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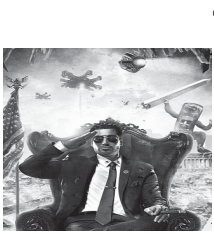
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THE ROSE THORN

saturday partly sunny 81°/63° sunday t-storms 72°/50° monday mostly sunny 75°/51°

ROSE-HULMAN INSTITUTE OF TECHNOLOGY • THORN.ROSE-HULMAN.EDU • FRIDAY, SEPTEMBER 27 2013 • VOLUME 49 • ISSUE 03



The difference between four and five elephants. **Page 4**



The experiences of a professor learning the dangers of pushing your limits. **Page 5**



Physics caused bonfire "bad luck". **Page 6**



Football wins fourth consecutive Homecoming game. **Page 7**

Homecoming Recap

Morgan Escalera
guest writer

Well, another homecoming has come and gone for Rose-Hulman Institute of Technology, and what can be taken away from the weekend-long event? Well, in short, homecoming is a true introduction to the Rose Hulman experience from all perspectives.

Homecoming has been a part of student life at Rose-Hulman Institute of Technology for as long as anyone on campus, and it has garnered a certain mystique over the years it has been in effect. From the bonfire to meeting graduates to watching the tumultuous homecoming game, homecoming as a weekend experience was some-

thing to behold. Homecoming began for the majority of the student body before any event actually happened. It was hyped and advertised all around campus for the entire week before to psych up the



Faculty, staff and alumni have gotten in touch again during homecoming.



Alumni came back to campus to reunite with the school.

Xiaoyin Ling • photographer

student body up for the first and, arguably, largest school spirit event of the school year. For the upperclassmen, there was voting for the homecoming queen and preparing for the alumni to visit while for the

freshmen there was the preparation of the bonfire. Then all of the student body met together on September 20th for the introduction to homecoming, the pep rally.

The pep rally acted as the official beginning to homecoming. First, the candidates for homecoming queen were given their entrance, accompanied by their escorts. Then the exiting seniors of the

sports teams were introduced to the student body. Some school spirit competitions took place, comprising a poster portion and a cheer portion of the competition. A performance by the Rose Hulman cheerleaders precluded the naming of the homecoming queen, senior chemical engineer Katherine Moravec.

Continued on Page 3.

IRC 10th Annual Undergraduate Research Symposium

Kevin Weaver
entertainment emeritus

On October 25, Rose-Hulman will host the tenth annual I.R.C. symposium on campus in the Myers Presentation Room. The students that present at this conference are undergraduate researchers from multiple fields of study who have conducted their research in several different areas, including academic and industrial. The range of these backgrounds include bioengineering, chemistry, mechanical engineering, and computational biology.

"We're really happy about this year," Dr. Coppinger tells the Rose-Thorn. "Dr. Brandt and I have been working hard on this every year,

and it's great to know that after ten years it's only getting better." Better is a word that isn't used lightly. Over the course of the ten years since the program's initiation, the I.R.C. has supported over a hundred different students majoring in a total of nine different fields.

Funded by Edwards Lifesciences, I.R.C. stands for the Interdisciplinary Research Collaborative. Ten years ago, it began as an effort for undergraduate Biology and Chemistry students to practice their research abilities and presentation skills. Taking place during the academic year or over the summer, the students would work on a project of their choosing under the watchful

eye of a sponsoring professor. Today, the program is still going strong but only gaining speed with more students showing interest in improving their research and presentation skills.

The Student Affairs office is gracious enough to provide on-campus housing for students conducting their research while the I.R.C. pays these students stipends for the needs and, occasionally, covering all materials needed for the student's research.

This year, the I.R.C. is proud to have Dr. Alan Chiu as their Keynote Speaker. A proud member of the ABBE department, Dr. Chiu received his doctorates in Electrical and Computer

Engineering Sciences from the University of Toronto, Canada. His specialization in electrical systems and biology give him the perfect background for his research into neurosciences. His presentation at the I.R.C. will be showcasing his latest research regarding a Brain-Machine Interface, allowing greater rehabilitation and greatly increasing intuitive user interfaces.

The I.R.C. starts at 8:00 A.M. on Friday October 25 and continues until 5:00 P.M. The conference itself is open for walk-ins or walk-outs at any time. The diversity of the projects will interest almost any student in research. As the approaching symposium is open to

any undergraduate student to present his/her research, students are still welcome to submit their abstract to Dr. Coppinger by October 4th.



Dr. Alan Chiu, Keynote Speaker at this year's Interdisciplinary Research Symposium.

Rose-Hulman.edu

events

ROSE Expo

Student organizations will have information booths for corporate recruiters.
Hulbert Arena, October 2, 9:30 a.m.

Fall Career Fair

More than 190 companies are coming to campus to offer you experience.
SRC Fieldhouse, October 2, 11 a.m.



