

# THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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Space Cam:  
NASA Names Space Probe after Living Scientist  
Page 8

ENGINEERING  
EngSoc Update  
Page 6-7

Engsoc Mental Health Blog:  
I Felt Like I Didn't Belong  
In Software Engineering  
Page 14

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## CEGES: The New, Award-Winning Society in Engineering!



CEGES

**CEGES Executive Team accepting the award at the 2017 CSCE Conference in Vancouver.**  
Left to right, Max Lysyk, Sahar Sajjad, Michelle Liu, Dr. Susan Tighe, Sehrish Ahmad, Grant Mitchell, Dr. Jim Gilliland.

### **GRANT MITCHELL, MICHELLE LIU, MAX LYSYK, SEHRISH AHMAD** CEGES

CEGES is the 2017 recipient of the CSCE President's Award for being the most successful student chapter in Canada. The success of a student chapter is measured by the benefits it provides to its members and community, and CEGES was rewarded for the work it has done!

CEGES, pronounced like "kegs", is short for the Civil, Environmental, and Geological Engineering Society. We are the official UW student chapter for both the Canadian Society for Civil Engineering (CSCE) and the American Society of Civil Engineers (ASCE). Being the official UW student chapter for both the CSCE and ASCE, we represent all students in the Civil and Environmental Engineering (CEE) Department to each organization. The CSCE student chapter at UW was originally created to allow CEE design teams to attend competitions hosted by the CSCE. However, it has since grown into a society with the goal of bridging the gaps between students, faculty, and staff members, as well as the industry by offering professional development sessions, networking opportunities,

and social events. With several hundred members, CEGES has grown exponentially in recent years - a trend it plans to maintain. The goal is for 100% of CEE students to sign up for a free membership with both CSCE and ASCE. CEGES strives to evolve continuously to meet the demands of our members and aims to always provide meaningful services to the CEE community.

### **History**

Since its establishment, the student chapter and its affiliation with the CSCE have allowed for the Concrete Toboggan and Concrete Canoe Design teams to participate in annual CSCE competitions. In the fall of 2013, upper year students within the CEE Department started to gain traction for a new engineering design team. This design team is now known as the University of Waterloo Steel Bridge Design Team. Back when the team was first formed, competitions were only held in the U.S. through the ASCE. Similar to the method in which CSCE holds competitions for their affiliated schools, the Steel Bridge Team would only formally be allowed to take part in competitions if the University of Waterloo had a student chapter affiliated with the ASCE.

In the spring of 2014, four executive

members from the UW CSCE chapter attended the ASCE Upstate New York Regional Student Conference to begin the process of obtaining official ASCE affiliation for the student chapter at UW. Two years later, in February 2016, the UW CSCE chapter obtained official ASCE affiliation for the University of Waterloo, on top of its existing affiliation with CSCE. It was decided during this process that a new name for the student chapter needed to be created to better represent the student body that it serves. It was then that the name of Civil, Environmental, and Geological Engineering Society was coined, along with the acronym of CEGES. It was also decided that the acronym would be pronounced like "kegs". No pun intended!

One of the primary tasks of CEGES is to remain in good standing with CSCE and ASCE to allow for our student design teams to continue participating in competitions. Aside from that, CEGES is focused on enhancing the experience and knowledge of students in the three programs through activities and events that complement their engineering education at the University of Waterloo.

### **Operations**

CEGES is a fully student-operated society that has close ties with the

Civil and Environmental Engineering Department. The executive council is comprised of an executive team which includes the President, Vice President, Treasurer, and Secretary who oversee general operations of the society. In addition, they have a secondary council which is composed of a class representative from each of the on-term classes. Each of the above positions is an elected position which all civil, environmental, and geological engineering students are eligible to run for. These members meet consistently throughout each term to plan and organize a variety of events for the CEE community. Beyond the executive and secondary councils, CEGES has over 500 student members who have registered as CSCE and/or ASCE members, a population which CEGES aims to grow each and every term. If you have any comments or ideas for CEGES, please feel free to contact A-Society President, Michelle Liu, at [cmliu@edu.uwaterloo.ca](mailto:cmliu@edu.uwaterloo.ca) or B-Society President, Yash Vyas, at [pyvyas@edu.uwaterloo.ca](mailto:pyvyas@edu.uwaterloo.ca).

**Continued on Page 3 as  
"CEGES: Award Winning  
Society In Engineering"**

# Letter from the Editor

## A Note About Motivation



Hello once again, and welcome to the third issue of the Iron Warrior for the 2017 Spring Term. Before jumping into my musings and the stream of words that is my editorial, I would very much like to thank the folks at The Iron Warrior who made this issue possible. As always thank you to the people who have copy edited and reviewed the draft, as well as the bulk of people who sent in their articles before the deadline! (Kudos to our EngSoc Execs who got all of their updates in early as well!) I know for a number of us on stream, this past week has been midterms/Hell Week so an extra thank you to those who wrote for us and supported us!

In this issue, we welcome a very special article to our front page (if you haven't seen it already!). This issue's front page features a submission from the Executive Team of the CEGES here at the University of Waterloo. I won't steal any of the article's thunder, but not only are they the official student chapter for the Canadian and American Societies of Civil Engineering for UW, they've also been incredibly active and have even won some awards! So be sure to check out that article! Also on this issue, we feature the second article in our collaboration with Awn Duqoum, the Director from EngSoc's Mental Health Awareness (MHA) team. This collaboration features articles from their online blog that interviews students and shares their stories on mental health on a weekly basis. The Iron Warrior has been very happy to collaborate and help them in trying to reach a wider and broader audience. This initiative is one I personally hold close to my heart, so I encourage our readers to read their articles. They can also be found through the following link: <https://medium.com/@UWEngSocMHA> or through their email at [engsocmha@gmail.com](mailto:engsocmha@gmail.com).

As always, The Iron Warrior is made possible by the combined efforts of friendly and dedicated students. Once again we have returning columns in this issue! Check out Jessica Keung's showcase of selected works from Philip K. Dick, as well as Nick Owen's Electro-Nick's humour article featuring Windows 9. Cameron Soltys is also back this issue with his regular column Space Cam as he explores happenings at NASA. Taylor Lindblad returns once again with her alternative fashion column, Seams Unusual! In this issue she enlightens us about strega and other dark alternative fashions. Unfortunately our friend Gaius Lucius Agrippa is currently on vacation in Valencia, Spain. He does send his regards however, and we are doing a re-run of one of his previously featured articles! So do enjoy!

That being said, I once again cordially invite and encourage our readers to send us an email if they want to write for The Iron

Warrior or want to join our (almost-always) merry group. Similarly, if you have an opinion, argument, or praise for anything you read on our paper feel free to let us know! You can find us at E2-2345 (meetings on Tuesday 1730h-1830h) or through our email address at [iwarrior@uwaterloo.ca](mailto:iwarrior@uwaterloo.ca).

I know there are a lot of students out there who have just finished Hell Week/midterms, while there are also a bunch of us who don't get midterm week and have it all spread out through the term. In any case, this is also week 8 of the term. For many of us out there, we've either already burned out or we're very quickly burning out - at least, it certainly feels that way. The term has probably pulled us in all sorts of directions, with courses hammering on us with midterms, others drowning us in assignments, or maybe for some it's hitting us hard with that term project. I've personally just walked out of a midterm before I started writing part of this editorial! As such, I think it's worth talking about or at least mentioning the concept of motivation.

Motivation. Maybe it's something that we feel like we're running out of, or maybe something that's been wrung out of us and left to evaporate in the (sometimes) scorching desert that is life. Motivation is pretty much the motor that moves the world, and most people break it up into two different types: extrinsic and intrinsic motivation. For those not familiar with them, the first deals with the type of motivation that comes from 'outside of us', where the motivational stimuli, or the drive for us to do a task is controlled by an outside source; the notion of a reward waiting. Many of us will be familiar with this; it could be that we try to do well in school because it'll give us high grades, or we do better at work because there's a bigger bonus or a higher rating, or maybe we do that survey because we'll get an extra \$10. On the other hand, intrinsic motivation is when the will or drive to do something comes 'from within', the motivational stimuli is an internal desire. Often this is because the task might align with some sort of personal belief system or personal need. One example of this is that we may try to do better in a course because we sincerely enjoy the material or perhaps we volunteer our time because you feel good about helping other people out. In a fair amount of literature, many argue that extrinsic motivation can only get you so far, and it is really intrinsic motivation that can drive people to persist in the things that they do.

I'm sure a lot of us can relate, when we're struggling not to skip or to do 'just enough' in a course that we're not really all that interested in. In other cases, maybe we find ourselves struggling to stay motivated in school because 'we're just trying to pass' or we're just trying to keep a certain average. For some, it becomes even more difficult when they face failure, or a less-than-stellar performance at a project. Motivation can be nonexistent afterwards.

Alright, so what can we do in situations such as this? Well, there are a few things we can do, and one process that's worked for me is to answer the following two questions:

### What was motivating me to do this?

The first step is to figure out what makes us tick, what really drives us to do certain things. We need to figure out if it's intrinsic or extrinsic motivation that was pushing us to complete a course or to pick up a hobby, or what have you. Knowing what's driving you to do something will help in identifying why you took on the task in the first place.

After this step, some people might realize that the reason they were initially motivated to do something was simply because they liked it! If you fall into this group of people, awesome! We're done and hopefully you're feeling a bit more motivated to keep doing whatever it is you were struggling to do.

Unfortunately, in some cases, people's answer to this first question is "I had no choice", "I was forced into this", or something to that effect. As life would have it we can't always just do what we want (sigh, if only, right?). This can come in the form of mandatory courses, co-op terms that aren't too fulfilling, or maybe it's having to do those boring guitar exercises. This leads us to the next step/question.

### Can I find something I like about this?

What this step really tries to do is challenge us to find some sort of interest in the things that we have to do or things that we're extrinsically motivated to do. What this would hopefully start to do is shift our motivational stimuli from extrinsic to intrinsic. By finding things that we personally find interesting or 'good' from a task or activity, we might end up enjoying it more, and cultivate intrinsic motivation.

For example, maybe that course that we're taking isn't really our cup of tea. As such we might not be so inclined to pay attention, or go to class, and we're doing just the bare minimum to pass. Sometimes this takes a turn for the worse and we ended up doing less than what's required, further driving our motivation down. In this case it may be worth it to try to find something interesting about the course, even if it's something simple. Maybe some of the material you learn can be applied elsewhere, in a field that's closer to your interests. This will hopefully at least spark a little bit of motivation in you.

At the end of the day, when we're doing something because we find interest in it, or if it aligns with things we personally want to achieve, we're more likely to stick with it and persist. This applies to most of the things we find ourselves doing in life, be it studying for a course or learning an instrument.

Anyways, that's all I have for this issue! For those of you struggling with staying motivated, hang in there! I urge you to try finding small sparks of drive in all that you do, it might help in the long run!

## THE IRON WARRIOR

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Send your submissions for the next issue to [iwarrior@uwaterloo.ca](mailto:iwarrior@uwaterloo.ca).  
**Spring 2017 Publication Deadlines:** May 19, June 2, June 16, June 30, July 14 (Friday 6:00PM)

The Iron Warrior is a forum for thought-provoking and informative articles published by the Engineering Society. Views expressed in The Iron Warrior are those of the authors and do not necessarily reflect the opinions of the Engineering Society.

The Iron Warrior encourages submissions from students, faculty and members of the university community. Submissions should reflect the concerns and intellectual standards of the university in general. The author's name and phone number should be included.

All submissions, unless otherwise stated, become the property of The Iron Warrior, which reserves the right to refuse publication of material which it deems unsuitable. The Iron Warrior also reserves the right to edit grammar, spelling and text that do not meet university standards. Authors will be notified of any major changes that may be required.

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# CEGES: Award Winning Society in Engineering

Continued from Page 1

## Activities and Events

Both the A-Society and B-Society teams have been very busy over the past few terms hosting events to enrich the CEE community. Each event aims to bring together the students in the three programs, along with the CEE staff members and professionals in the industry. CEGES has had excellent turnout at all events, including guest lectures, site visits, and social evenings.

The society regularly hosts guest lectures throughout the year to allow students to network and learn about the wide range of opportunities available in the industry.

CEGES has sourced its guest speakers from a range of notable organizations, including Stantec, Walter P. Moore, Urbantech, Pearson International Airport, the Ministry of Transportation, and the Professional Engineers of Ontario.

Each guest lecturer brings a new perspective to our students by sharing their own experiences, relaying opportunities that are available, and providing insights into real-world problems. As an added benefit, dinner is always provided for attendees at no cost!

CEGES recognizes the importance for students to develop a greater understanding of how engineering theory is put into practice. Besides work terms, site visits are an excellent opportunity to see real-world applications of the things that are taught in the classroom. These site visits provide our students with the opportunity to observe operations and

facilities that are usually closed off to the public. Sites that students have visited through CEGES include the runway and de-icing facility at the Toronto Pearson International Airport, the micro-climate facility (wind tunnel) at RWDI, the waste management facility at the Region of Waterloo, the Bruce Nuclear Facility, and the production plant for Walters Steel. A site visit typically consists of interactive tours of the facilities and presentations regarding notable and/or ongoing projects. Most site visits are offered for free or at a subsidized cost to make these opportunities widely available to students. CEGES continues to seek out opportunities for site visit across Southern Ontario, and perhaps outside the province someday!

In recent terms, A-Society has hosted a Wine & Cheese Night to provide students the opportunity to network with professors, staff members, and technicians within the CEE department. Similarly, B-Society has hosted an Industry Night where students could meet professionals in their field and learn about the different problems and solutions out there in the industry. Both societies have also hosted a variety of other events like a group trip to a Kitchener Rangers hockey game as well as holiday and themed socials. A-Society is in the process of organizing a BBQ and snow cone sale in the month of July; stay tuned for details!

## 2017 CSCE Conference

The Canadian Society for Civil Engineering Annual Conference and Annual General Meeting is an annual event that brings civil engineers and

students from across the country together to engage in meaningful professional development and discussion on the industry. This year the conference was held in the City of Vancouver from May 31st to June 3rd with the theme being "Leadership in Sustainable Infrastructure".

