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

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 Geographical Engineering (CEGES) 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 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, Yash Vyas, or B-Society President, Vash Vyas, at yypyas@edu.uwaterloo.ca or B-Society President, Vash Vyas, at yyyy@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 all of you at The Iron Warrior who made this issue possible. As always thank you to the people who have copy edited and reviewed this page 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 you on stream, this past week has been midterms/ Heller Week so an extra thank you to those who wrote for us and supported us.

In this issue you’ll find 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 our email at engsocmh@gmail.com.

As always, The Iron Warrior is made possible by the combined efforts of friendly and dedicated students. On this note, I would like to give a warm welcome back to everyone in this issue! Check out Jessica Keung’s showcase of selected works from Philip K. Dick, as well as Nick Owen’s Electo-Nick’s humour article featuring Windows 9. Cameron Soltyks 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 we also have an article about mental health again and other dark alternative fashions. Unfortunately our friend Giaius 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 pun that is burning inside you write 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.

I know there are a lot of students out there who have just finished Hell Week/midterms, or there are also a bunch of us who 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, the exams are already in full swing 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 this edition of this editorial! As such, I think it’s worth talking about 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 wrong out of and left us struggling in the (sometimes) something that is this 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 stimulus, or the drive for the drive 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 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 stimulus is an internal one. Often this is because the task might align with some sort of personal belief system or personal need. One example of this might be something 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 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 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 school because ‘we’re just trying to pass’ or ‘we’re just doing 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 a new skill. 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 motivation in all that you do, it might help in the long run!
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, serving as role models, and providing insights into real-world problems. As an added benefit, dinner is always provided for attendees at no cost!

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 array 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.uwaterlooo.ca/CEGES and feel free to like their page at www.facebook.com/CEGES.
Qatar: Gulf Crisis

Overview
Qatar is an oil-rich country located on a peninsula in the Persian Gulf. The country is isolated off 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, led by four Arab Gulf States, have cut ties with Qatar. 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 enemies, including Qatar: it supports 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 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 for the people of Qatar, as opposed to 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 reparation of Qatari citizens to Qatar and the effect that this 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 contract for Qatar with 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

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 like to thank all our sponsors (listed above) for how to turn ideas into action and bring them to life. I was one of the lucky delegates of Waterloo’s ‘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 students, 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 (vppcomm.hi@engsoc.uwaterloo.ca or vppcomm.ai@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

The American love of baseball runs deep. Family traditions surround the game and many reminisce fondly on childhood ballpark memories. Almost everyone has been to a game, at least once because the Congressmen actually frequent the local YMCA where he actually shot the former mayor of Alexandria Bill Eilille. 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

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 Larner, reportedly shouted, “F**k you, I’m Millwall” and took to the attack with a chair and kicked the operators, despite their long knives. While he sacrificially took stats 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, Youssif Zaggha, was on a watch list but was not prosecuted, according to reports. However, he was still involved in this attack along with Khurram Butt and Rachid Redouane. Islamic State related documents were found on Zaggha’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 Khurram 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: • Website: https://www.engsoc.uwaterloo.ca/ • Twitter: https://twitter.com/EngSoc • Facebook: https://www.facebook.com/engsoc.uwaterloo.ca/ • Instagram: https://www.instagram.com/engsoc/ • Poster Boards: You 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 you currently communicate is effective enough? What could we be doing better? Or more of? Or less of? Shoot me an email at vpcomm.ai@engsoc.uwaterloo.ca to let me know. Until next time, thanks for reading!

MARIKO SHIMODA
VP STUDENT LIFE

Well well well well well well well here we are again. I hope everyone’shell wasn’t too fiary. You know what was so fiary? Our bonfire! Literally. Less lit, but still exciting: POETS now has COMPOST! Food waste and things that turn into plant food and not into a landfill. Wowee. Do your part to help

Ludent Stife Strikes Again!!

