skittles here go to the space battles, which depict a truly gripping scene of life and death on and off the ships. I loved every second of it.

If there is one part of this film that truly lifts it to the ranks of a great movie - not just good, but truly great - it’s the climax of the

every word that the actors said to one another. I can say that scenes like this have been attempted in other movies on a frequent basis, but here it’s done right. The characters say what people would be saying,; the scene feels very real. No greater-than-life or super tragic moments, just reality in all of its harshness.

series. There isn’t so much here that you’ll be lost, but there is still enough to entertain the die-hard fan. It’s a great movie that is executed perfectly.

Rating: 5/5 elephants



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Imagine Dragons

Bethany Martin • living editor

On Monday, September 16, 2013, Imagine Dragons graced the stage on the Farm Bureau Insurance Lawn at White River State Park. Despite a couple of hiccups, the overall experience was phenomenal, and I would see them again in a heartbeat. In fact, I was tempted to see them again when they returned to Indianapolis on Wednesday night.

The lawn at White River State Park is free-for-all seating, which made me uncomfortable when we arrived, and there was a line wrapping around the venue. Then two miracles happened that made the night incredible. Security diverted the line a couple

they started again.

When The Neighborhood left the stage and everything went dark, I could feel the bodies pressing closer to the stage. We waited impatiently, discussing what we had heard about the show and bouncing with anticipation. Finally the stage light dimmed, and the set sparkled. Lead singer Dan Reynolds came out with his hands held high. Bassist Ben Mckee, drummer Dan Platzman (who rocked a ponytail on the top of his head for most of the performance), and guitarist Wayne Sermon followed him out through the fog. They started off strong with a fist pumping crowd favorite “Round and Round,” which is on the deluxe version of Night Visions available on iTunes.

Song after song, they rocked out the lawn.

of people ahead of us to a much shorter line that ended up putting us on the side of the lawn. As we looked out and saw the masses of people, I got a sinking feeling again. The lawn official came up to us, shouted over the opener whose name I don’t remember, and pointed up towards the pit and said that it was open. That placed us twenty feet from the stage.

The Neighborhood opened for them with an uninspired set that included their radio single Sweater Weather. The bass was too loud, and the words were unintelligible. Intermittently a breathy voice would say, “I love you.” Every time they ended a song, the crowd would cheer and then groan when

Song after song, they rocked out the lawn. They put all of their energy into the best concert I have ever seen. They were humble, expressing their amazement at their success and our obvious love for their music. They seemed like normal guys who just happened to explode into stardom. Ben McKee was the happiest guy I have seen in a long time, interacting with fans and smiling from ear to ear. His solo inspired loud cheers and awe. None of the band mates only had one talent. They frequently jammed on the two very large bass drums on the stage and sometimes even traded during drumming sessions.

I could not tell you all the songs they played. I knew all but two. I was just happy to be there; everything was perfect. Even the fourteen year olds, who shouldn’t have been out on a school night, trying to squeeze their way to the front couldn’t bring me down.

Rating: 5/5 elephants



The other side of desk: Autumn

Dr. David Nolte • faculty writer

Who doesn't love fall weather? While the technical answer to that question may be "the swimsuit industry," I think most can agree that partly sunny days in the 60°F – 70°F temperature range are pretty golden in terms of out-



My daughter can't believe it's yet another picture on top of a pumpkin. My son, being older and wiser, is simply resigned.

Courtesy of Dr. David Nolte

door comfort for most moderate activities. Not just the weather, though—autumn is a special time: with the start of new academic year, the spectacular colors of nature, and, of course, fall vegetables.

I am a particular lover of the fall vegetables: winter squash, sweet potatoes, kohlrabi, celery root, rutabaga... I can't get enough of these foods, and I've thoroughly dragged my family into my fall vegetable obsession. I first considered focusing this column on an assortment of my favorite fall vegetable recipes, but instead of subjecting you to my thoughts on the proper way to stuff a butternut squash, or why every good sweet potato pie requires a shot of rum in the filling, I decided to sort through my family pictures to find examples of where I have



My daughter Addy's 1st birthday: A pumpkin patch-themed cake, Courtesy of Dr. David Nolte

imposed the most versatile of all autumn vegetables, the pumpkin, onto my indulging children. Thus, to prepare for the pumpkin-picking season, to subject you to cute pictures of my kids, and to save me writing space in a column on which I of course in no way procrastinated. Ever notice that even though the pumpkins and candy corn are made of the exact same material, somehow the pumpkin-shaped ones are better?

