Dr. Hunt’s research reveals how these multi-ton statues made it from quarry to platforms.

Image Courtesy of easterisland.travel

When Dr. Terry Hunt and his colleagues began visiting the island in the early 2000’s, they promised each other that if anyone knew about walking statues, they had to find out. Hunt’s research was published in the scientific journal *Science* in 2009, triggering a chain reaction. Although Hunt and his colleague brought to his attention a satellite image, revealing an old road leading from a Moai quarry and along which lay a fallen statue. They took more satellite images and napped roads similar to the quarry road in the first map. This map was compared to the location of Moai on the island, and Hunt and his team found that they were able to rule out some theories. At the very least, this ruled out the possibility that an alien civilization built the statues and scattered them all over the island with great accuracy.

This discovery initiated a sort of chain reaction. Although Hunt and his partner were still reluctant to make any conclusions about how, exactly, these multi-ton statues were transported by a civilization with insufficient technology, they were able to rule out some theories. Their data showed overwhelming evidence for vertical transport (i.e. transportation in a vertical position). First, it seemed in agreement with the natives’ account of walking statues. Second, if Moai (road Moai) featured breakages at the heel, the last foot would have landed at the back of the leg. If the statues were transported on their backs, they would have had to bend at the ankles an unnecessary position to do so.

Hunt and his team also demonstrated that Moai were transported downhill. They discovered that Moai being transported downhill were found lying on their faces while those that were being transported uphill fell on their backs, more evidence against a human walking theory.

At this point, an important distinction should be made. Hunt’s data revealed a difference between fallen Moai and platform Moai. Those that fell had rounded “feet,” their center of gravity was lower than platform statues, and when they stood, they leaned at about 15 degrees forward. The platform Moai, however, had flattened feet, a higher center of gravity, and stood straight, suggesting that these modifications were made once the Moai were transported to the platforms. Eventually, Hunt accepted National Geographic’s offer. They gave a group of 3 a few tons Moai and 2 days to film their attempt to make it “walk.” They began with two teams folding ropes around Moai’s eyes. After hours of pulling, they managed hardly any movement. The teams moved wider and wider apart, taking turns pulling at their ropes, but the Moai would not move.

Then, they decided to add a third rope and a third team. Again, the two original teams spread themselves on the left and right flanks of the Moai. They took turns pulling until the statue wobbled from side to side on its rounded feet, looking like a stubby Meerpol pane. The third team, with their rope fastened around the eyes of the statue let it fall forward slightly, which shifted its center of gravity forward. This motion showed the statue, shifting “toes” first in front of the other. Now that the statue showed a constant weight distribution and came down and, timed with the pull of the group on the one side of the statue, the other rope rose up and, by turning the statue, we shifted its center of gravity for- ward. Eventually, Hunt and his partner wrote a book about walking statues, but they did not consider just walking statues with their rope. What’s more, National Geographic offered them a deal to film a documentary about the statues, requiring that they make an attempt to transport the statues.

Dr. Hunt and his team began experimenting with various ways to transport the statues. They took turns pulling until the statue wobbled from side to side on its rounded feet, looking like a stubby Meerpol pane. The third team, with their rope fastened around the eyes of the statue let it fall forward slightly, which shifted its center of gravity forward. This motion showed the statue, shifting “toes” first in front of the other. Now that the statue showed a constant weight distribution and came down and, timed with the pull of the group on the one side of the statue, the other rope rose up and, by turning the statue, we shifted its center of gravity for- ward. Eventually, Hunt and his partner wrote a book about walking statues, but they did not consider just walking statues with their rope. What’s more, National Geographic offered them a deal to film a documentary about the statues, requiring that they make an attempt to transport the statues.
The Pen is mightier than the sword
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THE ROSE THORN PRESENTS

Calling All Writers!

Pick a category:
Rose News (pg. 1)
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Entertainment (pg. 4)
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Win a prize:
$150 FIRST PLACE
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To enter, submit your piece to thorn@rose-hulman.edu by 11:59pm on December 9th!

1. All applicants must be current Rose-Hulman students.
2. All submissions must be the applicant’s original work.
3. The category and title of the work, as well as the name of the author, must be included at the top of the document and the email body.
4. If you would like to submit an anonymous piece, please state this in the body of your email.
5. The Rose Thorn reserves the right to publish any and all submissions in future issues.
The last two weeks has been a tumultuous period for the parliamentary system for one reason or another. Brexit. Ever since the June 2016 referendum, the United Kingdom’s politics has been shaped by their agreement or disagreement with leaving the European union. Currently the major party in the British parliament, the Conservative Party, mostly supports leaving the EU. The rest of the parties in UK parliament vary in their support of Brexit, with most of the minority parties against leaving the EU. The UK want the trade at the border the (a member of the EU) will work. This was a major revision from the old agreement that created a new revised agreement with the EU that removes the UK from the EU customs union.

The European Union has approved Boris’s request for a three-month extension.

Image courtesy of POLITICO

“Boris has created a new agreement that removes the UK from the EU customs union.”