Wednesday June 21
Council Meeting 3
5:30PM - 7:30PM

Thursday June 22
Charity Grilled Cheese Life Skills Workshop #3
5:30PM - 7:00PM 6:30PM - 7:00PM

Friday June 23
Pride Shirts Tie-Dye Poets Sleeper Workshop
5:00PM - 7:00PM 8:00PM

Saturday June 24
Poets Sleeper
5:00PM - 6:00PM

Sunday June 25
UW EngSoc goes to Pride
10:00AM - 6:00PM

Monday June 26
EngiQueers
4:00PM - 6:00PM

Tuesday June 27
Games in POETS
3:00PM - 7:00PM

Upcoming Events Calendar

Wednesday June 28
WIE Soldering Workshop
6:00PM - 8:30PM

Thursday June 29
Charity Pancakes Charity Grilled Cheese
11:30AM - 1:30PM
11:30AM - 1:30PM

Friday June 30
Poets Sleeper
5:00PM - 6:00PM

Saturday July 1
EngSoc Canada Day Volunteering
2:00PM - 8:00PM

Sunday July 2
Canada Day
1:00PM - 6:00PM

Monday July 3
Canada Day Statutory Holiday
3:00PM - 6:00PM

Tuesday July 4
EngiQueers
5:00PM - 7:00PM

Peace out friends, I’m out.

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.

Upcoming Events Calendar

Wednesday June 21
Council Meeting 3
5:30PM - 7:30PM

Thursday June 22
Charity Grilled Cheese Life Skills Workshop #3
5:30PM - 7:00PM 6:30PM - 7:00PM

Friday June 23
Pride Shirts Tie-Dye Poets Sleeper Workshop
5:00PM - 7:00PM 8:00PM

Saturday June 24
Poets Sleeper
5:00PM - 6:00PM

Sunday June 25
UW EngSoc goes to Pride
10:00AM - 6:00PM

Monday June 26
EngiQueers
4:00PM - 6:00PM

Tuesday June 27
Games in POETS
3:00PM - 7:00PM

Excel VBA Workshop
6:00PM - 8:30PM

Check out up-to-the-day event postings on the Engsoc website at engsoc.uwaterloo.ca/event-calendar/
How have we gotten to this point in the term already? I guess when you’re having a great time (i.e. EngSoc), time just flies by. There have been so many things going on and I’m not talked to 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 voting on 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 constitution, and bringing up 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 proxies 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 https://bit.ly/EngSocComRec18. If you have any questions about what it takes to be a commissioner, please email the Executive at vice.president.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 time 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 Exam Bank. They are willing to cooperate and work towards a middle ground, but not much has happened as of yet. More to come on this at next week’s meeting.

I also met with the CESS (Chemical Engineering Student Society) and NESS (NanoTechnology Engineering Student Society) Presidents this past week in passing, and 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 better services for our students. The Sub-Society Presidents have been very responsive to us reaching out, so hopefully progress will be made on the 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 relayed 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 mid-July, where we will collaborate with all 6 of the faculties on campus, and raise a total of $30,000 for Plan International (Canada) to support an organization (i.e. EngSoc). 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 ;)

---

**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 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 time 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!

Since the Square system isn’t up and doesn’t Work (Psst. There’s Stuff Happening) ( but not too Busy for you :) )

**Michael Beauchemin**
**VP OPERATIONS AND FINANCE**

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/waterlooworks-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 recently include being able to 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 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. If you are interested in becoming a resumé critiquer, please email resumesrece@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 course resources 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, you did know you can see all past Course Critique results of all professors online after logging in here: https://www.eng.uwaterloo.ca/ critiques/next time ;)

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

---

**ABDULLAH BARAKAT**
**PRESIDENT**

**So Much Spirit! So Much Hype! So Much EngSoc!**

---

**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, but I assure you, something has happened. Hopefully everyone with hell week made it through intact, and for those of you poor souls who still have exams coming up...

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 the Office this week between 11:30 and 13:30 any day.