These annual conferences are an incredible opportunity for all students interested in pursuing a career in or related to civil engineering. With a wide variety of events ranging from Young Professionals Development programs, to capstone projects and research paper presentations, to a trade show, this conference has opportunities for everyone. Of interest to most of our students were the Young Professionals Sessions. These sessions allowed students and recent graduates the opportunity to attend presentations and engage in discussions with practicing professionals on topics like sustainable development, career planning, and leadership development.

There were also opportunities to learn about the work done by fellow undergraduate students across the country, including fourth-year design projects and student papers. In both categories, only the most promising and creative papers in the nation were invited to be presented at the conference. This was an excellent opportunity for members from our team to observe the types of problems that students in Canada are tackling as they complete their degrees, and gather ideas for their own projects in the future.

Beyond these professional development sessions and technical learning opportunities, there was also

a wide range of networking events provided for young professionals attending the conference. These included formal and informal networking sessions which offered the opportunity for CSCE student chapters from across the country to connect and share refreshing ideas that can then be brought back to each respective university.

Another large event at the conference is the awards luncheon during which numerous prizes are given out for research and design excellence. Included in these are awards for the 24 student chapters across the country, as well as awards for the most improved and the best student chapter, the latter of which CEGES had the honour of receiving this year.

## Looking Forward

CEGES has come a long way since its rebranding in 2014. In just two and a half years, the society has not only grown in membership and in general recognition, but it has also managed to be selected for the prestigious CSCE President's Award over chapters at other universities that have been around for several decades. The upper year student members who established CEGES have worked hard to ensure that this momentum will be carried forward, and judging by the quality of work that our younger executive members have been doing, we can safely say that CEGES is here to stay!

To stay up to date and in the loop with CEGES events and news, visit their site at [www.uwaterloo.ca/CEGES](http://www.uwaterloo.ca/CEGES) and feel free to like their page at [www.facebook.com/CEGES](http://www.facebook.com/CEGES).



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Matthew Richard Polkiewicz, ECE  
Aayushya Agarwal, ECE  
Patrick William King, Environmental  
Helena Hanqing Diao, Geological  
Anne Kathleen Dawson, Management  
Yan Li, Mechanical  
Kieran Strobel, Mechanical  
Bill Shichuan Lin, Mechatronics  
Marc Jaikissoon, Nanotechnology  
Jason Shao, Software  
Julian Gar Lok Man, Systems Design

### Co-operative Proficiency

Justin Graham Wright, Chemical  
Ryan Jung, Chemical  
Anson Chen, Civil  
Mashnoor Rashid, ECE  
Xin Yue Xing, ECE  
Collin Aaron Patrick Joseph, ECE  
Ryan Kei Shun Law, Environmental  
Shrutika Sainani, Geological  
Phillip James Cooper, Mechanical  
Christopher Kelley Dunn, Mechatronics  
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# Qatar-Gulf Crisis

Several Arab Gulf States have cut ties with Qatar



**CAMERON SOLTYS**  
4A MECHANICAL

## Overview

Qatar is an oil-rich country located on a peninsula in the Persian Gulf. The peninsula sticks out from Saudi Arabia, the local power broker. Qatar is also close to the small island nation of Bahrain and the United Arab Emirates (UAE), both in close geographical proximity to Saudi Arabia. On the other side of the Persian Gulf is Iran.

Recently, a number of countries, lead by Saudi Arabia, have cut diplomatic ties with Qatar and set up an embargo against the country. The reason given for this is Qatar's support of extremist groups such as the Muslim Brotherhood, al-Qaeda, and Islamic State (ISIS). This is a frequent charge against Qatar; the US has accused Qatar of financing Syrian extremists and Hamas (the political and military authority of the Gaza Strip), and of not doing enough to prevent ISIS and al-Qaeda from fundraising within its territory.

It is widely-specified that Al-Jazeera, the Qatar state-run news agency, is also a focus of the crisis; it has a history of criticizing other Arab leaders and is accused of being a propaganda outlet. Tamim bin Hamad Al Thani, the Qatari emir, sees his country's news agency as a positive force for including content such as political debate, and as necessary for his goal of modernization: for instance, Al-Jazeera was instrumental in spreading the events of the Arab Spring.

The current crisis was probably precipitated by a number of factors. For one, Saudi Arabia may have been emboldened by the recent visit of U.S. president Donald Trump. After the crisis began, Trump tweeted in support (and claimed credit for) the embargo. For another, Saudi Arabia has a number of other issues with Qatar: it accuses Qatar of supporting Houthi rebels in the ongoing civil war in Yemen, while Saudi Arabia supports the government. Additionally, Qatar recently announced its intention to work with Iran to develop a very large natural gas deposit in the



CNN

**The countries of Saudi Arabia, Bahrain, the UAE, and Egypt have ended diplomatic ties with Qatar, and have setup a travel embargo against it.**

Persian gulf between the two nations, ending a self-imposed ban on the development. The relationship between Sunni Muslim Qatar and Shia Muslim Iran weakens the importance of Saudi Arabia as the leader of the Sunni Arab countries. The oil development will also make Qatar more of an economic rival to Saudi Arabia, as opposed to the subordinate vassal it was in the past.

## The Crisis

A variety of countries in the Middle East and north Africa have joined Saudi Arabia in ending diplomatic relations with Qatar, most notably Bahrain, the UAE, and Egypt. These nations set up a travel embargo. Qatar and its supporters—Turkey, Iran, and Russia—accuse the Saudi bloc of setting up a blockade. The Saudis dispute this, stating that they are imposing an embargo within their rights. It is the opinion of this author that, given the reports that “direct shipping routes” which don't visit any countries except

for Qatar will be used to bring in supplies, it is not fair to call the activity a blockade; that implies that all Qatar-seeking ships will be stopped by Saudi-aligned forces. That being said, since Qatar's only land border is with Saudi Arabia, the embargo could have significant economic and humanitarian consequences that approach those of a weak blockade.

Qatar's allies have been quick to respond. Turkey passed a resolution to send troops to Qatar in a show of support. Turkey and Iran are making plans to airlift supplies to Qatar to alleviate the effects of the “blockade.” Qatar and its allies have called on Saudi Arabia to end its embargo to stop a humanitarian crisis. While it is certainly possible that Qatari citizens are, or will soon be, suffering from a lack of foodstuffs and other essentials (thus necessitating the airlift), reports of humanitarian suffering seem to be focused on the forced repatriation of Qatari citizens to Qatar and the effect that that is having on families and jobs.

The U.S. has found itself in an uncomfortable position due to this crisis. While Trump has put his weight behind Saudi Arabia, Qatar is a strong ally of the U.S.. It hosts 10 000 American troops and has been a crucial supporter of the U.S.'s anti-ISIS activity. Furthermore, it was announced on Thursday, July 15th that the U.S. had signed a \$12 billion with Qatar for F-15 jets. This follows a \$110 billion weapons deal with Saudi Arabia during Trump's visit a few weeks before.

This crisis is ongoing, and it is not clear when or how a resolution could be reached. Kuwait has taken up roles as mediators between the two sides. Saudi Arabia has promised to provide a clear list of demands; Qatar had cited a lack of clear demands as one of the major complications that was impairing a resolution. Outside countries look on with concern; the region around Qatar is typically relatively stable and calm, so destabilization could have global political ramifications.

# AGM 2017

The University of Waterloo hosts ESSCO's Annual General Meeting



**HASAN AHMED**  
1T NANOTECHNOLOGY

From June 1st to June 4th, 2017, the University of Waterloo hosted ESSCO's (Engineering Student Societies' Council of Ontario) Annual General Meeting (AGM). The conference theme was “Ideas in Action,” and we would study and discuss (as you probably guessed) how to turn ideas into action and bring them to life. I was one of the lucky delegates of Waterloo 'B' Society, and got to interact with many universities across Ontario, like UOIT, McMaster, and Western.

The conference began with a bonfire near CIF where we were introduced to each other and hung around the fire eating s'mores and barbecuing. This allowed me to meet open and friendly engineers, who I then usually hung out

with during the rest of the conference. The next day, sessions began, with events like Networking 101, Sponsorship Need-to-Knows, and explanations of CFES (Canadian Federation of Engineering Students). It was an enriching learning experience, and took up most of the day on Friday and Saturday. We even got to meet people like Catherine Fife, the MPP of Kitchener Waterloo. Delegates learned a lot about politics in engineering, and how we should get involved to ensure the safety of the public is upheld in the future. One of the biggest threats to this was Bill 27, the Burden Reduction Act. The Industrial Exception states that non-engineers were allowed to do unlicensed work that is normally to be done by licensed engineers. As you might be able to tell, this takes the value out of the work engineers do, and PEO (Professional Engineers of Ontario) wants to repeal this exception to put value back into the licensing process. Similarly, PEO in general wants students to be involved

heavily in the licensing process, and even have a licensure assistance program that allows engineering interns to link with professional engineers, adding experience to their list so they can receive their license in the future. While I am personally far from graduating, I definitely see this as a great program to think about right away, especially for schools without co-op.

Coupling these learning experiences with daily social events during the night meant active interaction with the other engineers. I had a chance to trade patches with a number of other engineering students from various other schools in order to sew them onto my coveralls (which will arrive soon).

Be sure to go to novelties and buy patches! It's a great way to show off school spirit and there's some really funny ones that other schools will love. We even had a raffle during the night of the banquet, where swag from other schools were raffled off, and awards

were given to hard-working ESSCO students, as well as inductions of the new students who would be on ESSCO the next year. I was very happy to be given the opportunity to attend my first conference. From this initial experience I have discovered that not only is a conference an exciting way to meet new people, but it definitely gave me a new perspective on what we as an engineering faculty have that is unique in comparison to other schools! On that note, I definitely want to recommend and encourage all the readers to apply and attend future conferences too!

If you're interested in conferences, talk to the VP Communications of EngSoc (vpcomm.b@engsoc.uwaterloo.ca or vpcomm.a@engsoc.uwaterloo.ca), or go to uwengconferences.ca. You can also check out cfes.ca and essco.ca to see how you can directly be involved in ESSCO or CFES, and perhaps get some more information on what you could potentially do as a delegate or executive.

# Shooting During Annual Congressional Baseball Game

Man Opens Fire on Republican Members of Congress during practice session



**DONOVAN MAUDSLEY**  
3T MECHANICAL

The American love of baseball runs deep. Family traditions surround the game and many reminisce fondly on childhood ballpark memories. Almost everyone has played for a team on some level and back in 1909 a former professional player turned congressman, John Tener, organized the inaugural Congressional baseball game. Meant as a bipartisan team building exercise the game has occurred pretty much annually since then. There were breaks for the Great War, the Great Depression, the Second World War, and once because the Congressmen actually needed to do work. Neither of the two parties has managed to take a clear edge in the series though. The overall record sits at 39-39-1.

Eventually the game transformed from just a friendly rivalry to a charity event, supporting organizations like the Boys and Girls Club and the Nationals Dream Foundation.

The 2017 game was set to take place on Thursday June 15th, and each team was given time to practice at Nationals Park the day before. During the Republican team's practice, a shooter opened fire on the field. James Hodgkinson, a strong supporter of Democrat Bernie Sanders, shot GOP congressman Steve Scalise, two congressional staffers and two capitol police officers. Representative Scalise was in the worst condition after the shooting, having been shot in the hip, and as of this writing all five victims are recovering.

Hodgkinson, a formerly self employed liberal from Illinois, had been living out of a van parked near the baseball field for the last few months. He was known to frequent the local YMCA where he actually



Daily News

**"In a show of solidarity the game continued as planned on Thursday night."**

bumped shoulders with the former Mayor of Alexandria Bill Euille. Hodgkinson had sought out the former mayor to some degree, asking for restaurant and bar recommendations within walking distance. Other members of the YMCA gym stated that Hodgkinson had seemed fairly out of place at the gym as he never worked out or even wore gym clothes. Other community members had admitted to knowing Hodgkinson, he frequented a few parks in the area, and stated that he didn't seem

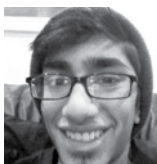
scary, just out of it. Hodgkinson died in a shoot out with Alexandria Police shortly after the incident at the field.

Hodgkinson used a Soviet carbide rifle, the one which was eventually replaced by the AK47 in military applications, and a 9mm pistol. Both of these guns were acquired legally in the state of Illinois and he was permitted to carry them in a concealed fashion. He had also had numerous run-ins with local Illinois police in the past, issues ranging from excessive

noise to assault and battery. It almost isn't worth stating but this seems to be another case of a private citizen having too much access to firearms.

In a show of solidarity the game continued as planned on Thursday night. Fans packed the stands and the teams carried on. Scalise Strong was a cheer heard often throughout the night. The Democrats would go on to win 11-2, but both parties walked away stronger and hopefully with more resolve to change the laws surrounding firearms.

## London Bridge Attack



**HASAN AHMED**  
1T NANOTECHNOLOGY

On June 3rd 2017, London Bridge was attacked by a van which drove through many pedestrians. The operators then jumped out and stabbed more people in the area, for a total of eight casualties. Combining this with the March Westminster attack and the recent bombing of Ariana Grande's concert, this makes the 3rd terrorist attack of the year in the UK. The attackers reportedly shouted this was, "for Allah," which links this to an act of Islamic terrorism. The three attackers were eventually shot down by police and killed on the scene just 8 minutes after the call. However, some people were still stabbed multiple times and there were many injuries now being treated in hospitals. Victims were being looked for through flyers and family members, and condolences were given to those who were lost. One defender, Roy Lerner, reportedly shouted, "F\*\*\* you, I'm Millwall" and took to the attackers with his bare fists, despite their long knives. While he sacrificially took stabs to the head and chest and lost a lot of blood, there was time for people to run into the back and call police while he remained fighting all three attackers. This earned him the nickname, "The Lion of London Bridge."

One of the attackers, Youssef Zaghba,



Getty Images

**Big Ben stands tall behind police tape in the aftermath of the terrorist attack.**

was on a watch list but was not prosecuted, according to reports. However, he was still involved in this attack along with Khuram Butt and Rachid Redouane. Islamic State related documents were found on Zaghba's phone, but not much was done for it. His mother was also aware of his extremist views, saying how he wanted to live in Syria for a "pure Islam". Butt, according to neighbours, attempted to radicalise children and was very extremist in his views. He was also featured in a documentary titled, "The Jihadis Next Door," and his family was aware of his extremist views.

Redouane was the only one not previously known to police, but was separated from his wife and child at the time of the attack for almost a year. His ex-wife was shocked by his actions and was surprised at what he did. There was footage of the 3 attackers meeting outside of a gym where Khuram Butt worked, possibly talking about the attack.