Artist: Buster Simpson

Guest artist Buster Simpson will be giving a presentation in Myers.
M-137, October 4, 7:30 p.m.

John Pizzarelli Quartet

Come enjoy a variety of music performed by Pizzarelli, a renowned guitarist.
Hatfield Hall, October 4, 7:30 p.m.

sports

W. Tennis vs. Earlham
October 2 - 6 p.m.

Football vs. Hanover
October 5 - 1:30 p.m.

Volleyball vs. Bluffton
October 5 - 5 p.m.

THE NATIONAL SECURITY AGENCY

NSA Is Coming to Your Campus

Rose Hulman Institute of Technology

Career Fair and Information Session
Tues., Oct. 1 - Wed., Oct. 2
U.S. CITIZENSHIP REQUIRED

Meet and talk with recruiters to discover excellent career opportunities

NSA
NSA.gov/Careers
APPLY TODAY

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U.S. citizenship is required. NSA is an Equal Opportunity Employer. All applicants for employment are considered without regard to race, color, religion, sex, national origin, age, marital status, disability, sexual orientation, or status as a parent.

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THE ROSE THORN

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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.

ISSUES of The Rose Thorn are published on the first through ninth Fridays of each academic quarter.

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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- Elena Chong • *news*
- Derek Robinson • *entertainment*
- Bethany Martin • *living*
- Ethan Hixon • *opinions*
- Matt Dierksmeier • *sports*
- Dan Maginot • *flipside*
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- Xiaoyin Ling • *staff photo*

NEWS BRIEFS

Miriam Remmers • staff writer

New Premiums Revealed for Government Health Insurance

Beginning next week, the federal government will run new health insurance markets in 36 states. An in-depth explanation of health insurance premiums for the new federal plans was provided by the Obama administration on Tuesday night. The released information was intended for millions of Americans who lack comprehensive health insurance and can sign up for federal coverage. It cited lower costs than previous estimates as a reason to purchase a health plan.

The program, which is slated to start enrolling customers on October 1st, is intended to make healthcare affordable for the Americans who currently feel coverage is out of their reach. However, the numbers that Obama spoke of in New York such as the \$328 a month individual “silver plan,” which covers 70% of projected medical costs, are only applicable for one region. Plans vary widely from state to state and even within each state. A family of four in Utah would pay \$656 for monthly coverage while a family in Mississippi could pay as much as \$1,069 for the same plan. More data identifying what drugs will be covered, which insurance companies will be providing policies, and which policies will cost more than the baseline price remains to be seen.

Forensic Experts Called in as Kenyan Shopping Mall Siege is Investigated

Flags flew at half-mast in Nairobi, Kenya’s capital, earlier this week as mourning for the victims of the shopping mall siege continued. The mall was overrun by the militant group Al Shabab, a Somalia-based organization which views itself as the local arm of Al-Qaeda, claims acted on their behalf. The terrorists held numerous civilians hostage for four days in the upscale shopping mall, with a confirmed death toll of over 60.

During the attack, a standoff against government, three floors of the mall mysteriously crumbled in on themselves, releasing huge gusts of smoke and leaving behind a massive pile of rubble. Now that the situation has been diffused, authorities have called in FBI specialists, in addition to Israeli and British experts, to examine the forensic evidence lurking in the remnants of the mall. These specialists hope to ascertain the nationalities and identities of the attackers, as well as the identities of the victims still missing in the wake of the tragedy.

As dogs swept the mall for signs of any last booby-traps, authorities began to question whether or not any of the assailants involved had been women. While this was not initially a suspicion, possibly either women or men dressed as women smuggled additional weapons into the mall. More details arise as officials are able to clear away more and more of the debris, revealing the carnage underneath.

International Olympic Committee Determines Russia’s Anti-Gay Law Does Not Violate Olympic Charter

Amidst heated protests from human rights campaigners, the International Olympic Committee has stated that Russia’s law banning gay propaganda does not violate the Olympic anti-discrimination clause and that Russia is ready to host the 2014 Olympic Winter Games as planned. Jean-Claude Killy, the chairman of the IOC Coordination Commission, gave his go ahead at a press conference last week as he concluded his final visit to Sochi before the games commence in February 2014.

The law in question, which passed this summer, outlaws “propaganda of nontraditional sexual relations among minors.” The Human Rights Campaign, America’s largest gay rights organization, condemned both the law itself and the IOC’s decision to overlook it. They believe that the IOC’s decision, which the committee explained by saying they did not have the right to discuss the morality of the laws of the host country unless said law violated the charter, could put many gay athletes, sponsors, and fans at risk. Russian President Vladimir Putin took the ban one step further by signing a decree in August, which banned all demonstrations and rallies in Sochi for the full two and a half months surrounding the 2014 Olympics. With the Committee’s concerns assuaged, construction for the games continues in Russia.

