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**Lauren Wiseman**  
**News Editor**

Rose-Hulman is not a school to shy away from a hands-on demonstration. In the case of Dr. David Chapman’s course, “Popular Music in the Era of Recorded Sound,” the demonstration offered a chance for students to see how music was recorded and enjoyed over a hundred years ago. The Antique Phonograph Society (APS) put phonographs and phonophones on display, giving Dr. Chapman’s class and the Rose-Hulman community a first-hand look at the evolution of music.

“When you read it in a book, it has an abstract quality,” Dr. Chapman said. “When you see it, when you hear it, history comes alive right in front of your eyes. Seeing history up close and personal this way helped understand the significance of the technology, but the class had another goal in mind. By exploring the popular music of the time, the class also delved into the relationship between technology and society. This opened the door to discuss the ethics and law of this timeline.”

One of the earliest forms of recorded sound was the wax cylinders. A recording needle cut grooves into the cylinder as sound was encoded to the phonograph through a long horn.

The theory was put into practice through a student-written song, “This was the beginning of your CDs, your records,” APS member Mathew Panfil explained. “The only difference is today looks at it as backward. [The process] was mechanical.”

With the help of Fizer, junior software Engineering and Math student Matthew Panfil had the chance to see that process come to life by recording a letter written during the height of the phonograph. That was not the only demonstration, however, as the entire class joined together to discuss the role of Rose-Hulman’s Fight Song, “Dear Old Rose.”

The goals of the APS aligned perfectly with the purpose of the class. The society is dedicated to the community of the development and history of recorded sound, making them a prime candidate for reinforcing the material taught in Dr. Chapman’s class.

Thequist described that process as an educational experience for those interested in learning more about the history of recorded sound, the technology behind it, and the communities that form around them.

The class had an opportunity to experience the technology firsthand in a hands-on demonstration, allowing students to see the evolution of recorded sound from the wax cylinder to modern technology.

In order to be a regular member, one needs to be of a biological science major (BIO, BIOCHEM, BE, BMTH) and have completed at least three nonintroductory biological science courses.

Regular members are also expected to fulfill two of three requirements for each quarter to stay active: show up to 6 out of 10 meetings, pay the $10 dues per quarter, or perform three hours of volunteer services acknowledged by the chapter.

Regular members have the chance to hold officer positions.

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GET IT ALL IN THE ROSE THORN.
MEET US IN Q259 EVERY TUESDAY AT 5:15 P.M.

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.

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

SUBMISSIONS of articles, photographs, art, and letters to the editor is encouraged. Submission may be made by email to theeditor@rose-hulman.edu or in person to Percopo room 053. 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.

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Sternberg, Dan. "A Presidential Update"

Following the first two debates of the presidential election, President Barack Obama was often criticized for being non-committal on political policies and for not directly addressing the issue of immigration and other domestic concerns. His lack of clarity and specificity was seen as detrimental to his chances of re-election.

However, the recent academic writing "Standing as the 259th American to win a Nobel Prize..." by William R. Kelly, an expert on Japan, highlights the importance of understanding Japan's culture and history for modern policy-makers.

Kelly begins by emphasizing Japan's unique blend of tradition and modernity, a characteristic that defines the country's diverse and dynamic society. He contrasts Japan's past and present, drawing from a variety of sources, including interviews with Japanese citizens and historical anecdotes, to paint a compelling picture of modern Japan.

His analysis is supported by the vast majority of the population working in the city, with a focus on the Tokyo area. Kelly delves into the challenges faced by Japan, including its aging population, economic stagnation, and the post-earthquake and nuclear crisis of the 2011 Tohoku disaster, which instigated a devastating Tsunami, which in turn instilled fear in the Fukushima nuclear power plant.

Kelly puts a human touch to the devastation, revealing the anecdotes of the Onahama Village "Wind Clock," an underdeveloped old-fashioned toy box containing a single unconnected rotary phone and a ledge. Hundreds of individuals have claimed the ledge, leaving behind glass, paper, and wood boxes to call friends and family lost in the disaster, seeking closure, but also keeping what little they have left, as a reminder of the past.

