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Convocation 2017

Reflecting on the Lessons Taught in the Hardest School: Prison

Jason Lee
Staff Writer

Last week, Rose-Hulman's Center for Diversity put together a convocation to celebrate Martin Luther King, Jr. Day. The convocation started off with a brief introduction about Dr. Martin Luther King, Jr. and his contributions to the betterment of society. Afterwards, members of Rose-Hulman's community contributed to the event, performing soulful renditions of songs including "What a Wonderful World" and "Lean on Me," filling Hatfield Hall with joy, hope, and inspiration.

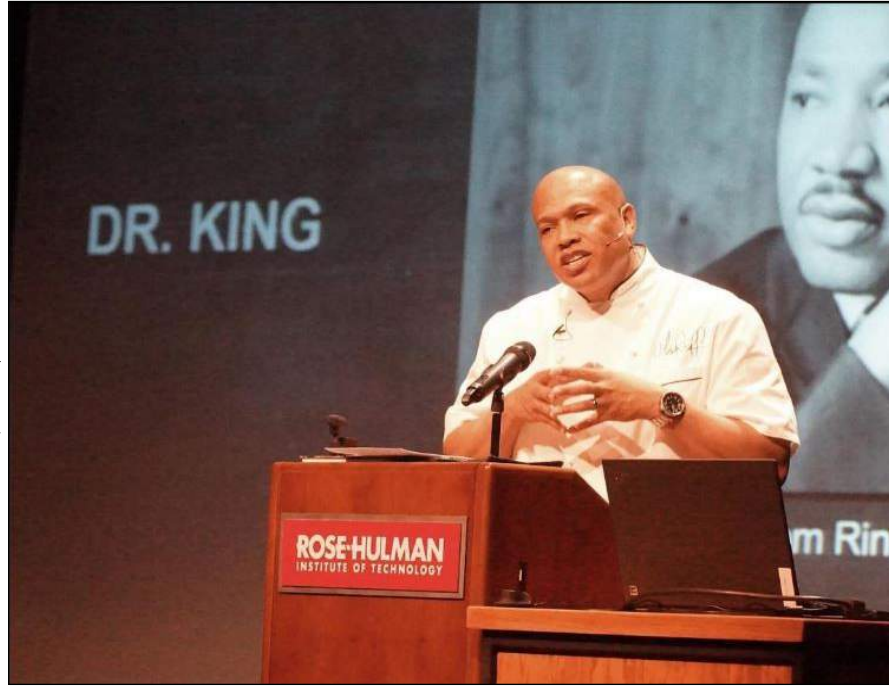
Following the musical performance, a brief introduction was given about this year's speaker, Chef Jeff Henderson, before his on stage appearance. He is an award-winning chef, a 'New York Times' best-selling author, and a TV celebrity. He has a home on the Food Network and is known for his show, "Flip My Food." In addition to this, he is the first African-American Executive Chef in Las Vegas. His success, however, was not produced without hardships, and involved serious lessons he had to obtain throughout his childhood and young adulthood, lessons he wanted Rose-Hulman's students to learn.

Chef Jeff Henderson grew up in poverty. He described his childhood neighborhood as being filled with bad neighbors, people sleeping in cars, drugs, and prostitution.

His single mother and his grandmother raised him and his sister. Due to his harsh economic situation, he described his and his sister's childhood as a time when they often had to take care of themselves.

Living in such conditions, he recounted fury and confusion at what could be different between his family and families of the middle-class to cause such economic disparity. He often found himself pressed against the windows of the school bus, peering out towards the middle-class neighborhoods, developing a drive to reach that status. A status where he could have food choices for meals and for his mother and grandmother to work not as hard as they had to.

It was in high school when he had reached this dream but through illegal means. During twelfth grade, he started selling marijuana. The amount of money he started accumulating reached over \$3,500 a week. However, he would soon be caught and arrested for drug trafficking and conspiracy. He spoke of the regret he had for his actions, and the regret he had for feeding into the destruction of poor families and communities. It was in prison where he began to think, and began to learn. He learned about himself and discovered his love for cooking. He also explained that it was prison where he met people who would



"I never imagined back then," Henderson captioned this photo, "I would be blessed to speak to students all over the world on [Dr. King's] birthday."

Photo Courtesy of Jeff Henderson (@chefjefflive)

help cultivate his dreams and experience cultures different from his own.

After Chef Jeff was released from prison, he went to Las Vegas to pursue his dreams. He listed the qualities that made the difference in his life: foundation, vision, purpose, and strategy. He emphasized education, but also pointed out a person needs to assess the situation and their strengths in that given situation. A person needs to be able to connect with others, especially those who can help. In other words, the person needs to reach for their dreams through education, gifts, and any support they may receive.

To conclude, Henderson said when successful, people need to pay it forward to encourage the success of the next generation, which will truly lead to progress.

"[Henderson] listed the qualities that made the difference in his life: foundation, vision, purpose, and strategy."



Page 4: The return to good old fashioned action movies
Page 5: Chris Brown versus Soulja Boy!
Page 6: Was 2016 that bad?
Page 7: NFC Championships and swimming at HCAC

**The Rose Thorn
Meet Tuesdays
O259 5:15pm**

Cybersecurity Panel

Fightin' Engineers and the Fight for Cybersecurity

Marc Schmitt
Editor-in-Chief

On Tuesday, January 17, the Grand Challenges Group held a multidisciplinary discussion panel on the threat of cyberwarfare. The well attended event drew students, faculty and staff eager to hear what a uniquely placed group had to say about this emerging subject area.