JOHN PIZZARELLI QUARTET

FRIDAY
OCTOBER 4
7:30 PM
TICKETS \$23/STAFF

FREE
FOR ROSE-HULMAN
STUDENTS
COURTESY OF SGA

“HIP WITH A WINK” -TOWN & COUNTRY

World-renowned guitarist and singer John Pizzarelli has explored the far corners of the jazz landscape and blended a variety of styles into a distinctive signature sound. Check out hatfieldhall.com for videos and more information.

JOIN THE SGA FOR A SPECIAL PIZZA AND PIZZARELLI PRE-SHOW EVENT AND GET A SLICE OF WISE PIES PIZZA WITH YOUR TICKET TO THE SHOW! WATCH FOR DETAILS IN YOUR MAILBOX NEXT WEEK.

Homecoming from Page 1

After the pep rally events, the Rose Hulman populace witnessed a larger-than-life bonfire.

A bright night with intermittent rain comprised the backdrop, making the long walk to the bonfire field in itself an experience. Fifty specified students were given flare guns to act as lighters for the kerosene accelerated bonfire. Quickly, the blaze burned to a towering thirty-five feet, exuding a heat wave, which blistered the first rows of the crowd that had gathered to watch the blaze. The iconic outhouse at the peak of the bonfire was the last part of the structure to become engulfed in the flames. The whole student body held a pregnant pause as the outhouse finally toppled outside of the structure. This signified that the freshman had created a subpar bonfire and had brought bad luck for the whole year upon themselves. Still, all who attended the bonfire had a great time, even with the anticlimactic outhouse incident.

Another cornerstone of the Rose Hulman homecoming experience is the definitive homecoming football game. This year, the Fighting Engineers faced off against the Defiance College Yellow Jackets. The game began badly for the Engineers, falling behind early in the 1st half, with the 1st half score at 3-13 in favor of the Yellow Jackets. In the 3rd quarter, the Engineers surged back, scoring 14 unanswered points to bring the score to 17-13. In the 4th quarter, the

Engineers solidified their lead with two field goals, and the Yellow Jackets responded with two of their own. The final score for the game was 23-19, with the Engineers winning a critical game following the loss to Center College the previous week.

Something that also cannot be ignored is the welcome addition of the alumni on campus for the homecoming events. The alumni came to visit the campus with many events scheduled just for them, as well as many for them to mingle with current students. Upperclassmen were able to reminisce with the alumni while the freshmen and sophomores were able to get a feel for the new school from the alumni, whether they graduated just last year or 40 years ago. The inclusion of the alumni in the homecoming festivities really deepened the experience for the entire student body. The added perspective of those who had gone through the Rose experience and had fond memories of past times gave present students an idea of the rich history associated with Rose-Hulman Institute of Technology.

Homecoming presented Rose Hulman students with what is possible within the Rose-Hulman community. It is the first major activity where the whole student body was privy to it, both in preparation and execution, although it is sure not to be the last.

Join The Rose Thorn! Write for News at thorn-news@rose-hulman.edu.

“Saint’s Row IV”

Varun Naval • guest writer

Superpowers and limitless freedom are a gamer’s delight. This is what “Saint’s Row IV” offers: mindless, over the top, unadulterated fun. Deep Silver has pushed the envelope of how crazy a game can get and delved into the roots of simple fun to bring about “Saint’s Row IV.”



justpushstart.com

The story of the game borders on pointless imagination. You begin as the President of the United States, having saved the world from a terrorist attack. While curing cancer and feeding the hungry, aliens suddenly attack. Your colleagues (all returning from the previous “Saint’s Row” games) and you (a completely customizable character) have to fight off an alien invader known as Zinyak who plans to subject every human being to a Matrix-esque world in order to control Earth.

By breaking the rules of the simulation that you are placed in, you gain superpowers including but not limited to super speed, super jump, super stomp, and freeze blast. The gameplay of “Saint’s Row IV” overshadows its predecessors, as the dependence on vehicles to move about is removed due to highly mobile superpowers. These powers can be improved by collecting data clusters strewn across the expansive Steelport city and spending them on available upgrades. About three-

fourths of the game is spent in the simulation of Steelport created by Zinyak, which actually dampens the entertainment of the game. Through the whole course of the game, the physical and temporal setting scarcely changes. While the developers made this choice to complement to Zinyak’s character (who likes to make everything gloomy), the setting becomes monotonous and tiring after a while, and you start missing the sun very early in the game.

The “Saint’s Row” series has always hit the nail on the head with respect to humor. If you thought that the previous “Saint’s Row” games were biting funny, “Saint’s Row IV” has even more ridiculous references to recent to old pop culture. The banter between characters is fantastic. Other small aspects like the dubstep gun (yes, you get to kill enemies with the power of dubstep, including a customized track made by Skrillex himself) and Keith David as your Vice President will amaze you.

Throughout the game, you gain new abilities and weapons, but the combat gets repetitive after some time. The enemy AI remains stupid as ever, allowing you to easily overcome large hordes of enemies; a lot of fun for a short time. Many activities strewn across the map allow you to take a break from the linear story. Returning activities like Tank Mayhem and new ones like Mind Over Murder will keep you busy for some time.