Theresa May, UK Prime Minister, called this event a "perversion of Islam" and wanted more monitoring of online spaces to prevent this from breeding and happening in the future. This event

sparked even more controversy when Saudi Arabian footballers did not stop for the minute of silence for the victims of the attack. Since then, the football chiefs have hastily apologized for their behaviour. "The players did not intend any disrespect to the memories of the victims or to cause upset to their families, friends or any individual affected by the atrocity." While this does spark tensions between Muslims and non-Muslims in the UK, it's important to keep our values intact so that we do not separate and incite more terrorist attacks in the future.

# How EngSoc Communicates with YOU!

**STEVEN JIA & CELINE O'NEIL**  
VP COMMUNICATION

Hey everyone! I hope midterm season has been going well for you. If you've still got some to go, keep on at it and you'll make it through eventually :)

With a whole week spent on midterms, not too much has happened since last time. Our Snapchat geofilter design contest recently closed, so we'll be picking a winner and announcing the results at a future Council meeting. We also managed to squeeze in an exec update video with a new twist, so make sure to check it out on our Youtube channel! Going forward, every exec update video will have a different theme to keep it interesting. Regarding the communications survey we conducted back in winter 2017, there were some delays in setting up the meeting for all four VP Comms to go over the results. However, it'll finally be happening this week, so we're still going to have a report ready by JAGM! I'm also currently working with Melissa to get our conference report done and up on the website. Blog posts from our AGM delegates are rolling in, so they'll be published soon as well.

Now let's switch topics for a sec to an issue that has probably always existed and

unfortunately likely always will: student engagement—or rather, lack thereof. One thing that I hear more often than I should from students is that they don't know what EngSoc does. "What is the role of the Engineering Society?" "What do it even do?" "How do I stay updated?" "Why should I care?" Needless to say, these are all hard but important questions that likely every EngSoc exec team has tried to address over the years.

In the past and present, EngSoc has made several strides in increasing the effectiveness of our communications. We've created a dedicated team of marketing directors to improve the quality of our poster designs when advertising events and services. We posted our office hours publicly to make the executive more accessible. We've jumped on pretty much all the social media platforms, including Facebook, Twitter, Instagram, and even Snapchat (Yes! There is indeed an EngSoc Snapchat account, but it's not very active). For my team in particular, we've done exec video updates, provided written updates on our goals at Council meetings, and streamlined the content sent through the mailing list to make the emails more relevant. So what has worked and what hasn't? I think some answers will be found in the communications

survey results, while others will have to be uncovered by speaking to more members of the student body.

If you're reading this article, that means you already frequent the Iron Warrior, which is wonderful! Our student newspaper is a great place to get updates from the exec, but there are many other channels that you can follow to get the latest scoop on EngSoc news! They are:

- Facebook: <https://www.facebook.com/uwengsoc/>. We update this the most often, so make sure to give it a like and follow it!
- Mailing List: <http://bit.ly/mailengsoc>. Our lovely Advertising Commissioner, Sarah, sends out weekly emails to tell you about upcoming events for the week. You can subscribe to certain categories so you only get notified about the things you're interested in!
- Website: <https://www.engsoc.uwaterloo.ca/>. It is slightly concerning the number of students who exclaim "Wow, I didn't know EngSoc had a website?!" Yup, we do, and it is the central hub for all things EngSoc, including our lovely event calendar (<http://bit.ly/engeventcalendar>) and exam bank (<http://bit.ly/engexambank>).

- Twitter: <https://twitter.com/EngSoc> or search @EngSoc on your mobile Twitter app.
- Instagram: <https://www.instagram.com/uwengsoc/> or search "uwengsoc" on your mobile Instagram app.
- Youtube: <https://www.youtube.com/UWEngsoc>. It's been revived from the dead!
- Poster Boards: We have them in pretty much all of the engineering buildings on campus. Take a moment to read the posters to learn about new opportunities and things to look forward to!
- LCD Screens: Have you ever seen the LCD screens in the CPH foyer, in E3, or in E5 near the ground-floor Engineering Student Machine Shop? These screens are all managed by EngSoc and feature upcoming events and opportunities for you to get involved.

So that's my list of all the ways EngSoc communicates with YOU. Do you think how we currently communicate is effective enough? What could we be doing better? Or more of? Or less of? Shoot me an email at [vpcomm.a@engsoc.uwaterloo.ca](mailto:vpcomm.a@engsoc.uwaterloo.ca) to let me know. Until next time, thanks for reading!

## Ludent Stife Strikes Again!!

**MARIKO SHIMODA**  
VP STUDENT LIFE

Well well well well well well well here we are again. I hope everyone's hell week wasn't too fiery. You know what was fiery? Our bonfire! Literally so lit. Hope y'all had fun.

Less lit, but still exciting: POETS now has COMPOST! Food waste and things that turn into plant food and not into a landfill. Wowie. Do your part to help the environment! Instructional posters

are in POETS as well in case you have no idea what qualifies as compost-worthy.

Pride Parade tickets are ALSO still ON SALE in the orifice. March with us and the Tool in the Toronto Pride Parade, get a sick rainbow patch, and a tie dyed Tshirt. We will be tie dying tshirts in POETS the Friday before!

Wow look more things for sale: ENGLAY TICKETS. Both online and in the Orifice, we have a fun group deal for 5 tickets for \$30. Save money, have

friends, do fun things with your friends. All the things a good university student should be doing. Buy tickets and see our play.

Still have more money? BEACH DAY. Grand Bend. Come with us to the beach, get sunburnt AND get heat stroke all in one day! Jk, It's going to be really really fun and only \$10 for a day trip to see a cute place. Take advantages of opportunities and don't live indoors in the summer.

More fun things are coming up too.

Learn how to solder with WiE! Good skill, friendly environment, and fun thing you get to make. Genius Bowl is coming up. Prove you're smarter than your pals and classmates through trivia, rather than exam testing and class rankings! Plus prizes.

Last but not least, Semi-formal is coming up on Friday July 7th. Get excited, theme to be released soon. OooOOOooOOO ambiguity, don't ya love it.

Peace out friends, I'm out.

## Upcoming Events Calendar

Wednesday June 21	Thursday June 22	Friday June 23	Saturday June 24	Sunday June 25	Monday June 26	Tuesday June 27	Check out up-to-the-day event postings on the EngSoc website at <a href="http://engsoc.uwaterloo.ca/event-calendar/">engsoc.uwaterloo.ca/event-calendar/</a>
Council Meeting 3 5:30PM - 7:30PM	Charity Grilled Cheese 11:30AM - 1:30PM  Life Skills Workshop #3 6:00PM - 7:00PM	Pride Shirts Tie-Dye 5:00PM - 7:00PM  Poets Sleepover Starts: 8:00PM	Poets Sleepover Ends: 8:30AM  Summer Leader Retreat 8:30AM - 4:30PM  Spring 2017 Joint Annual General Meeting 5:00PM - 8:00PM	UW EngSoc goes to Pride 10:00AM - 6:00PM	EngiQueers 6:00 PM - 9:00PM	Games in POETS 3:00PM - 7:00PM  Excel VBA Workshop 6:00PM - 8:30PM	
Wednesday June 28	Thursday June 29	Friday June 30	Saturday July 1	Sunday July 2	Monday July 3	Tuesday July 4	
WiE Soldering Workshop 6:00PM - 8:30PM	Charity Pancakes 11:30AM - 1:30PM  POETS Licensed 12:00PM - 4:00PM  Genius Bowl 6:30PM - 8:00PM		EngSoc Canada Day Volunteering 2:00PM - 8:00PM  Canada Day		Canada Day Statutory Holiday	EngProv 5:00PM - 6:00PM  Hardware Intermediate Workshop 6:00PM - 8:00PM	

# So Much Spirit! So Much Hype! So Much EngSoc!



**ABDULLAH  
BARAKAT**  
PRESIDENT

How have we gotten to this point in the term already? I guess when you're having a great time doing what you love (i.e. EngSoc), time just flies by. There have been so many things going on and I'm excited to tell you all about it!

Firstly, the Joint Annual General Meeting (JAGM) is happening this Saturday, June 24th at 5 pm in RCH 101. We will be going over a lot of important topics, including the increase of the EngSoc fee, electing the new Board of Directors for the 2017-2018 year, voting a new mural to go up in the EngSoc office, and bunch of important and relevant changes to our governing documents. The meeting is open to all undergraduate Engineering Society members, and we encourage you to come out, and bring 2 proxied votes as well to ensure that we

meet the minimum attendance required to run the meeting. There will be dinner provided just before the meeting starts, so hope you can make it and join us!

Commissioner applications are currently open for the Winter 2018 term, and we are looking for some awesome and dedicated people to help support the Executive with our initiatives, as well as to further support the development of the Engineering Society moving forward. The application can be found at <http://bit.ly/EngsocCommW18>. If you have any questions about what it takes to be a commissioner, please email the Executive at [executive.a@engsoc.uwaterloo.ca](mailto:executive.a@engsoc.uwaterloo.ca).

The Tool's 50th Birthday Party happened in POETS last Friday, and we had a massive turnout! Thank you to everyone that showed up and showed your Engineering spirit; the Tool loves noise, and there was a definite abundance of it at the birthday party. The SCUNT is still going on, and so many people are partaking! It will continue until Engineering Day on July 14th, at which

I will award the winners of the Purple Hardhats! At Engineering Day, there will also be unlimited free food, a dunk tank with your favourite profs, and inflatables, so you should definitely make it out!

I have been in talks with the lovely folks within UW Catering and Bar Services to work out a plan moving forward for the licensing of POETS. They are willing to cooperate and work towards a middle ground, but not much has happened as of yet. More to come as things progress. I have also met with the CESS (Chemical Engineering Student Society) and NESS (Nanotechnology Engineering Student Society) Presidents in order to see how EngSoc can collaborate or support them moving forward, and it seems like a step forward for the Society in attempting to further advocate and provide the best services for our students. The Sub-Society Presidents have been very responsive to us reaching out, so hopefully progress will be made on that moving forward.

I have contacted Christine Moresoli, the Associate Dean Co-op Education

& Professional Affairs & Professor, in an attempt to obtain input on how to proceed with my goal of reaching out to the various engineering departments on campus to further develop our professional development services. I am hoping that this will lead to meetings with the department heads and we as a Society can learn what is relevant to Engineering students in the current industrial landscape. Lastly, the Muslim Student Association (MSA) has reached out to the Engineering Society in order to collaborate with us on a Charity Costume Fun Run that will be happening in July. Their goal is to collaborate with all 6 of the faculties on campus, and raise a total of \$30,000 for Plan International (Canada) to support an orphan sponsorship program. I am more than happy to work with them on that, and will be sharing more information with you guys as they arise.

That is all for this article, thank you so much for your time. I'll catch you guys next time ;)

## Busy Busy Busy (but not too Busy for you :))

**PAT DUONG**  
VP ACADEMIC

Another two weeks, another Iron Warrior Article. I hope that midterms have been going well (y'know...as well as they can ever go, knowing Engineering...) and that no one has to continue writing midterms to the soundtrack of constant construction (though if you are, please let me know). Thanks to the MECH 2020 class for bringing up that concern.

### WaterlooWorks acknowledges that sometimes WaterlooWorks doesn't Work

Hey everyone! It's the continuous journey of getting feedback is always ongoing. CECA's website has updated their feedback response page with details of changes they have made and are looking to make : <https://uwaterloo.ca/co-operative-education/waterloo-works-news/waterlooworks-feedback-response/>

They also write about the reasoning behind changes and the reason behind not making some changes (like why recycling applications won't be coming back).

Some highlights of changes they've made so far include being able to save search criteria and having convenient Back to Search and Next Page buttons on the job posting and job search pages. Some functionalities they're looking into getting implemented based on student feedback are being able to access jobs when off-term, revamping the UI to get rid of sideways scrolling, and seeing WaterlooWorks messages by email in more detail without having to log in.

Be sure to keep an eye out for the WaterlooWorks survey once it's out on June 26th after main round. We need as many responses as we can get so that CECA can be made aware again as to what our priorities are in terms of request for changes. Everyone's continued feedback, support and watchful eyes are greatly appreciated! So in the meantime, gather up your your feedback and get ready!

### Exam Bank

I've also been mandated by the EngSoc class representatives to work with the current exam bank directors to investigate the pros and cons of giving professors access to view the exam bank. In a 2010 Iron Warrior

article, a point and counterpoint (PCP) argument was presented about giving professors access to the exam bank. One thing to note is that the Engineering Society has an official stance: "The Faculty of Engineering should adopt policies discouraging and/or restricting professors' ability to reuse old exams."

### Last Call for Teaching Awards

Teaching Award nominations are due this Friday (that's June 23rd)! For more info check it out through here: <http://bit.ly/TeachingAwards17>

Now that midterm exams are over for those with Hell Week, if there are any AMAZING Profs, Lab Instructors or Lecturers to nominate, please feel free and do. :) Multiple submissions (for same or different teachers) are encouraged.

Unfortunately TAs are not eligible, but they can be nominated for the Sandford Fleming TA award instead. Classes can nominate one TA every term: <https://uwaterloo.ca/sandford-fleming-foundation/teaching-awards/>

### Resumé Rescue (We need critiquers!)

EngSoc is looking to have Resumé Rescue, our online ongoing student-

student resume critique service, up and running for continuous round. If you're interested in becoming a resumé critiquer, please email [resumerescue@engsoc.uwaterloo.ca](mailto:resumerescue@engsoc.uwaterloo.ca).

### Course Critiques

Early next month in June, Course Critiques will be rolling around to classes again. That's right! Those neat packages that we get to fill out. The course critiques feedback is used for to improve courses and to determine future teaching assignment. Note that feedback is anonymous and that professors don't get to see any of it until the beginning of the next term. Remember to be professional and constructive with feedback: being specific about what you do and don't like is really helpful, responses with abusive or irrelevant comments are not. Remember this helps us determine how to make courses, and assignments better for all engineering students.

By the way, did you know you can see all past Course Critique results of all professors online after logging in here: <https://www.eng.uwaterloo.ca/critiques/>

That's all I have this time for updates. Ta for now!

