"Chain of Command" is an intimate portrait of the war against violent extremism and the men and women devoting their lives to it. Photo Courtesy of National Geographic.
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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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.
Evë Maquelin and Timothy Wynia
Staff Writers
Flights Still Crash
Flight 703, a Saratov Airlines flight, crashed near Moscow, killing all 71 passengers and crew. Though private planes crash fairly often, we rarely hear of commercial air lines suffering fatalities. Barring public transportation, commercial flights are far and away the safest way to travel in the US. Of the 848 million passengers flying in and out of the US, only 444 fatalities were recorded in 2014, and the numbers just keep getting better.
So what happened on Flight 703? Though it isn't entirely clear, the plane started losing altitude a mere 6 minutes after takeoff, followed by a series of climbs and sharp drops. Evidence, however, points to mechanical failures as the source of trouble.
As a regional Russian airline, Saratov Airlines doesn't hold their equipment to the same standards as your typical European or American airline. Ever since the collapse of the Soviet Union, Russian airlines have lacked the proper government oversight to ensure good safety records and prevent crashes. In recent years, however, safety has improved tremendously as Russian airlines have begun importing Western aircraft.
This tragedy will hopefully serve as another reminder of the importance of aviation standards.

Planes Still Crash

While the world celebrated Holocaust Remembrance Day on January 27, Poland recently signed a law that seeks to criminalize mentioning the complicity of the “Polish nation” in the crimes of the Holocaust. Among the changes in the criminalization of the term Poland death camps", with punishments of up to three years in prison.
Historians generally agree that occupying Nazi forces are to blame for these camps and associated war crimes, but the legislation has been widely criticized for restricting freedom of speech and academic inquiry, and pander to emergent ultra-right and nationalist movements in Poland.

The legislation was proposed by the governing Law and Justice Party, which has previously elicited controversy when one of their leaders argued before the European Parliament that “women must earn less than men because they are weaker, they are smaller, [and] they are less intelligent [than men].” After being passed, the Polish Prime Minister sent the bill to the constitutional tribunal for review and amendment, but it is expected to remain unaltered.

talk about Polish death camps

Dr. Guo is a professor of Clinical Radiation Oncology at Indiana University through the years, and more specifically, the different kinds of Brachytherapy that is performed today. At its core, Brachytherapy is the treatment of cancer, especially prostate cancer, by implanting radioactive agents directly into the cancerous tissue. This allows the therapy to take advantage of the inverse square law, a property of radiation in which the intensity is inversely proportional to the square of the distance, to maximize the effect on the cancer tissues while having a much more difficult time focusing the radiation on the target and lead to higher rates of undesired radiation to the healthy tissues. Dr. Guo discussed two kinds of Brachytherapy used in the treatment of Prostate Cancer, Low Dose Rate (also known as permanent Brachytherapy) and High Dose Rate (also known as temporary Brachytherapy). As the name suggests, Low Dose Rate (LDR) Brachytherapy involves the use of needles to place small bids of radioactive material (usually iodine-125 or palladium-103) known as seeds directly into the cancerous tissue. These seeds are relatively weak and will still give off radiation for a matter of weeks or months before the radioactive material is consumed. The seeds are small enough to be left permanently implanted without discomfort.
High Dose Rate (HDR) Brachytherapy on the other hand involves using much more powerful radioactive isotopes (Iridium-192 or cesium-137) for a short amount of time (roughly twenty minutes) using a series of catheters, which can then be removed.
Both branches of Brachytherapy involve a significant amount of image processing and predictive models, as dozens of seeds or catheters are placed within the patient, so ensuring that the radiation used is updated live during the process. Dr. Guo highly encourages Rose students to look into the field, as Rose students are highly de- sired across the board.

News Briefs

Let's Not Talk About Polish Death Camps

Curtis Humm
Entertainment Editor

Blue Ridge Radiation Oncology

Dr. Guo's Wednesday talk, is a vital method of treating various cancers, especially prostate cancer.

The Evolution of Brachytherapy

Brachytherapy seeds are left in the prostate for LDR.

Blue Ridge Radiation Oncology

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Brachytherapy seeds are left in the prostate for LDR.
“One explanation could be that the American culture has developed an affinity for escapism. Maybe the reason we prefer action-packed Marvel-like films is because we don’t want to be faced with the flaws of the world around us.”

The Subtle Art of Not Giving a F*ck
What Are You Willing to Struggle For?

Dahlia Bilsa
Staff Writer

A neon orange cover with huge black font that says “The Subtle Art of Not Giving a F*ck,” Mark Manson, the author of the book, really how to know what to pick up his book because this book was on every Bestseller corner of every bookshop and every ad on Goodreads.