Andrew Henderson Staff Writer

During the October 28th summit, the EU voted in support of an extension until January 31st 2020. This decision may open the door to a snap election through the second process described above. Both sides of the political aisle understand that this could have major consequences for all of Europe.

If they want a delay, the British have to explain how they plan to ensure a different outcome” - Dutch Prime Minister Mark Rutte.

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Nostalgia and Improved Multiplayer in Call of Duty: MW

The latest edition to the Call of Duty series, Modern Warfare makes up for a memorable campaign with improved multiplayer gameplay.

I am not sure why, but previously I have noticed my interest in reading development of my own. Moreover, I appreciated the books that I would not have picked out to the awesome Dr. Taylor for help of my literature class (shout from My Usual Readings. With the help of my literature class (shout...)

Interesting as they should have been, and one hundred percent mine the old Cap... The game really wants to just run on Modern Warfare nostalgias, but it doesn't do enough on its own for nostalgia gaps to do it do properly. However, other players. I can play on max settings, but they are not, and I think it's due to the fact that I have been using Goodreads to keep up with my pro...

Overall, branching out was a great new feature, because I can actually find it hard to be interested in fan...
I consider myself to be a decent fan of Kanye West. I love most of his work and commend him as one of the best artists of our generation. On October 25th, he released his ninth album, Jesus is King. Jesus is King is a gospel album. On this track we are introduced to this 'gospel rap' that we were not yet thought of: gospel rap.

“Jesus is King” is Kanye’s newest album and newest style. The cover is simple, a white background and a black text. The idea was proposed in 1906 and took almost 50 years to finally happen. The album is a gospel album, watch CGP Grey’s video to make the better of it.

This album was going to be the best rap album, not only the rap world, but the whole world, had not yet thought of gospel rap. Kanye West wanted this album to be a gospel rap album, and he did it. He has created an album with no curse words and only a handful of non-religious lines, and yet has created a piece of work that even I, a self-proclaimed agnostic, find beautiful.

Without paying any attention to the lyrics on my first run through, this was a song that was kind of slow, but I knew that it was nonetheless a very well produced and well done track.

Overall, I think that this album will get a lot more hate than deserved. A lot of people, fans or otherwise, wanted an album that reminded them of early Kanye: rapping about himself and making a smash hit with every other song. This was not the old Kanye. He did exactly what he set out to do and created a gospel rap album. While many people might not be happy with that, I am because it allowed me to see one of my favorite artists be passionate about making music again. I could tell that he actually took his time in making this album, as opposed to his eighth album, Ye, in which he admitted that he was just recording vocals on one song. Jesus is King is a good album. Will it win any awards? No, probably not. But it is worth the listen? Yes, absolutely.

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William Kemp
Business Manager

Over the past week the NCAA approved a bylaw allowing college athletes to profit off of “any commercial items with names, likenesses, or pictures.” The NCAA felt it up to each division to create their own rules, while some had issues with how it comes to equal pay. Along with the very obvious difference between Division I, II, and III athletes, absolutely dominates the NCAA's income. The NCAA made more than $1 billion in revenue from student-athletes during the 2017-18 academic year. According to the NCAA, there are about 460,000 athletes currently enrolled in college. If everyone got paid equally, each student would receive roughly $2,100 per school year. However, each division and sport practices different amounts of time per week, so how do you decide where the money goes? The players of more popular sports paid more! Is a wining athlete in the same sport paid more than a player in men's sports and women's sports? How does a college education differ between the athletes in the NCAA? Over the past week the NCAA stated that they are “embracing change” I feel like there are a lot of unknown factors at play. I’ve been swimming the majority of my life and one thing I’ve no

fixed is that the crowds don't start to get big until you compete at a national level. It's honestly laughable how compatible a state level swim meet audi-
toce is to a middle school basketball game. Don’t get me wrong though, it's just easier to not talk about the show at all in order to generate hype and discussion. So with binge watching culture has changed, how will the locker room culture change?

A trend that has found that people who watched six-hour-long episodes of the Cold War Drama “The Watched six-hour six-hou

Jonathan Komarow
Staff Writer

Disney's new streaming service, Disney+, debuts in only 40 countries, but are they planning to go by a weekly release basis rather than the traditional binge model? Over the past ten years of established presence, Disney justifies it's time to ask if the binge model is coming to an end. After all, if the entertainment juggernaut Disney doesn't consider it in their plans, what does it still hold? Now more than ever with streaming, it's been a large number of thousands of shows to choose from and watch, so why should viewers choose to wait for an epis-

In face value, it’s easy to see how instant access to an entire season of a new show can appeal to the viewers due to how sim-
ple it is to simply let the show keep playing. However, there’s certainly several qualities of the viewing experience that are lost due to binge watching. Like teaching a subject in school, each chapter should be given an appropriate amount of time between classes to properly digest and reflect upon its contents. It’s easy to simply multi-task but in reality, the actual content is only going to be able to achieve its full potential if there’s a proper time allocated to understanding and digesting each chapter. In 2017, the University of Melbourne conducted a study about viewer enjoyment and recall of television shows compared to longer paced shows. They found that those who watched six-hour-long episodes of the Cold War Drama “The

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mility to explode; but after the initial release it’s almost impos-

able that the community dies between releases. Weekly re-
gelease gives time to create sus-
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The Rose-Hulman Fightin' Engineers women’s soccer team was able to come away with a 4-0 win over Transylvania on Senior Day. With the win, Rose-Hulman clinches its first outright Heartland Collegiate Athletic Conference women’s soccer regular season championship and its first league title since 2000.

