Richard Barnes is the head of security for Mozilla's Firefox web browser. Barnes started off by discussing the benefits of open source software, reminding those in attendance of Firefox's freely accessible source code.

In moving to a broader scope, Barnes asserted that a guiding principal in building secure software is to constantly challenge the user from the software’s development. As the software evolves, it must be protected, or in the case that a developer’s source code is compromised by a malicious actor.

The real shift in thinking required, according to Barnes, is developing systems that spread risk out over multiple systems. This means compromises must be made in the business sense where control and trust are distributed to multiple actors. A difficult mindset must be adopted, that software vendors should not trust themselves.

In discussing open source software, the primary benefit, according to Barnes, is the transparency, where all updates are published in a public log. In this system there are multiple authorities that sign a software update, that is to say they are verifying its authenticity, and a quorum of authorities are required to release an update. Cross-verification of software updates can further improve the security of updates by spreading trust among multiple actors, reducing the risk to users in the case that one actor is compromised or acts in a malicious manner.

Problems exist with this system as well, such as vulnerabilities in the public cross-signing infrastructure. These can be exploited, as can be the case with malicious actors who control networks and try to meddle with the server’s communications. But this approach can improve the security of updates by spreading trust among multiple authorities, reducing the risk to users in the case that one actor is compromised or acts in a malicious manner.

The Computer Science and Software Engineering department hosted a security talk by Richard Barnes on Monday, January 30. As the Head of Security for Firefox web browser, Barnes talked about the needs and challenges of protecting users from malware.

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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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THE ROSE THORN
ROSE-HULMAN INSTITUTE OF TECHNOLOGY, 5500 Wabash Ave, CM 5037, Terre Haute, IN 47803-3920 • Thorn@Rose-Hulman.edu

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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 103. 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.
Air Pollution Possible Cause of Dementia, Study Finds

When one thinks about air pollution, the connection is generally made to the lungs and heart. However, new research suggests that air pollution may have a greater impact on the brain and could be a cause of concern for those with dementia.

Researchers viewed 3,600 women with no cases of dementia at the start of the study, female lab mice, and burned, etc., may be a cause of concern for more than just the senses.

Furthermore, the researchers claim that 21 percent of all dementia cases might be correlated with air pollution.

While such successful vaccines have been made and tested in animals previously, scientists think they may have a successful vaccine. While several candidates have been made and tested in animals previously, this one is the one that doesn't make the condition worse while the substances mostly anger. While there are mild cases, some cases can join senses with emotion.

The peractive anterior insular cortex, the region that sounds: neutral sounds like rain, generally unpleasant noises like nails being scraped down a blackboard and chewing.

Dislike to certain noises. Noises that may include missiles would be too provocative and could be potential signals.

On the other side of things, the U.S. already has a significant military presence in South Korea with numbers of station.

While President Trump is currently in the news for his rhetoric towards South Korea and the U.S., such declaration.

Mattis reassured South Korea of protection from North... militaries would be too provocative and could be potential signals.

U.S. Promises South Korean Protection

News Briefs

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Entertainment

4

Lights! Camera! Sing!
A Review of Sing

Christina Ricci's portrayal of Zelda Fitzgerald truly captures the soul of the character.

Photo courtesy of comingsoon.net

Christina Ricci's portrayal of Zelda Fitzgerald truly captures the soul of the character.

Photo courtesy of comingsoon.net

Lights! Camera! Sing!
A Review of Sing

Truly an ensemble number.

Photo courtesy of screencrant.com

"Overall, this turns out to be a heartfelt story about dreams and trying, even if it means you might fail."

On Sing, which features an ensemble cast of talented performers including Christina Ricci as Zelda Fitzgerald, this review highlights her captivating portrayal of the legendary literary figure. Ricci's performance is praised for its authenticity and emotional depth, truly capturing the essence of Zelda's complex character. The review also applauds the film's overall production values, including the animation and music, which contribute to a visually stunning and musically engaging experience.