Although this book is categorized as self-help, it’s an outlier to the nature of self-help books. It’s not even written by Mark Manson, but by it.

“The book will provide you with a counter-approach deal that involves struggles and use them to maximize your potential at the end of the book. Happiness. We all have different ideas of what happiness is, some already have but we just need to learn how to not distort it.

Although this book was a 50% repetitive in terms of the lessons, and I would not stop talking about how he was a master during his teens, it was an overall fun read.

“[The book] tackled important subject such as the significance of pain in our lives, the true happiness, over-identifying with emotions, and constructing the right values.”

Keeping it classy.

Photo courtesy of kobocom
On January 8th, the world witnessed the opening ceremony marking the beginning of the winter Olympics in South Korea. There were some really interesting outfits that I wanted to take a second to point out for a multitude of reasons.

We saw the debut for Nigeria at the winter Olympics. The all-female team sported beautiful traditional Gele in their native colors of green and white. While the American's wore their traditional Ralph Lauren outfits during the opening ceremony, turning heads with the western theme and tassels on the gloves. They really shined with the design of their Snowboarding attire. Burton modeled their gear after the NASA and astronauts alike with a metallic all-white getup, with red accents and NASA-esque lettering throughout the details of the outfits themselves.

Good luck to all of the nations competing. I hope you all enjoy these upcoming games as much as I know I will!

Seun Ladipo  
Lifestyle Editor  

Let the games begin

Fashion at the Winter Olympics  
Let the games begin

Spotify and Apple music have been two of the most revolutionary technological advancements in music production and consumption in quite some time. With services such as these anyone can have access to an entire catalog of the world's music in exchange for a few dollars a month. This allows those who produce such music to put their work into the hands of millions of people with literally the click of a button. Genes are the days of physical distribution on mediums such as CDs, or even mp3 players as we get closer we were required to store the music we listen to on our electronic devices. Distributing music is easier than ever and listening to music is even easier than that. These advancements in technology have been so groundbreaking that they have made lasting effects on every aspect of music of which we must learn to live with.

A change I have seen in the realm of era of music streaming that we all live in is the length of albums and even the time that an artist takes to dedicate and album. In the days of records in the 20th century, creating an album was Arthritic, with each song strategically placed in an order to tell the story of the vinyl. Accounting for the flip from the A side to the B side and ever important conclusion be the Album itself. All of these such factors contributed to the formation of albums and they slowly changed as music technology evolved. When CDs came we could listen to longer albums from start to finish and when services such as iTunes came along we could buy digital versions of these albums.

Although these changes altered the media itself, artists were still making their money based off how many times a song or album was purchased. The era of streaming music has changed this as artists are now making money based off of how long you listen to their music.

In the era of streaming no one really owns the music they listen to rather we are just essentially sharing a version of the song that is stored on some far away server of which we never directly interact with. Although this makes it easy to listen to music this convenience comes at a price.

For example, since 2012 popular Chicago drill rapper Chief Keef has released 21 albums all with around 15 full length songs on each. Streaming technology allows such actions to happen as an artist can release as much music as they want to without having to perfect their art or even find a recording label to produce their media.

Cases such as Keef’s are now quite commonplace in the musical era we live in. The Migos have released the long awaited Culture II with a whopping 24 songs. Chris Brown Released Heartbreak on a Full Moon with an amazing 60 Songs, and Future have released two albums at the same time with around 20 songs each. Furthermore, popular new rap group BROCKHAMPTON have released three albums this last year all by the name of SATURATION one, two, and three with the pure intention of saturating the market in hopes that some of it would stick and make their name known.

With cases such as these it definitely has displayed a shift in the focus on music in recent years. Artists literally throwing half-baked albums with a few hits on each seems to be the new standard. There are still artists that cherish the days of telling a story through an album such as Mestical icons like Kanye West or Kendrick Lamar, although we will have to wait and see how long they survive in this new market.

Having said this, this change does offer a new way for artists to make themselves known as everyone can have their music in the blink of an eye although the act of the refined album may be fading away.
“Yeah, We’re Kinda F*** d”

Or, how I learned to start worrying and sit in a cleanroom

Timothy Wynia

Guest Writer

Imagine something that kills 23,000 Americans and causes $55 billion in economic losses a year. That is the U.S. Centers for Disease Control and Prevention’s calculation of the annual damages caused by antibiotic-resistant bacteria. Despite these numbers, there is comparatively little being done to address this danger.

