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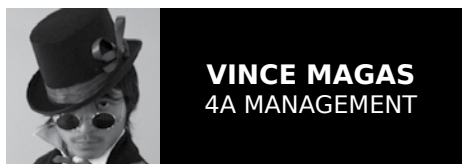
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## Philippines Declares Martial Law Over its Southern Region of Mindanao



AP Photo/Bullit Marquez

### Armed Forces of the Philippines (AFP) mobilizes armored vehicles in Marawi City



**VINCE MAGAS**  
4A MANAGEMENT

Marawi, the picturesque capital of the province of Lanao del Sur in the Philippines, made headlines a few weeks ago not for its tourist attractions or its industry, but rather a bloody hostile takeover by the Maute, a militant organization affiliated with the larger Abu Sayyaf Salafi jihadist extremist group.

#### The Botched Raid

The sudden escalation of the situation started out as what was termed a “surgical operation” to capture one of the world’s most wanted terrorists, Isnilon Hapilon, who was believed to be hiding in the city. A mere three days after the attempted raid, the city was entered by tanks, helicopters, and thousands of troops associated with Islamic State (IS), turning it into an urban battleground.

The Philippine military had previously received intelligence that their target, Isnilon Hapilon, was receiving medical treatment in Marawi city after their previous run-in with him during a bombing raid in the surrounding mountains back in January.

Shortly after the raid, the nearby Camp Ranao, where the 103rd Brigade of the Philippine Army was stationed, was reportedly attacked by at least 500 Maute group militants. This further escalated as

Maute fighters quickly took over the city, capturing private and public buildings alike. The Catholic Cathedral of Our Lady Help of Christians located in the city was torched in the initial clash, where it was reported that several civilians and a priest were abducted. Gunmen also occupied the City Hall while over 100 inmates were freed from the local city jail. Over 120 civilians were taken hostage and used as human shields as the militants took over the local Amai Pakpak Hospital, as well as the Mindanao State University. Black ISIS flags were reportedly planted throughout the city.

Defence Secretary Delfin Lorenzana reported during a briefing that the Armed Forces of the Philippines (AFP) “had been pummeling the [Maute militants] in the mountains, but were caught unaware when they entered Marawi.” Making matters worse, the militants received support from the locals within the city due to existing clan-ties, as many Maute militants belonged to the region themselves. Lorenza followed this up stating “the problem here is [the militants] have a lot of relatives inside Marawi City.”

The fighting caused mass panic throughout the city and led to a hurried evacuation. Thousands of civilians fled the city causing congestion of major highways and local roads alike. Both government security forces and Maute militants took over various roads leading to and from Marawi, leading to further clashes and civilian casualties.

An initial report cited the death of five soldiers, two policemen, and thirteen militants.

#### Martial Law & Rising Death Tolls

President Rodrigo Duterte was at the beginning of a five-day trip to Russia for a state visit to meet with President Vladimir Putin. The visit was part of an attempt to re-orient the Philippines’s geopolitical alliance further away from the US and towards Moscow. The trip, however, was cut short after Duterte declared martial law on his native island of Mindanao in response to the events in Marawi. Resistance only intensified as a result of the declaration.

Special task forces were mobilized to combat the Maute militants and armoured vehicles were deployed to the city as well as the surrounding region. Fierce fighting occurred across the city as AFP forces struggled to reclaim buildings and access points that were taken over by the militants.

President Rodrigo Duterte, lawyer and former mayor of Davao City (also located in the island of Mindanao) and infamous for his hard stance and vocal support of extrajudicial killing of drug users and criminals, delivered the following statement: “Anyone now holding a gun, confronting government with violence, my orders are to spare no one, let us solve the problems in Mindanao once and for all. Do not force my hands into it.” Duterte had emphasized that in declaring martial law, the Philippines should not allow

under any circumstances for the Islamic State to gain a foothold in the country and that he would do anything in his power to put down extremists like the Maute group and any others affiliated with the Abu Sayyaf. Duterte further stated in a press release: “If you think you should die, you will die. If you fight us you will die. If there’s open defiance you will die and if it means people dying, so be it. That’s how it is.”

True to his words, the death toll has dramatically increased in the region. As of June 2, the estimated death toll has reached 175, 120 of whom have been reported to be terrorists. The current confirmed civilian count has risen to a total of nineteen after AFP forces found sixteen bodies across two reclaimed locations in the city. One group of eight were found near the Mindanao State University which included four men, three women, and a child. The other eight bodies were found in a ditch by a highway at the outskirts of the city. The victims had their hands tied behind their back and each featured gunshot wounds to the head. Nearby the bodies was a crude cardboard sign saying “Munafik”, meaning hypocrite in Malay. Residents reported that the men, who worked for a local rice mill and medical college, were attempting to join a stream of refugees heading towards the nearby city of Iligan, but were stopped by Maute gunmen at one of the checkpoints.

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# Letter from the Editor

## A Note About Uncertainty



**VINCE MAGAS**  
EDITOR-IN-CHIEF

Hello again, and welcome to the second issue of the Iron Warrior for the 2017 Spring Term. Before we get to the bulk of my little editorial I'd like to thank all of The Iron Warrior's fantastic copy editors, layout editors, and staff! Your hard work is appreciated; I know we are operating a little lean this term and I'm pushing for all sorts of strange 'lean and efficient' ways to run each issue and meeting (haha, when was the last time a management engineering student was EIC again?). All of my co-op positions have been either as a project/program manager or in process improvement, I can't help it (at least that's my excuse).

As always, The Iron Warrior is made possible by the combined efforts of friendly and dedicated students, so a big thank you goes out to our contributors and friends who submitted articles and wrote for us during this issue. That being said, I cordially invite all our readers to send an email if you want to write for The Iron Warrior or if you want to join our (almost-always) merry group. Similarly, if you have an opinion, argument, or praise for anything you read on our paper feel free to let us know. You can find us at E2-2345 (usually during meetings on Tuesday 1730h-1830h) or through our email address at [iwarrior@uwaterloo.ca](mailto:iwarrior@uwaterloo.ca).

So we're a couple weeks into the term now, and it's just about that time in the term when people tend to realize they're either doing alright, or starting to fall behind. This is also that time of the term when one of two things start to happen: folks either tend to start falling off the face of the earth or actually start showing up to lectures in a mad dash to catch up just before midterms hit. Naturally, it's about this time of the term when the uncertainty starts to creep in. From what I've seen this can hit some first years who are in their 1B term pretty hard, and it can be pretty easy to doubt or feel uncertain about their prospective academic lives and options.

Looking back at my own 1B term, the picture is pretty much painted the same way (although it was during the Winter term). Without a doubt, I think one of the most difficult terms for me was 1B; it was more or less a story of never-ending uncertainty, or at least I saw it that way. Personally, I struggled with keeping up with school work and hobbies, while outright disregarding anything related to mental health. I learned much later on that my approach was the wrong way to go about university (and perhaps life in general). One thing I clearly remember was dropping out of my beloved extra-curriculars one after the other, and wondering if I've made the right choice to come to UW.

If you're in engineering or in the co-op program, this is also that time of the term

when co-op postings are running amuck, and interviews are starting to ramp up. For many, the interviews (or lack thereof) can be an anxiety inducing affair. I remember talking to roommates and friends who all had a slew of interviews lined up, while I was starting to panic about my very obvious lack of them. As if hunting for jobs isn't difficult enough, this also often ends up raising the question "Where the hell am I going to live next term?" which further adds to our list of uncertainty-inducing woes.

Enough being said, it is without a doubt that many, if not most, students often find themselves unsure about where they are and how they'll tackle that next hurdle or how they will handle that next challenge. It's surreal sometimes, because you run into people who seem to have everything in perfect order and are so confident in their step when, in contrast, you don't even know whether you should take that next step or not.

