

THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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International Exchange

Get Started, See What Happens



JOSH LI
3A MECHANICAL

Deep down, I think we all have that eagerness to explore and travel the world. One of the best ways to accomplish this as students is embarking on an international exchange. By doing so, you get to literally settle in another person's shoes, walking in their country and campus whilst continuing your studies and your degree at the same time.

For each of the reasons that motivates you to apply there will also be a subtle 'but' to doubt yourself. I would love to go to France but I've forgotten all my French. It would be so amazing to meet some Swedes but I would miss my younger sister. I can't wait to take courses at NTU but that flight is too expensive. So rather than spending this article convincing you how the pros are miles ahead of the cons, I recommend you take a "Get started and see what happens" approach.

It starts on the engineering exchange page, all the universities Waterloo has partnered

with around the world. Even if you're unbelievably afraid of leaving the country, get started and you just might see a familiar school with a friend or a classmate who's exchanged here.

Nonetheless, Waterloo students before you have been to every university on that list. The Go Abroad Waterloo Facebook page is the next step in finding someone to connect with. Recently there was a mega post on all the destinations this year's exchange students are currently or about to study at. I highly recommend you give that a look and reach out to any student studying at a school that interests you. With today's instant messaging technology, all of this is easily possible across continents. Not to mention how willing current exchange students are to help those coming up.

The human surrogate model is what I'm trying to lead you in participating. The model states that the real experiences of others have been proven to be considerably better than your imagination at predicting your own future happiness.

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"British people love talking about the weather" - Welcome Team, Day 1

Netflix Promises 500 Million for Canadian Content

Canada has seen an upswing in film production in the past few years. These are just a few of the many blockbusters to come out of the Great White North. You might have heard of them...

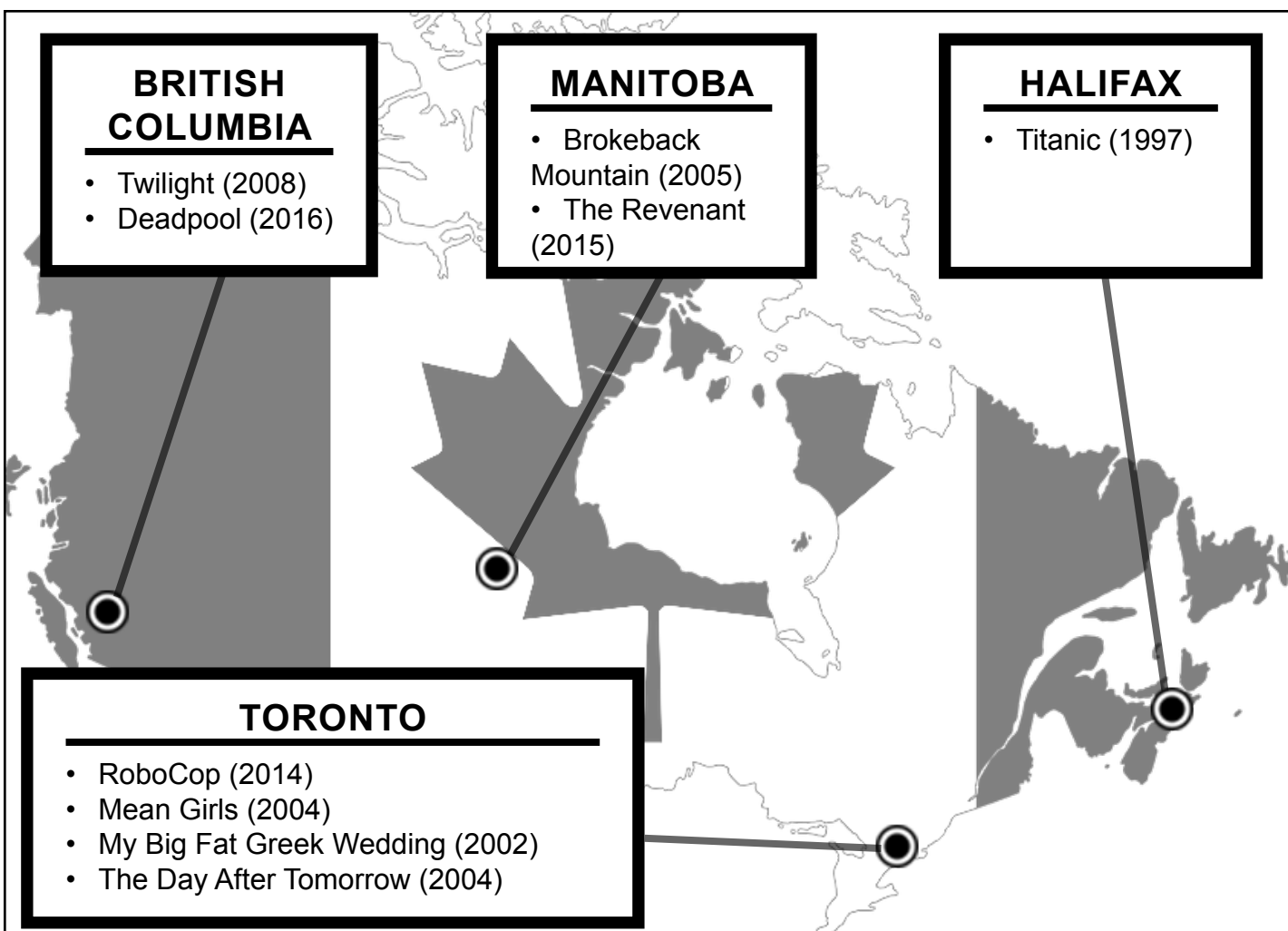
IW STAFF WRITERS
ENGINEERING

On September 28th, Heritage Minister Mélanie Joly detailed the Creative Canada Policy during a speech in Ottawa. The policy outlines changes that will make Canadian media content more prolific in the globalized digital market. Under this policy, the Canada Media Fund, a public-private partnership which provides financial support to Canadian television show and video game productions such as Spaces' sci-fi show "Orphan Black" and horror video game "Outlast", is expected to receive a significant financial boost from the federal government. Funding for national book and music funds will also be reviewed, and the Copyright Board of Canada will be reformed to better protect the rights of Canadian content creators. There are plans to update the Broadcasting Act and Telecommunications Act, which has not happened in nearly 30 years despite the popularity shift towards internet broadcasting in that time.

This policy has caught the attention of US digital media giants who aim to capitalize on increased federal funding and copyright protection given to Canadian creators. Netflix has pledged to invest \$500 million in Canadian video media production over the next 5 years, outside of the Canada Media Fund.

Netflix's sudden injection of funds and promises of additional rights for media creators excites Canadian content producer organizations such as the Writer's Guild of Canada and the Alliance of Canadian Cinema, Television and Radio Artists.

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Letter from the Editor

(Pumpkin)Spice Up Your Life



GABRIELLE KLEMT
EDITOR-IN-CHIEF

It's October and you know what that means: the MIDTERMS are upon us. What could be worse than the start of October? Walking around stressing about the exams you are about to be delivered with the feeling of dread in your stomach is the worst. Well get that gloomy cloud away from your head because I'm here to tell you that October is the best month of the whole damn year and I'm not going to mention apple picking or pumpkin spice whatever once! Apart from just now, that was an exception (I hope).

For better or worse, October is the month of midterms, but that doesn't have to define it. They're necessary and if you're lucky your final mark will eclipse this one by a long shot. If you're a first year freaking out about physics, chillax. I know enough people who failed the midterm – yes that dreaded F word – and they're still in the same program doing fine years later to tell you all about it.

October is also the quintessential autumn month, I fell in love with fall at an early age because growing up in Ontario I was incredibly lucky to get to experience the colours we have in the province that other provinces don't get! My parents were avid outdoors people and took me and my sister for hikes out of the city to get colour in our cheeks, wind in our hair, and to collect the paraphernalia of the season.

To this day I find it hard to walk past fallen chestnuts or acorns without collecting a few. And pretty leaves? Don't get me started, I probably have a pile sitting on my desk right now. Another of my favourites? Milkweed. If you don't know about this *cough* superior weed then you're missing out, nothing is more cheerful than a milkweed pod splitting open and sending fluffy seeds into the world!

The most psyched I get about anything these days is at the thought of spending time outside in the fall. Even when I'm enjoying a sunny summer day I'll feel a little pang of longing at the thought of how exquisite the view would be if the trees were shedding their multi-hued foliage and the air was just 20 degrees cooler.

And I know as students it's difficult for us to spend any time at all outside. It can seem like all day from 8:30am-11:00pm you're toiling away to LEARN, but that doesn't cut it as an excuse! Have your group project meeting on the POETS patio, eat your lunch on the red chairs outside the Tatham Centre, walk across

campus to get your study-break coffee, sit in a lab that has windows so you can at least stare at what you're missing! Probably there's a study somewhere about how sunlight helps productivity and I am a firm believer in this unproven fact!

When I was on co-op last fall, I got to really experience the changing of seasons for the first time in my life. Instead of being focused on school, I was able to see how my walk home from work changed day by day without things like assignments, reports, and goodness knows what else clogging up my headspace. It's true that as a student we can't necessarily get out and enjoy the seasons, but we are Waterloo Engineers which means we have four months every other term to completely uproot and focus on new things. Maybe this fall you're in school and living under a pile of books, but next fall you'll be out in the real world, experiencing it!

What else does fall have to offer other than crisp air and beautiful colours? Thanksgiving! The best holiday of the year, don't argue with me on this one folks, I'm right! It is the holiday everyone can celebrate, no matter who you are or what you believe; everyone has SOMETHING to be thankful for. It doesn't have to be about family or food, it can be about friends and taking a break from your hectic life to look at it from a distance and say, "This is one thing I am lucky to have". It's the best mental health holiday because there are no expectations of you; no one gives Thanksgiving presents, just hugs. Plus, it helps that this holiday incorporates two amazing pies, apple and pumpkin! When there is a legitimate excuse to consume unholy amounts of pie one should never complain.

If you need one more reason to love October because pie doesn't cut it for you, there's Halloween. I have been a drama queen at heart from birth and the idea of dressing up for a day without being looked at like a weirdo is fantastic. It's not just about dressing up, there's pumpkins and all the exciting possibilities they entail. Carving contests, pumpkin seeds, experimenting with cooking them? Maybe you have a benevolent streak and you want to give out candy to children, or maybe you're like me and you're gonna hit up Rocky Horror at the Princess! This is my favourite Halloween tradition by far, I used to just watch the movie at home but being part of the audience at a screening is much better!

So I've gushed about fall, when do I talk about midterms? I suppose it's my duty as EIC to share my nuggets of worldly wisdom on the topic, though I can't truly condone following my methods. I take what I like to call the

Harry Potter Approach to my exams, which has had mixed success rates, read on at your own peril.