Coveralls have been ordered, and are expected to arrive sometime this month, so to all those who bought coveries, check back often! Also pay attention to the date of the upcoming Fire Sale, as it will be a great way 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 won’t need to spend any 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 (“* 5 *”) . Also in POETS, the sleeperow is happening this weekend, so bring your friends and your friends and your friends for relaxation. We will be running board games, music, movies, and maybe even a surprise guest appearance by a Wii with a Helse and Bloot theme. Sponsorship allocations have been finalized and are awaiting approval. Come out and see how 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 contempt for the best 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 like talking 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). In case you still need something else to talk about, bring a burning question, comment, or insult, feel free to stop by Wednesday mornings between 8:30 and 13:00 for orphan sponsors. I’m always happy to have visitors.

---

**THE IRON WARRIOR**
**WEDNESDAY, JUNE 21, 2017**

---

**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 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 time 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!

Since the Square system isn’t up and doesn’t Work (Psst. There’s Stuff Happening) ( but not too Busy for you :) )
NASA Names Space Probe after Living Scientist

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 radar 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 its 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 Solar 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 internment 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 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.
A TRADITION CONTINUES
ENGINEERING DAY
JULY 14, 2017
HOSTED BY ENGINEERING ADVANCEMENT
11:00 AM – 1:00 PM
COLOUR THROW AT NOON
CPH COURTYARD

» Purple Colour Powder Throw – Wear A White Shirt!
» Ice Cream Truck / Cupcakes / Popcorn / Boggan Burgers
» Celebrate The Tool’s 50th Birthday with The Tool Bearers
» Dunk Your Prof. Tank, Inflatable Games & Photo Booth

FREE FOOD. NO KIDDING.
#WEARETHEENGINEERS

JOIN TENTHOUSANDCOFFEES.COM/HUB/WATERLOOENGINEERING
Eveline is in artistic ways and synthetic pony tails and dreadlocks grace the goth clubs. Romantic and Victorian goth takes a more luxurious turn, with steel-boned corsets, ruffled silk and tumbled 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 but spider, and skeleton motifs, and studded/spiked accessories with pink pieces, pigtails, glitters, 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 with real antique accessories, like lace and vintage consignment stores, and strega jewellery can be bought from any local occult/new age store (think you think represents your personal tastes in the eclectic, the peculiar, and the ghastly. If you have an interest in the

Consequently, because of its namesake, strega fashion does usually contain motifs and accessories relating to witchcraft, such as pentagrams, triple moons, and crystals. Although 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 lead 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 draped, striped stockings, corsets, strappy 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 style, it started to seep into other alternative substyles, 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 (called “punk”), among others.

Welcome back to Seams Unusual, where interesting and uncommon alternative fashions are bandied 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, 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 “elderglass”, 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 and pinned, and adorned in chains and studs. Amongst 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 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 modifying your clothes? Layer some pair of stockings to create your own trad goth look. Scared of getting creative with modifying your clothes? Layer some darkling 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 ghastly.
**Do Androids Dream of Electric Sheep?**

Do Androids Dream of Electric Sheep? was published in 1968 and is the basis for the movie written and directed by 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 the extreme radiation poisoning. The story follows Rick Deckard, a bounty hunter who “re- tires” humanoid androids who have infiltrated Earth. These androids are identical to humans and is the bounty hunter’s job to “retire”—or effectively, kill—rogue androids. In order to do so, Deckard receives a new live animal to replace his electric sheep, Deckard takes on a case to retire six Nexus-6 androids who violently fled Earth. The question of the construction of these androids, Deckard faces the need for existential fulfillment and contemplates the ethical questions that arise in this dystopian novel. 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 technology are now the dominant force in the form of androids. Do Androids Dream of Electric Sheep? brings into question the reality of existence, 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 and Imperial Japanese Army (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 German control, and the west, now called the “Pacific States of America” (PSA), remains under Japanese rule. President Franklin Roosevelt was assassinated in 1933, leading to the continuation of the Great Depression and 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 an artificial sea and developed a hydrogen bomb, and designed high speed rocket travel to colonize Mars, Venus, and the Moon. Throughout the novel, characters discuss what is real and what isn’t. One book within a book, 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 is hired by Stanton Mick to secure their lunar facility with a team of 11 inertials. Runciter, 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. Chip discovers that ‘Ubik’ is the 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 what 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 can’t 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**