The panel touched on issues surrounding cyberwarfare and what exactly does that term mean. One recognition from all four panel members was the novelty of cyberwarfare in the public discourse. The subject has been thrust into the national spotlight given the charges

of Russian interference in the 2016 presidential election.

A theme of the discussion was the interconnected nature of cyberwarfare and the many facets of the issue. Clarifying points were made of the roles of cybersecurity in cyberwarfare, as well as the many ways that cyberwarfare could be carried out.

The panel was composed of three professors and one staff member from Rose-Hulman, drawing from different academic departments and organizations. After introductions the panel went directly to answering questions from audience members, sparking debate from the panelists.

Dr. Sid Stamm, a professor in the Computer Science and Software Engineering department, started off the talk by defining what exactly the term cyber means. Dr. Stamm has an extensive background in cybersecurity, having worked on cybersecurity issues at Mozilla, the company behind the popular web browser Firefox.

According to Dr. Stamm, four areas of concern for cybersecurity are: the need for more secure software, better data security during transmission, a focus on the security of entire systems, and the need for updated and relevant laws.

Up next was Dr. Zach Estrada, who teaches in the Electrical and Computer Engineering department. Dr. Estrada has a background in system resilience, specifically pertaining to cloud computing and virtualization. Working at the Chicago Mercantile Exchange, he had first-hand experience in considering cybersecurity issues in his job.

Mike Gioia from Information Security at Enterprise Information Technology brought a background in dealing with cybersecurity from an organizational perspective. As an information security officer in the United States Airforce, Mr. Gioia was tasked with defending against cybersecurity threats, and has continued in that capacity at Rose-

Hulman. However, he averred that higher education is a unique environment that sits at the crossroads of many important issues in cybersecurity, such as the balance of availability and security.

Rounding out the panel was political science professor Dr. Terrance Casey from the Humanities and Social Sciences department. Although he has no technical experience in the field of cybersecurity, as he stated himself, Dr. Casey is certainly qualified to speak on the political ramifications of cybersecurity and cyberwarfare. Of particular focus to Dr. Casey was the question of deterrence in cyberwarfare, and while we live in a M.A.D. (Mutually Assured Destruction) world with nuclear deterrents, there are no such deterrents in place for cyberwarfare.

Questions from the audience focused on the issue of deterrence and what exactly that might look like, as well as legal issues surrounding cybersecurity. What was made clear from all panelists was that the issue of cyberwarfare will continue to grow in importance.

The Rose-Hulman community is encouraged to attend the Security League held by Mozilla. The company will be visiting campus on Monday January 30, tenth hour in the GM room to discuss cybersecurity issues.



Securing cyberspace is one of the 14 grand challenges for engineering.

Photo by Marc Schmitt

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THE ROSE THORN

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Our Mission Statement:

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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ISSUES of The Rose Thorn are published on the second through ninth Mondays of each academic quarter

WEEKLY MEETINGS occur at 5:15 p.m. on the first through ninth Tuesdays 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. Submission may be made by email to thorn@rose-hulman.edu or in person to Percopo room 031. The submission deadline is 5:00 p.m. Friday.

THE RIGHTS to accept submissions or changes made after the deadline, to edit submissions in so far 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.

News Briefs

Joseph Lee
Staff Writer

Low-Cost EpiPen Alternative to Hit the Market

For anyone with severe food allergies, such as those from seafood or peanuts, may all be aware of the dangers of the possibility of an anaphylactic shock. When it comes to such severe reactions, EpiPens have been the front light treatment options.

In spite of its life-saving qualities, the treatment option is pricey. In fact, the company making EpiPens, Mylan, came under fire due to the \$600 or more prices for a life-saving product.

Recently, CVS announced an alternative for \$10, which compared to \$600, makes the treatment option so much more available. Yet interesting enough, the company, Kaleo Pharma has announced that they will be releasing a different yet similar alternative similar to EpiPens for essentially no cost. This alternative is named Auvi-Q.

This is not the first time the product has been introduced to the market. It was recalled last fall due to an issue with dosage delivery. However, the treatment option will return by February 14. The price for the alternative will be \$360, which is still fairly pricey. However, the company has announced that their product will be free to anyone who has health insurance or makes less than \$100,000 annually.

'A Dog's Purpose' Production Comes Under Fire

For any dog lover, the upcoming film, 'A Dog's Purpose,' may have appeared enticing. The film is about a dog whose spirit has been reincarnated several times, with each life having a different purpose. However, the film garnered controversy recently due to a video that surfaced with what appears to be animal cruelty during production.

The recording supposedly shows the trainers forcing a scared German Shepherd in rushing waters for a scene. The controversy has resulted in the cancellation of the film's premiere and the boycott of the film by several organizations including PETA, Montreal Humane Society, and other animals' right groups.

Recently, W. Bruce Cameron, author of the book and co-screenwriter, spoke out against the controversy. He said the footage was alarming, but assured the dog was not harmed. Furthermore, he claimed the dog had more issues with the location than the water, as the dog supposedly enjoyed the water at other moments.

In spite of these recent allegations, Cameron insisted American Humane gave the certification that no animals were harmed during the making of the film.