About two weeks before midterms I turn into Hermione. I get way too stressed out, plan my studying hour-by-hour in an intricate study schedule that no human could ever follow. Then I pour myself a cup of tea while admiring the thing of beauty that is my study calendar, which I promptly hang on my wall and totally ignore.

This is when I become Ron. There's no point in getting too worked up over something that's weeks away, I'll worry about it when my study schedule comes into effect... but there's other things going on in my life. Group projects, assignments, a new season of Riverdale comes out on Netflix, and before I know it Reading "Week" has come and gone. Not only have I not started studying, I haven't done the practice problems and my looming exams are staring me straight in the face.

Now I do the Harry. I get scared into action and bite off way more than I can chew in the amount of time I have left. I focus my time on summarizing notes instead of practice questions, I waste hours in the library eating muffins and laughing with my friends, complaining about how hard my coursework is instead of doing the work, and come home late feeling like I've achieved nothing. This usually leads to staying up late the night before, frantically Skyping friends who have prepared and worrying about small details that will almost certainly not be on the test while ignoring important concepts that most certainly will make their way onto my exam paper the next day because I find them hard. Of course something will be too hard to learn the night before; that's what a study schedule was meant to prevent!

Sometimes, when I haul my butt into the exam and sit down to write my midterms, my sporadic preparation pays off. It also helps that I bring my surfing shorts and can ride the curve to pretty decent mark - just gotta do better than 50% of your class and you're golden!

The gist is to start preparing early but don't stress too much. I think we're all mostly Harry, we care but we just don't quite have our shit together enough to be Hermione. We try hard and our work pays off but no matter how hard we try, life can get in the way. Maybe we have to select which courses truly require our attention and which ones it is ok for us to study less, or maybe despite our best efforts the prof has included material on the exam that it never occurred to you to study. In my opinion, these are the most valuable life lessons university teaches us that we will carry over to post-uni life. Oh, and never print something the day of. Ever.

THE IRON WARRIOR

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Say What You Wanna Say

Twitter doubles 140-character limit



SAMRIDHI SHARMA
2B CHEMICAL

On September 26, 2017, a Tuesday which marked a turning point in the history of Twitter, the social media platform announced a character limit increase from 140 characters to 280 characters for a few randomly selected Twitter users. The new character limit may be made available to all Twitter users depending on the success of this test run.

The decision to make the change was stimulated by the observation that different languages require the use of different numbers of characters to form expressive thoughts. Twitter noticed that

while a tweet in Japanese is on average 15 characters long, the average length of Tweets in all languages is 68 characters, with 9% of all English Tweets reaching 140 characters compared to 0.4% Japanese tweets that hit the limit. The company, from this research, realized that almost all languages except for Japanese, Chinese and Korean struggle with the existing character constraint. This 140-character limit, according to the Twitter CEO, Jack Dorsey, is an arbitrary number based on the 160-character limit in SMS. Expanding this limit to 280 characters would mean making the process of tweeting less frustrating for most users, while maintaining the concept of brevity that Twitter is famous for.

In the last couple of years, Twitter has relaxed the restrictions on its

140-character limit by ceasing to count usernames, photos and retweets towards the character limit. However, this is the first time that Twitter has gone so far as to directly increase the available characters to make more room for longer thoughts. In 2016, Twitter seriously considered increasing the character limit to 10,000, allowing users to compose multi-paragraph tweets. This was met by a quick disapproval from users before Dorsey decided to preserve the 140 characters, a Twitter trademark.

In the Tweet announcing the change, Dorsey stated that cramming one's thoughts into 140 characters "...has been a real problem people have when trying to tweet." Twitter is aware that an overnight doubling of character limit may not sit well with its users who have been tweeting for over a decade using 140

characters. But the company hopes that the change, while resolving the problem of crammed expression, will allow for the crisp bursts of communication instrumental in broadcasting breaking news.

Although only a single-digit percentage of users are able to Tweet using 280 characters or less for the first few weeks, Twitter hopes to make this feature available broadly later. Even then, it is not guaranteed that 280 characters will be available to everyone eventually. When asked if the new limit is something Donald Trump, probably one of the most influential Twitter users, will be able to enjoy during the trial run, Dorsey said that these users are randomly selected and the Commander in Chief may or may not be one of them.

Big Hopes for Jagmeet Singh

NDP elects a new leader

JANNY WANG
1A NANOTECHNOLOGY

For much of its existence, the NDP has been the acknowledged hangers-on of federal politics - an awkward mishmash of labour activists and leftists, always an inch short of the much coveted title of "Major Political Party TM", but half an inch above the swirling vortex of eco-friendly irrelevance known affectionately as the Greens. Jack Layton rescued his party from this perpetual limbo, before he passed away due to cancer six years ago. Tom Mulcair his successor made a valiant attempt at torpedoing his party back into irrelevance before being unceremoniously kicked to the curb.

The heir of this semi-socialist identity crisis is Jagmeet Singh, a criminal defense lawyer and MPP for the pithily named Bramalea-Gore-Malton riding.

To sketch a brief biography: Jagmeet Singh was born some thirty-nine years ago in inauspicious circumstances- which is to say, he was born in Scarborough, a bleak tree- and-concrete mix of Siberia and suburbia. Happily for him, most of his childhood was spent in St. John's and Windsor. The bulk of his childhood is shrouded in obscurity- none are willing to testify to any extraordinary or prescient displays of genius, heroism, or villainy. However it seems fair to judge with a historian's impartiality that he was at the end of those eighteen

years a competent and well practiced holder of forks, for he emerges shortly after as a student, and then as a graduate, of Osgoode School of Law in York University.

He was a criminal defense lawyer for many years before he decided to enter provincial politics as a member of the NDP and became the MPP for the Bramalea-Gore-

Malton riding. In 2015, he was named the deputy for Andrea Horwath, leader of the Ontario New Democrat Party. As a MPP he sought to reform the automobile insur-

ance industry, helped establish Sikh heritage month and end carding, and attempted to introduce a bill that would allow Sikhs to ride motorcycles without helmets.

So much for the past; now what of the future?

Mr. Singh's motto thus far has been "Love and Courage". In practice, this

mitted "ambitious" emission reduction targets, he has perhaps even more ambitious plans to tackle tax evasion and introduce further progressive taxation.

For workers, he wants a fifteen dollar minimum wage and an end to unpaid internships, equal protections and wages for temporary workers, and an end to long-term temporary work. For Native Americans, he has promised further investment into education, housing and infrastructure; for trans and non-binary Canadians he has promised further flexibility with regards to gender markers on federal ID and provide safe housing to "LGBTQI2S+ youth at risk or experiencing homelessness"; and for amateur journalists, it is hoped that he will reform his website to be easily navigable.

Mr. Singh, at a tender thirty eight years of age, is even younger than the Honourable Prime Minister Justin Trudeau. While some may say he's less pretty, he at least has a recognized sense of style rivaling that of the PM. There are high hopes that his young age will be an advantage as he runs against Trudeau in the 2019 elections. Critics have the consolation that at least he can hardly be worse than Mulcair.

In addition, I need hardly remind my readers that he is the first Sikh and the first visible minority to be leader of a major Canadian party - it only remains to be seen whether he can become the first NDP Prime Minister of Canada.



ideas_dept via Flickr

Jagmeet Singh at the 2017 Pride Parade in Toronto

Malton riding. In 2015, he was named the deputy for Andrea Horwath, leader of the Ontario New Democrat Party. As a MPP he sought to reform the automobile insur-

translates to a shift to the left for the NDP, which observers uncharitable to his predecessor may call a return to form after the latter's shenanigans. On top of his self-ad-

What's the Verdict?

Trudeau's Tax Reforms

AARON PROPP
2A COMPUTER

The consultation period for Justin Trudeau and Bill Morneau's tax reform ended October 2nd. The tax reforms deal with two main loopholes in the use of private corporations, passive income and income sprinkling. If an individual incorporates and makes it the top tax bracket, they will be charged the small business tax rate of 15%, compared to if they didn't incorporate in which case the tax rate could be as high as 50%.

The second plank of the tax reform is income sprinkling. This is when there is a family business and family members are earning income, despite not doing

any work in the business. The government has proposed a reasonableness test, yet to be defined, to determine whether that family member is doing work to earn the income.

The Conservative critique of the government's tax reform plan is twofold. For income sprinkling, the concern is that the amount of paperwork and red tape will increase across a lot of family businesses, just to catch a select few families using it for income sprinkling. As well, the reasonableness test proposed by the government is left vague and ill-defined. As for closing the loophole on passive income in private corporations, the Conservative concern is that it will have an unfair impact on legitimate small businesses, such as farm-

ers and entrepreneurs, increasing the tax rate up to 73%.

The Liberals' perspective is simple. A private individual incorporating should not have a lower tax rate than an unincorporated individual simply because they incorporated. In regard to family businesses practicing income sprinkling, the Liberals claim that 50,000 Canadian families are doing this illegitimately.

Regardless of whether the tax reform plan had merits to it, the implementation was not well thought out. For one targeting private corporations is the symptom, not the cause. The cause is that the top marginal tax rate in some provinces is as much as 50%. When you tax someone at a rate that they perceive to be unfair, they will start looking for ways to avoid

paying that much such as incorporating.

When the Liberals introduced the bill, it was in the middle of the summer. As a rule, in politics, things introduced in the summer are generally something the government wants to push through with little debate. Leaving only a month left in the fall for consultations made the proposals seem rushed.

Finally, portraying the debate as a class divide between the hard-working middle class and wealthy doctors and lawyers was a mistake. Especially considering that it came out later that both Bill Morneau and Justin Trudeau have benefited from tax planning measures. We only have our neighbours to the south to look at what happens when you pit one group against another.

Impressions of UW

DANIEL MCCORMICK
1A COMPUTER

I remember when I was accepted to Waterloo, I couldn't believe it! It was a Friday, I just did poorly on a bio test, and wasn't feeling too good, when I checked my email and saw the letter. I thought it was spam or fake, but given that I'm here, evidently not. At first, I was euphoric. Everyone who wants to be in a good engineering program has heard of Waterloo, and it's amazing if you get accepted. However, I'd imagine many of us heard the same thing about Waterloo: Waterloo is full of the brightest and best, and there's no way I'd keep up. As I thought about it over the summer, I was nervous.

I heard the people were all very competitive and hostile to each other. To quote a friend in CS: "They'll chew you up and spit you out". I heard about how they rank all the engineering students by marks, so you can figure out exactly what position you are in. While apparently, they do rank students, everyone is extraordinarily kind. If you have a question you can just ask an upper year and

they'll help you out. While the course work may be challenging, the people are an absolute delight.