The story line itself isn’t that convincing, but the levels’ inventive ideas and writing make them worth going through. Optional side missions range from loyalty missions, which, when completed, strengthen your “homies,” to upgrade missions, which make your powers more impressive.

The game has a co-op option which allows you to go through the whole story with a friend, which is an absolute blast. The story is actually entertaining, if completely out of control. The humor, simplicity, and over-powered abilities will keep you from playing another game until you finish this one. Saint’s Row IV does have its negatives, but one notable positive makes it a good game: it’s good fun.

Rating: 4/5 elephants



“GRAND THEFT AUTO V”

Derek Robinson • entertainment editor

As a company, Rockstar Games has long been renowned for its controversial, satirical, often obnoxious “Grand Theft Auto” series. For over a decade, the premise of sandbox-style violence has kept players firmly seated before their gaming platform of choice, wreaking havoc amidst the worlds Rockstar has provided. While only the fifth numbered “Grand Theft Auto” title, “Grand Theft Auto V” is actually the fifteenth title in the series. Rockstar North demonstrates its experience with a game that takes its place as a figurative step forward, among Rockstar titles and games as a whole.

When played beside (or in my case, recently after) its predecessor, the game looks, feels, and sounds slightly different. Weapons, vehicles, and even the environment all interact differently. Gunfire sounds are heavier and draw the player into combat more. Vehicles sound distinct from one another and real in their own right, and the new collision engine and sounds bring a stronger sense of realism to travel (as well as the collisions in which players will no doubt find themselves involved).

Vehicle travel and gunplay (both as independent phenomena and combined) have been much improved. The vehicle physics system feels somewhere between “Grand Theft Auto IV” and “Saints Row IV,” maintaining a balance between realism and fun. Complex driving maneuvers require just enough effort to be satisfying, while being easy enough to be attainable for mediocre players. Combat is intense and fun; aim assist allows for fluid transitions during a gunfight, and certain characters’ special abilities further enhance the experience.

One of the game’s more noted innovations is its presentation of three distinct characters. Unless a given sequence requires the player use a specific character, these characters can be freely switched among, and this mechanic is well-employed. Certain

missions require the player to switch between characters to attack enemies from a different position or with a different weapon. Even when not necessary, the ability to switch characters (and thus, abilities) mid-combat can change the course of a battle.

As with all Rockstar games, the characters are presented to be very real and somewhat identifiable. Michael,



edge-online.com

Franklin, and Trevor develop together through the course of the game, and vignettes throughout provide further insight into who the characters really are. Players should find something to love about each character.

From about halfway into the game, the missions transform into epic events. With no warning and very little insinuation, I once found myself dressed in a bulletproof suit, holding off scores of police with a minigun. The game manages to keep these events a surprise, never actually stating exactly in what activities the character will take part. Even by the end of the game, most missions left me in awe of what I’d accomplished. Side missions are also fun, as well as further delving into the stories of the characters. The pure size and entertainment value of the game is well worth a purchase.

Rating: 5/5 elephants



“Nothing Was the Same”

Jonathan Kurian • guest writer

In the music industry, an artist’s third LP usually solidifies the sound throughout their career. Coming off of his Grammy-winning sophomore work, Drake definitely accomplishes this in “Nothing Was the Same” by taking the best elements from “Take Care” and infusing them with a new style of sound from his best friend/go-to producer Noah “40” Shebib.

“Nothing Was the Same” transitions beautifully from song to song, even though each can be enjoyed just as well as stand-alone tracks. The tracklist was specifically designed to flow together as one coherent stream of consciousness. The transition from “Wu-Tang Forever” to “Own it” exemplifies the album’s ability to connect separate songs together to create a completely different piece. “Own it” contains a whisper-

ing ‘It’s yours’ phrase that carries over from “Wu-Tang forever” that creates an inner nostalgia from the good and bad of a past relationship that was discussed in the previous song. Transitions like these are found throughout the entire album, all yielding a type of perspective-shifting duality between each track that further adds to the experience of the album.

Drake also occasionally diversifies himself lyrically by breaking away from the traditional “reminisce about my love life” mold. He attempts to humanize himself by discussing how his rise in fame has radically changed life with his family and friends. In “Too Much”, Drake realizes that his fame and money has manipulated his public image saying

“got my family going backwards/ no dinners, no holidays, no nothing”. The quavering tone of Sampha washes over the track’s chorus, evoking a plethora of suppressed memories and emotions.

“40,” Drake’s best friend and producer, deserves just as much credit for Drake’s improvement as Drake himself does. His ability to cater sounds to Drake’s emotional rises and pitfalls runs evident throughout each and every track, exemplifying true skill. “Pound Cake” might be the crown jewel off of the LP, incorporating an insightful intro and phenomenal set of 808 drum patterns that makes the track itself stand out. “40” also decides to tweak the formula for the album with a brand new set of classical piano mel-

odies that accompany his usual use of floating synths and lo-fi bass noises. “From Time” is a shining point of this due to the beat’s simplicity and orotund piano chords, which creates a certain depth in the song and Jhené Aiko’s voice.