Zebra Shark Born via Asexual Reproduction

Asexual reproduction is relatively common among plants and invertebrate organisms compared to vertebrate organisms. The process is scientifically called parthenogenesis where the female's egg gets fertilized by an egg progenitor cell acting as a sperm cell in absence of a male's sperm. Scientists are finding more and more cases of vertebrate species that can undergo asexual reproduction, including komodo dragons, wild pit vipers, chickens, and turkeys.

Now the first case of a zebra shark undergoing parthenogenesis has been reported. While her past included a mate with several litters, she was separated from her mate in 2012 and was kept in isolation from males for a few years. The scientists have used DNA fingerprinting between the offspring and possible parents to test whether the female zebra shark may have been storing sperm. The results displayed an unlikely possibility.

It is interesting to note that the zebra shark's "virgin birth" and other cases among vertebrates have been for the most part documented by animals kept in captivity with no exposure to male mates during reproductive prime. The question then is: can this actually happen in the wild? And if so, how often?

For now, the scientists plan on monitoring the zebra shark's pups to see if they can sexually reproduce, or if they are fundamentally changed due to the zebra shark's switch to asexual reproduction.

Airstrike Claims to Eliminate Over 100 Al-Qaeda Fighters

While President Barack Obama is no longer the President of the United States, he performed several actions before his presidency has ended. One of which is an airstrike against Al-Qaeda training camp in Syria. The airstrike consisted of Air Force B-52 bombers and is claimed to have killed more than 100 Al-Qaeda fighters on Thursday evening, the day before President Trump's inauguration.

The attack supposedly used a total of 14 bombs and missiles. Furthermore, this airstrike is the second major strike led by Obama's presidency. The target for this airstrike was the Shaykh Sulayman Training Camp in Idlib, which was in use for several years. It became a base for Al-Qaeda extremists.

The Syrian opposition group Jabhat Fateh al-Sham was not happy with the bombing, claiming the training camp was actually theirs. Yet, American officials claim the Syrian opposition group is still a part of Al-Qaeda, justifying the strike. Furthermore, this airstrike was only a part of several other operations that the Pentagon has claimed to have killed more than 150 terrorists including an Al-Qaeda leader, Mohammad Habib Boussadoun al-Tunisi.

THE IMPACT OF ODD?ROD

Seun Ladipo
Lifestyle Editor

Eric had died at a young age. He wrote his first poem when he was writing a suicide note, although he decided not to go through with it as with that poem, he

Last weekend on Friday the 13th I was sitting in my room alone as most of my floor had gone out to various spring rush events around campus. I decided to play Rock Band but, before I could turn on my Xbox, I heard a large mass of people walking down the hallway.

At first, I was not too concerned, as I assumed it was just a few freshman walking down the hall but I was very wrong.

They stopped at my door, and the leader of the group was someone I had never seen before. He asked me, "Hey do you want to see a show? You're not doing anything better right now?" Shocked, confused, and embarrassed, I told myself why not. I turned off my



Odd?Rod's own life experiences influenced his intensely personal poetry, which he shared with Rose-Hulman students.

Photo Courtesy of oddrod.net

felt as if he had found his calling in life. The show itself was a very humbling and enriching experience as he spoke to us not as a performer to his audience but as if we were family. He shared with us poems about his experiences while opening the floor

“The show itself was a very humbling...experience as he spoke to us not as a performer to his audience but as if we were family.”

Xbox and headed out to the Kahn Room where the show was scheduled.

I waited outside the Kahn Room for the group of people to return and as they did, we all filtered into the Kahn Room. The chairs in the room were in a spiral and we all sat down. I was looking for the performer, and then I realized that the same person who asked me to go to the show was Odd?Rod himself.

Odd?Rod sat down in the circle with us and told us about his story. He had come from a life of hardship, as he did not know his father and his older brother

all night to questions about his life. He did not hold back letting it all out through stories about his mother and her drug use during the early stages in his life to the impact of his grandparents in his life.

In all, I am so happy that I decided to go to his show. I feel that he really provided a perspective into his life all the while brightening our night with jokes and a light mood on this touchy topic. If you get the chance to see him anywhere, in the future I really recommend you see him in the future.



Students from across Rose-Hulman's campus followed the poet himself into the Kahn Room.

Photo Courtesy of ODD?ROD on Facebook

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Black and
White.**

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I'M JUST HERE FOR THE GUNS

THE MAGNIFICENT SEVEN, A RETURN TO CLASSIC ACTION FILMS

Curtis Humm

Entertainment Editor

It's a tale as old as the west (ern cinema, and eastern before that). A town is beset upon by wicked men and have not the means to defend themselves. A band of wandering misfits with a variety of histories, skill sets, and personalities take it upon themselves to defend and train the innocent. Some live some die, but whatever happens, the remnants of the heroic band rides off into the sunset, never ones to overstay their welcome. Beginning with Akira Kurosawa's genre defining *Shichinin no samurai* (Seven Samurai) and its western remake, the original *Magnificent Seven*, the tale has been done in space, with gladiators, in Mexico, In a Space Parody, and In Medieval England. (Battle Beyond the Stars, Seven Magnificent Gladiators, iThree Amigos!, Galaxy Quest, Ironclad) Indeed, such a plot is so often performed that sometimes Hollywood doesn't even bother to change the name. Such as in the 2016 guns blazing cinematic shootout, *The Magnificent Seven*.

The plot is pretty much exactly what's described above, but if you are looking for specifics, allow me to paraphrase. There is a Mining baron who wants a town's land, townsfolk don't want to sell, and when he starts shooting pillars of the community (Rest in peace Matt Bomer, your baby blue eyes will be sorely missed), the townsfolk opt to contract some



Have lots of guns, will travel.