As for school, while the material can be challenging, it's by no means impossible. With all sorts of practice work available, and many friendly professors, nothing in the schoolwork has been impossible, by any means. While it's true there was more work than in high school, if you manage your time, there's still time to relax, just a bit later in the day. On top of that, the work is all courses I knew in advance and find interesting. Something people neglected to mention is that if you pay attention class, you can spend less time studying, since you already have a more solid grasp of the material.

One unfortunate downside is that engineering demands an awful lot of time, and there's never enough time to do everything you want. Whether there's a ferris wheel or free cotton candy, it leaves difficult decisions about what to do with your little free time. There's never a better time to get involved with so much stuff than university, but school and co-op tend to come first. Now to see if those sacrifices pay off on midterms.

Hidden Places on Campus



DONOVAN MAUDSLEY
4A MECHANICAL

The University of Waterloo campus is a dense maze of buildings, passages and patios, many of which are unknown to the casual visitor. While there are the obvious hot spots, the E5 - E3 skybridge or POETS, many students can go their whole stay at Waterloo without discovering everything there is to know about campus, or even one building. For example, yesterday I found out that there are vending machines all the way upstairs in E5. I had been walking all the way to E2 all term just for a drink. In the following article I'm going to cover some essentials for anyone who wants to use campus effectively: where to get coffee, where to study and meet with groups, where to shower, how to shortcut properly, and East Campus Hall, the most obscure building on campus.

Everyone has been there. Walking to that 8:30 class and knowing that the line at Tim's will take at least 20 minutes so you don't even bother. It's just not worth it. There is another way though. Campus is actually riddled with little cafes and coffee shops where you can get your early morning after Bomber Wednesday/late night working with a student team/been doing a work term report for 12 hours straight caffeine fix. The obvious locales are the campus Tim

Horton's (SLC, DC, SLC again, SCH, UWP, DC again) and don't overlook the one in Modern Languages over in the arts quad, as it is small but mighty. Next most obvious would be the actual Food Services locations like Pastry Plus (B.C. Mathews Hall, Needles Hall, or The Tatham Center but only during interview season), Liquid Assets Cafe in Hagey Hall, Eye Opener Cafe in Optometry (well played Food Services), Browsers Cafe in DP, the CIET cafe near the dinosaurs, and the Modern Language's coffee shop. There's more though. Willam's has a location on the ground floor of EV3, and is in the plaza right next to E5. There's a Starbucks in STC, as you are probably aware. There's one at AHS as well, in addition to a 'frsh' restaurant serving smoothies and burritos. Last up are some people's favorite places in the world: the departmental Coffee & Doughnut stores. EngSOC's store is in CPH beside POETS, MathSOC runs theirs out of the third floor of MC (right next to their awesomely comfy lounge), and SciSOC's is in Biology 1 or 2 right by the door under the overpass to Earth Sciences. Finally, there is a small Cafe in Environment 1, on the first floor. It's pretty sweet.

But coffee has no real meaning without somewhere to study with it. It may seem like there's never enough room to study on campus, but you just need to know where. There are the obvious choices like the libraries and computer labs, but they're always busy and sometimes way

Continued from page 1

Some have raised concerns over the vagueness surrounding the Netflix deal, however. Brian Baker, the head of the Director's Guild of Canada, fears that the funds Netflix is investing will support "American shows shot in Canada with American talent in all of the top creative functions" as opposed to supporting "Canadian programming". Quebecois producer Roger Frappier, producer of foreign-language Oscar-nominated "Hochelaga, Terre des Âmes", is concerned that anglophone Netflix executives in California will be inclined to allocate little money to Quebecois artists. Frappier is part of a faction who think a Netflix tax would be more appropriate than the 5-year, \$500 million payout, as the money generated from the tax could be more equitably distributed to Canadian artists. Unfortunately for Frappier, but of relief to streaming media consumers, Minister Joly announced that there would be no Netflix tax imposed by the Liberal government, rationalizing that "access and affordability of internet and wireless are real issues for many". Plenty of people, including Frappier and Professor Pierre

Bélanger are also quick to point out that the \$500 million over 5 years is tiny; This constitutes only 1.42% of Netflix's expected expenditures, and Netflix has stated that nearly \$100 million was spent on Canadian content in 2016, so the new agreement is not particularly generous. Vagueness of the policy in general is also a concern to some. Filmmaker Kevan Funk believes the public-private partnerships and corporations that the federal government trusts to fulfill their policies will instead "act in their most immediate self-interest".

The Creative Canada Policy which promises more money and protection for Canadian media producers have some creators optimistic, but it's implications is concerning for others, especially regarding the use of the resultant investment of \$500 million from Netflix. In time, it will be easier to see how beneficial this policy was for Canadian content creators. As Rosalie Wyonch of the C.D. Howe Institute says, at least "we aren't imposing so many restrictions and requirements on them that [American companies] just choose not to do business in Canada anymore".

too loud (looking at you Gear Lab). The Tatham Center and Environment 3 both have rooms available to rent for studying, but they can get filled up fast. MC, that big building you hate from all those first year climbs up its stairs, actually has some really nice areas to work up above the fourth floor. There's even a rooftop garden up there in the summertime. EIT is also a hotspot for studiers in the museum area with the dinosaurs. There's comfy chairs and lots of space. Lastly, for group meetings the PAC has a good reputation. The areas up high have tons of seating, and no one cares if you're loud at all because it's the gym.

Waterloo also has a surprising amount of showers in case of emergency. Whether you got attacked by a goose (it happens to everyone), slipped trying to take a shortcut in the rain, or just skipped your morning routine when you woke up 2 minutes before a lecture started, Waterloo has you covered. E3, E6, M3, the QNC, CIF, and the PAC all have showers in them; you just have to find them.

Another kind of showers Waterloo endures frequently is rain showers, but these can be easily avoided if you know how. For those with a knack for navigating the tunnels and bridges throughout campus, it's possible to get almost everywhere. For those without, there's an app for that. WATisRain is a great, student made tool for getting around campus. Somebody actually went out and did all the research for you and

made a totally accessible android app for those who aren't a living map. It has maps and directions to get you to where you need to go. Unfortunately WATisRain has not been updated in a while, but most of its advice is still accurate.

Lastly I have five things you probably didn't know about East Campus Hall, the strangely useful building way out there. Firstly, it exists. There's more out past E5 than just E6 and construction. That building that you didn't really notice at first, that kind of blends in to the parking lot, and doesn't look at all like its neighbours, that's ECH. ECH houses many administrative offices for UW, from shipping and receiving to various financial offices, but it's also home to a few really cool things. Every month they hold a surplus sale, including computer parts and various office supplies. That new monitor you want might not be entirely out of reach. The details can be found online. ECH is also home to Waterloo's fine arts department, and they have an art gallery (UWAG) on the first floor of ECH. The office for independent studies is also on the first floor, just down from the art gallery. Finally, ECH has an overflow student machine shop, which will be opened to take overflow from the E5 machine shop when it gets busy.

The UWaterloo campus is definitely a maze, but it's a maze that many of us love coming to and that we love to be lost in. Hopefully some of the secret things presented here will make your time here that much more enjoyable.

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Point Vs. Counterpoint

The New Fall “Reading Week” is Worth a Shortened Orientation Week

POINT

HASAN AHMED
2A NANOTECHNOLOGY

Recently, a lot of controversy has been piloting a new reading week, which made some people unhappy due to the shortening of Orientation week. However, even though there are some drawbacks to Orientation week, the reading week has a fair number of advantages that make it worthwhile for this pilot. Granted, I didn't experience the full Orientation week since I was a 2016 first year, so this means I only have experience based on the current pilot.

First of all, it's during thanksgiving weekend. It's always good for students to have the ability to go home and have dinner with their parents. This is important for engineers as we often spend so much time submerged in our schoolwork and extracurriculars that we often don't have time to spend with our parents and family. Not only that, but with an extended weekend, people who live further away from the university, like in Ottawa, Vancouver, or even the United States, can visit their parents too, as a five day weekend gives a lot more travel time. The cost of this is therefore more justified as well, as paying for a 2-day trip is much less viable than a 5-day trip, which in some cases could be extended to the whole week.

For first year students, this may also be the first time they get to go home since they were dropped off by their parents for move in and orientation week. Different first years obviously experience first year differently, and if they're homesick, it's a great chance to relieve that feeling over the reading break. I happen to be a lucky person who's home is just a GO bus ride away, so I don't feel that as often. However, with Waterloo Engineering (and even other programs) being so competitive to get into, especially for international students, we should give them a chance during the first term to visit home and potentially make themselves feel less homesick during the pre-midterm season. This is also fair for the students who did not get to or opted out of orientation week. The new schedule doesn't affect them as much, but they may still want time off of school to visit their families and maintain relationships with their friends.

Other universities have reading weeks too. McMaster (although they start a bit earlier in terms of classes and orientation week) and UTM (University of Toronto – Mississauga) both come to mind in this case. Thus, students also have the chance to see their old high school friends and catch up with them over the week. I usually visit my old high school around this time and say hello to my old teachers, and it's good free time for the student. Although we can't exactly push back our schedule due to coop, residence don orientation, and a variety of other reasons, it's still important to take the reading week into factor for days off for students. Many students get burnt out within the first month of engineering, especially those who may be struggling in the program, and offering that break seems to be working for other universities, and can perhaps impact us in a positive way.

Another thing that makes reading week important is hell week. If you don't know, engineering hell week is the midterm week, during which all your midterms are scheduled. For first years, hell week is right after the reading week, whereas

some upper years have it the week after. Offering the reading week gives us the opportunity to catch up on our courses. It's 5 days to just summarize what we've done in our courses and effectively prepare for midterms by doing practice exams and past assignments, which we probably wouldn't be able to do during school days, since we'd be learning in lectures. Personally, I have three lab courses this term, and to catch up on all my other work and doing these prelabs is really important, as I'm not allowed to miss any labs/prelab write ups. This break has given me the opportunity to do everything mentioned in this paragraph while still being able to hang out with old high school friends.

Reading week can also seem logical since we have one in the Winter term (albeit, that one IS a full week). We also have no reading week in the summer, but we do have a longer term break after that. To have one reading week per year seems unbalanced in that case, because that means fall would be the busiest term if we didn't have it. We'd have the 10 days after the term as our only relaxation period. Winter we currently have the full reading week and the 7 days after to recuperate, and summer we have around 3 weeks before the fall term starts (really though, if you're involved in orientation week it's only a 1-2 week break). Since not everyone is involved in orientation week, we have to remain impartial to other faculties and students in giving opportunities for them to go home and visit their parents. Coop also comes into play, as students on coop don't get a reading week, so they should get to go home when they can as well during their study terms. Nanotechnology engineers happen to have a fall-winter coop, then a spring study term. That means no reading week in between, and thus 8 months of straight work.