For most humans the typical response to all this doubt and uncertainty is to try to impose some sort of order and regain control. Let's face it: a lot of us fear uncertainty and, more often than not, it's this fear that pushes us towards irrational and illogical behaviour. We as humans also favour the path of least resistance, and students would be well acquainted of that impulse to crash on the couch instead of starting that forty-something page report, or cracking open that seemingly overpriced textbook. At the same time, we should also be aware that such behaviour and neurotic actions does very little to actually help our fear of uncertainty, but usually does quite the opposite, adding to the anxiety. Who hasn't felt that surge of panic when they've wasted 3 hours napping, cleaning, or loafing instead of actually studying for that midterm, or applying to more postings on WaterlooWorks / Jobmine? The uncertainty of tomorrow, the disorder that exists is still there waiting for us.

Fortunately, it is not just us engineering students, or us university students that get affected by this fear of uncertainty. You must have seen it in co-op, or in daily life: how stressed and how irrational people can get when they are under pressure or are tossed in unpredictable situations riddled with ambiguity. Not everyone is confident in the face of complexity, and history has proven time and time again that people like order; humans crave some sort of direction in their lives. We like being in control.

The world as a whole reflects this fact, there are a multitude of people wrestling for control, or falling apart in the face of uncertainty. A quick check of your favourite news sites will show headlines featuring people—often those in very influential positions—reacting to the uncertainty that they face. One such example close to home are all of the reactions to Kathleen Wynne's proposed increase of minimum wage to \$15, which has generated heated discussions, arguments, criticisms, and praises. Flipping through the pages of this issue of The Iron

Warrior you can find even more examples from the world at large. Hasan's article on the Manchester Terrorist Attack and Raeesa's article on the bombing in Baghdad both show precisely how people around the world are struggling with the fear of uncertainty and pushing for control in their own ways. Similarly, this issue's article featuring the recent call for martial law in the southern half of the Philippines shows the country's reaction to the destabilization of a region, as well as the people's fear of uncertainty in the future both for the country and its president.

Alright, so this being said what should we do? How do we handle this situation and deal with what has plagued a good portion of the human race for such a long time? Well, the only fragments of advice that I can give out are the ones that have worked (so far) for myself. The first is finding peace with the fact that you are not the only one struggling with this, and that folks in much bigger shoes past and present have faced uncertainty. Learning from the more successful people out there, we need to realize that we can't be in control of everything and live in a world where we're certain of what's going to happen next!

What we can do however, is control where we are now, and how we react to the uncertainty that we face. When uncertainty makes a decision or situation difficult, it's very easy to fall into the trap of thinking that EVERYTHING is uncertain, but usually that's not the case. One thing we can do in these situations is to take a step back and do a quick 'stock check' of the things that we do know and what we don't know. Realizing that there are things we do know aids in keeping our fear in check keeps us grounded in reality. Explicitly reminding ourselves of what we do know leads us to realizing there are things that we do have control over, and this often helps in making a more rational decision or reaction to the situation. Give it a shot: try to look at things from a different perspective. This is especially useful when you're in an emotionally-charged situation.

The next piece of advice that I will mention, I have to admit is one that I often struggle with myself: embracing what we can't control. As I've mentioned multiple times, we all like being in control. A constant side effect of this, however, is we can become obsessed with all the things that we CAN'T control. For some (like myself) this can cause us to lock-up and prevent us from actually making any decisions. To prevent this, we really do need to learn to acknowledge the things we can't control and focus on what we can: the process in which we reach our decisions. Most successful folks in the real world are in sync with the uncertainty they face and aren't afraid of acknowledging what's causing it, whether it's through their own fault or not.

Anyway, that's all I have for this issue, and with that I'd like to end by paraphrasing German philosopher and poet Friedrich Nietzsche: "Madness is the result not of uncertainty but of certainty."

THE IRON WARRIOR

The Newspaper of the University  
of Waterloo Engineering Society

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**Spring 2017 Publication Deadlines:** May 19, June 2, June 16, June 30, July 14 (Friday 6:00PM)

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

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# Philippines Martial Law

Continued from page 1

Iligan City, located 38 kilometres to the north of Marawi, has also felt the effects of the chaos. Many residents of Marawi chose to flee to the city, much to the dismay of the increasingly overwhelmed local authority. Iligan City has entered a state of containment, implementing a 10 PM to 4 AM curfew and increasing police visibility as a preventative measure against potential militants repeating what occurred in Marawi. Colonel Alex Aduca, chief of the Fourth Mechanized Battalion, announced over local radio that they have apprehended dozens of militants who have been embedded among the refugee crowds headed toward Iligan. Colonel Aduca stated, “We don’t want what’s happening in Marawi to spill over to Iligan.”

Further across the region, security forces have set up their own checkpoints. Local police and military personnel in camouflage armed with assault rifles set up barricades, checking I.D.s, searching trucks, cars, and people who travel by foot to and from Marawi, Iligan and the airport.

President Duterte’s declaration of martial law came with a flurry of mixed responses. Many praised his steadfast stance against insurgents while others criticized his declaration as an “exaggeration” and warned of potential abuse, citing the memory of former president and dictator Ferdinand Marcos, Sr. who ruled under martial law in 1972 to 1981. In response to the criticism President Duterte stated: “The earlier we attain the equanimity of the community, the stability, I’d be the first to clamor for the lifting of martial law.” Duterte has stated that he will lift martial law only once it has been recommended by both the police and the military.

## Who Is Insilon Hapilon?

From a University of the Philippines engineering graduate to one of the most wanted terrorists in the wilderness of Mindanao, Insilon Hapilon, is also known as Abu Abdullah al-Filipini, was the spark that lit the Marawi crisis aflame during the botched arrest raid on him.

Hapilon was born on March 18, 1966 in the Basilan Province of the Philippines, graduated from a prestigious engineering program at the University of the Philippines, and can speak four different languages. Mystery surrounds his reasons for joining the terrorist extremist group Abu Sayyaf, where he quickly climbed the ranks. His association with Abu Sayyaf did not become clear until 2001 when he was involved in the kidnapping of 20 hostages from the Dos Palmas Resort in the Palawan province. The incident put him on the FBI’s radar, as the victims included three American citizens of whom one was beheaded. His capture is currently valued at \$5 million.

Hapilon has evaded the capture of several large scale operations against him and last year was chosen by ISIS to lead the Islamic State group branch in Southeast Asia after his declaration of allegiance to them. In an Islamic State video titled “The Solid Structure” which was released on June 21, 2016, he is mentioned and referred to as ‘al-mujahid al-muwakkal li-qiyadat junud ad-dawla al-islamiyya f-il-filipin’ (‘the mujahid authorized to lead the soldiers of the Islamic State in the Philippines’) and al-amir (‘the emir’). He was recognized as a member of ISIL in January 2017.

## Mindanao and the Abu Sayyaf

It’s no secret to any resident of the Philippines that Mindanao is the main nesting area of various terrorist groups. The island has always had a tumultuous history, where violence can trace its roots back to the clashes between supplanted natives and Philippine-American and Spanish colonization attempts in the last 400 years. Massacres on both sides of the field were not uncommon, and warring groups such as the Moro National Liberation Front (supporting the region’s Islamic and Native population) and the Filipino-Christian “Ilaga” militias have always been present in the region. Former President Estrada’s “All Out War” strategy in 2000 marked a decade of cyclical violence and peace talks between the Philippine government

and the Moro Islamic Liberation Front who sought to establish an independent sovereign state in the region. This often led the displacement of hundreds of thousands of locals, with the report topping at over 930 000.