Nothing to lose?

Bethany Martin • living editor

For some of you, this is the first time you have been away from Mom and Dad for a significant amount of time, and you have noticed all the difference that makes. After you get over the homesickness, or at least when it subsides, you will realize all the new freedoms you have. These freedoms are important and exciting, but they can certainly have a price. For example, the price for eating ice cream every night at the ARA because your parents are not here to tell you no may be gaining a couple of pounds.

Staying healthy is important here. The stress can wear you down, lowering your metabolism and your ability to fight infections, which is important when the cold comes around mid-January. It is normal for a Rose student to get stressed. I am sure you have seen it already. Sometimes, the natural response to stress is eating - and not healthy eating; I am talking midnight Taco Bell runs or Krispy Kreme donuts. This is okay every once in a while and definitely around finals, but the result can be sugar crashes and feeling sluggish. College can be a new start for you. Try a new diet like becoming a vegetarian or going without carbs. These can be challenges that keep you feeling great and invigorated.

The best way to avoid the gross feeling you get when you eat an entire can of Pring-

les in one sitting is to not buy them. Instead, buy crunchy carrots or celery to munch on. Walmart runs are a part of life here, and your newfound freedom may lead you to buy all the tantalizing sugary and salty snacks your mother never let you put in the cart. My advice to you is just to avoid all temptation and not go down those aisles. They are dangerous. If you are craving something sugary, look towards the fruit aisle, it will satisfy your craving without all the guilt you feel after the third chocolate bar.

You are going to have some late nights. That is just a fact of life for a Rose student. The lure of that energy drink is dangerous. Sodas and sugary drinks like that can be hazardous to your health. I understand that they will be necessary to get any sort of work done during your all-nighters, but my advice is to avoid them at all costs. The hazards of energy drinks exist and have been reported. Try to stick to water and juice for as long as possible. They have fewer calories and less sugar and sodium content. While we are on the subject of hazardous drinking habits, I might as well remind you that underage drinking is not only illegal but all alcohol contains tons of empty calories and other harmful components that could help you gain the freshman fifteen.

There are many great ways to stay in shape to supplement eating right. Exercise will give

you a release and keep your spirits up. There are so many ways to get into shape on campus. If you are not interested in going out for a varsity sport, you can always join intramurals. There are levels of intramurals, so you should not worry about your skill levels. There is also a CrossFit gym in Terre Haute for you hard core people out there.

Rose-Hulman has a great many resources for us to use. However, much like professor office hours, we like to have the resources and not actually use them. Contrary to what you may believe, not using your resources defeats the purpose of having them. Use the SRC. It has a weight room, track, Olympic-sized swimming pool, racquet ball courts, basketball courts, tread mills, and various other exercise machines. The SRC also has classes available such as yoga or Zumba. These are wonderful if you want to meet new people and burn some calories. Another fabulous new resource in the SRC is the free bicycle rental service. Biking is a wonderful way to get out and enjoy the wonderful weather we have been having.

It is important to start the year right. This is college: you are supposed to have fun and enjoy it, but you can enjoy it more by getting out of your room. Stop playing your video games and go jogging with a friend or do any of the other physical activities that are available on and off campus. Use the stairs instead of an elevator. Get up and get moving, or you might fall behind.

FLAME BATTLES

Lauren Santichen • guest writer

When I woke up Monday morning at 5:30, I had to drag myself out of bed and get ready for an interesting day. The night before, my hall had been chosen to guard the bonfire for Homecoming. Since I do better in the mornings than at night, I volunteered to wake up extra early in order to fend off the sophomores. At least, that's what I had expected.

When I arrived at the bonfire site, I found that the second years had already come and gone. The rest of the SAs and RAs of my hall were there along with a couple freshmen, nowhere near the number than had staked-out the night before. Looking around at the dark field with only a small campfire for light, I couldn't see any evidence of the sophomores' attack.

It wasn't until day broke that I saw the war zone that had been left behind.

Egg shells and flour packs were littered everywhere along with chocolate and maple syrup. Trash was thrown all over the place, and popped water balloons spilled glitter on the ground.