The review notes that Ricci's performance as Zelda is a standout, bringing to life the spirit and struggles of the Roaring Twenties. The film is described as a heartfelt animated musical that deftly balances its narratives to create a seamless tapestry of stories. With Ricci's performance anchoring the narrative, Sing is recommended for audiences looking for a poignant and entertaining cinematic adventure.
Avenged Sevenfold is a metal and hardcore rock band that, late last October released its latest album “The stage” to critical acclaim and immense popularity, hitting number one on US top 100. However, “The Stage” was a large change in sound for the band, with a move to an even more ballad form of lyrics, more prominent use of metal and experimental guitar riffs, and was one of Sevenfold’s longest album totaling 73 minutes with 35 minutes of those minutes being actual music. These changes to Avenged Sevenfold’s music are not that uncommon for the band, as since their debut album “Sounding the Seventh Trumpet” from 2001 was incredibly different from the rest of their later albums. “Sounding of the Seventh Trumpet” which references the trumpet that brings the end of the world (the first of many biblical allusions Avenged Sevenfold would use), was unlike most of their later albums. With very little guitar riffs, heavy leading vocals and the most intense drum passages, the album was well received by critics, however only 300 copies were sold in its first week. The album was well made, but showcased Sevenfold’s youth age (still in high school at this point) through how much of the bands influences from early 90’s metalcore bands appeared in their music. Later in 2005, Avenged Sevenfold would release an extended play of their debut with a new single and a remake of “To End Everything” which was more heavy metal rather than they’re earlier metalcore style, which blends metal and hardcore punk. The band would take the lesson’s learned from their first album and create far greater success with their second album “Walking the Fallen”. The album while still having the metalcore sound from their debut album, showcased far clearer and easier to understand singing, a major problem listeners had with the first album. “Walking the Fallen” would become Avenged Sevenfold’s first truly successful release, gathering critical acclaim and getting the rising band compared to big name bands like Iron Maiden and Metallica. The album would also sell extremely well, selling 5,000 copies in the first week and having sold out the 10,000 copies since 2014 (comparable to only 300,000 for the debut to today). This album is when Avenged Sevenfold started gathering attention and the band base would continue to grow with the 2005 release of “City of Evil”. “City of Evil” was a move to far more traditional hard metal and heavy rock sounds for Avenged Sevenfold, moving away from their metalcore roots and was notably absent of any screaming vocals as the lead singer M. Shadows worked for months with vocal coach Ron An- derson to build his new sound. He wanted this new album to have “grit” and heavy textures similar to the heavy metal band Rammstein. “City of Evil” contains some of Avenged Sevenfold’s most popular and well received songs including the singles “Seize the Day”, “Hail to the King” which references the trumpet that brings the end of the world, “Savior Gay” which is about Jesus, “Bathe in Blood” which is about a vampire, “Hail to the Stage,” which is about the band and their success, “Walking the Fallen” which is a reference to the trumpet that brings the end to the world and “Deja vu” which is about the band’s success and their albums. “City of Evil” has been an always evolving band that exploded into the metal mainstream in the early 2010’s and to this day is still experimenting with their style with each album. And with the success of their newest album, which even those the most critical of them have given high rat- ing, their future seems well set to continue to make music.
We cannot sacrifice morality at the altar of economic gain, even if it is "for the greater good". Our laws must not be rooted in what appears to provide the most utility, because it is evident that this is not necessarily the case. We must ensure that we do not sacrifice our values to economic gain.
RHIT Men’s Basketball

By Blake Powell

Sports Editor

The Men’s basketball team put up a great fight against Mt. St. Joseph by taking the game into overtime against the 1st ranked team in the HCAC. The conference tournament is approaching so this is a good sign to see that our team can play with any team out there but they just need to take their games to the next level in order to make a run in the tournament. The men take on Earlham at home on Wednesday.

WOMEN’S BASKETBALL

By Blake Powell

Sports Editor

Our Women’s team beat Mt. St. Joseph to increase their winning streak to 8 while extending their home court winning streak to 21. Every game counts for the Fighting Engineers as they are playing to keep first place in the HCAC with their impressive 18-3 record and 13-1 in conference play. The Women return to play on Wednesday for a home game against Earlham for another game of conference play.