At the opposite end of the disasters, the 2020 Olympics will be hosted in Tokyo, and construction is well under way all across the metropolis. With many billions of money being thrown into these projects, Japan needs to turn them off amid safety concerns.

Unsurprisingly, this was met with the usual reaction across the political spectrum, with some claiming the Nobel committee was simply being beholden to popular sentiment. In reality, the committee's decisions are based on a rigorous evaluation process, and the impact of their influence on future science is significant.

Bob Dylan Wins the 2016 Nobel Prize in Literature

In his opinion piece, "Gratitude is the greatest return..." by Susan Faludi, she emphasizes the importance of gratitude in one's life, as well as the need for continuous cooperation between government, the business community, and the general public, to ensure a sustainable future.

Faludi argues that gratitude is the greatest return, as it is a way to express one's appreciation for the contributions of others, and to foster a sense of community. She points to the example of a high-performing team, where trust, authenticity, and shared values are crucial to success.

The term "performance teams" is used to describe groups of people who work together to achieve a common goal. Faludi's work is particularly relevant in the current political climate, where the need for collaboration and empathy is crucial.

In conclusion, the lecture was devoted to the events that have and will occur in the 2010s, specifically the disasters of March 5, 2011, and the impact of the Tohoku earthquake and tsunami, as well as the resulting Fukushima nuclear disaster. In light of these events, Faludi's perspective on gratitude and community becomes even more relevant, as it serves as a reminder of the importance of coming together to face challenges and support one another.

The talk then ended with Dr. William R. Kelly reflecting on the importance of understanding Japan's culture and history, and the need for continued cooperation between the government, the business community, and the general public, to ensure a sustainable future.
There's a New Science Fiction Thriller in Town
HBO's West World embarks on ambitious world building series

Marc Schmitz
Editor-in-Chief

HBO's new science fiction thriller, Westworld, is ambitiously attempting to build another world for viewers. Following in the footsteps of HBO’s hit-series, Game of Thrones and True Detective, the series has big shoes to fill. The network is certainly committing the resources required to accomplish that, spending an estimated $100 million on the first 10-episode season.

Thus far it has received critical praise for its gritty, storytelling, and world building. With five seasons mapped out, it has the possibility of being an epic odyssey for viewers, and it has done an excellent job of getting us to buy into this brave new world.

Westworld is structured around a western themed amusement park for the ultra-rich filled with lifelike robots. The series has been noted for its all-star cast of actors, including Michael C. Hall, who plays the mysterious Man in Black, who proceeds to rape Dolores, as he has apparently done before. Teddy kills the bandits but is gunned down by the Man in Black, who proceeds to rape Dolores while she is in town. She and Teddy return home to find her father has been murdered by bandits.

The series also explores how visitors engage in sexual abuse, and the park resets each night and results in 47 ronin being sentenced to death. Nevertheless, a common theme can be found in the three Keane Reeves movies (47 Ronin, Bill and Ted's Excellent Adventure, and the Matrix). In all three movies, outliers of society serve as protagonists. Bill and Ted were made to appear to be nonconformists to society because the teacher and Ted's father scolds them. Neo is the outlier by simply being "the one". Kai is only half Japanese which causes every other character in the movie to handle him differently. How will visitors and park staff react to hosts that behave in unexpected ways?

These are the questions that will drive viewers in the episodes to come as we learn more about this futuristic amusement park where all is not as it seems.

Joseph Lee
Staff Writer

"Dude! It's time for the "most excellent adventure" of 47 Ronin. I'm not talking about gathering historical figures to see the report and form a most unrivaled band. Instead, the theme is REVENGE! "Woah!," it really appears that Keane Reeves' (Excellent Adventure) has taken a darker path, with themes of revenge, death, and killing. Maybe Ted and Bill had a falling out when their host started receiving some success? Whatever the case may be, the telephone booth time machine has definitely been used, as the time is no longer 1988, and the place no longer San Dimas. Instead, it's 18th century Japan.