It wasn't until much later that I got the full story.

Within the first few hours of the stake-out, the sophomores made their attack. Some of the freshmen managed to get away before the strike, some were chased out, and others received the full brunt of the assault. Holding shields, the sophomores formed a solid line to drive back the freshmen who were armed with flour and eggs. They held their formation in the dark until a freshman shouted "They got a pick-up!" then chaos broke out.

As the line of first and second years turned into an all out brawl, the pick up tried to make its way over to the bonfire, intent on stealing the outhouse that is part of the bonfire legend. Yet at the last minute, they were foiled by the freshmen and the sophomores were forced to retreat.

A second, less organized attack followed later as the sophomores raided the guards' snacks and tied people up with duct tape and doused them with more chocolate syrup. After that, the night fell into a quiet lull with the sophomores feeling proud of their stealth skills and the freshmen intent on making it through the rest of the night. For now, the bonfire was safe, and that was all that mattered.

So ended the first night of the Battle for the Flames.

The other side of the desk: saving money



Sudipa Kirtley • faculty writer

Last year, a friend at our house asked the following question: if you start with a penny and double it the next day, and if you keep doubling the previous amount every day for a whole month, what amount of money will you end up with? My younger daughter of 11.5 years then, who is always good with numbers, quickly blurted out: “2 to the power of 29.” While I was trying to wrap my head around this massive amount, it dawned on me that we are not talking

about hundreds of dollars, not thousands, but millions! \$536.879 million to be exact. Wowza!

The power of compounding is, indeed, very powerful, but the power gains momentum with time. While many of us realize this, a few of us actually practice this in our lives. Let’s say that we start an account with \$1,000. Suppose we make it a point every month to deposit \$50 to this account. If we invest it for an annual growth of 10%, then in 50 years’ time we will be scooping up a whopping \$853,012.27. That’s almost a million dollar return on investing what might ordinarily be spent on one meal per month at a nice restaurant. Wowza again!

Now compare these two next cases for fun: In the first case, let’s say you begin to save and invest \$2000 annually as soon as you get your first job at age 21. You do this diligently for eight years, then you decide that you need to spend that money on your new fam-

ily. You wisely decide to let the money invested thus far compound at an annual rate of 10%, but you don’t invest another dime for the next 32 years (40 years of total time for this project). Your friend decides to spend his twenties living it up and doesn’t do any investing until just about the time you stop saving. He starts at year nine and puts in \$2000 every year for the next 32 years. At the end of the term, at the same growth rate, who will end up with more money? Bear in mind that in the first case, you have invested \$16,000, and in the second case \$64,000. At this point I hope I have interested you enough to pick up your pencil and solve this simple exercise. The answer certainly illuminates the power of how time works for those

who start investing early!

What I am trying to impress upon you is this: If you are a college student, now is a great time to start investing, if you have not already done so, even if the amount is very small. Watch where you spend your money, and while splurging is fun at times, try to be prudent with your expenditures. Invest your savings for a long period of time, and you are most likely to end up with excellent returns for your future. The return for a large mutual fund for the last 5 years is about 11%, and that for the stock market has been over 10% for the last 25 years. If you invest for a long time, you will find that the 10% return goal is easier to maintain, less risky, and will take much less effort than getting in and out of investing strategies for short amounts

of time. It is good to start early, as it is the rise of the tail end of the compounding chart after a significant time duration that is significant. However, starting at any time is better than not starting at all. Many people invest in stock markets and do this diligently and consistently yield a much higher return, but that is taking it many steps beyond what I am proposing here.

When I was growing up I knew the importance of saving. However, I did not know the value of compounding. I wish someone had opened my eyes back then. Whatever your financial goal is, a little discipline on managing it well can be well worth your time and effort and will lead you to a stress-free and comfortable future. For the puzzle given above, the answer is as follows: in the second case the return will be 27% less (referencing an article on pbs.org), even though the investment in it was four times the first. Simply put, wow!

A little discipline... can be well worth your time and effort

AN INTRODUCTION TO DOCTOR HOFFMANN

Ethan Hixon • opinions editor

For those who read the interview last week, a proper introduction was missing for this prestigious award winner. Dr. Roald Hoffmann took part in the creation of Extended Hückel Method, used in chemistry for the orbitals of organic molecules. This is important as the method allows for the energy levels of geometrical configurations to be calculated. He earned the 1981 Nobel Peace Prize in Chemistry.