Maintaining a consistent musical identity is extremely tough in today’s industry, yet Drake finds a way to do it with “Nothing Was the Same.” Drake builds on his style from “Take Care” by candidly discussing his emotional issues with fame and his relationships from the past, present and future, while still trying to balance fame, family and identity.

Rating: 4/5 elephants



“Nothing Was the Same”
transitions beautifully
from song to song.

The other side of the desk: Body talk

Dr. Diane Evans • faculty writer

If you know me, then you know that I have a Type A personality. I can be a stickler for and obsessive with the minutest detail in trying to do my very best at everything that I do. To put it in a more positive light, let's just say I am very "thorough."

That being said, for a long time I had let my own physical health decline as I spent long evenings preparing new materials for my classes, grading, answering emails, etc. on my favorite couch. (Health experts would tell you that sitting for extended periods of time is not good for you.) My lack of physical activity not only caused me to gain a lot of weight but also led to a decreased stamina and strength. This lack of strength really hit home last spring quarter when I joined a group of my students to pull invasive honeysuckle plants for a Six Sigma project. I was embarrassed to be out of breath from work that would have never caused me to even break a sweat several years ago.

This past summer I finally committed myself to physically getting back into shape and losing weight. I joined CrossFit at a facility run by Union Hospital. If you don't know what CrossFit is, in short, it is a high intensity exercise program that uses the movements of various sports to get you physically fit. We, among other things, ran, did sit-ups, push-ups and pull-ups, jumped rope, climbed ropes, weight lifted, squatted, box jumped, and threw heavy balls against the wall. Did I mention it is high intensity?

Unfortunately, with my Type A personality, I got fixated on "CrossFitting." I was exercising at least one hour in the morning and at least one hour in the evening almost every day. I felt great guilt when I did not exercise. Even when my body was telling me that it was too much, I did not listen. My focus was exercising, and that was what I was going to do – no matter what! At home, I was checking my weight several times

event. It is possible that your exercise program can create more stress for you than lessening it. In my case, the stress I put on myself to exercise and lose weight made me gain weight rather than lose it.

Scales are not an accurate indicator of your overall physical fitness. Your body, how you feel about yourself, and how your clothes fit are better indicators.

“My body finally yelled at me, “Enough you have to stop!”

a day. Although I teach statistics and fully understand variation, I so wanted to see that scale number always dropping.

After just a little over a month of "Crossfit," my arms, legs, back and joints began constantly hurting. Instead of feeling healthy and fit, I was ailing and weak. My body finally yelled to me, "Enough! You have to stop!" By that point, I was feeling so bad that I had no choice but to stop the program.

Looking back at this experience, I learned some valuable lessons:

When we create extra stress in our lives, our bodies can go into "fight or flight" mode and store fat in anticipation of some threatening

You are not going to return to an exercise plan unless you enjoy it. So enjoy what you do and have fun doing it.

Be kind to yourself and celebrate the small successes. Don't think you can undo in a month (lose weight) what you did (gain weight) for years and years. When exercising, don't do it so intensely that you end up hurting yourself.

Do not get angry at yourself. Rose-Hulman is hard; life is hard.

Don't beat yourself up because you can't accomplish everything in one day. Just do your best without putting your health in jeopardy.

My current goal being back in school is to exercise by doing what I enjoy doing. One of those things is simply walking my dogs. It certainly doesn't have the intensity of CrossFit, but it is something I greatly enjoy. I know there are no "quick fixes" to attaining good health and good health habits. It is something that takes place over a course of time because it is something that requires you to make changes to how you think about yourself and what you do for yourself. It truly is a lifestyle change. This continues to be a hard lesson for me to learn, but one absolutely worth learning.

A SHORT STORY

Lauren Santichen • staff writer

"Can all Homecoming Queen nominees please make their way to the designated area?" a static filled voice called out. That was my cue. Stepping off the bleachers on shaky legs, I walked to the area, escort in hand. I had been nominated by my friends and made it to the final round of homecoming votes. Tonight was the night that Rose would see its 2013-2014 Homecoming Queen.

The title of the Queen was the highest honor a girl could get. Being nominated didn't always mean you made the finals, and making the finals didn't mean you won. You had to be the best of the best, smartest of the smart, and kindest of the kind. You had to be the perfect girl to win, and the crown proved that.

I wasn't the only girl there. There were four others, five including myself. I would have expected a nervous tension, but instead, we were smiling and whispering amongst ourselves. When it came time for us to go, I wished the girl next to me luck. She did the same.