Jokes aside, 47 Ronin centers around 47 Ronin and Kai (Keane Reeves). Ronin is the Japanese term for a samurai without a master. Simple, right? Well, the premise is more complicated than that. While the movie focuses on a real historical event involving 47 ronin and the theme of revenge, it also contains several legendary creatures that are only seen in legends and folklore. This comes into play with Kai, a half Japanese and half Western, who was trained to fight by the Tengu (one of the legendary creatures). Thus, the same way Neo (Matrix) knew the ways of kung fu, Kai knows the ways of the sword. Kind of makes you question what Ted and Bill knew as movie stars.

Anyway, the story begins when Asano, the master of the titular samurai, is killed in an egregious setup, causing him to attack a shogunate official (basically a higher ranking government official). Attacking someone of such rank resulted in Asano being sentenced to death. Without a traveling phone booth, the execution takes place, and results in Asano's samurai becoming ronin. With the premise set, the main story ensues: The revenge of Asano's death. Kai, while not a samurai himself, helps out in this endeavor. It's almost like he's "the one" (hint hint! nudge nudge!). However, it's safe to say that the world is on high alert (unlike the Matrix), and the story is really a tale about seeking vengeance.

Nevertheless, a common theme can be found in the three Keane Reeves movies (47 Ronin, Bill and Ted's Excellent Adventure, and the Matrix). In all three movies, outliers of society serve as protagonists. Bill and Ted were made to appear to be nonconformists to society because the teacher and Ted's father scolds them. Neo is the outlier by simply being "the one". Kai is only half Japanese which causes every other character in the movie to handle him differently. How will visitors and park staff react to hosts that behave in unexpected ways?

Photography by weminoredinfilm.com

It's a wild world out.

Keanu Reeves' Excellent Adventure
Possibly known as 47 Ronin

No seriously, which one's Bill? Skall tattoo?

Photo courtesy of IMDb.com

There's a New Science Fiction Thriller in Town
 HBO's West World embarks on ambitious world building series

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HBO's new science fiction thriller, Westworld, is ambitiously attempting to build another world for viewers. Following in the footsteps of HBO's hit-series, Game of Thrones and True Detective, the series has big shoes to fill. The network is certainly committing the resources required to accomplish that, spending an estimated $100 million on the first 10-episode season.

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These are the questions that will drive viewers in the episodes to come as we learn more about this futuristic amusement park where all is not as it seems.

Westworld airs on HBO on Sundays at 9pm.

All things considered, I would give it 3/5 or in other terms, a movie that might be worth a watch if one is bored.

Photography by weminoredinfilm.com

It's a wild world out.
In the past decade, we have seen a serious shift in the way we consume media. From picking up movies at the local video store to getting movies on Netflix, the way we watch movies has drastically changed. With the advent of streaming services like Netflix, Hulu Plus, and Redbox, people have been watching movies in the comfort of their own home.

Over this same time period we have also seen competitors enter the streaming market. This mix of streaming options offers much more flexibility to viewers as they don’t have to wait for the entire season at once, eliminating the need to wait a week for a new episode. These subscription services offer more than just a way to watch movies; they also offer their own original content that will draw viewers away from other subscription services.

In the movie business of today, there are two types of services available: streaming and physical media. Streaming services offer on-demand movies and TV shows that can be streamed from your computer, smartphone, or tablet. Physical media includes traditional cable, CDs, and physical storage like Blu-rays. The three pillars of media consumption are streaming, cable, and physical media.

The Death of Cable

In the past, we have seen a lot of changes in the way we consume movies. From the days of renting a movie at the video store to streaming a movie on Netflix, the way we watch movies has changed. With the advent of streaming services like Netflix, Hulu Plus, and Redbox, people have been watching movies in the comfort of their own home.

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Opinions

In Defense of Globalization

Marc Schmit
Editor-in-Chief

In the current election cycle, we have seen tremendous sentiment about the failures of free trade. Agreements like NAFTA and TPP are used as attacks and hold up as failures of globalization, which did far more harm than good. To say that public sentiment in the United States has turned against free trade is understandable.