So, I'm very much for the pilot of this reading week, as well as against the further shortening of Orientation week. And although I like the idea of a full Orientation week to make it seem more authentic and not rushed, I think it's important to highlight some of the ideas that made the pilot run in the first place.

ALEXA GRITTANI
4A MECHANICAL

Is a shortened orientation week worth an extra two days of break after Thanksgiving? Orientation is an important start to most students' university careers. It introduces students to the university and its community. It gives you time to find your way around campus so you're not getting lost on your way to your first class. Having a whole week for Orientation allows students to get used to living away from home before the stress of classes starts.

Orientation used to last a whole week before classes would start on the following Monday. Now, depending on when you move in, new students only get three or four days of orientation before they are thrust into the stress of classes. Orientation kind of continues after classes have started, but not much happens, and a first-year engineering schedule is very overwhelming, especially if you ever compared it to people you know in other faculties. So Orientation is really only those first few days before classes start.

First-year orientation is a process that helps new students feel better prepared for their university experience. It gives them the opportunity to make new friends so they have someone to sit with on that daunting first day of classes. You've got to become familiar with the environment where you're spending the next five years of your life.

So, if orientation is shorter, it could reduce the success in fostering school spirit and create a welcoming atmosphere for first-years.

So why is the school doing it this way? Well, it's for this amazing new Fall Break that we've just enjoyed. I admit it was nice to have a couple extra days, but I had to move in four days early for two extra days of break. That doesn't really add up.

Some students are losing their break between terms because a lot of coop students work for as long as they can at their jobs to make money. So,

by shortening orientation week, they are losing their guaranteed week off between terms. Is it an even trade off? Losing that week between terms could be preventing some out-of-province students from being able to have the time to go home between terms.

In comparison, Wilfred Laurier University starts classes on the same day as the University Waterloo, but they have a full reading week during the fall term instead of an extended long weekend. They make up for those two extra days at the end of the term. Laurier has the same three days of study break and then a thirteen day exam period that ends on the 22nd of December. Waterloo has a fourteen day exam period that ends on the 21st of December.

So, if Waterloo isn't willing to give us a full reading week in the fall term, why can't they take those two extra days for our “fall break” from the end of the term? They might have to shuffle around a few extra exams, but it sounds doable. Then they wouldn't have to sacrifice orientation week.

Orientation week is so important to give first-years a good first impression of the school and the community. It gives them a chance to see others' school spirit and to find their own school spirit. Also, those first friends you make are important to not feel alone away from home.

When I was in first year I made fast friends with the first people I met in my class so that I knew at least a couple people that I would be spending the next five years of my life with. I also latched on to the first girl I met in my class. This sounds like a shallow way to make friends, but I am still very close friends with that girl to this day. We ended up having way more in common than just what we were taking and it would have taken me a lot longer to drum up the courage to introduce myself to her if we hadn't been in the same orientation group. And now I had someone to sit with.

Orientation is important. Don't cut it short.



uwfroshmedia via Flickr

Orientation is a fun time, check out the aerial photo from 2015; a yin-yang symbol!

Editor's Note:

Point Vs. Counterpoint is a feature meant to stimulate discussion on thought-provoking topics. The views and opinions expressed here do not necessarily reflect those of the authors, *The Iron Warrior*, or the Engineering Society.

The Rusty Knight

A Blast From *The Iron Warrior's* Past



HASAN AHMED
2A NANOTECHNOLOGY

Hey! Just a description of this column; I'm going to be digging down into the older issues of the Iron Warrior to give a little glimpse of the past of the newspaper and Waterloo Engineering as whole. This term, I'm going to review issues from Fall 2011. If you really want, you can get ahead and read them yourself (I would recommend doing this for your classes instead of this column) at <http://iwarrior.uwaterloo.ca/>

So let's dive in to a section of issue 1 of the term, starting with the news. There was a report of scientists providing "inexact, incomplete, and contradictory information" about a 6.3 magnitude earthquake which killed over 300 people in Italy in 2009. The trial was being held at this time and they were being charged for manslaughter, and was adjourned until October of that month. Thus, the Iron Warrior article never actually provided the verdict, but it turns out the scientists were sentenced to 6 years in prison. Kind of eerie how I picked this article right as soon as the Central Mexican Earthquake hit. In other news, the GRT implemented new iXpress and route changes, such as the 200 and 201 now having new stops at King and Victoria, trips from Laurier to Conestoga Mall, and many other small logistical changes to their other bus routes as well.

An opinion piece that caught my eye was the "For/Against Saving FED Hall" debate. The issue was that the University wanted to take over FEDS Hall, which is a building paid for by students, resulting in less student space. The 'for side' mentioned tons of points about student fee increase and the loss of trust with administration. The 'against side' mentioned how it was just a takeover and nothing more; student

events and services would still be held there, and that we weren't using it to its full potential anyway. The paper doesn't mention anything about what actually happened, but it DID bring my attention to the renaming competition the University held in 2014. A lot of these names probably shouldn't go in this newspaper, but a large number of responses (about 45%) were... 'FED Hall.' So I guess it's safe to assume the University DID takeover and the students were not happy. Nonetheless, you can probably find some of these names if you google around and find the reddit thread.

Let's take a look back into EngSoc history. One article from 2011 mentions how an alumni event allowed the author to speak with someone from the first engineering cohort of graduates from Waterloo. Some interesting facts from the article include that POETS used to be the EngSoc office and the story of it becoming a pub is 'unpublishable.' Other cool things mentioned by the alumni include:

- The Imprint used to be the newspaper of the Engineering Faculty. It was started as a rival to the Chevron, which has recently reappeared on campus. The Chevron was eventually shut down due to biased political views.

- The jackets used to be navy blue. Why not black? Black leather jackets were considered too closely associated with gang activity, and thus the jackets were ordered in navy blue to avoid any misconceptions.

- Arcade games used to be set up in POETS. We're talking Space Invaders, Asteroids, Pac-Man, you name it. They were there.

Now I wish I was here in the 1960s, as I would have had a great time in POETS. Then again, I wouldn't be in nano since it wouldn't have existed.

And finally, the humour section, which seemed it was tin soldier-esque despite being in a full issue. You have writers in programs like '2Z Handsomeness

Engineering' and '1B Journalism.' The first article I read was "Big Things: World's Largest Earth Mover (aka Giant Ass Saw Thing (aka PHYS 115 midterm))." Now based on that I'm just going to guess that PHYS 115 hasn't changed much in the last 5-10 years. Anyway, the article speaks about the V CAT D8R, a machine that could move 91 million pounds at half a kph (which is pretty fast for a big thing). Another article from CBG. Inc. - 3B Sexuality, Marriage, and Family, gives us lonely guys here advice to meet someone new. They (SARCASTICALLY) talk about the complexity of girls (or guys) that other guys want to meet in a biology-textbook kind of way. I'll copy the main point of the article so some of you lucky fellas

will have a date just in time for midterms. "Say hi to them, making sure to use their first and last name in the introduction. If you happen to know about something in their life (it's their birthday, they just got a job, their childhood pet passed away), this is the time to bring it up. This will make them feel like they should already know who you are, and will make them feel guilty for not knowing you. Once these feelings start flooding through them, it is your time to strike. CBG takeaway of the week: Guilt is the #1 way to meet them."

That ends The Rusty Knight for this week. I really enjoyed writing this column and stay tuned for next week's history of the Iron Warrior.



Clker-Free-Vector-Images via pixabay

The majestic Canadian Goose

WaterNews



DONOVAN MAUDSLEY
4A MECHANICAL

The University of Waterloo has been ranked the most innovative post secondary, and as such there is pretty much a steady stream of news coming out of campus. I'm going to catch you up on a few stories that you may have missed.

Quantum Error Research Chair

The Institute for Quantum Computing is one of the most prestigious and advanced centers worldwide for research in quantum information science. This has been made possible through the efforts of the University of Waterloo and generous donations from Mike and Ophelia Lazaridis. The research chair, with a value of eight million dollars, is devoted to studying the error associated with quantum computing and specifically on how to correct for it. This is considered one of the biggest issues that quantum computing still needs to overcome. Raymond Laflamme, who was one of the founders of the IQC and was its director from 2002 till earlier this year, was named as chair.

Columbia Ice Fields Field House

The construction at Waterloo it seems will never stop. The PAC-SLC expansion is currently underway, but the university also has plans in the works to expand the Columbia Ice Fields facilities. The plans for this expansion, which is set to break ground by January, were unveiled back in September. The facility is slated to open next September, and will contain a 100-by-50 foot artificial turf field. This field will be used for recreation first, but will also likely be used for varsity team development. Roly Webster, the director of recreation and athletics who joined Waterloo in 2014, stated that the "reality

was nobody would argue that our facilities need lots of work," and also noted that to create a "vibrant student experience" the athletics department needs to play a large role.

The expansion, which from renderings appears to extend from CIF near Warrior Field, is viewed as a stepping off point for expansions. Future expansions could include a bleacher building around warrior field or a new ice pad. As a student who has played his fair share of 11pm intramural hockey games at CIF I think that this would be a terrific idea. The university has already committed the funds for the new expansion, roughly 15 million dollars.

UW Exceeds He for She STEM Outreach Goal

Back in September University of Waterloo President Feridun Hamdullahpur travelled to the United Nations facility in New York to announce that Waterloo has exceeded one of its gender equality goals years early. The He for She 10x10x10 initiative focuses on impact champions (10 schools, 10 national leaders and 10 business executives) each of which are striving for gender equality. Waterloo has a three different goals that it is trying to achieve in its STEM programs by 2020: have 33 percent female participation in outreach programs, have 30 percent female faculty, and recruiting and retaining women in senior executive positions. This year the university has around 35 percent female participation in outreach programs, and 29.5 percent faculty in STEM. Retaining senior executives is a harder metric to measure, but Hamdullahpur has assured the organization that steps are being taken in the right direction, including the hiring of two female vice-presidents. Ideally of course Waterloo would like to have an equal representative of male and female faculty and students in each program, but it sounds like UW is on the right track.



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Low Sales of the iPhone 8

A Look at How They've Been Selling



The iPhone 8, released last month, had faced a decrease in sales during the opening week compared to previous iPhone models.

Despite the reported low sales of the iPhone 8 and 8 Plus and with the upcoming release of the iPhone X, the latest iPhone release had been meeting analysts' expectations. The anticipation of the more advanced iPhone X would have caused the low iPhone 8 sales after the opening weekend. It was also suggested that the iPhone 8 was produced

at a lower quantity than the iPhone 7, explaining both the low sales and the low expectations.