## Same Old Thing (Psst. There's Stuff Happening)

**MICHAEL BEAUCHEMIN**  
VP OPERATIONS AND FINANCE

Hey all, as another fortnight draws to a close, and the summer heat sets in, it's time for another update. There hasn't been all that much going on recently, but I'll update you on what little has happened. Hopefully everyone with hell week made it through intact, and for those of you poor souls who still have exams, 'good luck'.

Since the Square system isn't up and running in Novelties yet, I postponed the fire sale. Square will, however, be set up by the end of this week, allowing you to pay for Novelties ware with credit cards! We will of course still be accepting cash, so feel free to come by. Highlight items include the Ridgid

Tool USB Key (the Tool just celebrated its 50th birthday!), a classy EngSoc branded ceramic mug, and Ridgid Tool Sweatpants. If you're interested, stop by sometime this week between 11:30 and 13:30 any day.

Coveralls have been ordered, and will hopefully be received by the end of the month, so to all those who bought covvies, check back often! Also pay attention to the date of the upcoming Fire Sale, as it will be a great chance to snag some sweet patches really cheaply.

RidgidWare is now carrying Raspberry Pis. Come in and get yours today before they run out! Students of MTE 220 can now also pay for their spare parts in RidgidWare (which means you can use credit cards if the amount is over \$1.00).

A very very huge shout-out to MATT POST for fixing the POETS projector so we can back to our irregularly scheduled programming. The man knows his way around a projector ( ◡ ◡ ◡ ). Also in POETS, the sleepover is happening this weekend, so bring your friends and your sleeping bags for some post-midterm relaxation. We will be running board games, music, movies, and maybe even a surprise guest appearance by a Wii with Melee and Brawl.

Sponsorship allocations have been finalized and are awaiting approval at council. Come to our next meeting to see if you got what you wanted, or if you're interested in seeing how we spend our money. Big shout-out to the sponsorship committee members for giving up half of their Saturday for

watching presentations and allocating all that money.

Last, but definitely not least, the Joint Annual General Meeting (JAGM) is happening this Saturday, where we will be discussing such thrilling topics as an EngSoc fee increase. If you feel strongly about anything discussed at JAGM, please come out and talk about it. Every undergraduate engineering student can attend and has voting and speaking rights on all issues, not just class reps. Encourage your classmates and friends to come too. (FREE FOOD).

Signing off for now! If you have a burning question, comment, or insult, feel free to stop by Wednesday mornings between 8:30 and 13:00 for my office hours. I'm always happy to have visitors.

# NASA Names Space Probe after Living Scientist

## Space Cam



**CAMERON SOLTYS**  
4A MECHANICAL

SPACE CAM

The author would like to thank Professor Kyle Daun, expert in radiation heat transfer, for bringing this exciting mission to his attention.

NASA has recently renamed one of their upcoming space probes, generating a small media splash. This is a good thing because the Parker Solar Probe (previously the Solar Probe Plus) has not gotten too much coverage recently, and certainly less than such a daring mission deserves. When it arrives at its target in seven years time, the probe is set to revolutionize solar science and study the dangerous and fascinating phenomena of solar flares.

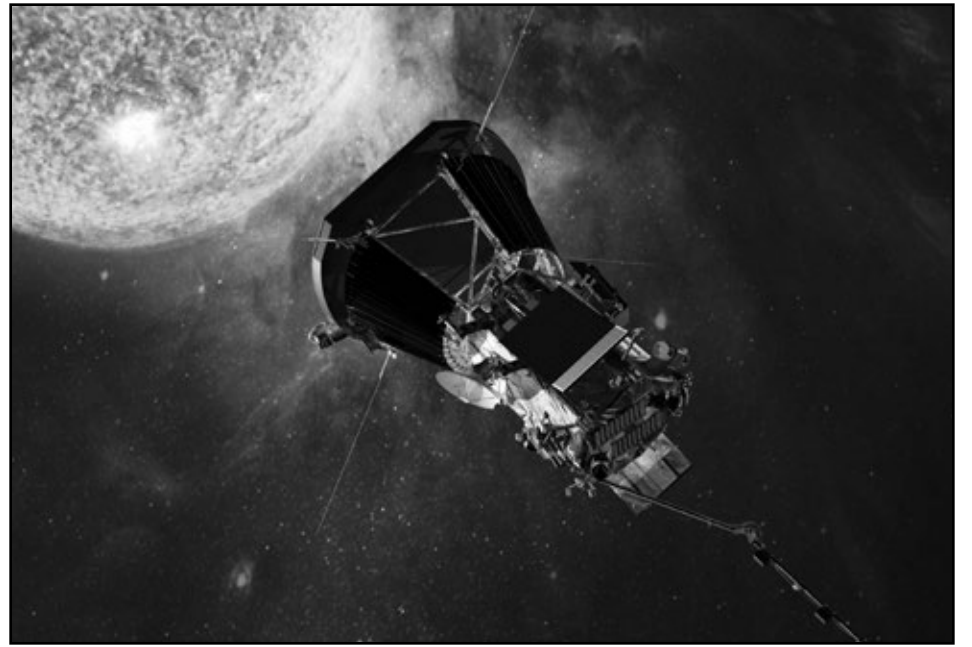
The Parker Space Probe has been on NASA's budget since 2009, with an initial launch date in 2015 (which was, of course, not met). This has now been pushed to August, 2018. On May 31st, NASA announced that they were renaming the satellite from Solar Probe Plus to the Parker Solar Probe, after solar astronomer Eugene Parker. Parker was the first person to propose the idea of a wind emanating from the sun. It was a controversial theory that attracted much criticism; the paper would not have been published in the *Astrophysical Journal* because two of his peer reviewers rejected it, but for the journal editor's decision to overrule the reviewers. In 1962, less than a decade after Parker published his theory, his predictions were confirmed by observations made by the Mariner 2 probe.

As the focus of its namesake would suggest, the Parker Solar Probe's primary

purpose is to study the solar wind and other solar phenomena. More generally, the probe's task is to study the corona, the "atmosphere" of the sun. This region of the sun is very mysterious and scientifically intriguing, and of great practical importance. The corona is the source of various charged particles that leave the sun at extremely high speeds, capable of damaging satellites and communication devices.

On the scientific side, one of the most interesting questions about the corona is why is it so hot: the surface of the sun is a paltry 6000°C. The corona, on the other hand, is several million degrees. How the corona is heated is a great mystery since the source of its energy is not known. The Parker Space Probe is fitted with a large number of instruments to study the corona in great detail: 5 voltage sensors and three magnetometers will measure the magnetic fields, electron temperatures, and plasma density. WISPR will take wide-field images of the sun, SPAN A+ and SPAN B will measure the density of different particles in the corona, and the unfortunately-named ISIS instrument will attempt to correlate different particles from the sun with the structures that produce them.

The Parker Solar Probe will launch in 2018, but it will not reach its science orbit until 2024. The reason for this long interment period is that, from an orbital mechanics standpoint, a near-sun orbit is energetically very far away. When a spacecraft sets out from Earth, be it towards a more inner or more outer location in the solar system, it needs to change its speed. Most of these speed changes need to be done using fuel. The Voyager probes famously supplemented their fuel by getting gravity assists off of the gas giants, gaining extra speed without spending any fuel. The sun is, energetically, further away



NASA

**An Artist's Impression of the Parker Solar Probe close to the Sun**

than the gas giants. As a result, Parker will use 7 separate gravity assists from Venus to slow down. Once it completed its slowdown, Parker will, counter-intuitively, become the fastest man-made object ever; at its closest approach to the sun, the probe will be moving at 200 km/s.

The science orbit that Parker will adopt brings it ten times closer to the sun than Mercury's orbit. It will spend 11 days within 0.25 astronomical units (AU, the Earth-Sun distance) taking frantic observations while moving at incredible speeds, and then between 88 and 150 days traveling out to the distance of Venus. During this latter time, it will transmit all of its collected data back to Earth. This orbit is seven times closer to the sun than any other solar probe has come, and that has produced some unique challenges.

The most important challenge is heat. The Parker Space Probe is equipped with

a carbon-composite sun shield to keep its instruments below 20°C, even as it is subjected to solar radiation that is 520 times greater than it would be subjected to on Earth. Even the probe's normal solar panels are retracted. Small secondary solar panels with liquid cooling are used to power the probe during the science portion of the orbit.

The Parker Space Probe is sure to reveal some exciting new things about the Sun, an object that seems so familiar to us and yet has some major unanswered questions associated with it. In addition to the practical concerns of investigating solar radiation and what that means for humans on Earth, the Parker Space Probe's website offers a unique insight into our relationship with the sun and corona: "We live in the atmosphere of the sun." Surely it is worth studying the most important part of the solar system in great detail.



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## Seams Unusual: Dark Fashions



TAYLOR LINDBLAD

SEAMS UNUSUAL

Welcome back to Seams Unusual, where interesting and uncommon alternative fashions are handed the spotlight. Each issue will delve into the distinguishing features of the unique style, a short history on how the fashion was born, and tips on how you can start putting together your own alternative outfit.

This issue will be dedicated to the darker side of alternative fashions, such as strega, dark mori, and, of course, good old-fashioned goth.

Although there are many unique alternative styles that could fit under the “darkling” umbrella term, they all tend to adhere to the same foundations: a dark (even mostly all-black) palette, macabre motifs, and a flair for the mysterious. Within the goth subculture lies a number of divisions and off-shoots (although many “eldergoths”, or more experienced members of the goth community, would argue that they are simply different expressions of the same, unified goth fashion). Trad (traditional) goth is distinguished by its more DIY nature, often with thrifted pieces that were dyed black, shredded with scissors, safety-pinned, and adorned in chains and studs.



Reveron

80's Traditional Goth

Eyeliner is abused in artistic ways and synthetic pony falls and dreadlocks grace the goth clubs. Romantic and Victorian goth takes a more luxurious turn, with steel-boned corsets, fitted silk vests, and bustled skirts overflowing with velvet and lace. Outfits in this substyle are completed with real antique accessories, like lace fans, beaded purses, and actual Victorian-era jewellery. Cupcake goth (also known as perky goth, pastel goth, and creepy cute – which have been widely debated as being their own alternative fashion, separate from goth) take an almost 180 degree approach to the goth scene, mixing black clothing, bat, spider, and skeleton motifs, and studded/spiked accessories with pink pieces, pigtails, glitter, hearts, and bunnies. My personal favourite goth style is kindergoth, also called dolly goth or babydoll goth. Giving off a creepy-schoolgirl vibe, kindergoth has a sweeter gothic look, often consisting of lace hems, hairbows, and Peter Pan collars. Think Wednesday Addams, Ruby Gloom, and Living Dead Dolls. Aside from goth, another darkling fashion that is fairly new to the scene is dark mori. Mori kei, or “forest style”, featured in the last issue of the Iron Warrior, is a fairy-tale fashion distinguished by its lacy white layers, baggy sizes, and flowing skirts. If regular mori kei is a flower fairy living in a dreamy forest, then its darker counterpart could be described as something far more sinister: a witch or vampire lurking in shadow-veiled woods of thorns and twisted branches. Dark mori sticks to the general anatomy of a traditional mori kei outfit, but swaps out whites and creams for blacks and greys. Instead of accessories featuring wildflowers, there are poisonous mushrooms, and the sweet foxes, playful rabbits, and gentle fawns are exchanged for screeching bats, death's-head moths, and antlered skulls. Very similar to dark mori is the relatively recent strega fashion. Named after the Italian word for “witch”, strega is a label often applied to any aesthetic which could come across as dark and magical. With no set guidelines or anatomy, it is a very relaxed and achievable style. Most usually comprising of (but not limited to) tattered layers of clothes in blacks, greys, and dark browns, greens, and purples, many strega outfits often overlap with what would be considered dark mori or, in some stretches, even goth.



shortcutoffthestars

Dark Mori

However, because of its namesake, strega fashion does usually contain motifs and accessories relating to witchcraft, such as pentagrams, triple moons, and crystals. Still related to darkling fashions, although perhaps by a stretch, are early 2000s emo and scene styles. As many readers of this paper will have grown up during the time that their fellow pre-teens and teenagers would have dabbled in the emo and scene aesthetics and already know what these fashions are, they will not be covered in this article.

Mostly all darkling fashions owe their roots to goth. The style that is now known as trad goth is possibly the original darkling fashion, beginning around the 1980s in England. As a product of the gothic rock genre of music, “goth” was used to describe the types of people (and the way they dressed) who frequented the clubs, concerts, and venues where this music was played. As the fashion evolved and society changed, it became influenced by things like the supernatural, religious imagery, the eerie side of the Victorian era, and whatever modern trends were occurring at the time. This led to groups of individuals adding or subtracting pieces and symbols to their wardrobe, effectively creating myriad separate substyles of the traditional goth style. As goth became prevalent, it started to seep into other alternative fashions, creating “goth versions” of the styles. For example, dark mori could

be considered the goth version of mori kei, and cybergoth is the darker style of cyberpunk. Cyberpunk fashion itself was born from elements of goth, such as dreads, striped stockings, corsets, straps/fashion harnesses, and black vinyl and leather. Even strega, which has no real originating fashion or history born from a music genre, would likely be very different today had goth never began. Surprisingly, for a grungy DIY fashion sifted from thrift store bins and sparked by old English rock bands, goth has even made an everlasting mark on the runway. High fashion labels including Alexander McQueen and Anna Sui are positively steeped in goth influence, and even the likes of Jean Paul Gaultier and Christian Lacroix have been associated with goth style (“haute goth”, anyone?).

If you have an interest in the



Gloomth and the Cult of Melancholy

Kindergoth

mysterious, the macabre, and the downright creepy, it may be time to start considering introducing those themes to your own wardrobe. Babybats, the term the goth community uses (often in a derogatory fashion) for newcomers to the goth/darkling scene, shouldn't feel afraid or self-conscious in sharing interests in darker aesthetics with those who have been in the culture for longer. Just because you weren't born in the 70s or 80s and didn't frequent famous New York goth clubs every Friday night with your edgy goth friends doesn't mean you aren't allowed to, or completely welcome to, join in on a fabulous fashion and style that you adore. There's nothing wrong with being a babybat, a budding witch, or a newcomer to the J-fashion scene. What makes it even easier to join in is the enormous options of substyles covered by the darkling label, and the prominent DIY aspect of mostly all these substyles. Not too handy with a needle and thread? Try taking a pair of scissors and a pack of safety pins to a thrifted band tee and pair of stockings to create your own trad goth look. Scared of getting creative with modifying your clothes? Layer some darker pieces you already own to put together a dark mori ensemble. Romantic goth accessories go for cheap at antique and vintage consignment stores, and strega jewellery can be bought from any local occult/new age store (think you don't have a local occult store? Think again. They're always there.). Whatever path you choose to take on your journey into darkling fashion, just remember to do what makes you happy and what you think represents your personal tastes in the eclectic, the peculiar, and the ghostly.