This is not unreasonable, as the benefits of free trade and globalization are difficult to see. The negatives are acutely felt by those who have been adversely affected by globalisation, amplifying their calls for protectionist measures such as trade tariffs.

Nonetheless, it is important that we recognize that we have all greatly benefited from free trade agreements and the rise of globalization. Free trade with China has precipitously decreased the cost of basic goods and filled the shelves of big box stores like Walmart with cheap goods. Poor college students like ourselves and low-income workers are able to purchase more for less compared to when there was little free trade with China.

Economists of all schools will argue the benefits of free trade, and how it improves economies through efficiency gains and lowering the cost of goods. However, there are losses when it comes to free trade, and we have failed to adequately care for those individuals. People who lost manufacturing jobs in rural areas were trapped, unable to find a new job because they didn’t have the training or were unable to move to find new work. We need to provide assistance to these people.

It is important to note that more manufacturing jobs were eliminated for many different reasons. Manufacturing has been on the decline as a percentage of jobs in the United States since 1950. A shift towards a knowledge based economy has assured that manufacturing is not a part of the solution. The solution, as long as we have cheaper labor abroad has assured that manufacturing jobs in the United States are not going to play a major part in our economy. Let’s not expand limited resources to attempt to get back jobs that no longer exist and instead focus educating people so that we can maintain our leadership in knowledge intensive industries.

With that, we need to abandon free trade agreements and find ways to gain so much from a world where there is more free trade. As engineers we stand to benefit where our knowledge intensive industries can operate beyond national borders without obstructive protectionist measures blocking our work. Our unparalleled skills allow us to dominate industries when there are no walls in our way. However, if we begin to put up walls around our economy, then there is nothing stopping other countries from doing the same. As a nation, we have far more to gain when we play on a free and level field, negotiated by free trade agreements.

As students and engineers we need to be vocal about our support for free trade. It is in all of our best interests to support free market policies so that when we enter our industries we can compete on the global stage and reap the benefits of our excellent education. Furthermore, we need to support initiatives that work to offer the homes felt by people who lose out from free trade. This will help those calling for protectionist measures and reassure people that we as a nation are committed to free trade.

We cannot give up on free trade. Let us work together to fix it instead of scrapping it for protectionism that will hurt our economy, not improve it.

Poll Results:

To Flip or Not?

Don’t Flip it!

Mirror it!
Football Triumphs over Manchester
Quarterback Austin Swenson sets new passing record

Michael Iacomio catching a 20-yard pass from quarterback Austin Swenson.

Photo by Rose-Hulman Athletics

Women’s Tennis Heading to NCAA Division III Tournament

Marc Schmitt
Editor-in-Chief

In an excellent outing for Rose-Hulman Institute of Technology Women’s Tennis bested Hanover College 5-4 to win the Heartland Collegiate Athletic Conference Title. The team will be heading to compete in the NCAA Division III Tournament in May.

Over the course of nine matches, three doubles and six singles, the Fightin’ Engineers rallied to defeat Hanover. The decisive win came late in the day with the final three matches determining the outcome of the day.

The final and deciding match of the day was between senior Lauren Edwards and Susan Winterhalter. Edwards came back to win it as her teammates cheered from the sidelines. In an interview after the match, Edwards described the match as “very intense,” but persevered and focused on “staying cool and not getting rattled.”

Rose-Hulman Women’s Tennis finishes the fall season at 12-2 overall.

Women’s tennis wins the HCAC title.

Photo by Rose-Hulman Athletics

Do you like sports?
Write for the Sports Section
Email Thorn-Sports@rose-hulman.edu

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Photo by Rose-Hulman Athletics

Intramural Standings

Indoor Soccer

| TEAM NAME | W | L | T | GP | STREAK | STAND- | |
|-----------|---|---|---|----|--------|-------|
| Mario     | 4 | 0 | 0 | 4 | W4     | 1ST   |
| ATO-Harambe| 2 | 1 | 0 | 3 | L1     | 2ND   |
| Pike A    | 1 | 3 | 0 | 4 | L2     | T-3RD |
| Triangle A| 1 | 1 | 0 | 2 | W1     | T-3RD |
| Eurostars | 0 | 3 | 0 | 3 | L3     | 5TH   |