Photo courtesy of comingsoon.net

of the quirkiest collection of killers the west has to offer. This leads to an hour or so of gloriously gratuitous gun battles, and the films ultimate resolution. If you are looking for a nuanced plot or inspiring character development, I humbly suggest some other film.

If however you are here for over the top western violence, you've come to the right place. Each of the seven from the duly sworn warrant officer Sam Chisolm (Denzel Washington) to the stoic and efficient Red Harvest (Martin Sensmeier) gets a chance to demonstrate their credentials in combat. The various battles are lovingly crafted with a score of over the top stunts and sequences. While *The*

Magnificent Seven may not have as many explosions as a classic 80's action flick (and it still manages to have its way with a couple crates of dynamite) the sheer volume of destroyed set pieces rivals a natural disaster. From riding horses through saloons, to shredding walls with a Gatling gun, viewers can expect intermittent showers of wood chips and lead for a good portion of the climax. *The Magnificent Seven* also provided a nice change of pace when it came to characterization. Splitting a two hour-ish movie between seven plus characters doesn't leave a lot of time to give individual quirks, and while the movie by no means delved into the complexities of each character, it managed to make each member of the seven an individual without resorting to cheap theatrics or gimmicks. (I'm looking

at you *Suicide Squad*) The team even managed to build believable dynamics between characters, so by the end of the film it really did feel like *The Magnificent Seven*, and not "Seven guys who happened to all be shooting at the other guys." That is not to say every character was portrayed in such detail, a goodly portion of the villains and townsfolk can be described as "There because the plot needed them to be", which can be forgiven for an action movie.

Moving on from that sentiment, I really can't stress enough that this movie is pretty much a straight action flick, which can be either a good thing or a bad thing depending on you mood. If you are looking for a simple excuse to watch a septet of ruggedly handsome actors gunsling their way through an army of redshirts, this movie fits the bill. If you are looking for drama from any other angle be it intrigue, romance, comedy of errors, or adventure, then you would be better of moseying on.



"If you are looking for a simple excuse to watch a septet of ruggedly handsome actors gunsling their way through an army of redshirts, this movie fits the bill."

Birth of The CSSE Major A Review of The Imitation Game

Evelyne Maquelin

Staff Writer

You've seen him in *Sherlock*, you've seen him in *The Hobbit* (well, heard), and the astutely observant of you may have even seen him in *Penguins of Madagascar*. With his flopsy hair and distinctive features, Benedict Cumberbatch sweeps the screen once again in Morten Tyldum's *The Imitation Game*, this time as a man near and dear to every CS major's heart, Alan Turing.

Effectively the Newton of Computer Science, Turing's role in the British WW2 victory was nothing short of instrumental, as decrypting German communications proved the key to winning not just individual battles, but the war as a whole. This was no small feat however, as the Germans encrypted their communications with the Enigma machine; a mathematical masterpiece that seemed near impossible to crack. A story of love, loss, and war, *The Imitation Game* went above and beyond in portraying the desperation and genius behind Turing's work.

Though the film itself was stunning, the way it handled the grittier aspects of Turing's story revealed the true beauty of Tyldum's



It's a Sherlock, It's a Kahn, It's a Smaug, no *It's Alan Turing!*

Photo courtesy of hollywoodreporter.com

work. Turing was no ordinary genius. As a gay man in mid-century Britain, he lived many lives. Juggling the secrecy of his work for the military as well as the taboo of his social life took a massive toll, which most retellings of his story gloss over regardless of how key they are to under-

standing Turing's life. *The Imitation Game* however, didn't shy away from such weighty issues, providing necessary and intriguing context to the man's discoveries.

Even if computers aren't your thing per se, this film will whisk you along on thrilling highs and devastating emotional lows, all while the palpable intoxication of success and discovery radiates from your screen. Like *Titanic*, this soon to be classic renews the time-honored tale of WW2, bringing new perspectives and ideas. For your next night in or procrastination session, consider *The Imitation Game* to waste the time away.



"A story of love, loss, and war, *The Imitation Game* went above and beyond in portraying the desperation and genius behind Turing's work."

The New Star Wars Cannon What even matters anymore?

Andrew Henderson
Staff Writer

Star wars, since its inception with the original trilogy has always been more than just a movie saga. The Star Wars universe has existed as an entertainment phenomenon, one that spreads across multiple forms of media, including movies, TV shows, video games, books, and comics. Ever since the first Star Wars film (A New Hope) was a surprise hit the original owner of the rights to Star Wars, George Lucas, contracted other storytellers to create an ever-expanding universe to surround the movies he made. These stories have both told the history and future of the star wars universe, and for many avid star wars fans are the best part of the Star Wars history. All of these stories were known collectively as “The Expanded Universe” and had been enjoyed by millions since the eighties. That was until April 25, 2014, when after the Walt Disney Company bought out Lucasfilms and the rights to the Star Wars Universe, the Lucasfilms story group declared that the older stories were no longer canon

Disney killed the old Star Wars cannon for many reasons. One of the biggest was that the cannon also contained stories of exactly what happened after the original trilogy and before. Most of the stories possible for Disney to tell in the Star Wars Universe had already been told as the cannon goes millions of years in the future and the past. The first 100 years especially after the fall of the empire had been told from almost every possible viewpoints. There are not that many stories left for Disney to tell from the old canon, and Disney bought Lucasfilms to make money off new stories. They want to make new movies, TV shows, video games and books, and the old cannon would not allow Disney to create these new stories. Therefore, Disney killed the old canon so a new one could take its place, similar to the reboots that happen in comic books so new stories can be told. In addition, the old canon had a big problem; it had hundreds of authors with different views who at times would contradict each other in their writings. At times the old canon, which Disney has renamed “Legends”, is more like myths and well legends (aptly named Disney, well done). The “Legends” canon was hard to follow, would contradict itself all the time and you never really knew if the stories that were being told were true and not just

misunderstanding of history by the storyteller. Disney ended the old canon to fix these problems holding back more star wars stories from coming to fruition.