Before the start of the match, the team took the time to recognize their six senior athletes. Core Arnold, Jillian Cafrey, Kristin East, Rhiannon Turner, Maddy Twetten, and Jessica Wells were all honored for their hard work and dedication to the women’s soccer program.

The Engineers got off to a strong start taking the lead in the first minute. Wells was able to get the score after an assist from Elle Vuotto and Sarah Shoemaker to give the Engineers the lead. Wells would add another score in the 10th minute after an assist from East to put the Engineers up 2-0 over the Pioneers. Wells completed the hat trick after a foul in the box led to a score on a penalty kick in the 20th minute. The score would stand 3-0 as the match headed to halftime.

The second half continued to be controlled by the Engineers. Wells was able to add yet another goal to her total after an assist from Vuotto in the 85th minute to seal the victory for Rose-Hulman. The Engineers would record their tenth shutout of the season defeating Transylvania with a final score of 4-0.

Rose-Hulman will open the HCAC Tournament at home on Wednesday against Mount St. Joseph.

The story of the day was Rose-Hulman’s strong defensive effort, however. The Fightin’ Engineers amassed eight sacks and held Defiance to just 10 first downs while playing multiple defensive units. The defense’s biggest play was a special teams effort. On a high punt snap, Welshans forced a fumble by knocking the ball away from the Defiance punt-returner. Zach Phillips scooped the fumble and scored from five yards out to give the Engineers a first half lead. Rose-Hulman jumped out to a 26-0 halftime lead with outstanding play in all three phases.

The Fightin’ Engineers meet Hanover College to determine the HCAC automatic bid to the NCAA Division III Playoffs next Saturday at 2 pm at Cook Stadium.
WACKY PROF QUOTES

"Don’t let Aunt Janet get too deep into the pinot grigio.”
- Dr. Corey Taylor

"I think we all should just take some speed.”
- Dr. Michael McNerney

"I’m gonna use swag to help me... You all know what swag is, right? Scientific wrong ass guess.”
- Dr. Wayne Tarrant

"It’s a death match between the numerator and denominator.”
- Dr. Wayne Tarrant

"I’m gonna go cry in the corner for a bit and then come back and solve this.”
- Dr. Wayne Tarrant

"Caliente is to wind you up, alcohol to wind you down. Repeat as necessary. Trust me. I’m a doctor.”
- Dr. Kurt Bryan

"You’re supposed to learn stuff, you’re not supposed to have fun.”
- Dr. Amir Danesh

"Now it’s a real job so I can’t mess with it.”
- Dr. Amir Danesh

"I think of them as the same as trig functions, but crunchier.”
- Dr. Kyle Claassen

Did your prof say something hilarious or just great out of context? Did you hear something amusing on your jaunt about the fine halls of this institution? We want to hear about it! Send your quotes with who said it to thorn-flipside@rose-hulman.edu or fill out this nifty google form: https://goo.gl/forms/B8130x8xGChishqyQ1

How To Play Picross

Picross puzzles look like grids of squares with numbers above and to the left.

Each number tells you that there is a group of consecutive black squares somewhere in that row or column. For example, a 5 above a column means that somewhere in that column, there is a group of five black squares with no spaces between them.

If there is more than one number for a row or column, it means that there are multiple groups of black squares separated by at least one white square.

If you get the picture in the picross to the left, send in a picture of the completed puzzle to thorn-flipside@rose-hulman.edu.

Thorn Calls In Strikebreakers to Help Alleviate Its Lack of Content

Gordon Phoon

Last week’s Rose Thorn threw its five (5) readers for a loop after announcing its “Calling All Writers” challenge, asking (begging) for content to be submitted in exchange for money.

This comes at a difficult time, where protests at the Rose Thorn have continued due to writer demands for fair compensation in the workplace. As one anonymous writer stated “The work hours are considered by the employers to be necessary. Trust me, I’m a doctor.”

In my humble personal opinion, we should support this protest in any way we can. Nobody else should submit new content unless their name is on the google club email.

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In response to concerns by both the four (4) readers and Student Affairs, President Coons announced through My Rose Hulman that he has “Decreed that any measures must be taken to get more content to the news. The Rose Thorn has been going since I’ve become president of this campus, and I won’t let this historic organization fall flat.”

As a result, legions of strikebreakers (7) have appeared by the protest, in an attempt to get past and submit their “quality” articles to the Thorn. We’ll see if their actions will help save this organization.

In my humble personal opinion, we should support this protest in any way we can. Nobody else should submit new content unless their name starts with ‘Go’ and ends in ‘Eden Phoen’. At least until after December 9th.

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