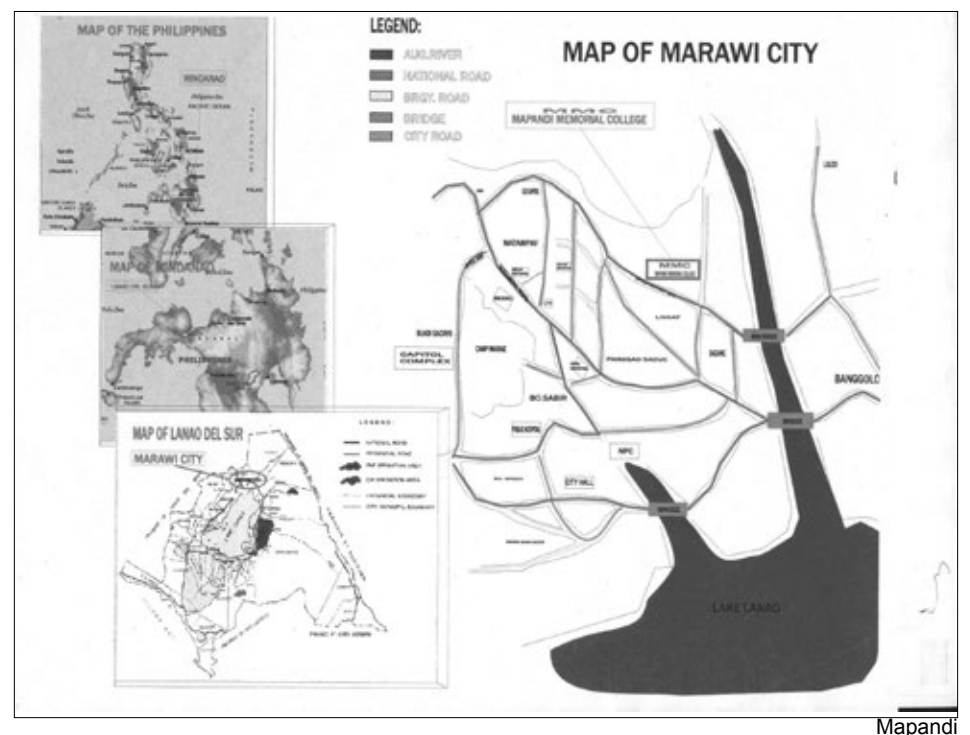
The Abu Sayyaf were considered part of this collection of Moro groups that have been fighting for independence in the region. The group was purportedly founded in 1991 and gained traction through various crimes and terrorist acts. They are infamous for many linked criminal activities such as child trafficking, kidnapping, and drug trafficking, and have been attributed some of the worst suicide bombings in the Philippines and Malaysia.

They have been designated as a terrorist group by the United Nations, Australia, Canada, the US, and the UK, as well as by neighbouring countries. In 2002 the United States made fighting Abu Sayyaf part of their military operation “Enduring Freedom”, as part of their Global War on Terrorism. Abu Sayyaf is mainly based in and around the Jolo and Basilan islands

in Mindanao. They have had a history of supporting Al-Qaeda prior to the Islamic State.

## Marawi

Marawi, or Marawi City, is the capital and largest city of the province in Lanao del Sur on the southern island of Mindanao in the Philippines, home to over 200 000 residents. The land this city is situated on consists of mountains, rolling hills, valleys, and the large placid Lake Lanao; as such the city has a large focus on the agricultural industry, mainly rice and corn. The city is 90% Muslim and is the centre of Islam in the mostly Catholic country, and features local attractions such as the Aga Khan Museum of Islamic Arts, featuring indigenous art and ethnic music from the region; Royal Torogan Houses, a Weaving Village, the beautiful Agus River which connects to the famous Maria Cristina Falls, the outlet of Lake Lanao to the Illana Bay. The city is also home to the Mindanao State University Campus as well as the lakeside Bagang Beach.



Map of Marawi City Relative to Mindanao and the Philippines

# Dual Bombing Targets Civilians in Baghdad as ISIS Loses Ground in Mosul



**RAEESA ASHIQUE**  
3A ELECTRICAL

Two bombings in Baghdad, Iraq, killed around thirty people and injured dozens more. The attacks occurred last Tuesday, just a couple of days into Ramadan, the Muslim month of fasting.

The first explosion occurred after midnight, targeting a popular ice cream shop in the commercial Karrada district in central Baghdad. This street is lined with popular restaurants and cafes, and was packed with families staying late into the night to prepare for the next day’s fast.

The explosives were in a parked car and were donated remotely. ISIS quickly claimed responsibility for the attack via through their affiliated news agency Amaq, saying they had deliberately targeted Shia Muslims. Anti-Shia attacks are common, as ISIS considers them to be heretics.

Videos posted on social media show wounded civilians on the road outside the shop. Journalist Hareth Al-Harethi told CNN, “It was a very, very ugly scene.” He says most of the victims were women and children.

Hours later, a second car bombing went

off during rush hour near Al-Shahada Bridge in the busy Shawaka district. Fourteen people were killed while lined up outside a state-run pension office, and around forty-five were injured. Responsibility has not been claimed, although it bears the mark of ISIS.

These two attacks have exacerbated fears that ISIS will use Ramadan to increase violence against civilians. Muslims believe that blessings for good deeds are increased during this holy month, and the members of this organization have a twisted notion of “good deeds”. Last Ramadan, in July, over 300 people were killed by a bombing at a mall in central Karrada, where people were out shopping after sunset to prepare for the Eid celebration at the end of the month. This was the single deadliest event in the thirteen years of war since the 2003 American invasion to out Saddam Hussein.

UN Secretary General António Guterres expressed “his deepest sympathies to the families of the victims” through his spokesperson, and “reiterates that the United Nations will continue to stand by the government and people of Iraq in their efforts to fight terrorism.”

Brett McGurk, the US special envoy to the anti-ISIS coalition, tweeted after the first attack: “ISIS terrorists tonight in

Baghdad target children and families enjoying time together at an ice cream shop. We stand with Iraq against this evil.”

## Advancements in Mosul

These attacks come as the terrorist group continues losing ground in Mosul, their stronghold in the north of Iraq. However, with these losses comes an increased desperation to remain relevant in the region.

“[ISIS] wants Iraqis to fear going out and this is to show they are still present and able to attack the heart of the Iraqi capital, even as they are being defeated on the battlefield.” Hayder al-Khoei, a London-based Middle East expert, told Al Jazeera.

Mosul was seized in the summer of 2014, and the offensive to retake it, which began in October with air and ground support from the US, has taken much longer than expected. The Iraqi government has recaptured majority of the city; on May 27, they launched an elevated offensive on three neighbourhoods north of Mosul’s Old City – Al-Shifaa, Al-Saha, and Al-Zinjili.

The head of the Iraqi operation says they are facing strong resistance, but are managing to push ISIS fighters back; two anonymous officers called the advance “cautious”.

Dozens of civilians have been shot while trying to escape the area, where hundreds of thousands are trapped within ISIS-controlled territory.

Victory here will mark the end of ISIS in Iraq.

## Lack of Coverage

Didn’t hear about this bombing until now? I’m not surprised.

In the past, there has been discussion about the lack of media coverage given to terrorist attacks in Muslim countries. This case is no different; I only heard about it through Al Jazeera.

For example, Manchester received a lot of attention. I am not trying to undermine that attack, as it was tragic, but these two bombings in Iraq’s capital are no less tragic. People are people, regardless of religion or nationality.

It seems all too common to pretend that ISIS is only “after white people”, which is not accurate. But it is harder to continue associating ISIS with Islam when you realize the number of Muslims who have been killed by this terrorist – very clearly not Muslim – organization.

Of course, this is all speculation, but I think it is notable that I used primarily Middle Eastern news sources to do the research for this article.

# Ask a Muslim: What's the Deal with Ramadan?



**RAEESA  
ASHIQUE**  
3A ELECTRICAL

Ramadan is the ninth month of the Islamic year, which follows a lunar calendar. The lunar calendar is ten days shorter than the Gregorian calendar, which means that Ramadan starts ten days earlier every year. For example, I first started fasting I was eight, when Ramadan was in November.