My name was called, and I inhaled deeply, suddenly faint as my escort and friend moved us forward. A nervous smile made its way onto my lips as my friends in the stands cheered loudly for me, making me stand just a little bit taller. Once I had met up with the group of nominees again, we all held our breath.

"And the winner of homecoming this year is..." the announcer paused dramatically, making the crowd slide to the edge of their seats. In that pause, that single moment of time, I had both won and lost. I had tasted the sweetness of victory and the bitterness of defeat. I had both stepped into the spotlight and been drowned in the shadows it created. I had seen both futures pressed out before me like a royal carpet.

"Katherine Moravec!" My shoulders slumped just the tiniest bit as the crowd went wild. I had not won, but I don't feel as if I've lost either. Looking back to the crowd, I could see my friends still applauding, calling out my name as if I had won.

In a way, though, I had. I had been nominated in the first place when I know that there are many other girls like me. I had made it to the finals, thanks in large part to a campaign that my hall put on for me. I may not have won, but I had the full support of my closest friends. That's all that truly mattered here: the friends that gave me the chance of winning in the first place. *This is a fictional story.*



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Effective Teaching

Bethany Martin • Living Editor

I could not tell you how many times I have drifted off to the sounds a monotone voice lecturing me about something in which I had no interest in. I know I shouldn't, but sometimes I just can't help falling asleep in class. The sounds of the air moving through the room start to have a soothing quality, and the voice of the professor sort of fades into nonexistence. Part of the problem is me; there are a million excuses.

in high school taught a World Literature course. Like the average future engineering student, I was not thrilled about the concept. However, she put such an effort into getting us motivated, and she would get so caught up in her own fervor that I couldn't help but be engaged and see the words and feelings through her eyes. She taught with such a passion and expected us to learn with the same intense focus, so it was hard to even try not to participate in class. She was one of the most loved

The boring voice of a professor can put you right to sleep

and easily accessible for questions and requests. This is the kind of teacher who will stay with you forever.

My extra favorite teachers are those that make

I didn't get enough sleep; I didn't get my morning caffeine boost; I'm crashing from the caffeine boost I got three hours ago; the list goes on. However, sometimes the boring voice of a professor can put you right to sleep, no matter how awake you were when you walked through the door.

My favorite professors are always the ones that love their jobs, are enthusiastic even early in the morning, and those that take only the greatest pride in the success of their students. The fanatical ones that go the extra mile to get you involved

are the ones that you remember long after you have left the classroom. I still know random trivia from my elementary years and specific memories of my most fervent teachers. For example, my fifth grade teacher was desperate to get it through our heads how important history and the people who participate in it are. We gave a World War II tribute to all of the veterans we could find. Their faces and that experience will stay with me forever.

One of my favorite teachers

me laugh. Such as inserting a random pun into their lecture, putting a silly joke on a test, or referencing pop culture. I know some teachers make lame jokes, and they seem like they are trying too hard. In my opinion, I love it when teachers try too hard in order for us to enjoy learning; it makes me feel like they care and like they actually appreciate the young minds they mold. The more they try, the more I try. It's a basic game

Their faces and that experience will stay with me forever

of monkey see, monkey do.

I have a personal history of not performing well in the classes of teachers whom I do not like or with whom I do not get along. This does not mean I don't like them because of their beliefs or opinions. It could be because I don't think they care to know what they are talking about or they don't put in the effort to teach us in a way to which we can relate. The world needs teachers, but even more it needs teachers who put in the effort to make a lasting impression.

BAD BONFIRE? BLAME SCIENCE

Christopher Gewirts
guest writer

Now, this isn't necessarily an article based entirely on opinion. I'm writing this because last Friday night's bonfire left me with a few burning questions (pun intended). Can fire give you sunburn? Given that fire reproduces, and metabolizes fuel, what qualities prevent it from being defined as life? Why wasn't there a catapult, as previously promised? Why did the bonfire "suck?" And just who is that fire-suit guy?

Here is the paragraph where I unapologetically talk about the physics of the bonfire as a background for the answers to the questions that I just asked. Fire is a violent chemical reaction; in the case of this bonfire, the oxidation of $C_{10}H_{15}O_7$ (wood), to release energy and ultimately produce water, carbon dioxide, carbon monoxide, plain old amorphous carbon (with the rare carbon nanotube or buckyball (this will be important)), and wood ash ($C_5O_{10}O$). This reaction requires heat to begin (above the ignition temperature) and also generates heat. Fire spreads by heating up its surroundings enough to continue the oxidation reaction. This may not sound very much like the fire we all know and love so I'll get to the recognizable part; the violence.

Fire gets its visual aspects from the complex behavior of heated up carbon and gases. Some of the light is black body radiation, where, like iron in a furnace, hot stuff emits a whole host of radiation due to the wiggling of its charges. The heat can also give the particles enough energy for large shifts in quantum states, and when shifting back they emit photons (a semi-hand-wavy explanation, but this is basically why fire changes color when you add stuff like strontium to it).