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## Philip K. Dick Selected Works by Great Authors



Philip K. Dick is a funny name for a great American science-fiction writer. He was born on December 16, 1928 in Chicago, Illinois and wrote 121 short stories and 45 novels. Philip K. Dick is considered one of the most visionary authors of the twentieth century and is the first science-fiction writer to be included in The Library of America series, a series of classic American literature with significant literary and cultural value. Though you may not have known his name, his work has been the basis for many famous movies and television shows such as Blade Runner, Total Recall, Minority Report, A Scanner Darkly, and The Man in the High Castle. The works selected for this column are Do Androids Dream of Electric Sheep?, The Man in the High Castle, and Ubik. If you like to be completely surprised when reading, please do not read any further because the warning of spoilers is a spoiler in itself.

### Do Androids Dream of Electric Sheep?

Do Androids Dream of Electric Sheep? was published in 1968 and is the basis for the movie Blade Runner. This post-apocalyptic novel is set in San Francisco after a great nuclear war, called World War Terminus, which had damaged most of Earth's life. Most animal species have become extinct or endangered from the extreme radiation poisoning, so to encourage empathy towards animals and as a sign of status, people take care of

android animals. To own a real animal would be rare and extremely expensive, as many animals have died from extreme radiation poisoning. The story follows Rick Deckard, a bounty hunter who "retires" humanoid androids who have infiltrated human society. These androids are identical to humans and it is the bounty hunter's job to "retire"—or effectively, kill—rogue androids. In order to buy a new live animal to replace his electric sheep, Deckard takes on a case to retire six Nexus-6 androids who violently fled to Earth from a mine on Mars. In the process of retiring these androids, Deckard faces the need for existential fulfillment and contemplates the ethical questions that his line of work raises.

This dystopian novel explores religion, government intervention, and the ethical use of artificial intelligence and technology. After World War Terminus, the world is reduced to rubble and most of its natural life is gone. Only people and technology remain: technology is now available to regulate emotions, technology preaches a new religion of empathy through virtual reality, and people and animals have been perfectly imitated in the form of androids. Do Androids Dream of Electric Sheep? brings into question whether these emotions, beliefs, and artificial existences are real or not, and ultimately, if the pursuit of truth is a worthwhile goal.

### The Man in the High Castle

The Man in the High Castle was published in 1962 and provides an alternative history where the Axis Powers (Imperial Japan and Nazi Germany) are victorious in World War II. The Axis Powers now rule over the United States, where the eastern part of the country is under Ger-

man control, and the west, now called the "Pacific States of America" (PSA), is under Japanese control. In this parallel history, President Franklin Roosevelt was assassinated in 1933, leading to the continuation of the Great Depression and U.S. Isolation. By 1947, the Allies had surrendered to the Axis Powers. The novel is set 15 years later, and Imperial Japan and Nazi Germany are now competing world powers. Nazi Germany now has advanced technology, where they drained the Mediterranean Sea to create farmland, developed and used the hydrogen bomb, and designed high speed rocket travel to colonize Mars, Venus, and the Moon. Throughout the novel, characters use the I Ching, an ancient Chinese divination text, to make important decisions.

The most intriguing thing about this novel is that many of the characters have read a fictional novel called The Grasshopper Lies Heavy. The Grasshopper Lies Heavy is banned in the German occupied United States and is widely read in the PSA. The Grasshopper Lies Heavy tells the story of an alternative reality where President Roosevelt survives his assassination attempt and the Allies win World War II. The British Empire becomes more racist and expansionist after the War and the U.S. resolves racism by the 1950's. This causes racial-cultural tensions between the British Empire and the U.S. leading to a Cold War.

This book within a book blew my mind, as well as the fact that Dick used the I Ching when writing The Man in the High Castle, as his characters used the I Ching to make their major decisions.

### Ubik

Ubik was published in 1969 and is set in 1992, where humanity has colonized

the Moon and people have psychic powers. Joe Chip is a technician working for Runciter Associates. He lives in an apartment equipped with coin-operated appliances, where you have to pay money every time you want to unlock the door or use the phone in your own home. Runciter Associates is run by Glen Runciter, a "prudence organization" which employs "inertials", people with the ability to negate the powers of telepaths and "precogs", to enforce privacy of clients. Runciter Associates is also run by Runciter's deceased wife, Ella, who is kept in a state of "half-life" a form of cryonic suspension that allows limited consciousness and the ability to communicate even after death. Runciter discovers that Ella's consciousness is being invaded by a more dominant half-lifer, Jory Miller. Runciter Associates is hired by Stanton Mick to secure lunar facilities; with a team of 11 inertials, Runciter and Chip travel to the lunar facility, only to find out this assignment was a trap, and a bomb blast in the lunar facility kills Runciter. After the explosion, the rest of the team experiences shifts in reality and start to die off one by one, leaving only Chip to try to make sense of what is happening. Chip wards off danger through the use of Ubik, a product that is advertised at the beginning of every chapter.

The end of the novel makes you wonder what is real and what isn't. You read the novel and accept whatever is happening as reality in the novel only to be completely wrong by the end of the novel. Too many of these books have M. Night Shyamalan-like endings - I cannot discuss the ending too much but it is awesome and mind-blowing. There is a reason why this is on the TIME's top 100 books published since 1923.

## Leather Jackets: From Military Aviators to Rock N Roll



Following suit with the last article on aviators, there's a crucial piece of clothing that just burns brightly to match. I'm talking about that iconic look that spells cool from every angle: the leather jacket. Worn by people of all walks of life, the leather jacket never really faded from the limelight. Sported by military men, actors and actresses, and of course rockers throughout the ages.

Although leather use has existed for ages, dating all the way back to the Roman Empire, the modern leather jacket did not appear until the 1910s. The original pilots and aviators of World War I wore leather jackets to fight the strong wind and cold of high altitude. Over time, these brown aviator jackets evolved into the Bomber Jacket that we know today.

In 1928, Irving Schott designed and produced what became known as the iconic Biker's Leather Jacket. The jacket was sold at a Long Island Harley Davidson distributor for only \$5.50, an astonishing contrast to today's +\$500 jackets. The jacket appealed not only to bikers but to the general public as well; it became the symbol for danger & adventure,

By World War II, the bomber jacket returned to play with pilots once more braving the cold altitudes alongside the heat of war. Leather jackets were adopted wholesale by the military, and it was not uncommon to see a soldier sporting one across Europe. The end of the war brought the jackets to homes in North America and Europe. Many of the former

enlisted took on the look, and the leather jacket remained part of many wardrobes.

At the dawn of rock and roll and the 50s, the leather jacket reached an all new status. The leather jacket became increasingly popular amongst teenagers, and it became the quintessential look for the cool guy-bad boy act. The look was mainly popularized by the likes of actor and racer James Dean (whose iconic look featured him in a black leather jacket with slicked hair) and the rebellious leather jacket wearing heartthrob and king of Rock 'N' Roll, Elvis Presley. Subsequently, many school systems across North America banned the leather jacket because of its association with the rebellious teenage demographic.

Many rock stars since the 50s helped popularize the leather jacket. Prior to wearing their crisp, clean suits, even the Beatles wore black leather jackets. The 70s and 80s saw the leather jacket as the symbol for the underground punk rock movement. Bands like the Ramones, Blondie, and the Sex Pistols were all known for sporting leather jackets.

The years and the changing world have seen a rise in variety in leather jackets. Many other jacket types have evolved from the original bomber and biker jackets while still keeping the attitude, protection, and durability that they were initially known for.

The first of the most common leather jackets is known as the Flight Jacket or Bomber Jacket. Known as the father of all leather jackets, these originated from the First World War and were designed for plane crews. They were made for insulation and warmth, and typically have roomy flap side pockets. These are often zipped straight up front.

The iconic bad-boy biker jacket is known

as the Double Rider or Motorcycle Jacket. Usually containing multiple pockets and large spreading lapels, the jacket is made for travel on the road. It is often designed to zip at an angle and have a protective flap behind the zipper to protect against strong winds seeping through the jacket.

A popular jacket in the racing world, known as Motocross or "Moto" Jackets, are fitted, streamlined jackets. Often giving a very clean look with few or no pockets, these jackets were popularized by professional racing. These jackets zip straight up and are usually much thinner than other styles of leather jackets.

Leather jackets come in different grades and hides. The most common divisions, from best to worst quality, are: Full Grain, Top Grain, Genuine Leather, and Bonded Leather. These four divisions, along with the inclusion of synthetic material, make up the leather jackets you see in today's market. Full Grain and Top Grain grades are often expensive and top of line, and are made of the whole outer hide of the animal. These provide the longest lasting and sturdiest of leather jackets, and are often preferred.

Genuine Leather are the most common jackets at a mid-price range, and refers to leather made from the inner hide of an animal. Genuine Leather is less durable than the aforementioned Full and Top Grain, and often feels thinner depending on the construction.

Bonded Leather is often cheap, low-quality material made from segments of different leather that is pressed down and chemically bonded. This grade is less durable compared to the other grades due to its construction from mixed leather pieces.

Synthetic leather material also exists in the

market, and is often much cheaper than the other options. These are often certified to be animal by-product free, and require little to no maintenance in comparison to animal hide leather.

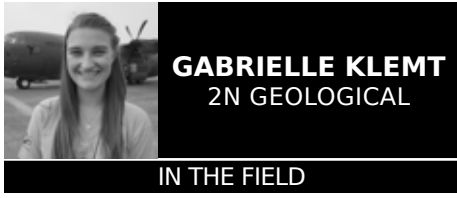
Just as there are many grades of leather, the possibilities for different animal hides are extensive. The most common leather is made from cows, which is known as steer hide. Often a by-product of slaughtering for meat, steer hides are strong and usually very stiff. Jackets made from steer hide require a long break in period, but also last very long. Bison and horsehide are also common materials for leather jackets that provide much the same qualities as steer hide.

Lighter materials for leather jackets include deerskin, goatskin, and lambskin. Often the choice for cool or warmer weather, these provide nice mid-season jackets. These are often much more supple in comparison, and do not feel as stiff as hides like steer hide. For example, lambskin often provides the smoothest and softest of leather jackets. The downside to these materials is they are often not as durable as steer or bison.

In a little over a hundred years, leather jackets traveled from simply being a functional, sturdy jacket to an immortalized look that is known throughout the globe. Over the years, leather jackets have seen fluctuating waves of popularity and sales, but they endured to make it to modern day. Today, there are thousands of different styles to choose from, including many new and unconventional looks that have risen from the original jacket. Its impact is certainly one that is undeniably powerful. Be part of the journey and grab one today; it's certainly one look that's sure to be played again and again.

# It's a Hard Rock Life For Us, It's a Hard Rock Life For Us

## In The Field



**GABRIELLE KLEMT**  
2N GEOLOGICAL

### IN THE FIELD

Unlike many engineering students, my co-op job consists of a lot of hiking through the woods. When people say, "hiking through the woods" normally they mean walking along a well-trodden path in a well forested area. Sometimes I hike on paths, other times I am forging my own path through the dense growth of the forest itself. This week we're talking about the perils of the workplace—the great outdoors—and some tips and tricks that I've been picking up along the way.

#### 1. Being prepared

Everyone's number one tip for working in the actual middle of nowhere is to be prepared. When I go out for work every day I bring enough food to last me two days, a survival kit, a first aid kit, a walkie talkie, a GPS, a compass, sunscreen, bug spray, raingear, and only enough water to last me to the end of the day because water is heavy and I'm not taking more than 2L with me, you're asking too much. This is just on top of the gear I actually need to do my job. Yes, I'm carrying about half my body weight on my back once you add the 4lb rock hammer, the chisel, and the 8lbs of rock samples I have to bring back from the field, but it's worth it if it'll keep me alive.

#### 2. Hammer safety:

The first thing I learned about rock hammers is that you are not Michelangelo. You are a regular human who needs to chop a rock into bits, but no matter how you hit the rock it is not going to break the way you want it to. When swinging the hammer, don't bring it behind your head, it is very easy to bring it too far and whack

yourself on the noggin causing extreme pain and an unnecessary concussion scare; you want to bring it over your shoulder. Next, bring your hammer as high as you can so that gravity can do most of the work, that why the hammers weigh so darn much. Third, avoid your foot, which is on the rock so it doesn't bounce around. Hitting yourself in the toe with all your might is almost as painful as hitting your own head. Try some practice hits to get yourself into the swing...

#### 3. Peeing

Of course, if you're anywhere for an extended period of time you're going to have to pee, that's... well it's my life, it might not be yours. At any rate, keeping peeing to an absolute minimum is the best course of action. If there's one takeaway from using nature as a toilet it's that toilets are man's number one greatest invention and we really take advantage of their existence far too often. I don't want to be the weirdo who writes an article about toilets, but seriously you should thank god that even if your office is the definition of hell you have somewhere you can pee without fear of something biting your ass.

#### 4. Crossing A River:

Sometimes life gives you lemons and sometimes it gives you a lot of water. Rivers can be kind of tricky when you're out in the wilderness because sometimes you really need to get to the other side. If you can avoid wading across the river you should absolutely do that because there is nothing worse than spending the whole day feeling like your toes are pruning inside your boots. Wool socks can do nothing for you once they're super-saturated. The best thing you can do is find somewhere safe to cross. Luckily, in northern Ontario there happens to be a lot of nature's bridges: beaver dams. According to my boss, you're never more than 100-200m away

from the nearest dam so start walking! The hardest part now is not getting stuck in the surrounding marsh...

#### 5. Crossing A Marsh

Marshes, unlike rivers, are not always conspicuous at first glance. One second you're thanking your lucky stars that you've finally found some open flat ground, the next you're ankle deep in water and marsh moss. The trick is to walk as quickly as you possibly can to avoid falling in, like quick sand. Probably. Just don't stand still; that's the worst thing you can do because you'll soon find that the "waterproof" warranty on your hiking boots wears off when the water goes over the top of your boot.