In the lunar calendar, each month tracks the cycle of the moon. The month starts when the new moon is born, i.e. when the crescent moon is visible. The full moon occurs around the 15th, after which it wanes until the end of the month.

There are two methods for determining the birth of the new moon, and hence the beginning (and end) of Ramadan: calculations, and moonsighting. One opinion relies on calculating the theoretical birth day of the moon. The second opinion is exactly what it sounds like: physically sighting the moon. Generally, in North America we begin fasting if the moon has been sighted in the Western hemisphere.

Because of this dependency, we usually do not know when the month will begin until the night before.

One of my favourite memories as a child was moonsighting. The evening preceding the predicted first of the month, we would venture with our families and friends to a designated moonsighting hill, or to the Lawrence Hall of Science, which has an amazing view of the Bay Area. Mostly, we'd eat – think of it like a picnic at dusk – and hang out with friends. Some years, when the evening was clear, we could clearly see the crescent moon in the sky: nothing was more exciting.

Fasting may seem like a burden, but most people (at least in my experience) will

disagree. Personally, I love Ramadan; it's a time of both spirituality and community.

I will now address some very common questions or comments.

## What's the deal?

Fasting in the month of Ramadan is one of the five pillars of Islam. We refrain from food, drink, and sexual activities during the daylight hours. Some people will also opt against watching television or listening to music, in favour of extra prayers or worship. I find it interesting that during this month, we avoid things which are normally not only permissible, but essential to survival. One benefit is empathizing with the less fortunate, such as those who cannot afford three meals a day, although this is a side benefit. The main purpose here is become more spiritual; feelings of hunger and thirst throughout the day prompt constant awareness of and connection to God. Besides, no one voluntarily starves for eighteen hours a day without a reason.

Many Muslims will also offer extra prayers, donate money, read the holy book, and perform extra worship during this time. A lot of people also attend nightly prayers at the mosque, which are specifically offered in Ramadan only.

Those exempt from fasting are travelers, sick people, and menstruating, pregnant, or breastfeeding women. This isn't meant to be difficult; if someone is unable to fast, they are not obligated to.

## You don't eat for 30 days?

No. That is called suicide. We are only allowed to eat when the sun is down; in Waterloo, this means fasting between approximately 4 AM and 9 PM. Fasting times obviously depend on geographical location, as there are more hours of sunlight farther north.

The predawn meal is called suhoor. Personally, I only wake up to chug a bottle

of water and then pray; I opt to sacrifice food rather than sleep, although this is not recommended. Iftar, the evening meal, literally means “break fast”. Iftar is a very communal affair, and contributes to the generous and community-based nature of this month.

## Not even water?

No, not even water.

## I would never be able to do that

I receive this comment a lot, even from fellow Muslims. It may sound difficult, but it really isn't. Maybe this is because I've been doing it for years, or maybe the spiritual nature of this month makes it feel easy.

To be honest, I am usually not hungry during the day. Sleep deprivation, which is exacerbated by lack of coffee, is actually the hardest part. Since it is impossible to get an uninterrupted full night of sleep, naps are our friends.

## That must be great for losing weight

I hear two common health-related comments: “that must be great for losing weight”, and “that's so unhealthy”. Neither of which are true.

First of all, let's clear something up. I am not fasting to lose weight. I have absolutely no interest in losing weight. I am fasting because I believe it is mandated by my religion.

In fact, weight gain is relatively common during Ramadan. Many people overindulge when the sun has set, exceeding their normal caloric intake. Additionally, ethnic foods associated with Ramadan are often deep-fried and unhealthy.

I would just like to note that this was never the case in my household. My parents are very health-conscious, and not at all cultural, so we avoid fried food. A typical iftar at home consists of dates

(which are recommended for breaking fast with, since they are high in calories and spike blood sugar, which is needed after eighteen hours without food), fruits, veggies, and nuts – my mom pumps us full of greens at a time when we are too hungry to protest. After the evening prayer, we eat a proper dinner.

To address the second concern: no, fasting is not unhealthy. In fact, there is scientific research to vouch for the health benefits of fasting, including improvement in blood pressure, cholesterol levels, risk of diabetes, and insulin sensitivity. Fasting boosts the immune system, regenerating immune cells, and is especially beneficial for protecting against cell damage in cancer patients receiving chemotherapy.

It also acts as a “reset”. In this culture, we do not know what hunger is; we eat every few hours, consuming more than our recommended calories. However, fasting forces the body to reset hormone levels, which are responsible for telling us when we are hungry. It also stimulates a cleaning and detoxification process – toxins stored in body fat are dissolved and removed. This is beneficial for organs including the liver and kidneys, and can also help clear up acne.

Finally, fasting promotes high levels of endorphins, the “feel good” hormone, which is beneficial for mental health.

Basically, as long as we drinking lots of water at night, there is nothing unhealthy about fasting.

## Random

I tend to watch a lot of the Food Network during Ramadan; these days, all I have time for are Tasty videos. There's a strange satisfaction in looking at food while fasting.

Don't worry about eating in front of us! We won't be offended.

Also, halitosis is real. Please forgive us; we haven't eaten or drank since 4 AM.

# Hong Kong Crack Down on Uber Drivers



**CAMERON SOLTYS**  
4A MECHANICAL

At least twenty-two drivers for ride-sharing service Uber have been arrested in Hong Kong. The arrests follow a three-week operation by police that included hiring Ubers to drive undercover agents around. The arrests were performed on the basis that the drivers did not have third-party insurance or hire car permits. This is not a new experience for Uber, which has seen many legal challenges to their expansion, often led by the taxi industry that they compete with. For instance, in 2015 Uber's Hong Kong offices were raided after complaints from taxi operators.

This spate of arrests comes after five Uber drivers were convicted of not having the hire car permit in September 2016. Those drivers were each charged HK\$ 10 000 and lost their driver's licenses for a year. The drivers have appealed the ruling and, as a result, have had their license revocations suspended.

According to police, the new raid was “necessary” because the previous convictions had not stemmed the influx of new illegally-operating Uber drivers. Uber issued a statement that they stood with the newly-arrested drivers. They suggested that the charge leveled against the drivers of lacking insurance was not valid because Uber has a HK\$ 100 million ride-share instance policy. They also expressed



## Police Inspect Uber Hong Kong's Office

frustration with the current hire car permit system, stating that Hong Kong is failing to keep up with the innovation of ride-sharing. They contrast this current state of affairs with the activity of Hong Kong in the past: “Hong Kong is an international city known for its embrace of global economic trends and new technologies...”

The state of the hire car permit system is also the defense of the 5 drivers convicted in September. As the basis for their appeal, they argue that the local laws are not compatible with Uber's mode of operation, and that they are therefore

being restricted in their fundamental right to freedom of occupation. To gain one of the 1500 available hire car permits, they would have to only offer the service of pre-booked trips, not use radio in their operation, and report the extent to which the area they would like to serve is already serviced by public transit. All three of these requirements are not realistically compatible with Uber's operations.

Following the arrests, Uber began offering the possibilities of winning prizes—Manchester United jerseys and plane tickets—to people who used their

service. However, it seems that their focus was largely misplaced. Two days after the crackdown, it was reported that the cost of Uber was up to 2.5 times higher than normal because the supply of drivers had subsided. Many drivers have been deterred by the crackdown, and Uber has no way of compelling them to work. However, a source has reportedly told the South China Morning Post that Uber is blacklisting and blocking anyone confirmed to be an undercover agent, and considered but rejected not serving ride-seekers they suspected were police agents.

# Bombing at Manchester Ariana Grande Concert



**HASAN AHMED**  
2T NANOTECHNOLOGY

“broken. from the bottom of my heart, i am so so sorry. i don’t have words.”