The answer is "to a small degree." How small? Akin to getting radiation poisoning from a banana (unlikely.) Given that some of the light emitted by fire is black body radiation, the strength (read: radiance) is described

by a well-known curve.

Knowing that sunburn is caused by UV rays, specifically with a wavelength between 320 nm and 290 nm, we can find out how strongly they are emitted by a fire, assuming that a fire is a uniformly hot (1500k), super-black, solid sphere with no chemical reaction going on. This isn't a great assumption, but it does allow for comparisons to be made between our bonfire and the sun. Giving the sun a temperature of 5779k (one extra kelvin from Google's number for good luck), we find that it emits literally a billion times more power for that wavelength, but most of this is absorbed by our upper atmosphere, and we only get a fraction of it for being a shiny blue dot from the sun's perspective. The upshot of all of this (assuming you stand 6m from the fire and your surface area is a 1m X 0.5m rectangle) is that a fire gives 1.08% of the .6mW/m² nm of burning 295nm UVB radiation from the sun. You'd have to stand there for 4.5 days to get sunburn, considering only the very harmful radiation.

The answer to the second question requires deep probing as to what the questioner thinks is obvious. "Obviously life needs DNA, right?" Except the first proto-life was RNA based as far as we can tell. "Fire doesn't actually respire." Simple answer: It sustains itself through consumption of fuel, and technically this is the same reaction that occurs in things we consider living, so yeah kinda. Also it reproduces asexually, responds to its environment, and competes.

The most compelling argument (made by Erwin Schrodinger and revisited by Isaac Asimov) is that life tends to reduce local entropy, and even though fire can randomly make dodecahedrons out of carbon, this is the thing that makes me give in. This also forces me to examine what evolution really means and the nature of information and life. It leads me to realize that fire cannot learn, even with the inefficient method of evolution; that information cannot be localized by fire. This is not

an absolute answer, and it seems that this is a question that cannot yield an answer, as far as human thinking right now is concerned, but it sure is something to mull over, and it brings to light more fundamental aspects of the thing you thought you knew.

The third question was really only included because a specific senior wanted to complain vicariously through this article on behalf of all of the other disappointed bonfire-goers. To that question, this is my answer: The lack of a catapult (specifically a trebuchet) didn't seem to be a complaining point last year, but with the induction of a new safety conscious president, an easy thing to do is to blame him for the absence of something totally awesome. Catapults flinging fiery death are really cool, but tradition, effectiveness and awesomeness seemed to have been outweighed by personal safety once we stopped being in the middle ages. I leave the disappointed engineer with this challenge: come up with a really awesome way to start a massive fire that is also safe for a bystander. People will love you for it.

Fourth question. Fires suck. If you paid attention to the smoke from the fire circle lit on the edge of the bonfire, you might have seen that it was being drawn into the fire. Because hot gas is less dense than cold gas, it rises, and leaves convection current in its wake. This is lucky for the fire, because it also needs oxygen to sustain the reaction. This cycle of oxygenated cold air and hot fire exhaust may also be the reason that, for some, the fire was underwhelming. I theorize that the use of oxygen before the air could rise to the top and the fact that the hottest part of the fire was the center (where it gets the most oxygen and was dry compared to the outermost wood) instead of the top are responsible for the fire not being able to properly burn the outhouse, and thus are all responsible for the freshman's future report cards.

The answer to the last question is this: His name is Danny.

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Sweet victory

Football downs Defiance in Homecoming game

Matt Dierksmeier • sports editor

With a terrific second half performance, the Fightin' Engineers erased a 10-point halftime deficit to defeat HCAC opponent Defiance College by a score of 23 - 19.

Coming out of the locker room, the Engineers put together a well-orchestrated 11-play drive capped off by a 1-yard touchdown run by senior running back Danya Francis. Later in the third quarter, Rose-Hulman would take its first lead of the game, 16 - 13, on a 53-yard reception to sophomore Aaron Abbott. Riding their momentum, the Engineers would strike again in the third quarter on a six-yard scoring run from senior quarterback Ryan Landwehr.

The Defiance defense would though close the gap to 23 - 19, as they returned a fumble 55 yards for a score. With the ball back in Defiance's possession with under a minute left to play, sophomore Anthony Adamo intercepted an errant

pass to close the game out for good. Adamo also recorded 12 tackles in the game to lead the Engineer defense.

When asked of the changes made in the second half, head coach Jeff Sokol replied, "we went out and executed what we were comfortable with." He added that the energy of the team picked up greatly and the crowd was great.

The Engineers had 287 total yards in the game with 213 of those coming in the second half. Landwehr went 14 of 25 through the air for 139 yards and one touchdown. Sophomore Jacob Dye hauled in five catches for a total of 69 yards. Francis ran for 65 yards on 20 carries in the game. On the defensive side, Senior D.J. Lawson would lead the line with seven tackles and one sack. Senior linebacker Cody Rivers finished with six tackles, one forced fumble, and a fumble recovery.