Even though the sales of the iPhone 8 were doing well for a while, the sales started to drop during the release on the 22nd of September. The lower-than-expected number of people buying the iPhone seems to suggest that not many people wanted the new iPhone. In an Apple Store located in Hangzhou, China barricades and security guards had been placed to control what was expected to be a crowd-frenzy line up. Surprisingly, only 2 people showed up for the release of the new iPhone.

This show-up was not only reported in China, but in some parts of the world as well. In Hong Kong, it was also reported

that there had been less people showing up during the opening weekend of the iPhone 8 release compared to previous years. In London, UK, there had been less people turning up early in the morning of the release, but as time went on, more people showed up to get the new iPhone. Still, it was not as big as the line up in the previous years.

Even though the release date of the iPhone X was announced to be in November, it is not expected to be readily available until 2018. Apple analyst Ming-Chi Kuo has stated that due to problems with the mass production of the "Truedepth" camera sensor for the Face ID facial recognition system, the iPhone X will not go into full production until next year. Kuo had also predicted

that only 2-4 M units by January 2018. In the meantime, customers might have to wait until the iPhone X production ramps up.

For now, the iPhone 8 is being sold from 929 CAD, while the 8 Plus is sold at a price of 1059 CAD. The iPhone 8 itself offers a wireless charging feature, which was a new feature from the previous generation iPhones. The upcoming iPhone X will start at around 1319 CAD, and pre-orders for the iPhone X will begin on 27 October. The iPhone X will be Apple's first iPhone to have an edge to edge screen and will not have a home button.

While the iPhone 8 is currently being sold, the iPhone X will be released on the 3rd of November, but the units will still be sold sparingly until next year.

My Experience on Exchange

Continued from Page 1

Meaning that the experiences of an exchange student right now will be a fairly accurate reflection of your own future experience, should you undertake an exchange as well. Your mind is shouting that this can't possibly work, because you're a different person than they are: your studies are different, taste in food, interests as well...

To save you from an argument with Harvard psychology professor Daniel Gilbert (although I do recommend his book: *Stumbling on Happiness*) the basic premise is that the two of you are both humans. Humans share an incredible amount of similarities that are rarely talked about, we tend to focus on the few differences to stand apart from one another. Happiness, excitement and general pleasure are common human emotions, if your surrogate found it at that exchange school, so will you.

You can do exchange as soon as you're finished 2B. If you should firmly decide that you're going abroad, and manage to narrow down the mountain of exchange universities to a select few, you're (figuratively) halfway out of the country. The second half is more tedious, although it won't require as much decision making.

Endless applications, Visas, accommodation, languages, getting there, exchanging currency and trying to match all of your degree courses/requirements might seem overwhelming. Not to mention all the little stuff that lingers in your mind like the people you'll be living with,

what your friends will think, how to get a phone number, medication, vaccination, constipation, nutrition and culture education.

Once you actually apply, remember not to panic. Imagine running a race of hurdles where the finish line is the final destination. Deciding to do this race was already half the battle, and there are no winners or losers. By staring down your lane, all you see are the obstacles one after another. The challenges seem insurmountable until you actually start running. Then you realize that, in between one jump to another there's at least ten meters of breathing room.

The first step would be applying via Waterloo Passport, deadline being November 1st. From there you can choose up to three exchange universities to apply for. The Waterloo International office is located on the second floor of SCH. Any questions regarding passport should be directed to them. Furthermore, if you drop by in person and ask nicely, they might be able to let you know how many students typically apply to the school you're interested. If you're really lucky, based on your term averages they might also estimate your chances of being "nominated" and from there you could work out how to better your odds at finding a match.

Nominated simply means Waterloo nominates you as their student to the foreign university. This is the same as placements as you are only nominated to one university, all of this will happen around mid January. From here you have to

submit an application to the school you've been placed at which typically requires a scanned transcript and your preliminary course selection. Generally speaking, there aren't many reasons for the exchange university to reject you if Waterloo has nominated you as a candidate, you just need to fill out the application properly and show that you are capable of taking the courses you've selected.

At this point I do want to address my fellow engineering students in their course selection process. This step is usually the most difficult unless you are following someone's exact footsteps. By that I mean, check to see if someone from your program just completed an exchange term at your selected school. If not, you'll have to build your own timetable by matching as many foreign courses as you can to equivalents at home.

Each program of engineering has its own exchange course coordinator, make sure you confirm the following with them. For most if not every disciplines (please confirm with your discipline advisor) a 50% content match is enough for a credit back home. The majority of courses abroad are only judged on a pass/fail and will be transferred to your Waterloo transcript as just that, no percentage grades. All you have to do is email the UW professor who has taught or is currently teaching that course which you need for your degree. Ask them to glance through the syllabus of the foreign course you want to take for a 50% content match and pre-approve in a simple email. Then you can go abroad and

take that course, pass it and then bring back your lecture notes in some form to prove you learned what you needed to. Then the final approval is given and your transcript will be updated.

Just in this one step alone, a lot of things can go wrong. Remember that it's the most tedious step and that you have some flexibility in juggling fourth year electives if you plan on exchanging in your third year. Technical electives, especially of the GENE kind outside your discipline (for example, Mechs are allowed to take two non-ME technical electives) are rather easy to pre-approve. If you have a CSEs from any list that you have not yet fulfilled those can also be matched with a course dealing with the theme of that list. Impact of technology on society in list A, business/economics in list B and humanities/social sciences in list C.

From here the tough part is over. The application you must submit to the exchange university will typically take place up to 6 months in advance from when you're scheduled to begin your studies. One thing to look out for is which semesters certain courses are being offered and if the prerequisites they list are similar to something you've already taken.

Again, you are not alone in the wave of exchange students heading overseas every year. Your destination university or government will most certainly have guidelines on visa requirements, sometimes for short periods of study you won't even need a visa. If you do need a visa however, make sure you apply early although applying late can still be possible, it's just more expensive. Plane tickets on the other hand should be arranged early to save money, also look for various airport collection services either offered by your university or local business as many other students will be making the same trip.

Sometimes in the process, after solving one problem and encountering three more, it's easy to lose hope and change your mind as if you never wanted to do any of this in the first place. I hope that the strength of your purpose will be strong enough and I also hope you look on the time scale. You have an entire year to sort this entire thing out. One at a time.

I believe it's quite a testament that almost every student who has returned from an international exchange had something amazing to say about their experiences. These people are so delighted to talk about their trip that it's almost off putting to hear the same things over and over again. Until you get started and actually look into what these foreign destinations can offer for you, people often like to think "that's not for me, I

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The People have Spoken!



RACHEL MALEVICH
PRESIDENT

First and foremost, I'd like to congratulate Katie Arnold on being elected the next B-Society President. I'll be handing over the torch after exams are finished in December after 16 months of being President. Katie's first on-term as President will be in Spring 2018. For those who weren't aware, the co-op term prior to an on-term is valuable time that Executive, Commissioners, and Directors use to plan events, initiatives, and services for the following term.

Nominations for the Vice-President and

WEEF Director elections are open for the week of October 16th and campaigning will follow the week after. There will be several opportunities to meet your candidates - make sure you make use of these opportunities to be an informed voter! One of these opportunities will be at our next Council meeting on November 1st in RCH 301 at 5:30 pm. On the topic of Council - I'd like to mention some of the important events that happened at Council last meeting. Council approved a stance against shortening Orientation Week further. If this stance passes next term on A-Society, it will join our other four stances against the 2016 international student tuition increase; encouraging engineering counselling to strive for wait times of less than 2 weeks;

encouraging engineering counselling to have increased availability outside of class hours; and encouraging the Engineering Faculty to adopt policies that restrict professors from reusing exams. Stances are powerful statements particularly when voted on by the entire engineering student body. They help executive advocate on your behalf to Faculty and external individuals. If you have experienced an issue in Engineering that you feel affects more than just you, bring the issue to Council for discussion!

As midterms approach, it's important to remember that there are plenty of resources available for Engineering students. On October 20th, De-Stress Meditation will be happening in the SLC - check the EngSoc calendar on

engsoc.uwaterloo.ca for more details! Make use of the peer-to-peer support service MATES - if you have questions about this service, send an email to mentalhealth.b@engsoc.uwaterloo.ca. For additional academic resources, check out our Exam Bank on the EngSoc website under Services.

Finally, looking forward to the end of midterms and the end of October, the Fall 2017 Waterloo Engineering Competition will be happening on October 27th and 28th. Doing well at this competition could lead to competing at the provincial and national level! Send an email to wec.b@engsoc.uwaterloo.ca if you're interested in learning more about the competition and how you could be involved!

Good luck everyone!

First Year Engineering Leadership Conference



HASAN AHMED
2A NANOTECHNOLOGY

On September 30th, 2017, the University of Waterloo hosted the First Year Engineering Leadership Conference (FYELC). This conference caters to first year students, allowing them to experience what a conference is like and introduce them to other opportunities.

The day started early, with check-ins beginning at 8AM. However, first years were eager to show up (not only for the breakfast) and had a great first session with Diane Freeman, a Waterloo graduate and Civil Engineer. Students were able to ask questions about her professional and personal life, and gauge how Waterloo has changed over the years. It was also neat to learn that Diane worked on the new residence building at UWP!

After this, EngSoc executive came and had a presentation, which also included Dan Robertson's information about attending conferences. First years were interested to see which schools they might be able to go to for the upcoming conferences, which are PEO - Student Conference at Ryerson on November 3rd and Conference on Diversity in Engineering (Nov 10th-12th at McMaster). There's an upcoming First Year Integration Conference in the winter term, which also enticed a lot of the audience. The rest of the executive also explained their roles and services, and even stayed for a Q&A session afterwards.

Following a short break, a panel was held with members from FEDS, Student Design Teams, Varsity Sports, and Clubs, in order to showcase how much you were able to get involved outside of class in not only EngSoc. The audience was able to ask a lot of questions about time-management and how much these extracurriculars impacted themselves

and the University. It was a great way for open discussion to be held.

Afterwards, we had Wayne Chang from Conrad come to teach Networking 101. This was an extremely informative session with tons of resources and tips for first years to use. Wayne talked a lot about weak and strong connections formed as you networked, and gave a great insight on how to get started in networking. He also followed up by promoting Conrad's services and making sure first years knew where they could go if they needed help.

After a lovely lunch, the afternoon followed. Professional Engineers of Ontario (PEO) came and spoke a little bit about the licensing process and what it means to legally be an engineer. They spoke about requirements needed, as well as where and who you worked for. They also handed out nice pens for the first years to keep, which happened to be black and gold like the University's colours.

The afternoon closed out with The

Student Success Office following with a workshop of their own, titled "Principles of Leadership," highlighting important qualities and traits of leaders today. Engineers without Borders also came with a case study highlighting real issues in the engineering world and gave us tips on how to be good leaders when it was time for us to make important decisions. They explained this through the Volkswagen emission scandal, where they forged numbers to get past regulations. Finally, the FYELC directors had their own little Q&A session where we answered a lot of questions about time management and co-op, and also had a relax session in POETS afterwards with pizza. It was nice getting to know the first years on a personal level and interact with them, since most of the day was information heavy. The delegates were super enthusiastic about getting involved and made the conference a great experience.