**VINCE MAGAS**

**4A MANAGEMENT**

**HI REPLAY**

Following suit with the last article on aviators, there is a crucial piece of clothing that just shines brightly to me. I am talking about that iconic look that spells cool from every angle: the leather jacket. Worn by people of all ages, this jacket has been a staple since the late 1800s and has evolved each decade. Its function has also changed over the ages. The most common division, from best to worst quality, are: Full Grain, Top Grain, Genuine Leather, and Bonded Leather. These four divisions, along with the inclusion of synthetic materials, are the leather jackets you see in today’s market. Full Grain and Top Grain are often expensive and of top 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. The second tier includes genuine and bonded leather 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 Grain Leather, and feels thinner depending on the construction. Bonded Leather is often cheap, low-quality leather that is made from synthetic leather that is pressed down and chemically bonded. This grade is less durable compared to the other grades due to its construction from man-made materials. Synthetic leather material also exists in the market, and is often much cheaper than the other options. These are often certified to be second-rate quality and offer little or no maintenance in comparison to animal hide leather.

There are as many grades of leather, the possibilities for different animal hides are extensive. The most common leather made from cows, which is known as steer hide. Often by-product of slaughtering for meat, steer hides are strong and usually very soft. Jackets made from steer hide require a long break-in period and must be pulled on and hosehide are also common materials for leather jackets that provide much the same qualities as steer hide.

Turn of the century, the leather jackets include deerskin, goatskin, and lambkin. Often the choice for cool or warmer weather, these provide mid-price jackets. These are synthetic materials too, and do not feel as soft as hides like steer hide. For example, lambkin often provides the smoothest and softest of leather jackets. The downside to these materials is these are often not as durable as steer or bison.

In a little over a hundred years, leather jackets have moved from being an essential, functional, sturdy jacket to an immortalized look that is known throughout the globe. Over the years, leather jackets have been featured in countless films, and even made into a fashion statement, but they endured to make it to modern day. Today, there are thousands of different styles of leather jackets for both men and women, with 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.
James Comey Testifies in Senate Hearing

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 perception of the Russia investigation.”

The New York Times also reported on this meeting last month, and Comey’s account ended up agreeing on “honest loyalty,” although they probably interpreted this term differently. However, he and other colleagues agreed this was still “very concerning.”

Mueller Investigation

There were reports the same week that Rosenstein has appointed Special Counsel Robert Mueller to lead an inquiry into President Trump’s post-campaign behavior and possible influence the 2016 election. Trump is also being investigated for obstruction of justice in relation to firing Comey, because of which he was given a special counsel.

According to The Washington Post, the FBI is also looking into Jared Kushner, Trump’s son-in-law and senior advisor. Kushner, according to The Washington Post, has continued...
Salve citizens of Waterloo. I, Gaius Lucius Agrippa, welcome you! I am currently away, enjoying the sites of Valentia Edetanorum, a new colony. My name is Gaius Lucius Caesar and my purpose is to inform you about the great man himself, Gaius Julius Caesar.

Gaius Julius Caesar was born c. July 12th, 100 BC, in the city of Rome. His family, the Julii, was a prominent and influential Roman family. Caesar's father was named Gaius Julius Caesar the Younger, and he was a military hero who had distinguished himself during the Second Punic War. Caesar's mother was Cornelia, who was known for her piety and moral integrity. Caesar was a member of the gens Julia, one of the most prestigious and influential families in ancient Rome.

Caesar's early life was marked by personal tragedy. His parents died when he was young, and he was raised by his uncle, Gaius Marius. This uncle would later become a significant player in Roman politics, first as a powerful general and then as the leader of the so-called Marius-Pompey coalition.