100 Words

Katrina Brandenburg • editor-in-chief

How much sleep does a person need? I hear a different number from every student at this institute. Some people tell me that they absolutely cannot function on less than eight hours. First, I am amazed at the skill level needed to succeed in academics, extra curricular activities, any social life, and sleeping. Or, perhaps that’s the difference. Which of those is sacrificed to sleeping? I challenge you. How much sleep do you need? I believe that the amount of sleep an individual needs is not only a product of the individual’s body, age, and state of health but also of mentality and habit. Next time that you have the choice between some seemingly less important college experience and another hour or two of sleep, give the activity a little more consideration. You’re only young once and frankly can sleep plenty once you’re dead. Tell yourself you aren’t tired, or at least tell yourself you aren’t too tired. I think you’ll be amazed at the worthwhile memories you make.

New signs create new stops

Steven Haussmann • guest writer

Dealing with change is annoying, but it’s no excuse to eschew safety. It’s no secret that teens and young adults aren’t cautious drivers. They’re notorious for speeding and have a reputation for defying the basic laws of common sense. Hence, when it comes to the Rose campus and the safety of its students, it’s paramount to apply some prudent moderation.

The installation of stop signs at two intersections and three crosswalks is an excellent first step. The Myers T-intersection was acceptable, but the Deming-Olin three-way junction left me baffled. Without any clear right-of-way, the only thing standing between drivers and an accident was an overabundance of caution. The stop signs force all drivers to stop, greatly clarifying who has the right of way. This prevents long lines of cars moving through

without providing proper driving etiquette to those who were waiting longer than they.

Forcing drivers to stop and look ... is all it takes to save a trip to the hospital or worse

These also further simplify walking for those who are coming from the fraternity houses for classes, as they are guaranteed a chance to walk without many cars preventing street crossing.

Similarly important

The installation of stop signs at two intersections... is an excellent first step

are the new stop signs around the crosswalks. Rose students

cross streets incredibly frequently and do so during all hours of the day, whether whilst racing to make it to a morning class or walking home from a late-night study session. Forcing drivers to stop and look for a brief moment is all that it takes to save a trip to the hospital or worse. The signage also helps to keep pedestrians moving, since they are guaranteed the right of way. For those in a hurry, this can be a lifesaver.

It’s possible to go on for pages upon pages about the many benefits of the new signage, whether by slowing traffic, keeping pedestrians safe, curing dangerously confusing intersections, or letting drivers know that crosswalks are set all across campus. Certainly, losing five or six seconds at every intersection gets tedious, but an ounce of prevention is worth a pound of cure.

That’s what this school is all about- doing what’s sensible.

Why join the Rose Thorn?
You don’t know it yet, but you want to crack jokes. You want to draw comics. You want to know all of the latest events. You want to stand up for something. You want to give advice. You want to write. Also, you want free pizza.

Thorn Meetings
Fall Quarter
Free pizza
Wednesdays @ 5:15PM
Olin 267
Free pizza

Fightin' Engineers fall short against Centre

Lauren Santichen • guest writer

Last Saturday, Rose-Hulman hosted a riveting match-up versus the Central Colonels' football team. A lucky coin toss landed the advantage in Rose's corner for the first quarter yet the eager teams quickly fell into a stalemate. Brilliant defense deflected brute offense in an enthralling scene. Sophomore Aaron Abbott managed the first touchdown in the game to a resounding canon shot on a 9-yard touchdown pass from senior Ryan Landwehr, putting Rose-Hulman up 7 - 0.

In the second quarter, the game heated up. Players raced from one end to the next with passes and punts until senior kicker Matt Angel made a 33-yard field goal to gain a 10 - 7 edge over Centre. With the following kick off, the Engineers recovered the ball and proceeded to a first down. Unfortunately, the Colonels managed to intercept an errant pass and score a touchdown, making the score 10 - 14. On another touchdown with field goal attempt, sophomore Chris Sanders blocked the flying ball and cut the Colonels extra point. The move was unexpected

and spectacular, raising a cheer from the waiting crowd. With the ball now in their possession, the Engineers quickly took it down the field. Senior running back Danya Francis ran a full 37 yards through two different defense blocks before he was brought down and the first down was marked at 3 yards. The following touchdown was taken in by senior Marcus Washington on an 11-yard pass from Landwehr. The Centre lead was cut to 20 - 17. With seconds left on the 2nd quarter clock, the Engineers put on a full defense in an effort to keep the colonels from scoring only fifteen yards from the end zone. The play was blocked and the teams started to walk off for half-time, only to be called in for one second left on the clock. Their resistance wasn't in vain though as the Colonels' play was foiled by the Engineers' muscle. Now second quarter was over with the score remaining 17 - 20. Unlike the second quarter, the third quarter froze to a halt. The referees weren't of any help, with neither team