Ariana Grande tweeted this shortly after the bombing at her concert in Manchester, United Kingdom on May 22nd, 2017. 22 people died, and a reported 60+ have been injured. The number could be closer to around 75 at the time of writing this article, some of which are in critical care. As well as the physically injured, many people have been left potentially traumatized by the events at the concert.

As a result of the bombing, Ariana and her team have cancelled tour dates through June 5th, and have promised refunds for tickets purchased for those concerts. This was done to take the time to mourn the victims of the attack and stand together in times of violence. Of the people who passed away, their ages ranged from 8 to 50+. All the relatives have been informed according to the UK police, and some of the relatives’ comments on the victims have been posted online, along with heartwrenching comments on how they were great people and lived wonderful lives that were unfortunately cut short due to this cowardly act of violence to the Manchester residents and concert attendees. Victims all had incredible stories, including Martyn Hett, a PR specialist with over 12000 followers on Twitter. He also, as stated on his website, writes articles about, “strong women and low culture.” This is just one person in a glimpse of a large number of stories. Each individual’s life was truly valued by their friends and family, and Twitter has shown that through the massive support and bereavement in light of this event.

Now of course, knowing the large span of social media, some racism and Islamophobia has popped all around Twitter and Facebook. A lot of people are saying the usual; that people like this who are let into the country are not good and we need bars and rules and regulations, etc. Spewing some hateful and racist comments, these were quickly stomped by the influx of positivity from

Twitter users all over the globe. If you read the replies on Ariana Grande’s tweet, which has since amassed over 1 million retweets, they’ve been very supportive of her and reassure her that it’s not her fault, and that everyone should do what they can to help. Twitter has also been helping locate missing persons of the attack. Various users, including those attending the concert and not, have been retweeting images of people at the concert who were missing, in hopes to connect loved ones through the website. Twitter user @RileyBlackery was looking for her friend Heather who was at the concert. Apparently, her phone was dead and she could not get into contact with her, sparking worry. However, just over an hour later, @nathanlamb26 responded with a picture of her safe at an inn, reuniting the two in a short amount of time. Social media can play a powerful role in events like this, and I’m glad to see Twitter using it to its full potential and it warms my heart that it works in a very quick manner.

A culprit was found for the bombing, Salman Ramadan Abedi, a Libyan 22-year old man who was born in Manchester, was said to have ties with Libyan refugees. He was the one who activated the bomb, killing himself in the explosion. Salman was supposedly identified by a bank card found in his pocket. Five others were arrested in the attack from suspicion, but Salman was deemed the culprit. He was always described as normal growing up, according to family members and relatives. His family had returned to Libya after fleeing from Gaddafi’s rule, and Salman stayed behind with his older brother. However, just recently, neighbours have described him as a man who often was wearing traditional Islamic clothing, becoming more religious and withdrawing from the community. He was apparently chanting the first Kalima (an Islamic prayer) loudly in the street in Arabic. (The first Kalima translates to “There is no God but Allah, and Mohammed is his messenger.”) According to France’s interior minister, he had ties with the Islamic State, and had also recently travelled to both Libya and Syria before the attack, which raises suspicions of his mindset before the attack. He most likely had help making the bomb that

went off, as they found in his garage many unused chemicals which could potentially be used for other explosive devices. Although no official claim has come from ISIS, Salman could have been part of another terrorist organization; but that doesn’t matter at this point. What matters is that it happened. His parents and brother were questioned back in Libya, and his father denied their personal involvement in their attack, as they did not believe in killing; that wasn’t them. He was still arrested. Salman’s brother apparently knew of the attack, and when the news struck online, he knew Salman was behind it. Not only that, but a Libyan anti-terror official has told AP (Associated Press) that Salman called his mother hours before the attack saying “forgive me.” Shortly after the bombing occurred, US sources began to leak information to the media, which Trump says affects the national security of the US. Theresa May, Prime Minister of United Kingdom, has threatened the US by saying it could affect the country’s ties to have this information. It should stay within the UK to keep it as accurate as possible.

So why does this happen? I’m no expert on ISIS/terror organized crime, but targets like big stadiums that are attacked can incite more fear for the religion. Islamophobia is ALWAYS brought up in crises like these, but any time it’s not a Muslim man, it’s washed off as non-terror. The individual is at fault, not Islam. Remember that. People are asked to stick together in this time of hardship and not let discrimination get in the way.

And the UK has been doing just that. A homeless man, Chris Parker, who was begging nearby the concert aided victims through the emergency exit process. One woman even died in his arms. As a result, the community has created a gofundme which raised over 30000 pounds for him. Other gofundmes have also been created to help victims fund funerals, as well as general bereavement costs. It’s a harsh reality, but the UK (and presumably worldwide supporters) seem eager to contribute what they can. Parker wasn’t the only one. Paula Robinson, who was just outside the concert walking with her husband, helped locate around 50 women to a nearby inn to contact their relatives. Stephen Jones was a nearby

resident who woke up by blast. He said he, “wouldn’t be able to live with himself if he’d just walked away.” Along with various good Samaritans, the Queen has also visited victims of the attack in hospitals. This shows the severity and critical nature of the bombing, to which the nations’ police, citizens, and administration replied appropriately in a time of great danger.

Lots of people in the area have been providing ongoing emergency services, including free coffee, sleep, and even free taxi rides. The hashtag #RoomForManchester went around Twitter to help victims and other concert attendees escape as soon as possible from the venue. Even the blood bank had to close. Why? Too many people lined up to donate blood to victims and they were overcapacitated. Especially for O- blood groups, they encouraged people to continue in the coming days to donate blood to victims. Muslims rallied together to help too. Muslim Youth UK commented, “We stand together as a united nation. Ahmadiyya Muslims extend our deepest condolences to the victims of this barbaric act in Manchester.” They remind us that it was a monster who committed this crime, not a Muslim. It warms my heart to see such solidarity across religions in races in times of despair.

An official justgiving.com donation drive was set up, which has since raised 1.5 million pounds for the British Red Cross, which is then sent to families of the victims of the attack. If you want to help, donating to the various gofundmes and the official justgiving.com page is a great way to start, as well as dissociating any ties with Islam having to do with terrorism. Just stay informed so that more people don’t equate Islam with terrorism and incite fear in people’s hearts, which bring forth more attacks and make enemies. Ariana has even released a statement for holding a benefit concert to help raise money for victims and families. Since the attack on the 22nd to the writing of this article (about 3-4 days) so much has been done to help the community in a short period of time, but more can always be done. If you know some way that you can help those of Manchester, please do the best you can to help the city recover from such a tragic event.



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## Debates

For the last several years, the University of Toronto has won the debating contest at the Ontario Engineering Competition. This shall not pass. If you like to argue with your classmates for fun, even if you’ve never debated before, then you need to come and try to argue for the pride of Waterloo Engineering (and for cash prizes). Only by entering the SFF debate competition can you prove that Waterloo engineers will never be content to be second place. You must sign up to compete.

The SFF debate competition will be held on Tuesday, July 19, starting at 5:30pm in E5-3052. Cash prizes will be awarded to First, Second and Third place teams. The top team is eligible to represent UW at the annual Ontario Engineering Competition. The debates will be in teams of two, so please register your teams by emailing [sff@uwaterloo.ca](mailto:sff@uwaterloo.ca). Questions regarding policy and format can be addressed to [atrivett@uwaterloo.ca](mailto:atrivett@uwaterloo.ca). Let’s make it so, number 1.

## Technical Speaking Competition

Do you have a passion for engineering design, communication and public speaking? The SFF Technical Speaking Competition is a great way for you to show off your technical speaking skills and personal projects, and to win cash prizes for it.

The Technical Speaking Competition will be held in mid-July. Students wishing to participate must submit a 100 to 200 word abstract and a preliminary deck of slides in pdf, pptx or ppt format. Six students will be selected for the competition, based on submitted material.

Questions about competition rules can be addressed to the coordinator, Jason Grove, at [jason.grove@uwaterloo.ca](mailto:jason.grove@uwaterloo.ca). Prove your mettle in the SFF Technical Speaking Competition!