Caesar received a great education, studying under some of the greatest minds of his time. He was fluent in Greek and Latin and was skilled in philosophy, rhetoric, and military strategy. He also served as a tribune in the Roman Senate, which was responsible for overseeing the military and other important public affairs.

Caesar's military career began in 84 BC, when he was appointed as a legate in Spanish warfare. He distinguished himself in battle and gained a reputation as a capable and fearless commander. Caesar's military success led to political success, and he was appointed as a praetor in 63 BC, a position that allowed him to govern a province and to raise an army.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and M mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.

Caesar's political career was marked by his ambition and his willingness to take risks. He was a member of the so-called Second Triumvirate, a group of three men who controlled the government of Rome. The other two members of the triumvirate were Pompey the Great and Mark Antony. The triumvirate was dissolved in 44 BC, and Caesar was eventually declared dictator perpetuo, or dictator for life.

Caesar's military campaigns were also successful. He conquered the Gauls in 58–51 BC, and then he turned his attention to the province of Cilicia. During his time in Cilicia, Caesar was able to assert Roman dominion over much of the region, and he returned to Rome a hero.
Felt Like I Didn’t Belong In Software Engineering

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 Advisors wanted you to know that they are available to you, anytime. You can come in person for a chat, call or write an email. They also are available on Facebook, in the open forum, and via the Q&A forum. An important message is that you are not alone and that you can reach out if you are struggling with mental health.

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

Okay, well I’m 4A Software Engineer - I graduated, about a year ago, from the University of British Columbia. I’ve been working for a top tech company this entire year, and I’ve been dealing with this depression the entire time. It’s not that I didn’t have it before, but I didn’t really talk about it until this year, I guess. I had some really bad panic attacks and I lost my job this year. I’m really struggling with this depression, and it’s really hard for me to talk about it.

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 for my parents. It was really 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 know until after I told them, 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 only you take it every three weeks or so. I went to counselling through my family and there was a very big issue between my family and I. It was very hard for me to talk about it with my family. I was scared of being judged, of having people find out, so I didn’t tell anyone. I was keeping it bottled up.

Q: Do you have any advice for anyone in SE or any other engineer feeling 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 fields that I have ever been in. I’ve talked to people in Systems Design and their class sounds more like a community. Software is that it is one of the most competitive fields, and you have to work very hard every day to get where you want to be. It’s very discouraging when doctors essentially say ‘I can’t do anything for you.'

Q: One last question, you mentioned being on anti-depressants, there’s a pretty big stigma for taking medication 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 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 not different from taking medication to help chronic pain. Mental illnesses are legitimized, and they are just as serious as physical illnesses. If you feel like you don’t feel good, you should go to the hospital. I think it’s important to see a doctor, 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 Haille Steinfeld. It’s all about love and life. I like it because it makes me feel like a boss, it makes me feel empowered.
Ahh E3, the console gaming event of the summer. Where people from all around the world come together (well, I was watching live-streams) 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 prefix 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 forever. It’s going to be released in November 7th this year, but unfortunately for a $499 price tag (USD). 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 Assassins Creed Odyssey. Also, Minecraft is coming to the console in 4K, so get excited for those high quality Minecraft spectators. 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 recent 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 Bandicoot N. Sane Trilogy (shoutout 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 Patient. 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 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 that companies “need” a lot of money to survive, I feel like this need to be a bit hypocritical and talk about how Nintendo swept the floor with their announcements.

Next up, I’m a huge Nintendo fan, so this year I was talking about the game. It was a lot of announcements, but I think that they should KEEP UP THE GOOD WORK, and perform web searches and documents, music files, shop online, webcams. But I think it might be possible that you could try searching for Wikipedia articles online and check out EA, Bethesda, and Ubisoft, and other companies present.

From the Univer/Chair of Planet of the Arts and the Director/Writer of Planet of the Arts, comes an audio/visual assault on the series famed for the original production of Hamlet...