While the private sector possesses an impressive ability to innovate when presented with a sufficiently enticing opportunity, dependence on the private sector alone can be dangerous when dealing with problems whose economic opportunity isn’t proportional to the societal benefits that would come from solving it. Similarly, private companies often act recklessly when they are divorced from the broader ramifications of their actions. Both of these issues are coming into play with the rise of antibiotic-resistant bacteria: private companies abuse antibiotics in the factory farming of livestock leading to the development of antibiotic-resistant bacteria, but the direct economic benefits of developing new antibiotics are too low to encourage the scale of research needed to keep these “superbugs” in check. The result: agricultural conglomerates boost their profits, pharmaceuti- cal companies shift research to more profitable areas, and tens of thousands of people die from untreatable infections.

However, when bacteria strains develop antibiotic resistance, this is largely an example of natural selection at work, with bacteria acquiring and spreading resistance, but human action can influence the rate of natural adaptation. Doctors are supposed to limit the use of antibiotics and ensure patients complete their antibiotic regimens to reduce the chance of bacteria developing a resistance to key drugs. But misuse still happens.

An even worse story takes place in the agricultural industry. The private think-tank Rand Corporation aptly summarizes the issue, “Farmers often use antibiotics to increase the growth rate of animals raised to produce dairy, egg and meat products for human consumption... each year, some 9.6 million pounds of antibiotics are used in healthy animals in the United States... An additional two million pounds are used to treat sick livestock... antibiotic use leads to increases in the frequency of resistant strains... [and] the antibiotic-resistant lineages that become common in livestock... find their way into hospital[s] and the community.” Resistant bacteria are and will continue to emerge, and we need to develop tools to fight them.

The major issue with development of new antibiotics is that they are expensive. The government has passed rules to prevent the misuse of antibiotics in agricultural and medical settings, and act on proposals to reduce drug development times and increase economic incentives. It isn’t a glamorous issue, but a cost of inaction is devastating. Rand Corporation estimated in 2005 that “failing to tackle [antimicrobial resistance] will mean that the world population by 2050 will be between 11 million and 446 million lower than it would otherwise be... [which] would also reduce the level of world Gross Domestic Product (GDP)... [resulting] in a cumulative loss that ranges between $2.3 trillion and $2.5 trillion.” It is important to act now before it is too late.

Photograph from World War Z, Paramount Pictures 2013

“Antibiotic resistance will always be an issue, but smart steps can reduce death, infections, and the associated economic costs.”

Natural Selection

**Resistant bacteria**

**Population of mainly susceptible bacteria**

**Population of mainly resistant bacteria**

How it all works...

Source: ReAct - Action on Antibiotic Resistance

It’s your opinion.

Share it!

Submit via: goo.gl/bqLbeA
Or, Email:
thorn-opinions@rose-hulman.edu
Rose-Hulman's success continued in the meet with a strong showing in the distance medley relays. Rose-Hulman will compete in the Heartland Collegiate Athletic Conference Indoor Track and Field Championships next Saturday at Anderson University.

Eric Flazable set a new school record in the weight throw, which ranked in the NCAA DII top 25. Other men’s winners included Nick Palm er in the pole vault and Josh Brown in the shot put.

Gabby Rizzi led the women’s side with two event wins in the 400-meters and the triple jump. Other women’s winners included Jacyli Chisholm in the high jump and Lauren London in the 60-meter hurdles. Rose-Hulman swept honors in the distance medley relays.

Elisa Weber swept the 200-individual medley and 200-individual medley with school record performances in each event. Bethany Lefever added an event victory with a school record time of 58.92 seconds in the 100-butterfly. The women’s squad added two more school records for conference runner-up performances last Saturday by Michelle Rosse in one-meter diving and the 400-free relay team of Lauren Blake, Lefever, Maria Kleine, and Weber. Congratulations on their individual accomplishments along with the overall team achievements.

Men’s Basketball

The Rose-Hulman men’s team clinched the HCAC regular season championship with a 50-49 win over Earlham College Saturday afternoon. Rose-Hulman improved to 20-3 overall and 16-1 in HCAC play with its 16th straight victory along with their third straight HCAC regular season championships. The Fightin’ Engineers honored two senior starters in their final regular season game—Alyzia Dilworth who started 20 games and appeared in 53 at Rose-Hulman with 685 points, 335 rebounds and 184 assists and Lindsey Fargher who has started all season and appeared in 30 games while the women are second.

Alyzia Dilworth’s 14 overall and 7 assists and 2 assists and Nick McGrall’s 7 points and 6 rebounds

Women’s Basketball

The Rose-Hulman women’s team clinched the HCAC women’s regular season championship with a 50-49 win over Earlham College Saturday afternoon. Rose-Hulman women will compete in the HCAC regular season title next Saturday at Anderson University.