#### 6. Making your way through a forest

There's really no good way to describe what walking through dense forest is like. Think of walking through a hedge but surround it with trees, more endless hedges, fallen logs to trip on, roots to snag you, and so many branches it's impossible not to get whipped in the face no matter how hard you try. The term "bushwhacking" really doesn't go far enough because in my mind I picture someone who is at least capable of fighting back at the forest. You get over feeling bad about destroying branches and baby trees quickly when you realize that if you don't get out you'll go crazy. Plus, animals crash through the forest all the time and it's none the worse for wear. In fact, once you've "blazed your trail" you can't even see all the broken branches or snapped twigs; the forest has already reclaimed them! The only advice is to just keep going in the direction your compass is telling you and no matter how impenetrable the forest looks, you will find the road eventually.

#### 7. Bugs, bugs, bugs

We all know how bad mosquitos can be, those bites are terrible because the more

you scratch the more they itch. But do you know the joys of other bugs nature has to offer you? How about the black fly?

As I sit here writing this I'm finding it difficult to concentrate due to the insane bite collection I received today as a result of plaid shirts that don't have enough sleeve buttons. My arm looks like something out of a movie about people dying of the Plague. I don't know why but some of my black fly bites are the kind of purple that comes from bad internal bleeding and they itch like nothing you can imagine. I'm scared to count but I'm certain I have over 40 bites on one arm. One arm. I think it would actually be less painful for me if someone hacked my arm off at the elbow. And if the itching doesn't drive you nuts, then just noticing all the flies crawling over your clothes and skin and swarming your face will. The only way to stay sane in the bush is to ignore their very presence. That's all you can do! And empty your whole bottle of DEET onto whatever you don't mind ruining forever.

The worst part about these buggers is that you can't shake them. Your first few days in the field are followed by nights of "phantom bugs": your first step towards insanity. Although you are now inside and safe from the monsters, you can still sense them buzzing just out of sight, little black dots in your peripheral vision. Turn your head and they're gone! Bed doesn't make them go away either. As soon as the lights are out, the phantoms return with a vengeance; they swarm your face and now you can actually feel them touching your cheeks, landing behind your ears, on your nose, your eyelids. Even though your eyes are closed and you're face is pressed against your pillow they still won't go away. There is literally no escape from phantom bugs.

These have been the fruits of my experience in the field so far. I hope you find them useful one day and you can laugh at my pain because right now I can't.

## James Comey Testifies in Senate Hearing

### Damnit Donald



**RAEESA ASHIQUE**  
3A ELECTRICAL

### DAMNIT, DONALD

James Comey, ex-FBI director, testified in an open Senate hearing on Thursday, June 8. He was fired in May, allegedly because of his handling of the investigation into Hillary Clinton's use of a private email server, although he does not buy this excuse. "It's my judgment that I was fired because of the Russia investigation," Comey said. "I was fired in some way to change, or the endeavor was to change, the way the Russia investigation was being conducted."

Comey had kept detailed memos on his laptop following all correspondence with Donald Trump, both before and after the election, which he had shared with the FBI leadership. He said this was necessary since he was "concerned [Trump] might lie about the nature of the meeting." These memos were shared with the FBI leadership, but no one else, to avoid "infecting" the investigation.

Comey's prepared written statement was released the day before the hearing, in which he shared details of their communication as follows.

January 6: Intelligence Community (IC) leaders met with Trump in a conference room at Trump Tower in New York to brief

him and his new national security team on findings regarding Russian interference in the election. They were also debating whether to inform him of the nature of the investigation, so that he would understand that he was not being personally investigated; Comey decided to tell him this.

Note that an FBI counter-intelligence investigation is different than a criminal investigation; they are seeking information, rather than investigating a crime, and looking at whether an American was a "witting or unwitting agent" of foreign powers.

January 27: Trump and Comey had dinner in the Green Room. Trump asked whether he would like to continue his directorship, although Trump had previously expressed his wishes that Comey stay. "My instincts told me that the one-on-one setting, and the pretense that this was our first discussion about my position, meant the dinner was, at least in part, an effort to have me ask for my job and create some sort of patronage relationship."

Trump then asked for loyalty, and Comey said that he can offer reliability, but can't be counted on in the political sense Trump was alluding to. Trump reinforced, "I need loyalty, I expect loyalty." The two parties ended up agreeing on "honest loyalty", although they probably interpreted this term differently.

Notably, the New York Times reported on this meeting last month in an account corroborated by Comey's testimony,

although Trump outright denied this version of this story.

February 14: In this Oval Office meeting, Trump said Michael Flynn, former national security advisor, had not done anything wrong by speaking with the Russian ambassadors back a December – Flynn ended up resigning because of misleading Vice-President Mike Pence regarding this conversation. Trump said, "I hope you can see your way clear to letting this go, to letting Flynn go. He is a good guy. I hope you can let this go."

Comey says he did not understand Trump to be referring to the larger investigation into Russia, but specifically into the Flynn case. However, he and other colleagues agreed this was still "very concerning".

The New York Times also reported on this meeting last month, and Comey's account once again coincides.

March 30: Trump called Comey, describing the Russia investigation as "a cloud" which was interfering with his ability run the country, and asked what they can do to "lift the cloud". Comey replied that they are acting as quickly as realistically possible while maintaining integrity to the investigation, and reminded Trump that he is not being personally investigated; Trump repeatedly pushed to "get that fact out."

Trump also suggested they look into whether his "satellite associates" had done anything wrong.

April 11: Trump again requested that it

"get out" that he was not being personally investigated. Comey suggested the White House contact acting deputy attorney general Rod Rosenstein to that effect.

#### White House Responds

Trump's personal lawyer, Marc Kasowitz, responded the same day; he partly denied many of Comey's statements, and finished with, "In sum, it is now established that the President was not being investigated for colluding with the or attempting to obstruct that investigation. As the Committee pointed out today, these important facts for the country to know are virtually the only facts that have not leaked during the long course of these events."

#### Mueller Investigation

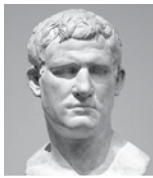
There were reports the same week that Rosenstein has appointed Special Counsel Robert Mueller to lead an inquiry into Trump's possible collusion with Russia to influence the 2016 election. Trump is also being investigated for obstruction of justice in relation to firing Comey, because of which he is again pointing fingers. He tweeted on June 16: "I am being investigated for firing the FBI Director by the man who told me to fire the FBI Director! Witch Hunt."

According to the Washington Post, the FBI is also looking into Jared Kushner, Trump's son-in-law and senior advisor.

And the White House/Kremlin saga continues...

# Remembering Gaius Julius Caesar

## Acta Diurna



**GAIUS LUCIUS  
AGRIPPA  
10B CONSUL**

ACTA DIURNA

Salve citizens of Waterloo. I, Gaius Lucius Agrippa, welcome you! I am currently away, enjoying the sites of Valentia Edetanorum, a Roman colony in Iberia. If I am not mistaken, many of you may know this city as “Valencia” a part of your modern-day Spain.

Fear not my absence for regardless of not being physically present, I have sent friends to bring to the humble Iron Warrior office this issue’s Acta Diurna!

In this issue, we tell of the story of a legend who forever changed the face of the Roman Republic, and lit the beacon bearing the guiding flames of the Roman Empire. The tale of the man who ventured and conquered the heart of Gaul, introduced countless societal and governmental reforms, and was famously assassinated on the Ides of March in 44 BC. We celebrate the life and story of Gaius Julius Caesar.

### Early Years

Gaius Julius Caesar was born c. July 12th or 13th in 100 BC into a patrician (ruling class) family, the Julii Caesares, a subdivision of the ancient Julii or Julia family in the Roman Republic. The Julii claim descent from Lulus, also known as Ascanius, a legendary King of Alba Longa and son of the legendary Trojan Prince Aeneas. The Julii have shared a long history of political power and achievements throughout Rome’s history, but during the time of Gaius Julius Caesar’s birth, their political might and fortunes were insignificant. Caesar’s father, who he shares his name with, was the governor of the province of Asia at that time, and the young Caesar’s aunt was married to a prominent figure in the republic, Gaius Marius.

In 85 BC, at the age of 16, Gaius Julius Caesar was ushered into adulthood with the death of his father, and assumed the role as head of the family. Caesar’s early years of adolescence were plagued with instability and strife, beginning with the tumultuous civil war between his uncle, Gaius Marius, and Lucius Cornelius Sulla. During Marius’ initial victory, Caesar enjoyed great political honour as the appointed high priest of Jupiter, and was married to Cornelia, the daughter of Lucius Cornelius Cinna, an ally of Marius and powerful political figure at the time. Things quickly changed, however, as Sulla won control of the city during the final stages of the civil war, and ultimately claimed victory. The very connections that gave Caesar his wings to ascend the Roman hierarchy made him the target of the new regime under Sulla. Caesar lost most of his property, was stripped of his inheritance, his wife’s dowry and his priesthood, and was threatened into divorcing Cornelia. Caesar steadfastly refused and was forced to go into hiding, fleeing from Rome. At the behest of his mother’s family and the Vestal Virgins, Sulla let Caesar go, albeit reluctantly.

Fearing for his safety in Rome, Caesar joined the Roman army, serving under praetor Marcus Minucius Thermus in the Roman province of Asia and under Servilius Isauricus in the province of Cilicia. During his time in service, he became a distinguished soldier and commander, earning the Civic Crown for his role in the Siege of Mytilene.

It was not until Sulla’s death in 78 BC that Caesar would return to Rome and make an appearance in the political scene. His return to Rome saw him pursue legal advocacy, where he gained renown for his passionate orations and merciless persecution and denouncement of corrupt former governors. In this time, he

also traveled to Rhodes, where he endeavored to study philosophy under the same Greek masters that instructed the famous orator, Cicero. A famous tale from this time involved his capture by pirates on one of his trips between Rome and Rhodes. At the time of Caesar’s capture, he was said to have put on a bold display of his skills in negotiation and counter-insurgency tactics, going so far as to befriend his pirate captors, drinking and gambling with them, and even convincing the pirates to raise his ransom. Caesar jovially promised to return upon release and have the pirates crucified. Shortly after his ransom was paid and his subsequent release, Caesar raised a fleet and chased the pirates across the Aegean Sea, eventually capturing them and arranging for their crucifixion. The event served to bolster Caesar’s reputation back in Rome. Caesar proved himself once again during a military campaign in 74 BC when he was called back to service in Asia. Caesar raised a private army of auxiliaries and fought against Mithradates VI Eupator, King of Pontus, who had declared war on Rome.

Upon his return to Rome, he quickly progressed through the ranks, rising in his political career. He was first elected as Military Tribune, and eventually held the office of Quaestor by 69 BC. It was during this time that Caesar moved to Spain to serve his Quaestorship. Caesar’s time in Spain is heavily romanticized as a turning point in his career. As the story goes, he came across a statue of Alexander the Great. It was by the pedestal of the statue that it dawned on Caesar how unsatisfied he was with his current position; Alexander the Great had conquered most of the known world by his age.

As the years went on, Caesar became a significant player in Roman politics, first running for Pontifex Maximus, the position of high priest of the college of pontiffs, in 63 BC. He easily won the election against two other powerful senators. In 62 BC he served as praetor, and was eventually appointed as governor of the province of Hispania Ulterior as proprietor. In this time he made strong allies such as Marcus Licinius Crassus, and was also hailed as Imperator by his soldiers after conquering two tribes in Hispania, and made major reforms regarding debt to the province.

By 60 BC, Caesar won the election for consulship, along with Marcus Bibulus. Seeking more control of Rome’s operations, Caesar attempted to take advantage of an opportunity. Marcus Licinius Crassus and Gaius Pompeius Magnus (better known in English as Pompey the Great) had been political and business enemies for the better part of the last decade, and both were held in high esteem in Rome. Caesar succeeded in bringing the two to terms. This three-way political alliance famously became known as the First Triumvirate. During his time as consul, Caesar was able to gain more power with the help of Pompei and Crassus, and introduced laws such as the redistribution of public lands to the poor which greatly increased his popularity with the plebeians and lower class, as well as benefitted himself for he was deeply in debt. By the end of his consulship he was also able to win the appointment of governor for three of Rome’s provinces: Cisalpine Gaul, Illyricum and Transalpine Gaul.

### Military Conquest

In securing governorship of Cisalpine Gaul, Transalpine Gaul, and Illyricum, Caesar gained the means to build a large military force; his role as governor of the provinces allowed him command of four legions. Still in debt, Caesar knew that there was money to be made and fame to be earned in military conquest. The Romans at the time feared the inhabitants and tribes of Gaul, many of whom

were migrating south into Roman provinces and territories. The sparks of conflict started when Caesar raised two legions and fought against rival Gallic tribes who initially defeated Roman allies in the Battle of Magetobriga. In response to Caesar’s military presence and the increased Roman military activities, more Gallic tribes started to arm themselves. Caesar earned countless military victories in the years of 56 – 55 BC, subduing various Gallic tribes as far north as Britain. In 52 BC Vercingetorix, an Avernian chieftain, attempted to break Caesar’s control of Gaul by uniting the various Gallic tribes in a revolt against the Roman forces. Vercingetorix initially won a number of engagements against Caesar, most notably being the Battle of Gergovia in which 46 centurions, 700 legionaries, and more than 6000 people were injured. The unstable alliances and unity of Gallic tribes came too late, however, as Vercingetorix was ultimately defeated and captured during a heated siege at Alesia which is considered one of Caesar’s greatest military achievements. This marked a turning point in the history of Gaul, as it fell deeper into Roman hands. Under the lead of Caesar, over 300 tribes were subjugated and a very rough estimated 800 cities were destroyed.

### A Divided Rome

Caesar’s military conquests in Gaul earned him fame and fortune, making him incredibly popular and powerful both politically and financially. His former allies, however, did not celebrate his continued rise in power. Just the year before Caesar’s victory against Vercingetorix, his former ally Crassus was killed during a failed invasion of Roman provinces in the east. Meanwhile back in Rome, Caesar’s daughter, who was married to Pompey, died in childbirth. Caesar would later attempt to offer his great-niece’s hand in marriage to Pompey, to once again secure their alliance. Pompey would decline the offer, having grown more wary and envious of Caesar, choosing instead to marry the daughter of one of Caesar’s enemies, Metellus Scipio. The First Triumvirate had fallen apart.