Upcoming Events Calendar

Wednesday Oct 18	Thursday Oct 19	Friday Oct 20	Saturday Oct 21	Sunday Oct 22	Monday Oct 23	Tuesday Oct 24	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca/event-calendar/
Change for Charity CPH Foyer SolidWorks Workshop 7:00 pm - 8:00 pm CPH 1346	Change for Charity CPH Foyer	Change for Charity CPH Foyer De-Stress Meditation 4:00 pm - 7:00 pm SLC Multi-Purpose Room	EngSoc Goes to THEMUSEUM 10:00 am - 3:00 pm THEMUSEUM, 10 King St. W	Patch Design Voting Oct 22 - Nov 4	Board Games 5:30 pm - 8:30 pm POETS	Charity Grilled Cheese 11:30 am - 1:30 pm CPH Foyer EngiQueers 6:00 - 9:00 pm POETS Arduino Workshop 7:00 pm - 8:00 pm POETS	
Wednesday Oct 25	Thursday Oct 26	Friday Oct 27	Saturday Oct 28	Sunday Oct 29	Monday Oct 30	Tuesday Oct 31	
WiE Zynga 5:30 pm - 7:30 pm	Let's Talk Mental Health 4:00 pm - 6:00 pm POETS	Waterloo Engineering Competition Begins at 5:00 pm RCH	Waterloo Engineering Competition Ends at 12:30 pm RCH Dungeons & Dragons 2:00 pm - 6:00 pm POETS		First Year Mentoring 5:30 pm - 8:30 pm	Halloween with The Tool 11:30 am - 1:30 pm POETS EngiQueers 6:00 pm - 9:00 pm POETS Blender & WebGL Workshop 7:30 pm - 9:30 pm CPH 1346	

October is a Spooky Month



**ANDREW
MCBURNEY**
VP ACADEMIC

Hey fam, it's me again, your friendly neighborhood VPA (ya homeboy Andrew) hitting you with VPA Iron Warrior article numero dos. This article is targeted a bit more towards first-year engineering students, but it could apply to students in any year.

Strange Times In October

This October is a frightening time. With the 13th falling on a Friday, Halloween, pumpkin smashing (🎃), and upper/first year 'Hell Week', it's quite a spooky month indeed.

For those of you in first-year, this is your first taste of Waterloo exams. It can be a stressful time and can bring a lot of anxiety with it. I remember how anxious I was doing my first exams.

Events to Destress

If you're feeling stressed out, and want a chance to blow off some steam, Eng-Soc is running events throughout First Year and Upper Year 'Hell Week' to help relieve stress. On the 20th of October, from 4:00 PM - 7:00 PM we will be running our De-Stress Meditation event in POETS. The directors running the event will be going through a series of calming exercises designed to help calm down

and manage stress.

Furthermore, we are continuing to run our weekly events during both exam weeks. These events include our weekly board games nights from 5:30 PM - 8:30 PM on Mondays in POETS, and our LGBTQ group EngiQueers meetings, which happen on Tuesday nights from 6:00 PM - 9:00 PM in POETS. These events are a great way to blow off some steam, and a fantastic way to meet new people and make friends in the process.

If You Need To Talk To Someone

If you feel overwhelmed, stressed, upset, anxious, or just want someone to talk to, please do not hesitate to take advantage of the various mental health resources at your disposal. Engineering MATES, Engineering Counselling in the First Year office (CPH 1320), and Good2Talk are all phenomenal resources available for engineering students. If you're struggling alone, please don't feel like there's no one to talk to, as there's always someone who cares, and there are resources available for you.

To Wrap Things Up

As always, if you have any questions, comments, concerns, or just want to talk about the co-op process, academics, Smashing Pumpkins (both the Halloween activity, and the band) – please don't hesitate to contact me at vpacademic.b@engsoc.uwaterloo.ca, or find me in the Orifice at CPH 1327.

POETS



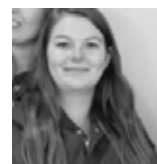
KATIE ARNOLD
VP FINANCE

COUCHES ARE COMING TO POETS! We have the money, we've worked out the logistics, and the order should be ready to go in the next few weeks. We're excited to have a little less duct tape in P.O.E.T.S. Salvageable couches that are removed from POETS will be looking for new homes. If your student space needs couches keep your eyes peeled!

Everyone's favourite home away from home, our engineering student lounge is always open to everyone. From 8:30 in the morning to 6:30 at night, (or later), POETS is a refuge from the day to day stress we all experience as engineers at the University of Waterloo. Inside you can find our POETS Managers, my wonderful team who plan the movies, clean the space, and sometimes decorate our lounge.

They're not the only ones, however. POETS has been victim (or delightful host?) of many pranks over the years. Poets has seen it all, from victoriously displaying a stolen math tie, being covered in tinfoil, and wall-to-wall green turf to becoming a beach. Many of these can be seen in the photos that decorate POETS' walls, snapshots of Engineering history.

POETS has gone through many changes throughout the years. Our Pub used to serve it's own lager. It used to be a licenced establishment every Thursday and Friday. These days, it's quieter. Instead of cable, we play movies from our extensive movie bank. Throughout everything, it's still a welcoming place to hang out between classes, it still has its own time zone (POET International Standard Time) and stands as a monument to all the engineers who came before us.



SABRINA HUSTON
VP STUDENT LIFE

Happy October! In the spirit of the recent Patch Sewing Party that was held in POETS, I thought I'd give some basic instructions on how to sew patches onto your coveralls for when you all get them.

Step 1: Pin your patch to your coveralls where you would like it to go, use at least two pins on either side to make sure it doesn't shift.

Step 2: Choose your thread colour, preferably one similar to the colour of the patch, unless you're like me and you

Expanding Horizons



DAN ROBERTSON
VP COMMUNICATIONS

On the weekend of September 22nd-24th I attended the Canadian Federation of Engineering Students Presidents' Meeting (CFES PM). At this meeting, there was a lot of great ideas shared, and initiatives discussed. One of the main initiatives discussed was the formation of CIESO (Coalition of International Engineering Student Organizations), and the development of an international engineering competition. This will be a joint effort between the CFES, Board of European Students of Technology (BEST), National Association of Engineering Student Councils (NAESC), and a German non-profit student organization, bonding. All organizations will work to elect a Board Executives for CIESO by March 2018, and any members from any of the partner organizations (that means all engineering students in Canada), are allowed to apply for these positions. Once the board is elected and the governing documents are finalized, the first initiative will be revitalizing the International Engineering Competition (IEC) last hosted in Calgary in 2013. This is an incredible plan which will lead to a lot of collaboration not only between engineering students, but also between cultures, which is very exciting.

Another development in the works, is the national survey that was sent out to all engineering schools across Canada. By January 2018, a report will be created, and then presented to the National Council of Deans of Engineering and Applied Sciences (NCDEAS) at their next general meeting. This report will summarize various data collected on mental health, work load, language electives, and co-op programs. The goal of this report is to bring forward a stance that encompasses the thoughts of nearly all engineering students across Canada and ultimately bring more awareness to the decline in mental health of engineering students due to enormous workload, allow for improved co-op programs, and elective choices. This, as you can imagine, will be a powerful statement for students to make to NCDEAS.

Next month, the Professional Engineers of Ontario – Student Conference, and Conference on Diversity in Engineering will be held. This will be a great experience for everyone in attendance, and I encourage everyone to apply for Congress in January, and the First Year Integration Conference in February (if you're a first year). Look out for some blog posts about those in the coming months at www.uwengconferences.ca. As always, if you have any questions, feel free to stop by the Orifice during my office hours, or send me an email at vpcomm.b@engsoc.uwaterloo.ca. Cheers!

PATCHES, PATCHES, PATCHES!

like to be colourful.

Step 3: Thread the needle, and tie the ends together so that you have two layers of thread with the knot on the opposite end to the needle. Make sure the needle you choose doesn't have too thick of the head, otherwise it will be difficult to put through the patch. As for thread length, it should be approximately 3x the perimeter of the patch.

Step 4: Start threading from inside your coveralls and push the needle through the patch just inside the border of the patch. The knot you made at the end should hold the end of the string on the inside of your coveralls. Pull all the string through tightly so that there is no slack.

Step 5: Push the needle in and out of

the patch along the edge, leaving about 1cm between each stitch. When you get close to the pins you put in the patch, take them out.

Step 6: Once you get back to the first stitch make sure the last one is on the inside of your coveralls. Cut the remaining string off and tie the two ends together.

Step 7: Celebrate because YOU JUST SEWED ON YOUR FIRST PATCH!

There is a sewing kit in POETS that you can use, and feel free to come by my office hours on Wednesdays from 1:30-4:30 if you need any help! In other news, the Mural painting is in progress so come by the orifice to check out the progress. Good luck on midterms everybody!

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How To Be a Baller

Some Meat, Some Spices, Some Heat and Some Laughs



In this week's edition of PnP (DnD's ugly sister) I'm going to teach you how to make MEATBALLS. Watch out world, a new generation of chefs who accidentally went to school for engineering is coming for you!

Because we're supposed to be studying for midterms, it's time to learn something you thought you never would: how to turn ground meat into delicious balls of... yea no it's still just meat. Raise your hand if you think this is going to be difficult! My hand is up but it shouldn't be because even if the thought of touching raw meat with your fingers gives you Halloween-level goosebumps, this recipe is super easy and the results are even better than

IKEA (please don't tell them I said that!)

What you need:

Ground meat (this is obvious, sorry to any vegetarians out there I really can't help you with modifications you're just going to have to Google it) you can use any ground meat that you want! I am cheap and I like to go for whatever's on sale. 30% off ground beef? Perfect. Ground pork for less? I'll take it. A combination of both? Sounds kind of gross, but I spent my future life savings on my degree so if it costs less than other options I will eat it. It's also a good idea to go for low fat if you can because it cooks faster I have found. Less raw in the middle = less time spent driving the porcelain bus!

Next you're going to need the two staples of any recipe ever: onion and garlic. If you don't have a stock of these then you're probably eating bland food and I am sorry for you. Or maybe you have a powder. Does that stuff taste ok? Does it work the

same? Inquiring minds want to know!

Finally you need ½ cup of milk, ½ cup of breadcrumbs, an egg, and ½ cup of parmesan cheese.

Get to the chopper!

To start, combine your milk and breadcrumbs and allow them to sit undisturbed in a corner, like the running shoes you thought you'd actually use this term. Then preheat the oven to 400°F. Turn on Queen.