The new canon that Disney has created is much smaller new canon than the old “Legends” canon. Right now it is made up of every star wars film, the Star Wars: The Clone war television series and film, the stand-alone comic Star Wars: Darth Maul- Son of Dathomir, and most media composed in collaboration with Lucasfilms Story Group since April 25, 2014. This means that all of the books and videogames that were popular with many star wars fans, including the incredibly popular Star wars: The old Republic game are no longer canon. Do not fret though, avid star wars fans as not all of the “Legends” canon is lost forever, Disney is still selling the “Legends” cannon , just as not officially canon and some parts of the old extended universe is being reapplied to the new cannon that Disney is building. This could mean that as Disney’s plan for the future of Star wars media is



A shot of the cast of Rouge One

Photo courtesy of [indiewire.com](#)

Chris Brown Vs. Soulja Boy

Seun Ladipo
Lifestyle Editor

From Biggie and Tupac to Meek Mill and Drake, feud has always been an integral part of rap music. Back in the 80’s and 90’s violence was a huge problem in the rap industry with famous artists dying as a result of this opposition on a common basis.

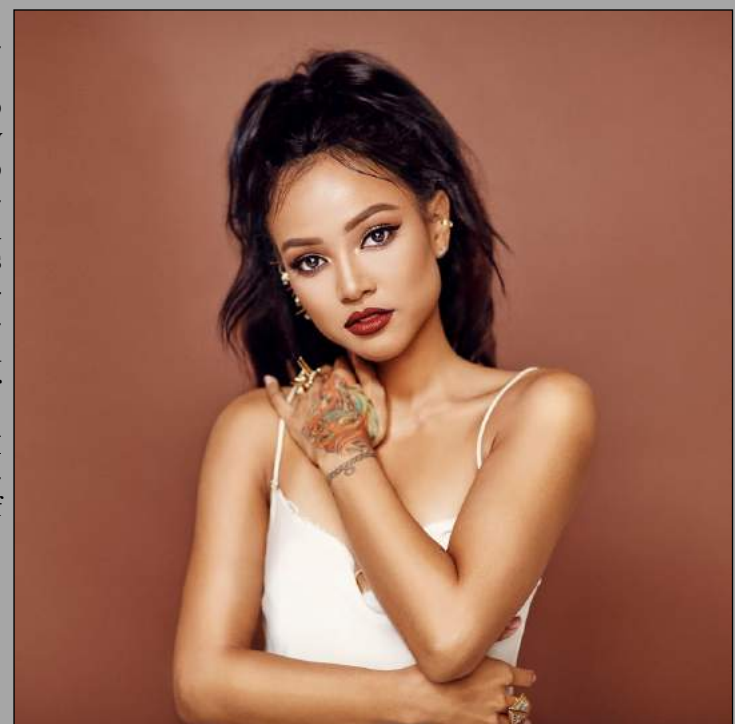
Nowadays this beef does not go past anything verbal. Artists tweet about each other and some even go as far as making diss tracks. These diss tracks are just small songs that are making fun of the other. This process usually plays itself out in about a month as artists either move on to different projects and people just stop caring about such nonsense.

The most recent form of this is attributed to famous artists Chris Brown and Soulja Boy. They were apparently fighting over an ex-girlfriend of Brown’s by the name of Karrueche Tran. This fight

started on social media and eventually escalated to a whole new level.

Apparently, the two have agreed to a boxing match in the next few months. Mike Tyson has agreed to train Chris Brown and Floyd Mayweather has agreed to train Soulja Boy for the upcoming fight. This has led to much speculation on the internet as many videos have been exchanged shown the two training and even other celebrities casting their own light on the subject.

Whether this is true or not all I know is that this is certainly providing some entertainment for a lot of us.



The root of all the beef Chris Browns ex-girl Karrueche Tran

Photo courtesy of [yt3.com](#)

Anticipated Music of 2017 Music Coming Out in the Next Few Months

Jan 27 - Bell Biv Devoe - Tree Stripes

Jan 27 - Kehlani - SweetSexySavage

Jan 27 - Migos - C U L T U R E

Jan ?? - Iggy Azalea - Digital Distortion

Jan ?? -Major Lazer - Music is the weapon

Feb 3 - Big Sean - I decided

Feb 10 - Lupe Fiasco - DROGAS Light

Feb 10 - Michael Bolton - Songs of Cinema

Feb 14 - Marilyn Manson - Say 10

March 3 - Ed Sheeran - ??

Mar 10 - Raekwon - The Wild

Mar 24 - Steve Hacket - The Night Siren

Mar 31 - Imelda May - Life Love Fresh Blood

Mar 31 - Nelly Furtado - The Ride



The Cover of C U L T U R E the Migos Newest Album

Photo Courtesy of [Genius.com](#)

2016: Not That Bad

Andrew Henderson
Staff Writer

2016 has been called by many to be the worst year in decades, if not the worst year ever. Because of major celebrity deaths and after some very divisive politics many feel that this year would be better left forgotten. However, I believe this year was a great year overall.