By 50 BC the Senate, which had grown to dislike and fear Caesar’s growing power, ordered him to disband his armies and return to Rome as his term as governor was ending. Fearing prosecution if he were to return to Rome, Caesar stalled for time and refused to disband his army. Wary of Caesar’s intentions and fearing an attempt to take control of the Republic, the Senate turned to Pompey for support. Together they accused Caesar of insubordination and treason, declaring him an enemy of the state. In January of 49 BC, Caesar with the company of the 13th legion, marched towards Rome. According to the historian Plutarch, Caesar famously stated as he crossed the Rubicon River, “alea iacta esto” or “let the die be cast”. Pompey and the Senate fled south to neighboring cities to raise an army. This marked the beginning of yet another civil war that would tear Rome apart. Pompey and Caesar clashed on several fronts fighting battles all across the Mediterranean. Pompey would ultimately suffer a final defeat at the Battle of Pharsalus in Greece, and flee to Egypt.

At the end of the civil war, what remained of the senate would, under Caesar’s influence, appoint him as dictator, with his most trusted lieutenant Marc Antony as his Master of the Horse. Caesar then oversaw his own election to another term as consul, after which he absolved his role as dictator. Not long after, Caesar left for Egypt in pursuit of Pompey, arriving shortly after Pompey’s assassination, where he was presented with his former-rival’s head. Famously, Caesar is said to have been driven to tears by the act, and demanded the deaths of those responsible for the act. This would mark the end of the

Caesar-Pompey civil war, and the beginning of Caesar’s unopposed rule of Rome.

### The Dictator

During Caesar’s time in Egypt, he found himself involved in yet another civil war, this time between the child-Pharaoh Ptolemy XIII and his sister (and as with Royal Egyptian custom of the time, his wife) Cleopatra VII Philopator. Caesar sided with Cleopatra, who had the people of Alexandria’s support, and withstood the Siege of Alexandria. She later defeated Ptolemy XIII in the Battle of the Nile in 47 BC. This time would also be the beginning of the heated affair between Caesar and Cleopatra.

In the years of 47 – 46 BC, Caesar fought across the Mediterranean, ultimately defeating the King of Pontus in the Middle East, and crushing remnants of the opposing senators and Pompey’s followers in North Africa. Shortly after defeat, one of Caesar’s greatest senatorial opponents, Cato, committed suicide.

Upon Caesar’s return to Rome, the Senate celebrated his victories over Gaul, Egypt, Pharnaces and Juba, during one of which Caesar famously parades Vercingetorix around Rome. Extravagant games were held, from hunts, gladiatorial contests, and even a naval battle held on a flooded basin at the Field of Mars. A celebration which foreshadowed the future extravagance and festivities that Rome’s future Emperors will indulge in.

After Caesar’s triumph, he would put forth his extensive and very ambitious reforms to the Roman Republic. He changed a multitude of laws and introduced even more. It was during this time that Caesar built the famous Forum of Caesar and the Temple of Venus Genetrix within a massive theatre, and a new colossal temple to Mars among many other public works. He restructured the Roman Republic, introducing new offices to government and abolishing many elitist political guilds. He also reformed the Roman calendar to what is now known as the Julian calendar, which includes three extra months in order to align the calendar with the seasons. Caesar also strengthened Rome’s central government, chipping away at governors’ provincial powers that for too long in Rome’s history has been used to gain political power and generate intrigue.

During this time, Caesar also continued to build his political power and control, first giving himself the title of “Prefect of The Morals”, which empowered him to fill the senate with his own followers. He also started the formality which would be followed by his successor and eventually future Roman emperors, in which they were granted various honorary titles such as “Imperator” and “Father of the Fatherland”. A mere month before his assassination, Julius Gaius Caesar was appointed as dictator perpetuo, or dictator for life.

On the 15th of March, also known as the Idus Martii or Ides of March in the Roman calendar, Gaius Julius Caesar was to appear at a session of the Senate. Upon entering the senate chamber, Caesar was confronted and stabbed twenty times. As described by Plutarch, Caesar was approached by Tillius Climbler who proposed a petition to recall his exiled brother, during which a crowd of other conspirators gathered around him. As Caesar waved him away, Climbler grabbed Caesar and pulled his tunic down, at which point Servilius Casca, another conspirator, took out a knife and made an attempt at Caesar’s neck. More of the conspirators joined in, infamously including Marcus Junius Brutus.

**Continued on Page 15 as  
“Gaius Julius Caesar”**

# I Felt Like I Didn't Belong In Software Engineering

## EngSoc Mental Health Blog



AWN DUQOUM

ENGSOC MENTAL HEALTH BLOG

Earlier this term MHA directors were approached by Jessica Hanta - an upper-year Software Engineering student - who wished to share her Mental Health journey by writing this story.

In addition to running this blog, the Mental Health Awareness directors also run Post Secret every term. This is a service where people can submit short anonymous secrets, confessions, or just about anything they want to get off their chest. We write them out and stick them up on a wall for everyone to see. You can submit a secret here: <https://goo.gl/ATnDFX>

If you have a story to tell or are interested in being featured on the blog, email us at [engsocmha@gmail.com](mailto:engsocmha@gmail.com).

### Q: Why don't you start by telling us a little about yourself?

Okay, well I'm 4A Software Engineering. Throughout my whole University career, I've found it kind of hard to fit in because I'm a girl, which means I'm a minority. A lot of people don't have the same interests as me so there's always been this reoccurring theme that "I don't fit in. I don't belong in Software Engineering, why am I here? Am I good enough?" The first time I started experiencing bad mental health was in 1B and I actually had a panic attack during one of my final exams. So that was the first time where I hit rock bottom and I remember thinking "Okay, I need to go get help."

From that point on I went to counselling to work out my anxiety and I became more comfortable being in SE, but that didn't happen until during 2A. I went to the Grace Hopper Conference back in 2014 and that's where I realized, "Hey, I'm not the only girl, or the only girl with these subsets of interests. There are other girls out there that like Gilmore girls and other 'girly' things. It's just that for the time being, they're not here. But that doesn't mean I don't belong." I sort of had this revelation that I do belong in this field, I like what I'm doing and what I'm learning. So I was fine until sometime around last summer.

Last summer I got an internship with Microsoft, and I was really excited, really proud of myself for getting that. But I didn't anticipate how hard it would be to move across the country from my family and my friends. I was in a long-distance relationship at the time too, which made things even harder for me. They put me in a one-bedroom studio apartment so I didn't have any roommates. As my coworkers weren't very social, I would just go to work and then go home. When I was home, I would either be by myself or on FaceTime with my boyfriend. The FaceTime calls with my boyfriend honestly helped me stay positive and helped me feel less alone, because at the end of the day, I still had someone I cared about to talk to, even though we were separated by thousands of miles. Most of the time, I felt like I had no one there because no one was there physically in person. I also wasn't enjoying what I was working on at the time, so that caused me to have the same thoughts that I was having in 1B where I was like "I'm not good enough". My logic was that because I was at Microsoft, one of the top tech companies in the world, if I didn't enjoy what I was doing and that I felt as if I didn't belong there, why

would I feel like I belong anywhere else? I thought to myself, "I'm supposed to enjoy this, I'm supposed to like this, this is what people dream of."

I ended that work term in a really bad mental health state, and what I realize now was the start of my depression. I remember going to L.A. with my friends over the summer and I just wasn't having a good time, and I had no idea know why. I felt like I should be having a good time. Who doesn't want to go to L.A. and explore and do all of the cheesy tourist stuff? But I just wasn't enjoying myself and I was super confused. Now looking back, that was the first time I recognized my growing depression. Going to work and not really having any work friends made me feel like crap and like I was totally alone. I was working with this other intern, but the U.S. interns only work for 12 weeks, so for August I was all by myself. He was sort of the only friend I had, and the only one I talked to. For the last month of my co-op, there were days where I would go without talking to anybody. And it just sucked. Even though I'm introverted, I still crave human contact and feeling like I have friends and people who want to talk to me. I started last fall term being depressed, which led to the worst four months of my life.

I was dealing with this depression but I didn't fully realize and accept that it was depression until a lot of damage had been done. I remember around Thanksgiving thinking I should tell my parents that I just wasn't feeling well and that I should go get help, but I didn't follow through because I thought it would just go away. I sort of went on this downward spiral. I got a bunch of interviews but I was still dealing with feelings of inadequacy in the tech field combined with depression, which I conveyed in interviews. I didn't come across as passionate about the industry because I didn't feel like I belonged and I wasn't having a good time. And again, because I didn't enjoy Microsoft, I felt that it affirmed the fact that I don't belong in the industry—that's just how my brain was working at the time. I ended up in continuous round for the first time in my entire university career and I felt really embarrassed about that. I was an upper year, I was a 3B student, I should have been able to get those jobs. I was getting interviews but I was getting rejected past the second round, which was even more affirmation that I wasn't smart enough and that I didn't belong. I also had another really bad panic attack before one of my midterms. That was awful, and it was the worst panic attack I've ever had in my life. That was brought on by me finding out for sure that I'd be in continuous round, an affirmation that I don't belong and don't fit. At that point the only thing I felt that I had going for me was the relationship I was in at the time. What ended up happening was that my boyfriend got a job in San Francisco and I ended up getting a job in Toronto and I felt that that was the end of everything. He was my sole support at the time and was the only one who knew about my depression. I was scared of going long-distance, because last time we were long-distance, I ended up getting depressed. When you are depressed, or have been depressed, you actively try to avoid anything and everything you feel were the 'causes.' I hit rock bottom, and I called my parents and they brought me to the hospital. Prior to that I was having suicidal thoughts, I know that I wouldn't have gone through with it but I was just thinking of different ways I could commit suicide. There were many nights where I would fall asleep thinking about how I

could kill myself. I didn't have a plan, but I knew "This is not healthy. I should not be thinking these things." And again, me hitting rock bottom after finding out I would be in a long-distance relationship again was the point where I was like, "Okay I need to go get help."

My parents brought me to the hospital that night because at that point, I just wanted to feel better. I felt sad all the time. I didn't see the joy in anything. I was just fed-up with it and I didn't want to feel that way anymore. I live in Hamilton so my parents came to drive me back to a hospital in Hamilton and we were there for a couple hours. Basically, they didn't admit me because I didn't have a plan to commit suicide, I was just feeling suicidal and depressed. Because I didn't have a plan they didn't think it was 'severe' enough so they told me to go see my family doctor the next day. It sucked, because it takes a lot of courage to go get help and it's really discouraging when doctors essentially say "Oh, you're not bad enough. We can't do anything for you."

I ended up going to my family doctor and I was prescribed anti-depressants. I ended up moving back home and commuting to school—my parents would drive me back and forth. I needed more than the support of my boyfriend. I needed my family. It was sometime mid-December that the anti-depressants actually started working. It was around that point that I started to feel things again. That I started to feel happy again. Over the past co-op I was in Toronto so I was able to go to counselling there and I was able to get better. I'm in a much better place now than I was back then, because I've learnt how to cope with depression and get over my thoughts that I don't belong and that I'm not good enough.

### Q: You mentioned that you did go to a hospital in Hamilton and they didn't admit you because you weren't 'bad enough'. Do you think the healthcare system kind of failed you in that regard?

Yeah I definitely do. It was frustrating for me and also my parents. It's very hard for you to get help when you're not mentally well. There's still a stigma surrounding mental health. I didn't tell anybody that I was suffering from depression except for my boyfriend. My friends didn't find out until I wrote a blogpost on Facebook. They had no idea, and I guess that's just because I was hiding it. So it sucked that I built up the strength, the courage, to tell my parents that I wasn't mentally well and then I got to the hospital and they were like, "I can't do anything for you. You have to go to your doctor."

### Q: Were there counselling services you went to on campus?

I've been to counselling on campus. I went last fall a couple times. The thing about counselling on campus is that they only take you every three weeks or so. I went to counselling through my family doctor last coop, since it was covered and close to where I was living. I'm still seeing a counsellor, but they're outside of campus - just because I want more consistency and that's not currently available through the school's counselling service.

### Q: Would you recommend the on-campus counselling to someone? Was the experience good for you?

Yeah. I had to go there after I had my panic attack before my midterm because I

had to get a doctor's note and they refer you to them, and I mean I also wanted to go. Talking it over with the counsellor helped, she was very nice and helpful and I think it was beneficial for me at the time. Seeing a counsellor during the fall term really helped me get through it. I honestly didn't think I would be able to finish 3B. I talked things with my counsellor and decided that deferring an exam would be the easiest way for me to reduce my course load. A lot of my profs were very accommodating with respect to assignments and group work. My profs were really sympathetic and wanted me to get better. I feel that most profs get this picture painted of them that they won't do anything and that they're jerks but honestly that is not the case.

### Q: Do you have any advice for anyone in SE or any other engineering that feels like they're not good enough and that they don't belong?

I guess something that is particular to Software is that it is one of the most competitive programs in engineering. I've talked to people in Systems Design and their class sounds more like a community. Since Software has such a high admission average, you have the smartest of the smart people there and it's very competitive because everyone wants the best jobs. I think what's important is to realize what you want, and what your goals are as a person. Once I stopped comparing myself to my classmates my mental health improved. If you define yourself or your value as a person based on your grades or what company you work for, you're not going to be happy. Not everyone can work at the top tech companies. Your goals in life don't align with working at a top tech company, it makes no sense for you to work there in the first place. I feel like it's important to realize that feelings of not belonging and not feeling good enough comes from comparing yourself to others. As soon as you stop comparing yourself to others, you'll be happier. Just concentrate on yourself and what you want.

### Q: One last question, you mentioned being on anti-depressants, there's a pretty big stigma for taking medications for mental illness, especially on campus. Is there anything you'd like to say about that?

My view on mental health is that I want to end the stigma, so I'm very very open about talking about my experiences including that I'm on medication. Even now, I have a little bit of shame for taking them because there is a negative stigma associated with taking medication for your mental health. The reality is that it's no different from taking medication to help chronic pain. Mental illnesses are legitimate illnesses and they should be treated in the same way. Like depression occurs from a chemical imbalance in your brain, and anti-depressants fix that imbalance. I feel like people should not have shame in taking medication because you should do what you need to do to get better. Sometimes counselling is enough to help you heal, but that isn't the case for everyone.

### Q: Is there a song or artist that you'd recommend right now?

My current jam is "Most Girls" by Hailie Steinfeld. It's all about girl love and I really like it because it makes me feel like a boss, it makes me feel empowered.