The win marks the first of the season for Rose-Hulman and their fourth consecutive Homecoming victory, as they improve to 1 - 2 overall and are now 1 - 0 in the HCAC. Sokol commented of the win, "It changes everything ... (we have) huge momentum going into next week." The Fightin' Engineers will be away this weekend as they travel to Manchester University for another conference matchup.



The Fightin' Engineers won their fourth consecutive Homecoming game as they defeated Defiance 23 - 19.
Rose-Hulman Athletics

”
It changes everything

VOLLEYBALL SWEEPS HOMECOMING MATCHES

Matt Dierksmeier • sports editor

The Rose-Hulman volleyball team finished 2 - 1 this past weekend to move to an even 9 - 9 overall record. The Engineers swept Principia College and Illinois College on Homecoming Saturday but would lose in their HCAC opener versus Mount St. Joseph on Wednesday.

Coming back from a two-set deficit, the Engineers would top Principia in five sets 20 - 25, 24 - 26, 25 - 20, 25 - 11, 15 - 11. Senior Casey Levitt and sophomore Sarah Jensen led with 10 kills apiece. Freshman Morgan Dreyer would record a team high 23 assists in the match.

Rose-Hulman would then sweep all three sets versus Illinois College, winning by a score of 25 - 20, 25 - 18, 25 - 10. Levitt added nine more kills versus Illinois

College, while Jensen would tally 20 assists. Senior Kate Dangel had 12 digs in the victory.

In their first HCAC match of the year, the Engineers hosted Mount St. Joseph on Wednesday evening. Mount St. Joseph would take the first two sets 25 - 20, 25 - 19. Rose-Hulman would rebound with a 25 - 18 win in the third set, but would ultimately fall in the fourth set 19 - 25. Levitt had a solid offensive performance with 13 kills and 13 digs on the evening. Freshman Katelyn Race would tally 11 kills. The loss gives the Engineers a 9 - 9 overall record. They will play their second HCAC game of the season as they travel to Transylvania University on Saturday. The Engineers will also face non-conference opponent Wittenburg University following the Transylvania matchup.



The Engineers defeated both Principia College and Illinois College on way to a 2 - 1 week.
Rose-Hulman Athletics

Historic performance for cross country at IU

Matt Dierksmeier • sports editor

In a highly competitive field at the Indiana Intercollegiate Meet at Indiana University, the Rose-Hulman men's cross country team finished fourth overall out of 19 teams from around the state. It is the team's best placement at the meet in over 25 years.

Leading the way for the Engineers was senior Andrew Thompson, who finished the eight kilometer course in a time of 27:28, good for a 24th place finish.

Junior Stuart West was four seconds behind with a 26th place finish. Sophomore Sam Sobczak finished 28th with a time of 27:39. Junior Ryan Meyer rounded out the top 35 with a 27:54 mark.

Wabash College would finish first overall in the event, followed by the University of Indianapolis and Manchester University. Rose-Hulman would edge fifth place Taylor University by one point.

The women's cross country team was lead by senior Ryann-Rebecca Montgom-

ery, who placed 15th out of 120 competing runners. She set a personal best with a time of 19:53 on the five-kilometer course. The mark is the sixth best in school history.

Freshman teammate Emillie Hobbs finished with a time of 21:11 and junior Anna Taylor recorded a 21:48 for the Engineers. The squad finished 11th overall out of the 18 teams.

The Engineers will next compete at the Hanover Pre-National Meet on October 5.

WOMEN'S TENNIS OUTLASTS FRANKLIN IN GRUELING MATCHUP

Matt Dierksmeier • sports editor

In a four-hour matchup versus Franklin College, the Engineers pulled out a narrow 5 - 4 victory, earning their third win of a young season.

Junior Suzana Mohd won at No. 2 singles and also at No. 1 doubles with senior teammate Marie Stettler. Freshman Sydney Short and senior Lauren Reberger paired for a victory at No. 3 doubles.

Senior Paige Cook earned a 6 - 3, 6 - 2 win at the No. 3 singles position, while jun-

ior Kylie McCollum added a three-set 6 - 2, 3 - 6, 6 - 3 win at No. 5 singles.

The win versus Franklin avenges a loss to the team last year in the HCAC title match last fall.

Four matches into a ten match regular season, the women's tennis team now stands 3 - 1 on the year and moves to 2 - 1 in HCAC play. They currently trail Transylvania University and Hanover College, who are both 3 - 0 in HCAC competition.

Earlier in the season, the Engineers were named

the front runner to win the HCAC Women's Tennis Championship by a poll of nine HCAC coaches. Transylvania finished second in the polls, followed by Franklin College.

The team is led by Dan Hopkins, who returns for his 26th season as head coach and comes off an 11 - 6 season last year.

Rose-Hulman will next play at Manchester University this Saturday. They return home the following Wednesday when they host HCAC competitor Earlham College.