While the celebrity deaths are incredibly saddening, they are not surprising. 2016 was 46 years away from the beginning of the eighties, when celebrity culture really began in America. Of course, so many celebrities from the eighties who are now at least in their 60's are starting to die. The average life expectancy in America for men is 76.4 and for women is 81.2. The baby boomer generation is starting to hit a higher age and because they make up a larger percentage of the population than past generations did we are going to see the amount of celebrities dying rise in the next couple of years; 2016 was just the first year we noticed the beginning of this trend. It does not help that many eighties celebrities were avid drug users during their time of greatest stardom.



Some of the celebrities 2016 took its toll on. Could have seen it coming.

Photo via sheknows.com

“What really occurred was a major push to support the disenfranchised.”

Many of the deaths we saw this year were of celebrities with past or present drug abuse issues; it is not surprising that many of them had health problems later in their life. The deaths of celebrities is always saddening but it is not as if 2016 had some sick obsession with death, it's just the natural progression from population booms and quick culture changes.

Then comes the political side of 2016. Last year was the most abnormal political year we have had in decades, with extremely close votes in America and abroad, a very large push against mainstream political parties, major protest and even some riots that grew out of these protests. This year seemed to divide many of us, making many believe the other side had lost their mind and that the world was all going to shit.

However, when you look at the last year politically what really occurred was a major push to support the disenfranchised. When you look at political leaders that quickly grew in power over the last year, whether it was Donald Trump, Bernie Sanders, Marine Le Pen or Nigel Farage, they all had in common that they want to help the people they view as being forgotten gain some power in politics again. Major problems across the world that were ignored by those in power were finally met with some forms of push for change.

Last year, no matter your personal views, was something that had to happen. We saw huge participation in politics by the young, the old, the rich, the poor, we saw the people fight for what they believed in. Not everyone got what they wanted, as that is impossible to do. But we saw voices being heard and people fighting for what they believed in. That is what democracy feeds off of: people using their voices to speak to those in power. Last year was not perfect, but it definitely was not horrible, if anything, I hope next year we will the voice of many more people.

Rethinking Cybersecurity

Marc Schmitt
Editor-in-Chief

In light of the alleged Russian interference in the 2016 presidential election the question of the United States' cybersecurity policy needs to be addressed in full. It is no small thing to say that cybersecurity and the development of cyberwarfare stand to be a powerful force in countless facets of international relations, governance, and everyday life. That there is little public discourse on the subject of cybersecurity is reflective of our collective ignorance on the subject.

A significant cybersecurity issue is the role of the private sector and its relationship with the government and national security apparatus. In fact, the little discussed go it alone attitude among the private sector and government has led to massive breaches of consumer and citizen data.

To combat the exponential growth of cybersecurity threats the government should set policy that promotes public-private sector collaboration, the sharing of best practices, and the realignment of incentives to discourage cybersecurity inaction.

The pooling of cybersecurity and threat intelligence can drastically improve our capacity to handle threats. An easy first step in dealing with threats is to begin to talk with one another. Unfortunately, the private sector is inherently unsuited to doing so in a constructive manner.

Indeed, why should one company be sharing information with its competitor? This is where government has the capacity to be of great use, stepping in to facilitate the sharing of threat information. The Department of Homeland Security is already pursuing a variety of threat information sharing programs such as the Automated Indicator Sharing (AIS) program, which is free and open to all companies.

The benefits of programs like AIS is the commoditization of cyber threat information, which allows companies to no longer be in the dark about ongoing threats. Furthermore, lowering the asymmetry of available threat information increases the overall security by ensuring an entire network of companies is secure against known threats. However, these programs are limited in their effectiveness if the private sector does not participate. It is up to both government and the private sector to understand the cost of inaction.

Along with sharing of current threat information, government sharing of best practices in cybersecurity would create a minimum standard for all companies. The magnitude of companies' cybersecurity disparities is particularly clear depending on whether they have suffered a catastrophic security breach. This highlights a pernicious issue in cybersecurity, the costs of unpreparedness are only apparent after it is too late.

Like government efforts to share threat information, the sharing of best practices can work to benefit the entire private sector, as well as the public sector. Surveying and sharing best practices allows companies without huge resources to invest in the best cybersecurity

measures without significantly hurting their bottom line. Rather than stomach the costs of a possible breach, we can encourage modest investments in the most effective cybersecurity measures. Furthermore, the interaction between government and the private sector in developing best practices encourages the continued cooperation necessary to maintain an edge on constantly evolving threats.

While measures to increase available information will work to mitigate cybersecurity risks, it is up to organizations to take responsibility in protecting against threats. Central to promoting this responsibility is the realignment of incentives to prioritize stopping breaches before they happen. Currently many companies will stomach the short term pain of a security breach rather than make substantial investments in cybersecurity. One reason for this is that the immediate costs are not that high.

Take the Target breach, where over 70 million people had their personal information stolen, including credit card information. The breach has been estimated to cost the corporation as little as \$105 million after insurance compensation and tax benefits are taken into account, approximately 0.14 percent of \$74 billion in revenue in 2015. In most cases the average cost of a cybersecurity breach has been estimated to be \$4 million, according to IBM Security.