Flag Football

| TEAM NAME | W | L | T | GP | STREAK | STAND- | |
|-----------|---|---|---|----|--------|-------|
| BSBeckham | 0 | 4 | 0 | 4 | L4     | 4TH   |
| Girls of Deming FC | 2 | 2 | 0 | 4 | L2     | T-2ND |
| Hit Squad | 4 | 0 | 0 | 4 | W4     | 1ST   |
| Wood Elves | 4 | 1 | 0 | 5 | W4     | T-1ST |
| Out of Darkness | 2 | 3 | 0 | 5 | L3     | 5TH   |
| Game Good Good... | 4 | 1 | 0 | 4 | W4     | T-1ST |
| Apartments West | 2 | 3 | 0 | 5 | L3     | 5TH   |

Sports

Football Triumphs over Manchester
Quarterback Austin Swenson sets new passing record

Michael Iacomio catching a 20-yard pass from quarterback Austin Swenson.

Photo by Rose-Hulman Athletics

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Photo by Rose-Hulman Athletics
Flipside 8

WACKY PROF QUOTES

"Here is boxcar Willie, as much culture as you can get in a humanities course. Now you are well rounded children."

-Dr. Morris

"It's just that easy. Microsoft just wants world domination... just like me."

-Dr. Laxer

"Fight the power! A preschooler could do this."

-Dr. Chenette on red/black trees

I think one needs to know more than just how to hold two different crayons to do this, Professor.

"Internet of things, it means we have no idea what we are talking about. We don't even have a name for it."

-Dr. Song

"I have taught at other colleges and people just take the first seat they come to. That is not true for you Rose students!"

-Dr. Carvill

We are the 1%

"Last time I had this class, I had a pod room. One day, I came in, made them count off and switch seats. They bitched so much, it was all over my evaluations."

-Dr. Carvill

You should have known better than to mess with the wild engineering student in their natural habitat.

Fact of the Week

The Nazis made it illegal, on pain of death for apes to the Heil Hitler Salute. (speaking of other strange things in Europe)

In 2008, UK police granted a weapons license to a seven-year-old child.

"Your mother is so fat, the recursive function to compute her mass causes a stack overflow."

-Dr. Carvill

"Love is in the air? False! Nitrogen, Oxygen, and Carbon Dioxide are in the air."

-Dr. Carvill

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.

Hey everybody! Good to see you all looking so lively! (Hopefully.) Lauren Santichen here, bringing you the newest Flipside edition! So, real talk guys, I am a Senior, heading into my last couple quarters here, and I have no pupil to take over the Flipside. Does anyone want to come to the Tuesday meeting and volunteer? It would really help. Back to unreal talk, if you have any comments or questions, feel free to send an email To: Thorn Flipside. Hope to see some new faces this next week! LLS

Top 10 Ways to Spot a Freshman

1. Nerd run (instead of just skipping class)
2. Fancy Laptops (those sleek new Dells...)
3. Smiling between classes (I haven’t smiled in three years...)
4. Believing a good GPA is still possible (Hahahahaha...)
5. Involved in n number of clubs, where n is > 3 (Ain’t nobody got time for that)
6. Has seen the latest episodes (knows what’s in theaters without looking online)
7. Asks: What’s the ARA? (RIP ARA)
8. Complains about physics (as opposed to Emag or ADES)
9. Looks both ways before crossing the street (instead of trying to catch a Pokemon and trusting the cars to stop for you)
10. Has 3 plates of pizza, 2 bowls of ice cream, and 1 fresh salad at the Bone (Hello, Freshman 15)

Hear ‘Round Campus

"What do you have to do before you put in your Verilog code on your FPGA?"

"Pray."

"Your mother is so fat, the recursive function to compute her mass causes a stack overflow."

"Love is in the air? False! Nitrogen, Oxygen, and Carbon Dioxide are in the air."

"Classwork: 2+2=4

Test: Johnny had 3 apples and he ate one, calculate the mass of the sun."