We discussed last time how to go about cutting your onion and garlic. For this recipe you want them extra fine. Let your chef juices flow as you chop away at the bits of edible bulb with zero care for how much ends up on the floor, in your hair, or stays stuck to the side of the knife. You should go at this onion the way you go at your work report. Zero care until the last second when you give that masterpiece of BS your absolute all.

In a small bowl, whisk the egg, parmesan and crack in some salt and pepper. Cue 90s rap dance break. Then combine the egg mixture with the ground beef. This is the least appetizing part. Just sort of mush it around a bit and then add the onion, garlic and breadcrumb mixture. This requires

more mixing but you don't want to overdo it. If you find my instructions as open-ended as that assignment no one knows how to do, then I want you to "make your best estimate of what I'm expecting from you" and continue to the next step.

Get to the oven!

Ball time! I find this recipe will make around 24 meatballs with a 1" diameter. So take a clump, roll it in your hand, and you've got a meatball! Place it on a cookie sheet and repeat until all the mixture is rolled up! To avoid a complete mess later, you can line the sheet with tinfoil but this is not required. Especially if standing in front of the kitchen sink for half an hour scrubbing sounds like a better use of your time than literally any of the work you have to do. Or lectures.

Place your sheet in the oven and cover with a tinfoil roof to keep the grease in (yummy). Wait 25-30 minutes and then take them out. Check the middle of a few balls to see if they're raw and then rejoice! You have made man's finest food all on your own! Feel free to chow down right now, or heat some sauce and noodles up like a civilized person, your choice really.

High Speed Podcasts



Megan's (or Carey's?) laughter during the good old Alternamorphs special sounded like dolphin chatter at this speed...I mean that in the best possible way.

I didn't notice much of a difference during the main parts of a *My Brother My Brother and Me* episode. The intro and outro songs were considerably weirder. Also, the advertisements were almost incomprehensible: is that a bug or a feature? I noticed the same effects, but subtler, when listening to *Hello From the Magic Tavern*.

Now this article was actually running a bit late. To fulfill my irony quota without my editors eviscerating me, I realized still higher speed was necessary. At 3x with silence removal, the ten-minute section of *Hello Internet* complaining about high speed podcast listening is basically incomprehensible to me. However things made a lot more sense at the setting right below (a lot more than 2x - hooray unlabeled for axis points!). I could understand every word if I paid attention, and the voices of the hosts were still distinct. However they generally sounded a lot worse: they were no longer the smooth talkers who kept me up to date on flag news for years. Ultimately I cannot recommend speeds higher than 2x when multitasking, except if Grey is talking about Apple products.

In most forms of media, lots of details are kept out of the control of consumers. Good luck asking art gallery staff to shift the lighting, or playing a video game from the end to the beginning. Podcasts have their share of constraints as well, some imposed by the state of technology and some imposed by user interfaces. However some podcast apps provide very easy access to a powerful setting: the playback speed.

The podcast app I currently use, Overcast (iOS only), allows the user to alter the playback speed from less than 1x all the way up to 3x. Additionally there is a "Smart Speed" option to shorten silences, which effectively increases the speed by different amounts every second. I did not really pay attention to these features until Brady complained about them on the *Hello Internet* podcast. Brady and Grey seemed to think that such features would distort any sort of emotional message. That sounded correct, but I felt like trying it for myself. The settings I started with were dramatic enough to notice but subtle enough to not turn every podcast into *Alvin and the Chipmunks Reminisce on Their Youth*. Much like Grey on *Hello Internet*, I set the standard playback speed to above 1.5x, enabled Smart Speed, and started listening.

Most of my listening time was spent on Dan Carlin's *Hardcore History*, and it was rewarding indeed. The podcast seems a bit more flippant, but still entirely audible if you are paying attention. When playing at normal speed, there are moments where Dan Carlin seems excited enough to intentionally speed up his voice. With the higher speed settings, Carlin's voice always seemed to be in this mode. The podcast felt like a considerably higher energy affair. Additionally every episode of *Hardcore History* is multiple hours long so there's a lot of time to be saved.

The effect on *Morph Club* was more mixed. Megan and Carey are already rather fast talkers, and *Animorphs* features some very short sentences. Just like at normal speed, the hosts' voices are distinct but their opinions are not.

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Blade Runner 2049

A Terrific and Faithful but Inaccessible Sequel



DONOVAN MAUDSLEY
4A MECHANICAL

I'm going to be honest. I watch a lot of movies, and a lot of them have a similar feel, except for the slow burn. Lots of action, thriller and horror movies have terrific senses of forward momentum, but the tension is lost somewhere along the way. If you're searching your memory for a good slow burn, think back to *Inglourious Basterds*, specifically to the scene in which Michael Fassbender gets caught impersonating a German soldier. I've heard that the script for this scene is 35 pages long, and it's all dialogue. Tarantino slowly builds tension in the room, and there are multiple points where you think it will come to a head but doesn't. It's terrific.

The original *Blade Runner* is a classic example of the slow burn, tension rather than momentum, and *Blade Runner 2049* matches this perfectly.

Blade Runner, loosely based on Phillip K Dick's *Do Androids Dream of Electric Sheep?*, tells the story of Rick Deckard (Harrison Ford) an LAPD officer tasked with tracking down renegade replicants (androids which appear human). The movie underperformed at the box office in 1982, but the sleek and stylish picture of 2019 it presented was a hit with a cult following. There have been multiple director's cuts of the movie since then, adding in specific scenes to present themes in new lights.

Honestly I can see how people could have hated it. Rather than an uplifting view of the future *Blade Runner* presented a bleak, industrialized world filled with poverty and danger. The movie also left more questions unanswered than answered, including whether Deckard is a replicant himself.

Blade Runner 2049 is a truly faithful sequel. Rather than try and eclipse the original movie, *2049* provides either an enriching sequel or a thought provoking piece of standalone science fiction. The events of the movie revolve around the child of Deckard and Rachel, a replicant, and are set 30 years after the original. The LAPD and the organization which produces replicants, the Wallace Corporation, are both looking

for the child, which is the first and only naturally born replicant.

Keeping with the neo-noir style of the first film the film follows Detective K (Ryan Gosling), a replicant tasked with hunting down older, renegade replicants. On a routine mission K uncovers evidence which sends him down the proverbial rabbit hole. K is joined on his journey by his electronic girlfriend Joi (Ana de Armas), a production of the Wallace Corporation, and his commanding officer Lt. Joshi (Robin Wright). Along the way he encounters the replicant Luv (Sylvia Hoeks), the direct representative of Niander Wallace (Jared Leto).

K's journey takes us throughout futuristic Los Angeles, as well as the junk processing grounds which were once San Diego and the ruins which were once Las Vegas. The film never falters in keeping with the aesthetic established by the original within LA, and expands this to the new locations. I was particularly taken with the Wallace Corporation building, which stuck with

the same distinct lighting and colouring as the Tyrell Corporation building from the original.

The score by Hans Zimmer and Benjamin Wallfisch meshed perfectly and helped set the tone of the film. It was used a great deal to help build tension, either with silence or intense sound.

The cast of the film was terrific. I was surprised by the wealth of talent present. Robin Wright has been having something of a renaissance in the past few years, including roles in *House of Cards* and *Wonder Woman*. Dave Bautista makes an appearance as a replicant who gives K a run for his money. Jared Leto's Wallace had my skin crawling during one scene. Ana de Armas and Sylvia Hoeks were both unknown to me, but both were terrific in their roles. I thought de Armas' performance in particular was interesting, as she doesn't play a character with a corporeal form. Harrison Ford gives a respectable and nuanced performance in his reprise of Deckard, but isn't on screen enough to make a lasting im-

pression.

Ryan Gosling is the backbone of the movie though. In proper noir form he is present in probably 90% of the scenes and delivers throughout. As a replicant he is supposed to be mostly devoid of emotion, but one of the core themes is the exploration of his emotions and psyche.

The one drawback to *Blade Runner 2049* is the pacing and run time. I think it is one of the better movies that you only need to watch once, as the slow and methodical pacing lets you absorb everything in time, and really think about what you're seeing. This however draws out the run time to a whopping 2 hours and 43 minutes, which is long even by today's standards. This movie honestly could have used an intermission, like Kubrik's *A Space Odyssey*.

Overall I enjoyed *Blade Runner 2049*. I think that casual audiences won't enjoy it due to its pacing and somewhat ambiguous ending, but fans of the original film will see this as a true sequel.



via Vimeo

Blade Runner 2049 continues Ridley Scott's exploration of Phillip K Dick's *Do Androids Dream of Electric Sheep?* The film stars Jared Leto as Niander Wallace, Ryan Gosling as Detective K, Harrison Ford as Rick Deckard and Ana de Armas as Joi (Left to Right).

Saudi Minister Fired

To Real Consequences, *Star Wars* Goof Leads



RATAN VARGHESE
2B COMPUTER

A few weeks ago, Saudi Arabian high school students were delightfully surprised to find Yoda, the Jedi Master from *Star Wars*, depicted in one of their history textbooks. Apparently, when Saudi King Faisal (a prince at the time) was signing the UN charter in San Francisco back in 1945, Yoda was calmly watching over the affair. At least, that is what the textbook depicts. After this textbook page went viral on social media, the Saudi Minister of Education Ahmed bin Mohammed Al-Issa fired the under-secretary of curricula Dr. Mohammed bin Attia Al-Harhi. The minister also

tweeted an apology for the "unintentional mistake" and set up a committee to investigate this mind trick.

This remarkable image of the role of the Jedi in diplomacy is the brainchild of the artist Abdullah Al Shehri, also known as "Shaweesh". Once upon a time, Mr. Shehri was looking through a photo archive of the modern history of the Middle East. After looking through many heartbreaking pages of soldiers, wars, refugees and desolation, he encountered something a little more flippant. It was a picture of former Egyptian president Anwar Sadat (who was assassinated in 1981), standing with Mickey Mouse during a trip to Disneyland. "This is what the archive needs. Something fun, something that makes it less depressing," Mr. Shehri later said in an interview with the New

York Times. He was inspired to create a series of artwork where American pop culture was edited into historical photos, available at <http://edgeofarabia.com/artists/Shaweesh>. These works were showcased in galleries around the world.