Standout Performers

Charlie Aimeone-17 points, 4 rebounds, and 2 assists

Nic McCluggage-17 points and 6 rebounds

Pick things up and throw them very far.

Photo By Rose Hulman Athletics

Hulman men swept most honors in the meet with individual accomplishments along with the overall team achievements. Alyzia Dilworth and Nick McGrall honored two senior starters in their final regular season game—Alyzia Dilworth who started 20 games and appeared in 53 at Rose-Hulman with 685 points, 335 rebounds and 184 assists and Lindsey Fargher who has started all season and appeared in 30 games while the women are second.

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Standout Performers

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Nic McCluggage-17 points and 6 rebounds

Alyzia Dilworth-14 points

Lindsey Fargher-16 points

Alyssa McMeeche-19 points and 7 rebounds

Photo By Rose Hulman Athletics

By Rose Hulman Athletics

RHT Women’s Basketball

Sports Editor

Blake Powell

Rose-Hulman men’s swimming stands in first after day-two of the HCAC championships while the women are second. The men’s team leads with 609.5 points, followed by Franklin at 308.5 points. The women’s team is in second with 390 points trailing Franklin with 285 points. Rose-Hulman has swept all 17 men’s championships in the first two days of the meet.

Cam Gill has led the parade with individual event wins in the 50-breaststroke and a school record time of 28.58 seconds in the event.

Congratulations on everyone with their individual accomplishments along with the overall team achievements.

RHT Men’s Basketball

Sports Editor

Blake Powell

Erin Fiacable set the HCAC title with times in the 500-butterfly, Avery Krovetz in the 100-backstroke, Blake Powell in the breaststroke, Ben mismo in the 50-freestyle and Peter Veneman in the 200-breaststroke.

Alyzia Dilworth with a school record in the 200-breaststroke.

The most unique individual event win for the Rose-Hulman men is the 100-backstroke—Ethan Park and Nick Sauer shared the HCAC title with times of 48.58 seconds in the event.

Just keep swimming. Just keep swimming.

Photo By Rose Hulman Athletics

Cam Gill is the RHT Player of the Week. At the HCAC conference championships Gill led the parade with the individual event wins in the 50-breaststroke and a school record performance in the 100-backstroke. Congratulations to Gill with his career as this was his last HCAC conference championships after a long four year career at Rose-Hulman.

Photo By Rose Hulman Athletics

RHT Men’s Basketball

Sports Editor

Blake Powell

The Rose-Hulman men’s team beat Earlham College, in-state rival, 88-82 on Saturday afternoon in the John Mutchner Center. Every team this year is in honor of legendary John Mutchner, who was a standout athlete at Earlham College. Hulman was a longtime head men’s basketball coach and ath-
### National 7 Day Forecast

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### Wacky Prof Quotes

- *I'm not drunk or English enough to do this.*
  - Dr. Richard House

- *Don't ever trust Butske.*
  - Dr. Wayne Tarrant

- “You mix them all together, let ‘em have a party until they all die.”
  - Dr. Michael Mueller

- *Points at the solution on the board*
  “This is a flaming pile of garbage. You can’t solve problems with a flaming pile of garbage.”
  - Dr. William Green

### Love Poems (Happy Valentine's Day)

- You are the starlight to my moonshine
  You are the summer of my mind
  You can complete a perfect square
  And still make jocks stop and stare

  *My heart goes boom*

- You can make a perfect sandwich
  If you want to
  Baby I won’t force you
  But please don’t lay on that mayonnaise
  Unless you want to
  My stomach has room

- You are so beautiful
  Make me a sandwich
  -Anonymous

- *Roses are red
  Violets are blue
  It’s 10th week, my dude
  I have no time for you*
  ---

- “You remember one time I liked you?”
  “No?”
  “Good, ‘cause never happened!”
  “Oh.”
  -Thejasminator

### Top 10 Ways to Kill Your Valentine

1. Kindness
2. Give them a bouquet of Tide Pods.
3. It’s 10th Week - they’re already dead.
4. When they offer you their heart, take them up on it.
5. Softly, with your song.
7. Bees.
9. Serve them up a Molotov Cocktail
10. The clap.
12. Take their breath away and don’t give it back.
13. Sweep them off their feet. Mortal Kombat style.
14. Locaime powder.
15. Make them fall head over heels in... to a canyon.

### I'd name a Stop Sign after you.

If anyone wants to suffer from a stupid head cold, let me know. I have a plethora of used tissues and unused sneezes to offer you. Please send an email with questions, concerns, or content to the Thorn Flipside Editor <thorn-flipside@rose-hulman.edu>. Disclaimer: The Flipside is purely for fun! Any uncredited work above can be attributed to me, Emma Oswood.