# JAGM, Sub-Societies, and The Tool's Birthday!



**ABDULLAH BARAKAT**  
PRESIDENT

The weather is beautiful, the profs are more chill, and EngSoc is always here to serve your every will. All poetry aside, I hope you're all doing well friends, and hope you've been enjoying your summer term! Things have been super busy on my end, but I love the job that I've signed up for, so it makes it all worthwhile! :)

Over the past few weeks, let's just say that there hasn't been a dull moment in the life of the EngSoc President. I have been working on action plans for Orientation Week with Rachel Malevich (my B-Society counterpart), and we have a good plan for where we see EngSoc's involvement within Orientation Week moving forward. We are hoping to meet with EngFOC in order to work things out even further; more to come as the term roles on. One major thing that has taken up a lot of my time recently is organizing the logistics of this year's Joint Annual General Meeting (JAGM), which

is happening on June 24th at 5 pm in RCH 101. For those of you who may not be aware, JAGM is a meeting wherein members from both A-Society and B-Society get together to discuss very important matters pertaining to the Engineering Society. This meeting is open to any and all Engineering Society members (that's you!), and each member will be able to vote on behalf of themselves and up to two proxy members. We will be discussing policy changes, reviewing the auditor's report from the previous year, and we will be electing next year's Board of Directors, so I highly recommend that you all attend if possible.

This term, I have hired a Sub-Societies Commissioner, Silvia Lee, and we will be working on reaching out to all existing sub-societies within Waterloo Engineering. Along with the support of the Engineering Society Board of Directors, our aim is to essentially be able to work with the executive of the sub-societies and provide support wherever needed, and introduce a sharing of best practices between the sub-societies in order to allow them to serve our students in the best way possible. We both have the same intentions in mind in terms



Abdullah Barakat

**The 50th Birthday Bearers and the 50th Birthday Tool**

of providing services to benefit our students, so it only makes sense to work together on that. More on that as things develop. We'll make sure to keep you all posted!

I will end my update in the same way that I ended the previous one. This term, we will see our coveted mascot, The Tool, turn 50 years old! We will be celebrating its birthday on June 16th in POETS from 2-4 pm. There will be party games, cake, and a chance to take a picture with the Tool, so come show your love for the Tool by wishing it a happy

birthday! With all the hype surrounding the Tool's Birthday, we are running a term-long scavenger hunt (which you can find at bit.ly/SCUNT\_S17), where you can win prizes like patches, shirts, and 1 of 5 rare PURPLE HARDHATS! The scavenger hunt will be going on from now until Engineering Day (July 14th), where the person who introduced the Tool to Waterloo, Jim Pike, will be attendance!

Thanks for taking the time to read my article, and I'll catch you all next time ;)

**MARIKO SHIMODA**  
VP STUDENT LIFE

Aloha from your EngSoc VP Student Life. I hope you've been enjoying the frequent thunderstorms, hail, and humidity! I also hope you've been enjoying the many events that have happened!

Over 200 people attended EngHack last weekend. Students came from Waterloo Engineering, Math, Science, and Arts, as well as UofT, Mac, and Western! It was a great opportunity to come out and create something with old and new friends, and learn something from one of our amazing sponsors: Sears, Capital One, TunnelBear, TD, Bell, Hubdoc, Wish, and Nootrobox. And

of course a special shoutout to the team behind it all: Samuel San, Munir Abdinur, Fash Khan, and Alan Huang.

Over 200 people also attended our first ever Stargazing event on CIF Field. Special thanks to the UW Space Society, as well as K-W RASC for lending us some amazing telescopes and providing us with some awesome views of Jupiter and Saturn. A chill bonfire also happened, complete with s'mores, hot dogs, and campfire songs.

If you love these outdoor events, keep a lookout for a nature hike happening in the next few weeks. There is also the possibility of another Stargazing night!

We also had an amazing turnout at the first Women in Engineering Wednesday of the

term: Salary Negotiation! There is another WiE Wednesday coming up this Wednesday (the 7th), and it will be a Picnic in the Park to talk about Harassment in the Workplace.

Ticket sales are starting up in the Orifice too for Pride Parade. If you want to march with the Engineering Society in the Toronto Pride Parade this year, hurry in to buy your ticket! We have a limited number of spots on the bus! Come grab yours before they're all sold out!


Events will be temporarily slowing down as we ramp up for hell week, but don't worry! As soon as hell week wraps up, there will be a little puppy army ready to greet you in POETS. Keep an eye out for Therapy Dogs in POETS!

And last but not least, Compost is coming to POETS! That's right, your banana peels and apple cores can now have a home other than a landfill. The Environment directors are working hard to bring this to you ASAP!

I have also been gathering very helpful feedback from all the events with the help of our Feedback director, and will be using that to improve events in future terms. My ultimate goal for the term is make our EngSoc events stronger and deliver what you want to see to improve your student experience. As always, I would love to hear your feedback, questions, comments, or concerns. Send me an email at [vpstudentlife.a@engsoc.uwaterloo.ca](mailto:vpstudentlife.a@engsoc.uwaterloo.ca), or stop by the Orifice Mondays or Wednesdays 2:30-4.

## Ludent Stife Luv v2.0

### Upcoming Events Calendar

Wednesday June 7	Thursday June 8	Friday June 9	Saturday June 10	Sunday June 11	Monday June 12	Tuesday June 13	Check out up-to-the-day event postings on the EngSoc website at <a href="http://engsoc.uwaterloo.ca/event-calendar/">engsoc.uwaterloo.ca/event-calendar/</a>
WiE Wednesday	Mental Health Meditation  Charity Grilled Cheese 11:30AM - 1:30PM	Fire Sale			First Year, ECE, MME Hell Week  EngiQueers 6:00 PM - 9:00PM	First Year, ECE, MME Hell Week  Games in POETS 3:00PM - 7:00PM	
Wednesday June 14	Thursday June 15	Friday June 16	Saturday June 17	Sunday June 18	Monday June 19	Tuesday June 20	
First Year, ECE, MME Hell Week	First Year, ECE, MME Hell Week	First Year, ECE, MME Hell Week  Convocation All Day  Tool's Birthday! 2:00PM - 4:00PM 	Convocation All Day  Bubble Soccer Tournament - Athletics	Paintball War 1:00PM - 4:00PM	Puppies in POETS 1  EngiQueers 6:00PM - 9:00PM	EngProv 5:00PM - 6:00PM  Hardware Beginner Workshop 7:00PM - 9:00PM	

## ESSCO is BESSCO

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

Hello friends! Hope you're enjoying the spring term so far. I always find spring to be my favourite time to be on campus because everyone's generally in a happier mood and it's actually nice to go outdoors! The weather at the moment is just perfect for it, feel that spring breeze! Most Waterloo engineering students only ever get two spring terms, so enjoy them while you can! Anyway, here are my updates:

### Internal

Have you ever wondered what the exec are doing? Of course you are, and well, you're in luck because we're doing weekly exec videos! These videos are meant to provide updates on the initiatives that we are working on, highlight major upcoming events, and keep you informed about major developments and issues that affect the student body. Make sure to check out our first (<https://www.youtube.com/watch?v=yFDnjU84qPU>) and second (<https://www.youtube.com/watch?v=nzcTKQdgnCU>) ones!

The Snapchat geofilter design contest is also currently under way. We have a few submissions so far but would definitely love more! If your design is chosen, not only will

students be able to use your filter around campus, but you will also win a \$25 Visa gift card! Even if you don't think you have design chops, put forward a submission! We're open to any and all ideas! Full contest rules are available <https://www.engsoc.uwaterloo.ca/geofilter-contest/>.

In terms of other internal things, all four VP Comms will be meeting in June to go over the results of the communications survey we conducted back in winter 2017. Expect to see our report at JAGM! The media team is also currently working on more videos and will definitely have a video recapping the term ready by the last Council meeting.