# Gaius Julius Caesar

Continued from Page 13

Caesar was said to have helplessly tripped and fallen on the steps of the portico, and was relentlessly stabbed by approximately 60 conspirators.

A life size wax statue of Caesar would later be erected in the Roman Forum, depicting the twenty-three stab wounds, and would be the gathering place of a riot of plebeians who supported Caesar. This marked the beginning of yet another series of civil wars that would culminate in the formation of the Roman Empire.

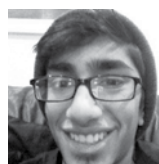
## The Legacy

In later years, after the ascent of Caesar's heir and adopted son/great

nephew Octavian, later known as Augustus Caesar, Caesar became the first citizen of Rome to be recognized as divine. The site of his cremation would later host the Temple of Caesar, also known as Temple of the Comet, which was dedicated to the cult worship of the deified Julius Caesar. Caesar's bloodline also included a number of future Roman Emperors who would continue to shape Rome and its reaches. The man Gaius Julius Caesar would make it through the sands of time, truly as a legendary being, immortalized in the tales of his achievements, the stories of his victories, and the romanticized tragedy of his assassination; he who changed Rome forever.

# E3 2017

## Gaming announcements and best of show!



**HASAN AHMED**  
IT NANOTECHNOLOGY

Ahh E3, the console gaming event of the summer. Where people from all around the world come together (well, I was watching livestreams) in order to see what companies will bring them in the near future. This year's showcase was pretty good, and a lot of titles were displayed with great anticipation. I'll preface this summary by saying don't get your hopes up. Not that the games are bad, but just in case. It's happened to me before so I'm obviously a little biased. Nonetheless, let's start with Microsoft.

So Microsoft's conference wasn't bad. Their main highlight was the new Xbox One X (pronounced "zox?"). It's the acclaimed "Project Scorpio" that they've had in the lab for some time and was revealed at E3. It will be released on November 7th this year, but unfortunately for a \$499 price tag (USD). So it's a little pricey for us university students, but it's got pretty good specs. 2.3Ghz x86 8 core CPU, 12 GB of DDR5 RAM, 1TB storage, and even a 4K UHD Blu-Ray Optical Drive. Not only that, but Microsoft also stated that there will be potential backwards compatibility with games from the original Xbox, and also, lots of games are expected to get Xbox One X updates in the future, so that's pretty cool. I'm glad Microsoft is taking backwards compatibility past just one generation of console. Some games showcased included Crackdown 3, Forza Motorsport 7, and even a first look at Assassin's Creed Origins. Also, Minecraft will be coming to the console in 4K, so get excited for those high quality Minecraft squares. The Last Night

was also revealed, as well as a pretty cool Dragonball Z game, titled Dragonball Fighter Z. All in all it was a decent conference, but I feel Sony did a little bit better.

Sony this year had some great games. Not only that, but not a lot of the conference was talking about the game. It was a lot of trailers and showcases, which I respected wholeheartedly. Games included FIFA 18, a Shadow of the Colossus remake, Crash Bandicoot N. Sane Trilogy (shoutouts to all you nostalgic fans out there), a God of War game for 2018, and a new Uncharted, titled The Lost Legacy. This seems exciting, as the Uncharted games have always pleased me. Some other games included a new Spiderman game, and two games for Playstation VR: Bravo Team and The Inpatient. Sony seems to be working to VR environments for games, so we'll see how it pans out in the future. Finally, there was a limited gold edition of the PS4, which was \$249.99 USD (so about \$330 CAD). If you're interested in PS4 gaming, this seems like a good time to buy this console, as it's not too much different from the PS4 pro and a good way to get started on some games and enjoy it as a light hobby. While I don't usually like saying companies "win" E3, I feel like I need to be a bit hypocritical and talk about how Nintendo swept the floor with their announcements.

Now, I'm a huge Nintendo fan, so this article is 100% biased. That being said, they showcased some amazing games that have promising gameplay. I'll start with the bad though, as they revealed Mario and Rabbits Kingdom Battle. This game isn't bad per se, but it's...odd. If you google it, you'll see what I mean. It feels like a weird combination of two games. Nonetheless, we'll see how it pans out in the future. Legend of Zelda: Breath of the Wild DLC was set to be

From the Writer/Director of Planet of the Arts and the Director/Writer of Planet of the Arts comes an audio-visual assault on the senses akin to the original production of Hamlet

**PLANET OF THE ARTS**  
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released soon, along with Splatoon 2 (hey, if you've read this far and haven't ever played Splatoon, don't. That game will eat your time like no tomorrow). There was also a demo of Miitopia, a personalized RPG adventure, and a new Fire Emblem game, titled Fire Emblem Warriors. Nintendo continued their showcase of classic titles by announcing a remake of Mario and Luigi Superstar Saga and Xenoblade Chronicles 2. New Kirby and Yoshi games were also revealed, the Kirby one being especially praised due to similarities between the N64 game Kirby 64: The Crystal Shards. Rocket League is also coming to the Nintendo Switch, and Metroid: Samus Returns accompanied with a Samus and Metroid amiibo is coming soon too. My favourite announcement, however, was not shown through gameplay, but simply a number. '4' was displayed on the screen, along with some very familiar music. I screamed, as Metroid Prime 4 was announced for being in development for the Switch. So for all you nostalgia bugs out there, replay the first three in anticipation for this. Although this was my favourite announcement, the most revered one was the release date of Super Mario Odyssey, the next platformer in Nintendo's lineup. This game featured many cool aspects and details, including the ability to control

objects with Mario by throwing your hat at it. It's set to release on October 27th, 2017, along with 3 new amiibo: wedding Mario, wedding Peach, and wedding Bowser. However, the Switch is still \$400 though so I suggest waiting until the console is bundled with a game of some sort to buy one. No smash for Switch was announced, but I wouldn't worry since Smash 4 is still not explored as much in my opinion. Sad at no Melee HD for you competitive smashers out there, or any Gamecube Virtual Console, but I'll still have fun with Smash 4 on my Wii U playing through everything I haven't touched yet. But I need to play Metroid Prime 2 and 3. And the Uncharted series. So I guess I'll get started on that.

To conclude, E3 was pretty good this year. No company blundered and each of them had a strong showing in terms of games. Yes, I'm Nintendo biased but others are Microsoft and Sony biased. I suggest checking out all the trailers and release dates for yourselves (since I didn't mention many) and start thinking about making time to play these games in the future.

Disclaimer: The author has only written about Nintendo, Microsoft, and Sony, since that was all they have had time to view, but also check out EA, Bethesda, and Ubisoft, and other companies present

# The Truth About What Happened to Windows 9

## Electro-Nick's Electronics

**NICK OWENS**  
1B MECHANICAL

Microsoft, the most valuable computer company in the world (if you don't count a piece of fruit as being a company) launched windows 10 just over a year ago. Now I'm sure that you're all familiar with them for Windows, the operating system that comes with the vast majority of computers. But it always seemed to confuse me that Microsoft went straight from Windows 8 to Windows 10. Of course, they explained it as an error in the coding, dating back to the 1990's and that it would have cost them a lot of time and money to produce an operating system called Windows 9. But only recently did I realise that it might be something else. Anybody with

experience in computer logic will know that the number 10 is a binary representation of the number 2. So perhaps, everything leading up to Windows 8 has been part of an overarching prototype, and now they're beginning the phase 2 part, or Windows 10. But doesn't that sound like better marketing than, 'We had an error in the system?' Why wouldn't they want us to know about that? Unless, somehow, it is part of a sinister plot.

I, personally, have Windows 10 and am even writing this article in Microsoft Word. Personally, I enjoy a lot of the little conveniences over the tedious process of using Windows 8. But, I've noticed that Microsoft has added their AI, Cortana to the software. I'm sure that, by now, you all know about how Apple uses Siri to brainwash their customers,

but I think that Cortana serves a much more insidious purpose. Cortana not only listens to your voice, but also helps you to type searches into your computer. In other words, she always knows what you're typing. But what possible harm could that be? She's just an AI after all, and we all already have tape over our webcams. But I think it might be possible that Cortana might MAKE YOUR LIFE EASIER BY ALLOWING YOU TO EASILY FIND DOCUMENTS, MUSIC FILES, SHOP ONLINE, AND PERFORM WEB SEARCHES... I most certainly did not write that.

So that's their game. Microsoft wants to CONTINUE COMING OUT WITH QUALITY PRODUCTS WITH USER FRIENDLY DESIGNS TO CONTINUE LEADING INNOVATION IN THE COMPUTER MAR-

KET. And it's all to late to stop them. What are we going to do? Buy MacBook's? No. We need to band together and tell Microsoft that they should KEEP UP THE GOOD WORK, ESPECIALLY WITH THE UPCOMING RELEASE OF THE X-BOX ONE S. Perhaps I can get my message across if I write it in binary.

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01101110011010100 0100110011  
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Of course, this is all just my opinion, but you can IGNORE my opinion. I'm a LUNATIC.

Now get out there, an SUPPORT Microsoft.

Author's Note: this is a completely unbiased article written by an unlicensed "Professional"

# The Iron Crossword

Thigh Bone's Connected to the... Arm Bone

CAMERON SOLTYS  
4A MECHANICAL

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**ACROSS**

- 1: Hinge joint of the arm
- 6: Game console of Super Mario Bros.
- 9: Beautiful hollow rock
- 14: Express happiness
- 15: Function with differential terms
- 16: Mistake
- 17: \_\_\_ Walsh Jennings, US beach volleyball Olympian
- 18: Your daughter's husband (abbr)
- 19: Unclothed
- 20: French for "to be"
- 22: Goes in shoes
- 24: Garment designed to contour the torso
- 27: Original language of the Quran
- 31: Radio telescope in Algonquin Park (abbr)
- 32: General, interdisciplinary bachelor's degree
- 34: Country south of Canada (abbr)
- 35: Alcoholic drink without hops
- 36: Large, cave-dwelling monster
- 38: Ship prefix used by the United States Navy
- 40: Sweet-smelling purple flower

- 42: Method of getting a site higher on Google (abbr)
- 43: Notice with one's eyes
- 44: Argonne National Laboratory (abbr)
- 45: Phrase that encapsulates an ideal
- 47: Head garment
- 48: Feces
- 51: Anger
- 52: First Nintendo handheld with a camera
- 54: Donkey
- 56: Top-level domain of non-commercial entities
- 57: Put away, especially exercise weights
- 59: Gathering to commune with ghosts
- 61: Family treasures
- 65: Rest on your knees
- 68: Amount (abbr)
- 69: Second group
- 73: Relating to the nose
- 74: Another name of Natural Smurf
- 75: "Wisper words of wisdom: \_\_\_ it \_\_\_" The Beatles lyric (2 wd)
- 76: Frogs with leathery skin
- 77: 2, two

- 78: Famous WWI Belgian battlefield DOWN**
- 1: Largest deer in Canada after the moose
  - 2: Local Area Emergency (abbr)
  - 3: Seed with hooks to attach to fur
  - 4: Swamp-dwelling green monsters
  - 5: Immune cells in the blood (3 wd)
  - 6: The smelling organ
  - 7: Electronic Data Interchange (abbr)
  - 8: One's essential being
  - 9: Main policy-making body of the United Nations (2 wd)
  - 10: Note or explanation
  - 11: Orc variant of Warhammer 40K
  - 12: Jane \_\_\_, frequent lawsuit bringer
  - 13: Entity Relationship Diagram (abbr)
  - 21: Power source of the Voyager space probes
  - 23: Emergency Alert System (abbr)
  - 24: Feline
  - 25: Bobby \_\_\_, hockey player
  - 26: Animal of cock-a-doodle-do
  - 28: Latex celebration item
  - 29: International Literacy Association (abbr)
  - 30: Consumer Electronic Control (abbr)
  - 33: Japanese dish that typically includes raw fish
  - 34: "I \_\_\_ Lover" song by The Saw Doctors
  - 37: Allow, for instance blood from a leach wound
  - 39: Ocean
  - 41: 32-bit number
  - 45: First modular space station
  - 46: Concentration of metal-bearing rock
  - 49: Tolkien monster based on elves
  - 50: Distributor of the movies "All Eyes on Me" and "Power Rangers"
  - 53: Downhill or cross-country
  - 55: Academic help office on SCH second floor
  - 58: Opposite of behind
  - 60: One movement forward
  - 62: Talk angrily
  - 63: Internet speak for "laugh uncontrollably"
  - 64: \_\_\_ von Bismark, German statesman
  - 65: Stock abbreviation of K92 Mining Inc.
  - 66: Abbreviation indicating a product can only be bought in-store
  - 67: Space agency of Rosetta (abbr)
  - 70: 407 \_\_\_, Toronto highway
  - 71: \_\_\_ Lincoln, US President (nickname)
  - 72: Manufacturing Execution System (abbr)

# Sudoku

#2017-06-21

VINCE MAGAS  
4A MANAGEMENT

Medium

	6		5		7			
2		9			4		8	
	5			1		3		
9			8				3	
7			4		6			5
	4				3			2
		6		4			5	
	7		9			6		8
			7		8		2	

Hard

1	4		2				6	
5				8				
2		6			7	9	4	
	1			7	5			
7								3
				6	2			1
	2	8	7			5		4
				6				1
	7				2		3	6

Very Hard

5					3		1	
3	1				8	2	9	
		2	1					
1	4				7	8		
2				8				3
		9	3				6	1
					5	9		
	2	5	8				4	7
	8		7					2

Solutions for previous crosswords can be found on *The Iron Warrior's* website at [iwarrior.uwaterloo.ca/distractions](http://iwarrior.uwaterloo.ca/distractions).

THE IRON INQUISITION  
Emilia Jiao, 2B Management; Vince Magas, 4A Management

## "What is your hell week ritual?"



*"Alcohol, tears, and self love"*  
Nik Vanderveen, 3A Iron



*"Not study, then somehow pass the exam"*  
Julien D'Alessio-Doucet, 4A Mech



*"Making fun of the ECEs and MMEs for having Hell Week"*  
Céline O'Neil, 2B Software



*"No sleep, just power naps"*  
Abdullah Barakat, 4A Mechanical



*"Asian drama and instant noodles. (and occasional studying)"*  
Carmen Huynh



*"Drown in my TEARS and COFFEE"*  
Mariko Shimoda, 2B Mech