Senior quarterback Ryan Landwehr completed 36 passes versus Centre, the second most completions ever by a Rose-Hulman player.

Rose-Hulman Athletics



The Fightin' Engineers will host Defiance College in the annual Homecoming game, kicking off at 2 p.m. this Saturday.

Rose-Hulman Athletics

Soccer teams UNDEFEATED IN WEEKLY ACTION

Matt Dierksmeier • sports editor

Both the men's and women's soccer teams went undefeated in both of their two matchups this week. The women's squad improved to 4 - 1 - 1 overall after a comeback 2 - 1 victory against Millikin University on Saturday and edging Fontbonne University 1 - 0 on Tuesday. In the Millikin game, senior Nicky Wheeler tied the game 1 - 1 in the 76th minute and struck again two minutes later to give the Engineers a 2 - 1 advantage. Assisting on the first goal was sophomore Hayley Gilliam, with junior Haley O'Neil assisting on the second goal. Sophomore goalkeeper Lucinda Combs shut down Millikin the final twelve minutes of action to complete the win. Versus Fontbonne, Wheeler would score in the 85th minute of play on an assist from Haley O'Neil. Combs would record seven saves in the game to shutout Fontbonne. The men's squad's first win of the week came versus Millikin University. Freshman Ben Lyon added the lone goal in the 55th minute of the game on an assist from freshman Tyler Blankenship. Junior keeper Drew Miller recorded his third shutout of the season with four saves in the game. In a thrilling double overtime game, the Engineers bested Fontbonne 2 - 1 on a late goal from Lyon. Sophomore Mike Smyser scored the opening goal for Rose-Hulman in the sixth minute of the game. With their two wins, the men's soccer team improves to 3 - 1 - 2. Both of the Engineer squads will host Illinois Wesleyan University on Wednesday with the women's team playing first at 5:30 p.m. and the men's game following at 7:30 p.m.

Cross country teams finish strong at Sycamore Invitational

Matt Dierksmeier • sports editor

To open up the cross country season, both the men's and women's teams competed at Indiana State University this past Saturday as part of the Sycamore Invitational. This was the first race for the teams under new head coach Geoff Wayton, who spent his last eight seasons as part of the Indiana State University coaching staff. On the men's side, Rose-Hulman had five runners finish in the top-7, with twelve Engineer runners finishing in the top-15. Leading the pack for the Engineers was senior Andrew Thompson, who completed the five-kilometer course in a time of 16:47.4, for a second place overall finish. Junior Derek Heeger crossed the line just behind Thompson for third overall with a time of 16:56.5. Following were sophomore Sam Sobczak and freshman Brandon Mattiuz, to round out the top-5 overall. Right behind them were junior Ryan Meyer in 6th and sophomore Kevin Mauser in 7th. All top seven runners finished the course within a 26.7 second margin. The women's cross country team saw about equal success on Saturday, with seven runners finishing in the top-12. Leading the Engineers was senior Ryann-Rebecca Montgomery with a

third-place overall finish of 20:28. Freshman Emilie Hobbs finished in a time of 22:09.8 to claim 6th overall, followed by junior teammate Anna Taylor in 7th. Head coach Wayton commented of the performance "Three of our top five runners trimmed more than a minute off their time at the same meet of last season. We showed that we have the personnel to be

in the top-half of the HCAC in seven weeks." Both Engineer squads will travel to Indiana University to compete in their first scored meet of the fall season. Individuals from both the men's and women's squads will compete in the Open Race early Friday afternoon, with the eight-kilometer team portion taking place later on Friday.



This weekend both the men's and women's cross country teams will compete in their first scored meet at Indiana University on Friday.

Rose-Hulman Athletics