### External

ESSCO's Annual General Meeting (AGM) happened this past weekend right here in Waterloo! AGM is ESSCO's largest conference and represents the start of a new year for ESSCO Council. If you didn't know, ESSCO represents the student societies of 14 Ontario engineering schools, facilitates knowledge sharing between members, and hosts conferences like AGM that members can send students to. At this particular conference, the ESSCO executive for the upcoming year was elected and ESSCO Council discussed various issues affecting the organization and Ontario engineering



Clarisse Schneider

### Waterloo Engineering students at the ESSCO AGM 2017 Conference

students. A full conference report and video will be released in the next 2 weeks with full details, but free to ask me if you're curious about any of the developments that happened at AGM.

To extend the value of conference beyond just the delegates who attend, I've been working on creating a conference take-back ideas bank. This is a list of ideas I've gathered from other engineering schools to see how they bring back knowledge from conferences to improve their own societies.

The current list includes running workshops on topics like diversity and inclusion, building a pipeline of student leaders, and new event ideas that we could potentially adopt.

If you've read all the way here, you deserve a prize, so let me offer one! If you come to the Orifice during my office hours and are among the first 5 to mention this article, I will buy you a pastry from the C&D. (Executives not eligible. Offer valid until June 16, 2017.)

## The Gods of Light Will Shine on POETS Nevermore

**MICHAEL BEAUCHEMIN**  
VP OPERATIONS AND FINANCE

Oh Boy, are you all in for a treat. So much has happened the past few weeks, and I'm super excited to share all my work with you! Hopefully everyone's had a chance to melt in this climate change-fueled heat as well as relax with a few of the new Blockbuster movies out now. I know I'm personally excited for Wonder Woman! On to the business at hand.

There was a licensed day in POETS on May 25th, and we met minimum! For those who don't know, minimum is the certain amount of alcohol that must be sold so that bar services doesn't charge us for their time. Since this event was such a smashing suc-

cess, we'll continue with our plans to hold the event again at the end of each month. The next event is on June 29th, also from 12:00 – 16:00, so come and hang out again!

The lamp for the POETS projector has arrived!... but... we still need to wait on installation for the projector to illuminate the dim walls of POETS once more. Hopefully this will happen sometime in the current week, or even by the time you read the paper.

Coverall sales are now over for the term, but you can look forward to their arrival late in June if you did order a pair. Speaking of orders, I also ran a pre-order for Raspberry Pis through RidgidWare, and we were very successful. We were able to order 3 additional RBPis that will now be available for sale in RidgidWare.

RidgidWare's relationship with ECE is taking shape. We are now going to be accepting payments from students in MTE 220 who needed to purchase new components in lab. This is basically free money for us, and it's going to allow us to purchase a bunch of new stock that can be available for both students of MTE 220 and others to purchase parts conveniently on campus. As always, we are still looking for more help with RidgidWare, so please email me if you're interested ([vpfinance.a@engsoc.uwaterloo.ca](mailto:vpfinance.a@engsoc.uwaterloo.ca)).

Finally, there is a new drop down menu on our website ([engsoc.uwaterloo.ca](http://engsoc.uwaterloo.ca)) called Finance. I've consolidated a few different financial documents and forms from where they were previously scattered to the wind

and, as soon as it gets approved, there will also be a Directorship Resource page that will hold a description of the budgeting process for directors, as well as downloadable forms for Expense Statements and Budget Proposals so you don't need to go digging through your emails or come into the orifice to fill anything out! You'll still have to hand it in in person, but this allows you to get all the prep work out of the way so you can stop and drop, so to speak.

Now, as my time comes to a close, know that there is so much more I wish I could share, so if you ever have any questions or concerns, you can easily track me down (except Tuesdays and Thursdays, my schedule is very open). Thanks to all who made it this far for caring. See you next time!

## Gimme Gimme Gimme (All of Your Feedback)

**PAT DUONG**  
VP ACADEMIC

Hi Everyone. Lots of information floating around and lots of things that I want your feedback and input on:

### Thank You So Far

Thank you for filling out the WatPD survey. We had 1136 respondents! Winners for the draw of that survey have been contacted. The faculty and I will be looking the results of the survey and working with Daniel Davison the Acting Academic Director of WatPD-Engineering, to figure out what our next steps are. This survey was the result of many terms of student consultation about the anecdotal feedback and some dissatisfaction students had with certain aspects of PD.

One of the interesting things we've found out is that the survey host, Qualtrics, had some issues with sending out mass emails to all engineering students (the first round of send-all) on May 1-2; not all students received the email. We then sidestepped the problem by sending out the mass email in smaller batches, which has seemed to work, but if you did not receive the WatPD survey via email around May 11, please let me know.

### EngSoc Teaching Award Nominations

(<http://bit.ly/TeachingAwardS17>)  
Deadline: June 23rd!

Do you have an amazing prof, lecturer or lab instructor who just makes something conceptually difficult easy to understand? One who can keep your attention even when the lectures are one, two, or even three hours long? Who incorporates unconventional methods or technology to connect what you learn to real life? These are some of the reasons why you should nominate someone for the EngSoc Teaching Awards!

Our Teaching Award committee picks one winner every term based on the content and number of nominations, as well as course critique summaries to be added to the Engineering Society Teaching Award plaque in CPH foyer to celebrate great teaching. Any questions should be emailed to [teachingaward@engsoc.uwaterloo.ca](mailto:teachingaward@engsoc.uwaterloo.ca).

### Exam Bank

Our lovely exam bank directors and the EngSoc staff have been compiling a list of exams that are available on the exam bank so that we can begin the arduous task of identifying gaps in the database and continually push for more submissions especially around midterms and finals! So far, we've been noticing a huge gap of little or no upper year exams. If you do have past

midterms, finals or exam studying material, please send an email to [exambank@engsoc.uwaterloo.ca](mailto:exambank@engsoc.uwaterloo.ca). At ESSCO AGM 2017 (See the VP Communications update), I've also had the opportunity to connect to other VP Academics from schools across Ontario about their Exam Banks and we're hoping to share best practices.

### WaterlooWorks Works (with extensions)

There is the feedback I need you all to give on our biggest change point this year: WaterlooWorks. I've been hearing a lot about what people like and don't like about the new website, but all of it is anecdotal at this point, and we as engineers know that while people's opinions and observations are great, we need to back it up with numbers and statistics.

In order to capture the feedback for the entire WaterlooWorks cycle from applying to jobs to being matched, I will send out a survey through our mailing list and class reps after the end of main match at the month's end to collect feedback. In the meanwhile, keep a mental/digital/physical list of things like: how does it compare to Jobmine, what are some new functionality that you like/dislike, what chrome extensions (or other add-ons) do you use to better your experience. Be specific with your feedback. Saying it's great or it sucks won't help

unless we know what is and isn't working and what suggestions you have for fixing it. In addition, EngSoc class reps have mandated that we collect this feedback in order to compile a list of issues that need to be fixed for future terms.

We, as the largest faculty of co-op students, are a substantial part of one of the largest (if not the largest) stakeholder groups in WaterlooWorks. We should be using our collective voices to give constructive feedback on an evolving system to make it better. I'm glad to say that the CECA representatives are open to receiving feedback and helping them reframe and prioritize any issues. They're constantly working to improve the system with weekly updates. They've taken the feedback given by B-Soc last term and have acted upon it so that students are now able to save search criteria, making jobs searchable by multiple columns, able to upload a newer application package with the same name, clearing the shortlist between terms and many more.

Also, feel free to send me an email at [vpacademic.a@engsoc.uwaterloo.ca](mailto:vpacademic.a@engsoc.uwaterloo.ca) if your questions aren't already answered by the University's WaterlooWorks Functionality Spotlight pages or if you want to chat with me about this. I've also touched base with the VPs Academic/Education from other faculties and they also will be looking to get feedback from their faculties' students.