The photo was not made out of disrespect for King Faisal, who outlawed slavery and spread public education during his 11 year reign over Saudi Arabia. Mr. Shehri made the particular image of Yoda at the UN because he thought the king and Yoda shared many good qualities. He described them both as being "wise, strong and always calm." Yoda and the king were both known for their intelligence. Furthermore, Yoda and his lightsaber are both green, just like the flag of Saudi Arabia. Interestingly enough while the colors might be

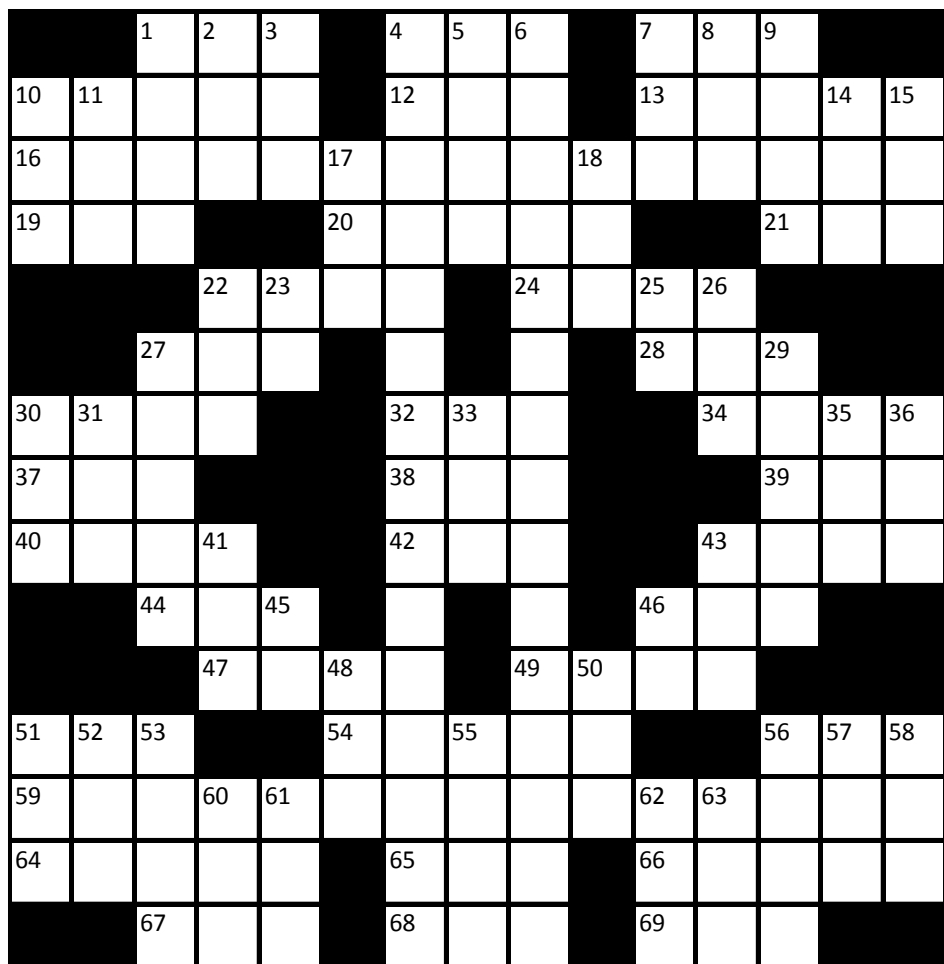
fitting, the original photo and the version from a galaxy far, far away are both black and white.

While we know about the artist behind the photo and under-secretary fired for it, the process by which the photo ended up in textbooks in the first place remains unknown. "I am the one who designed it, but I am not the one who put it in the book," said Mr. Shehri. He only found out about this debacle when his mother, a biology teacher, texted him about it. It could have been a simple error by the layout editors: Yoda is ultimately a very small part of the image, and the image is only a small part of the textbook page. Maybe it was some sort of elaborate prank. Or perhaps the textbook makers, like Mr. Shehri, were fatigued by seeing so much of history swallowed up by the Dark Side of the Force.

The Iron Crossword

Electronic Hockey

THOMAS DEDINSKY
1T COMPUTER



ACROSS

- 1: Former CEO of GM (initials)
- 4: "This tea is just a ___ too warm"
- 7: Memory cache used to reduce access time for user memory locations (abbr)
- 10: Made of a Heel, Toe, Shaft, and Butt End
- 12: Old-English for "go quickly"
- 13: Gordie Howe & Sons hockey team
- 16: Actress of The Hillside Strangler and Dark Ride (2 wd.)
- 19: Famous multi-tool (abbr)
- 20: Largest borough in Bradford County, PA
- 21: Backstopped by M.-A. Fleury (abbr)
- 22: An ear ___ helps you hear
- 24: ___ the Goalie of WA Capitals fame
- 27: Cheap place for a TO fan to watch hockey (abbr)
- 28: Out-of-luck hockey team (abbr)
- 30: Earthbound creator (last name)
- 32: Animal that led the Florida Panthers to the Stanley Cup finals
- 34: UW main export, courtesy of students

- 37: Nickname of the 70s Bruins (abbr)
- 38: Between 25% and 75% (abbr)
- 39: Non-neutral particle
- 40: North America's biggest baseball league's games (abbr)
- 42: UoT's int'l experience centre (abbr)
- 43: Created after a hockey stop
- 44: Form of confirmation
- 46: Latest Eng program at Waterloo (abbr)
- 47: Oven for pottery
- 49: 2006 Conn Smythe winner (last name)
- 51: A rear end
- 54: Addition to the end of a word
- 56: Mercury Sulphide
- 59: Handsome-looking goaltender of NYR
- 64: Synonym for bear, used in Boston hockey
- 65: Sec. layer added to firewall or NAT (abbr)
- 66: The Great One (first name)
- 67: Caused '11 Vancouver hockey riot (abbr)
- 68: Mercedes-Benz SUV
- 69: Field ___, used in ECE labs (abbr)

DOWN

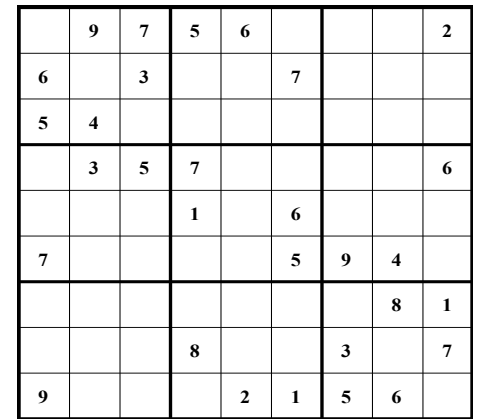
- 1: Area where hockey is played
- 2: Bitcoin-like currency which isn't 8x the value despite name (abbr)
- 3: Sport with "pizza", "french fries" poses
- 4: 13 stripes are on this (three words)
- 5: "Like gold to ___ thinness beat"
- 6: Played in Olympia, Joe Louis, and Little Caesars
- 7: Superhuman video game speedruns (abbr)
- 8: Successor to incandescent bulbs
- 9: Wilfried Barry's nickname
- 10: Sports beardmen like Brett Burns and Joe Thorton (abbr)
- 11: British equivalent to China's opium
- 14: "Know your limit, play within it" corp.
- 15: "IT" author (initials)
- 17: Florida Gators' college (abbr)
- 18: An educational leadership institute (abbr)
- 22: Charge for impaired driving (abbr)
- 23: EM waves used for wireless (abbr)
- 25: Jordan Peterson refuses to call film "___", says clown is clearly a "HIM"
- 26: Call 911 for this service
- 27: Only defenceman to win an Art Ross (first name)
- 29: 2nd overall in 2016 NHL draft, Patrik ___
- 30: Top computing corp. of 70s and early 80s
- 31: Crusher of Calgary Flames' dreams of a cup (abbr)
- 33: Number measuring air pollution
- 35: WATER WATER WATER _____
- 36: Online news network founded by Boris and Patrick in 2006 (abbr)
- 41: Korean soup-like dish
- 43: Type of electronic component
- 45: 1/2 of tau
- 46: Line break in html
- 48: Los Angeles-based team (abbr)
- 50: Ajax file extension
- 51: Bus protocol with larger bus-widths than System/Peripheral Buses (abbr)
- 52: ASOIAF knight honorific
- 53: To ignore someone
- 55: Max capacity
- 56: Slang greeting
- 57: Whammy, Lingo, Idiostest network (abbr)
- 58: Space sci-fi TV series of early 2000s
- 60: Home to the Olympics and filthy water
- 61: Photo-sharing app (first three letters)
- 62: Formerly the Pakistan Peoples Party-Sherpao (abbr)
- 63: ___ue, synonym of unclear

Sudoku

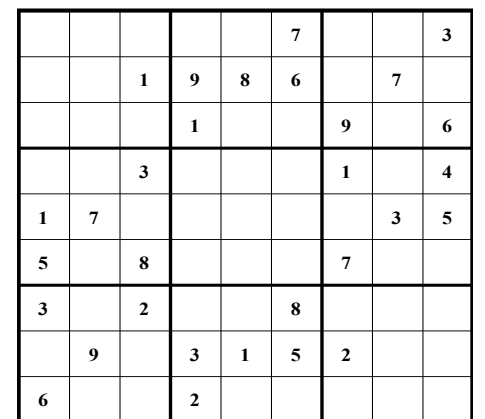
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BRYAN MAILLOUX
3B MECHATRONICS

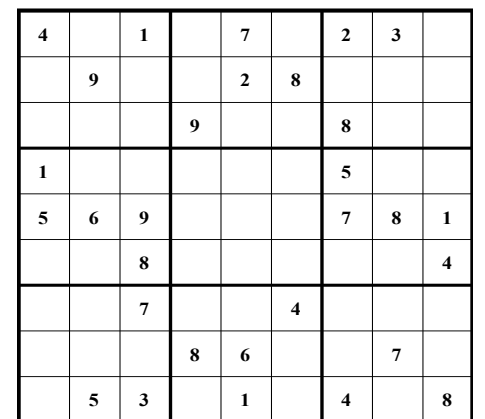
Medium



Hard



Very Hard



Solutions for previous crosswords can be found on *The Iron Warrior's* website at iwarrior.uwaterloo.ca/distractions.

THE IRON INQUISITION
Samridhi Sharma, 2B Chemical

"What do you do in class when you're 'taking notes'?"



"I scroll through Instagram and keep Snapchat streaks."
Mridu Walia, 2A Mech



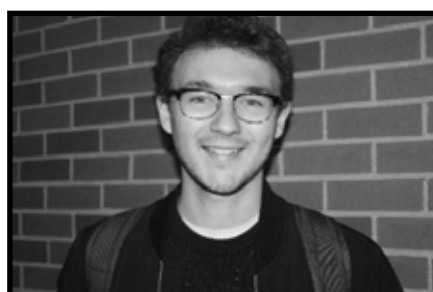
"I'm on Reddit."
Nathan Li, 2A Tron



"Play Road Rash."
Saatvik Walia, 2B ECE



"What notes?"
Zubair Khanani, 4B AFM



"Look at jobs, or things I'm interested in like side projects."
Mitchell Horne, 2B ECE



"Talk to my friends."
Alanna Feldman, 1A SciBus