Most companies cannot justify the cost of meaningful cybersecurity investments. But there are numerous ways to erode private sector apathy. One is to work to lower the cost of cybersecurity investments, which can be achieved through public investment in programs like AIS. Another is to work to put policies in place that penalize companies for not protecting consumers' personal data, which could include fines for egregious breaches.

The goal of these policies should all center on making the costs of inaction prohibitive while reducing the barriers to investing in quality cybersecurity measures.

These proposals are a fraction of the overall efforts required to contend with growing cybersecurity issues. Not discussed here are the responsibilities of the government in securing citizen data, which is clearly an issue given the massive breach at the Office of Personnel Management, where 21.5 million individuals' Social Security Numbers were stolen. However, solutions tried out in industry could prove to be extremely useful in securing government systems, so the two can be worked towards simultaneously.

Also not discussed is the issue of privacy in implementing many of the cybersecurity information sharing programs. Privacy is not to be easily dismissed and should be a part of the evolving discussion on cybersecurity. Indeed, one of the main criticisms of the Cybersecurity Information Sharing Act, which established the Department of Homeland Security programs, was the way it dealt with privacy.

To be sure, cybersecurity and privacy are not mutually exclusive and one can work to reinforce the other, but creative and effective policy is required to achieve this balance. What is clear is that now more than ever, action is needed on these incredibly important issues.

NFC Championship Game

Blake Powell

Sports Editor

There was some excitement coming from the Georgia Dome in Atlanta Georgia yesterday as Atlanta beat Green Bay in a 44-21 game. With this win, Atlanta will be playing in the Super Bowl LI on February 5th at 6:30 PM in Houston, Texas.

Green Bay seemed to be the favorite to win as their quarterback Aaron Rodgers had been playing phenomenally well in the later end of the season. Matt Ryan was able to pull off the win as they make it back to the Super bowl for the first time since 1998. Matt Ryan had 392 yards with four touchdowns in his outstanding performance. Matt Ryan and the Atlanta Falcons have a chance to make history because the Atlanta Falcons have never won the Super Bowl.

Aside from the accomplishments of the Atlanta Falcons as a team, Dan Quinn has accomplished milestones as he will have coached in three of the last four Super Bowls; Seattle Seahawks in 2013, 2014 and now Atlanta in 2016.

A couple of family competitions went on in this game as Jake Matthews starts the offensive line for the Atlanta Falcons and Clay Matthews start linebacker for the Green Bay Packers. All week the family had talked about how excited they were to see the match up and how grateful it is to have two family members play in the NFC Championship game. This family competition keeps a legacy going because Clay Matthews father, Clay Matthews Sr., was an amazing football player as he played at Georgia Tech while also winning two SEC wrestling titles along with being on the swim team and then to follow was his four ear career with the 49ers. While Jake Matthews' father, Bruce Matthews, is a Hall of Famer in the National Football League. Another family joke is between Aaron Rodgers and his younger brother Jordan Rodgers who is featured on the show "The Bachelorette" who proposed and will be getting married. So at least one of the Rodgers will be getting a ring this year.

It is the best time in history to be an Atlanta Falcon's fan as they stride to make franchise history.

RHIT SPORTS BOX SCORES

RHIT Men's Basketball

Blake Powell

Sports Editor

Our men's team is still trying to find their way to get over the hump as they take a short loss to Transylvania in a shoot out of 103-95. The men fall to 5-5 in conference play as they look forward to the rest of their season. Good luck to these men as they keep going out and battling through every game and congratulations to freshman, John Czarnecki, for leading the team in points with a career high of 23 points.

MEN'S BASKETBALL	1	2	FINAL
ROSE-HULMAN	38	57	95
TRANSYLVANIA	54	49	103

Standout Performers

John Czarnecki– 23 points, 7 rebounds, 1 block
Colin Wojcik– 19 points, 5 rebounds, 1 steal
Nick McGrail– 19 points, 7 rebounds, 1 steal
David Saadatnezhadi– Isn't even on the roster

RHIT Women's Basketball

Blake Powell

Sports Editor

The women's team is continuously dominating the court as they've taken 1st place in the conference with their 9-1 record in the HCAC while being 14-3 overall. The team got to celebrate their Breast Cancer Awareness game by winning their home game match up against Transylvania in their biggest shoot out of the year by a combined total of 147 points scored. Congratulations to these women and keep up the work.

WOMEN'S BASKETBALL	1	2	3	4	FINAL
ROSE-HULMAN	24	16	18	18	76
TRANSYLVANIA	11	21	10	29	71

Standout Performers

Taylor Graham– 16 points, 3 rebounds, 2 steals
Josie Schmidt– 13 points, 3 rebounds, 2 assists
Ally Bromenschenkel– 12 points, 4 rebounds, 1 steal
Abbie Marshall– 9 points, 3 rebounds, 3 assists, 4 steals



The Women's basketball team preparing for their Breast Cancer Awareness game.

Photo by Rose-Hulman Athletics

RHIT Swimming

Blake Powell

Sports Editor

Our Men's and Women's swimming and diving teams took on the Heartland Collegiate Athletic Conference Swimming Invitational at Franklin Community High School this previous Saturday while both teams brought home 2nd place while winning 11 combined events.

Pierce Bartine lead the men's team with two event wins in the 50-freestyle and the 100-butterfly. Other contributors include Cam Gill winning the 100-freestyle, Nicholas Jeronis winning the 400-individual medley, Patrick King winning the 200-butterfly and Evan Meridith winning the 1,650-freestyle. The men's 400-freestyle relay also won with the team of Bartine, Gill, Nate Weber, and Tyler Sariscsany.