**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 moment he was killed and would be the gathering place of a riot of plebeians who supported Caesar. This mark would begin a 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 went on to include a number of future Rome Emperors who would continue to shape Rome and its realms. The man Gaius Julius Caesar made 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

**The Truth About What Happened to Windows 9**

**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’s flagship) just released windows 10 just over a year ago. Now, you’re sure that you’re all familiar with them for Windows, the operating system that comes with our 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 realize 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 known as Windows 10. Even though it might 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 the case.

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 tobrainswash their customers, but I think that Cortana serves a much more insidious purpose. Cortana not only listens to everything you say and is a very good at being a source of information. I think that this is a good move on Microsoft’s part. However, we all already have tape over our microphones, so that’s probably not too much of a concern.

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 a 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 the only time they have had time to view, but also check out EA, Bethesda, and Ubisoft, and other companies present.
The Iron Crossword
Thigh Bone’s Connected to the... Arm Bone

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
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
28: Consumer Electronic Control (abbr)
29: Internet speak for “laugh uncontrollably”
30: Orc variant of Warhammer 40K
32: General, interdisciplinary bachelor’s degree
33: Table that encapsulates an ideal
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
41: Head garment
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
46: Tolkien monster based on elves
47: Feces
48: Head garment
49: Japanese dish that typically includes raw fish
50: Dinosaur identified by “Me” and “Power Rangers"
51: Term used to describe a site
52: First Nintendo handheld with a camera
54: Head garment
56: Rest on your knees
57: Animal of cock-a-doodle-do
58: Learning outcomes
59: Family treasures
60: Downhill or cross-country
64: First modular space station
65: Famous WWI Belgian battlefield
66: Emergency Alert System (abbr)
67: Academic help office on SCH second floor
68: Notice with one’s eyes
69: Amount (abbr)
70: International Literacy Association (abbr)
71: Opposite of behind
72: Notice with one’s eyes
73: Notice with one’s eyes
74: Opposite of behind
75: Notice with one’s eyes
76: Notice with one’s eyes
77: Notice with one’s eyes

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: On or explanation
11: On one’s/his/her birthday
12: Jane ____, frequent lawsuit bringer
13: Entity Relationship Diagram (abbr)
14: Power source of the Voyager space probes
15: Emergency Alert System (abbr)
16: French for “to be”
17: ___ Walsh Jennings, US beach volleyball
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
28: Consumer Electronic Control (abbr)
29: Internet speak for “laugh uncontrollably”
30: Orc variant of Warhammer 40K
32: General, interdisciplinary bachelor’s degree
33: Table that encapsulates an ideal
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
41: Head garment
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
46: Tolkien monster based on elves
47: Feces
48: Head garment
49: Japanese dish that typically includes raw fish
50: Dinosaur identified by “Me” and “Power Rangers"
51: Term used to describe a site
52: First Nintendo handheld with a camera
54: Head garment
56: Rest on your knees
57: Animal of cock-a-doodle-do
58: Learning outcomes
59: Family treasures
60: Downhill or cross-country
64: First modular space station
65: Famous WWI Belgian battlefield
66: Emergency Alert System (abbr)
67: Academic help office on SCH second floor
68: Notice with one’s eyes
69: Amount (abbr)
70: International Literacy Association (abbr)
71: Opposite of behind
72: Notice with one’s eyes
73: Notice with one’s eyes
74: Opposite of behind
75: Notice with one’s eyes
76: Notice with one’s eyes

“What is your hell week ritual?”

“Alcohol, tears, and self love”
Nik Vanderveen, 3A Tron

“No sleep, just power naps”
Abdullah Barakat, 4A Mechanical

“Isian drama and instant noodles. (and occasional studying)”
Carmen Huynh

“Drowned in my TEARS and COFFEE”
Mariko Shimoda, 2B Mech

Solutions for previous crosswords can be found on The Iron Warrior’s website at twarrior.uwaterloo.ca/distractions.