Standout Performers

Aly Brumwenschenkel-8 points, 8 rebounds, 1 block
Josie Schmidt-15 points, 4 rebounds, 3 steals
Abby Brumwenschenkel-6 points, 5 rebounds, 4 steals
Alyvia Dilworth-2 points, 7 rebounds, 5 assists

RHIT Women’s Basketball

Sports Editor

The previous two seasons have resulted in a Finals game featuring the Cleveland Cavaliers and the Golden State Warriors and everyone is expecting to see a third Finals appearance from each team this season. Cleveland is still up against some teams’ game to win as there is enough season left for a team to come together and make it for the Finals. There are four teams in the Eastern Conference that only have four or less wins than the Cleveland Cavaliers; the Boston Celtics (29-30), Philadelphia 76ers (29-30), Atlanta Hawks (30-20), and the Toronto Raptors (30-29). Golden State looks to have the Western Conference wrapped up; however, the San Antonio Spurs stand at second in the Western Conference with a record of 39-11 while the Houston Rockets stand at third with a record of 37-17.

There is sure to be excitement to see what will happen with this season because there are so many teams playing at a tremendous level. Can any team in the Eastern Conference beat Lebron James and the Cleveland Cavaliers? Can any team in the Western Conference take down the super team of Curry, Green, Thompson and Durant? We still have about four months until we find out who will be competing to be the NBA Champions, which will begin on June 1st.

Standout Performers

Charles Ainnonga-15 points, 6 rebounds, 2 assists
Collin Wójcik-14 points, 2 rebounds, 2 assists
Nick McGrail-12 points, 4 rebounds
If I had to pick the water boy or David, I’d say they’re the same person
“Nope, Dr. Grimaldi is just hang-ing in there. I got this great cough medicine at home, but you’re not allowed to bring brandy on cam-pus…”

-Dr. Grimaldi

Darn shame that is.

“Your last three presidents, George Bush, Bill Clinton, and Barack Obama, were left-handers, like me. I should be the next presi-dent.”

-Dr. Song

Song 2020!

“There’s nothing wrong with a bit of brandy for medicinal purposes…”

-Dr. Grimaldi

Nothing wrong at all!

“Can we just cancel class and have a sit down and talk about life for a while?”

-Dr. Jones

“I love being sick, you don’t even know who you are anymore.”

-Dr. Grimaldi

Or is it?

We only use the latest of real horoscoping technology here on the SideFlip. We determine your future and past by throwing fin-als out the window and sobbing qui-etly into our pillows. We hope that you find our process to be accurate and scientific.

ARIES: The difference between “Girlfriend” and “Girl Friend” is that little space in between we call the “Friend Zone”.

TAURUS: Hospitality: making your guests feel like they’re at home, even if you wish they were.

GEMINI: A recent study has found that women who carry a little extra weight live longer than the men who mention it.

CANCER: Intelligence is like underwear. It is important that you have it, but not necessary that you show it off.

LEO: Alcohol is a perfect solvent: it dissolves marriages, fami-lies and careers. Think before you drink.

VIRGO: The 50–50–90 rule: anytime you have a 50–50 chance of getting something right, there’s a 90% probability you’ll get it wrong.

“Can we just cancel class and have a sit down and talk about life for a while?”

-Dr. Jones

“I love being sick, you don’t even know who you are anymore.”

-Dr. Grimaldi

Or is it?

Top 10 Ways to Decline a Job Offer

1. Be a civil and literally burn a bridge
2. Send a life-sized Trump cutout saying “You’re Fired”
3. Land a giant middle finger on a SpaceX Barge
4. Tell them your real GPA
5. Unfriend them on LinkedIn
6. Ghost them on all social media
7. Send a 3D copy of yourself
8. Text your recruiter, “Plz no Jaab”
9. Tell them your mom said “no”
10. Just Say No
11. It’s not you, it’s me
12. Send a selfie of you at the other company
13. Send the Communist Manifesto and rant about the oppressed proletariat

Fact of the Week

On January 1, 1907, Theodore Roosevelt shook the hands of 8,510 people, setting a world record he held for over 70 years.

WACKY PROF QUOTES

“Nope, Dr. Grimaldi is just hang-ing in there. I got this great cough medicine at home, but you’re not allowed to bring brandy on cam-pus…”

-Dr. Grimaldi

“Can we just cancel class and have a sit down and talk about life for a while?”

-Dr. Jones 42, there talk’s done.

“I love being sick, you don’t even know who you are anymore.”

-Dr. Grimaldi

Or is it?

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