On the women's side, Ellie Hong lead the way with two wins in the 100-backstroke and 200-backstroke while being helped with wins from Bethany Lefeber in the 1,650-freestlye and Michaela Kivett in the three-meter diving.

Rose-Hulman's next time in action will be this Friday for a dual meet against the Franklin Grizzlies.



Cam Gill in action.

Photo by Rose-Hulman Athletics

RHIT Track

Blake Powell

Sports Editor

Our Men's and Women's teams competed at the Field Invitational at the Sports and Recreation Center while winning 11 events to assist the Men in winning the meet while the Women took home 2nd place.

The men absolutely dominated the meet by getting 246 points with the next closest team being St. Norbert with 106 points. Josh Himes led the Engineers as he took second-place in school history and winning the meet with his weight throw and also winning the meet in shot-put. Other contributors include Nick Palmer in pole vault, Walt Dearing and our Men's 4-x-200 and 4-x-400 meter relays which consisted of Adam Wilson, Isaiah, Smith, David Borden, and Josh Hennig in the 4-x-200 and Brendan Smyth, Smith, Borden and Hennig in the 4-x-400.

The women were lead by Jaelyn Setina by marking the fifth best high jump in D3 track this season and Debie Gedeon beat her own school record in the 60-meter hurdles. Other notable winners included Emilie Hobbs in the one-mile, Kally Morozin in the 800-meter and Gabi Razma in the triple jump.

The Engineers' will take action again at the Engineer Invitational this Saturday at the Sports and Recreation Center.

Intramural Standings

Basketball

Volleyball

Greek B

TEAM NAME	W	L	T	GP	STREAK	STAND-ING
Fiji B	5	0	0	5	W4	1st
Cat Salads	4	1	0	5	L1	2nd
Triangle B	3	2	0	5	L1	3rd
Pike Garnet	3	2	0	5	W2	3rd
ATO B	2	3	0	5	W1	5th
SigmaNu	2	3	0	5	W1	5th
Delta Sig	1	4	0	5	L2	7th
Pike Gold	0	5	0	5	L5	8th

Residence B

TEAM NAME	W	L	T	GP	STREAK	STAND-ING
GrandTheftRondo	6	0	0	6	W6	1st
BSBreak Yo Ankles	5	1	0	6	L1	2nd
HoopsDidItAgain	3	2	0	6	L1	3rd
Monstars	3	2	0	6	W3	3rd
BetaSigmaBeta	2	3	0	6	W1	5th
Scharpenballers	2	3	0	6	W1	5th
Deming2D	1	5	0	6	L2	7th
TakeAShot4Haramb	0	6	0	6	L6	8th

Residence B

TEAM NAME	W	L	T	GP	STREAK	STAND-ING
StayLow	6	0	0	6	W5	1st
BSBlockParty	5	1	0	6	W4	2nd
OurNameWasn'tApproved	4	2	0	6	L1	3rd
D-O For Harambe	4	2	0	6	W4	3rd
West Sets	4	2	0	6	W3	3rd
ThatsWhatSheSet	3	3	0	6	W1	6th
Set to Kill	1	5	0	6	L3	7th
Pop A Volley	1	5	0	6	L3	7th
H,S, Mees and Toes	1	5	0	6	L3	7th
DadJeans	1	5	0	6	W1	10th

Top 10 Greatest Floors

1. Percopo 4
2. BSB basement (RIP)
3. Floor 58 of Trump Tower
4. Sublevel 84 of Area 51
5. Airport carpet
6. Bottom of the Mariana Trench (Sea Floor, man)
7. Vintage Parquet Flooring
8. Linoleum
9. The remains of the Berlin Wall
10. Chucky Cheese's Ball pit floor
11. Seventh Level of Hell (AKA the frozen wasteland of Indiana)

WACKY PROF QUOTES

"Your book makes a really good point about how other books are wrong when they use [this terminology], but since I call it the same thing, we're going to skip that."

-Dr. Syed

Fight the power!

"Maybe I need a brain transplant from a twenty-year-old..."

-Dr. Laxer

It'll be about as useful as the

brain you've got. Be careful, some have premature TV brain rot.

"Give me a D!... Give me an O!... Give me an N!... Give me an E! What's that spell?"

-Dr. Simon
Graduation. -Student

Did your prof say something hilarious or just great out of context? We want to hear about it! Send your quotes with who said it to thorn-flipside@rose-hulman.edu.

Charity

knock knock

Hello! Would you be interested in making a small donation to the community pool?

Sure, give me a sec.

Will this be enough to start?

Engineering jokes

At a university behavioral experiment, an engineer, physicist and mathematician were presented, each in turn, with the same controlled situation: they were placed in a burning room with centrally located tub of water, pump and hose.

The engineer immediately got the pump running, hooked up the hose, soaked the entire room with water and put out the fire. He dumped the remaining water on whatever dry spots were left.

The physicist, after first running a few calculations, got the pump running, hooked up the hose and carefully metered out the water to the appropriate areas and put out the fire without wasting a drop.

The mathematician, after running a few calculations, pronounced "yes, it can be done". And left the room.

Fact of the Week

The IKEA Store on "Calle Me Falta un Tornillo" ("I've Got a Screw Loose Street") in Valladolid, Spain, is hard to find because people keep stealing the street signs.