## A (Small) Multitude Space Cam



It's a well-known and widely-publicized fact that the Milky Way galaxy is made up of billions of stars, and that the Milky Way itself is one among innumerable galaxies. Looking up at the night sky, these figures are not surprising; it is filled with stars of all colours and brightness. However, this typical image of the multitudes of our galaxy betrays its true size. An astronomer at Yale University, Dorrit Hoffleit, looked at the intensities of all the stars in her star catalogue and determined that only around 9100 stars can be seen with the naked eye; the vast majority of the stars in the galaxy are too dim. Using binoculars, several hundred thousand stars are revealed, and powerful armature-level telescopes can probably see a few hundred million.

Contrast the stellar observation of the human eye, even aided by binoculars or a small telescope, with the Hubble Ultra-Deep Field observations of the Hubble Space Telescope. This masterpiece of astronomy is an incredibly detailed photograph of an infinitesimal region, one thirteen-millionth of the sky. Over the course of 10 years, Hubble peered at the same spot, collecting as much as 23 days worth of continuous observation over some parts of the area. This momentous effort revealed thousands of galaxies, most no more than points of light. Other deep fields have been taken in other parts of the sky by other instruments and reveal the same thing. No matter what direction one looks, thousands of galaxies containing billions of stars each are revealed. Yet, for an unaided human, only the Milky Way and—when lighting

conditions are particularly excellent—its nearby neighbour Andromeda can be seen.

What's more, even with the thousands of stars humans can see from Earth, it's hard to get a scale of the Milky Way galaxy. While the galaxy is around one hundred thousand light years across, the vast majority of the stars we can see are quite close to us, within 1000 light years. There are a few reasons for this. One is that the light from stars decays with the square of the distance, so distant stars are difficult to see. Another is that light from a distant star can be scattered or absorbed by gas and dust along its path. A final reason why many stars cannot be seen from Earth is that most stars are very dim.

### Proxima Centauri and Alpha Centauri

The closest star to Earth (with the obvious exception of the Sun) is Proxima Centauri, 4.25 light years away. Despite its incredible closeness, Proxima Centauri is far too dim to be seen with the naked eye, or even with the help of some binoculars. As a red dwarf star, it has very little mass and is much cooler than the Sun. Therefore, it gives off much less radiation than any of the stars that are visible to unaided humans.

The Earth's closest visible stellar neighbor is Alpha Centauri, a smidgen further than Proxima Centauri: 4.35 light years. Alpha Centauri is actually a double star system, consisting of two bright-appearing stars Alpha Centauri A and Alpha Centauri B. As the names would suggest, Proxima Centauri is very close to Alpha Centauri in the sky; all three stars are named "Centauri" because they appear on top of the constellation Centaurus in the southern hemisphere. The three stars are so close, in fact, that Proxima Centauri may be gravitationally-associated with the other two stars, orbiting them every five hundred thousand years. As a result, following astronomical naming convention,

Proxima Centauri is also referred to as Alpha Centauri C.

### Polaris

Polaris, also known as The North Star, is so named (regardless of which name is used) because it is nearly coincident with the axis of rotation of the Earth; that axis, extending out of Earth's north pole, passes almost straight through Polaris. Earth is, somewhat famously, on a 23.5° tilt relative to its plane of orbit, which is why there are seasons; as the Earth orbits the Sun, its axis of rotation remains fixed pointing in one direction: towards Polaris. Depending on the time of year, this arrangement causes either the northern or southern hemisphere to receive more direct sunlight, and therefore more heat.

The unique position of Polaris in the night sky gives it some interesting geometric properties. For instance, long-exposure photographs of the night sky produce a pattern known as "star trails." As the Earth rotates about its axis once each day, the stars appear to spin, leaving circle-shaped trails in the photograph. Ever star, that is, except Polaris. If Polaris is in the camera's field of view, it appears as a single point, every other star trail a concentric circle centered on it.

Polaris was a god-send for explorers for a long time, essentially until the advent of advanced navigation systems like gyroscopes and GPS. Today, airplane pilots are still taught to navigate using the stars in case of an emergency. Due to its unique geometry, Polaris is always due north of one's position on the globe. Furthermore, since its position in the night sky does not change from night to night or over the course of a night, it is easy to determine one's latitude using Polaris and a sextant (provided one is in the northern hemisphere).

### Cepheid Variable Stars

As epitomized in the classic nursery rhyme "Twinkle Twinkle, Little Star," stars are frequently observed twinkling because of the way that Earth's atmosphere interacts with the incoming starlight. However, there are some stars that actually do change over time, albeit slower than the twinkling observed by human eyes. There are many different classifications of variable stars, the Cepheid variables among them. These stars, which include Polaris, vary in intensity in regular ways that are proportional to their luminosity.

The link between a Cepheid's luminosity and its period of variability was first discovered by Henrietta Swan Leavitt in 1908 and published by her in 1912. This is an important finding, because it allows astronomers to determine the distance to Cepheid variables; by observing the period of a Cepheid, its luminosity can be found, and the difference between its luminosity and apparent luminosity as observed from Earth can be used to estimate the distance. While there are many complications to the math, this is essentially an application of the inverse square law: an object's apparent luminosity decays with the square of the distance from object to observer.

### The Cosmic Distance Ladder

Cepheid variables make up one of the lowest rungs on what is known as the "cosmic distant ladder." The universe is so big, it can be very difficult to determine distances and impossible to determine all distances using only one method. Astronomers use a variety of techniques that can measure overlapping ranges of distances to build up a sense of scale.

continued on page 9 as  
"Space Cam"



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# Ketchup & Cheese

## Peer Review



Welcome back, my friends, to the tree of forbidden knowledge. The tree of knowledge is a funny thing. The modern conception of the forbidden fruit is an apple, no doubt associated as much with the story of Snow White as with Eve and her gullible husband. Biblical scholarship, on the other hand, suggests that the fruit was actually a pomegranate. This, as many of you are probably aware, is celebrated by the POETS Manager at EngSoc, who has cleverly made an anagram of the word “pomegranates” into a job title. Now, however, you know the truth; look around you. What do you see? It’s obvious once you’re here, isn’t it? Relax and feel at ease, companions: you will suffer no harm under the tomato tree.

With me I bring the astounding findings of Yilmaz et al.: “Steady and dynamic oscillatory shear rheological properties of ketchup-processed cheese mixtures: Effect of temperature and

concentration.” Fascinating work this team has done, combining the forbidden fruit of tomato with the ambrosia of processed cheese. Such a curious combination it is: milk, the refined and solidified life-giving liquid, combined with the poisonous fruit of the nightshade. Perhaps the dichotomy is a panacea of sorts; the mixing of the hateful liquid and beautiful paste is surely enough to make the dead spin in their graves. Perhaps with optimization of the concoction, it will raise them.

Alas, this research, as so many others, is woefully (or perhaps, maliciously) misunderstood by the established journal editors. Instead of taking the honour of first article in a world-renowned medical journal, the paper is relegated to the comparable abyss of the Journal of Food Engineering.

Despite the miscategorization, this article is still filled with useful information for amateur and professional alchemists alike. For instance, Yilmaz gives the most precise definition of ketchup I have ever seen: “[A] time-independent semi-solid non-Newtonian fluid having a definite yield stress.” The young chemist should note, at this point, that Yilmaz takes to bold move

in this paper of rejecting the current compromise solution in the catsup/katsup/ketchup debate; eschewing the modern tendency to alternate the three spellings, he stands firm to his true and righteous conviction that ketchup is the proper word.

Now, I suppose, I should describe the purpose of the paper in some greater detail. It describes the methodology by which ketchup can be fortified by “dairy proteins like processed cheese to obtain a nutritionally enriched product.” It goes into great detail into the chemical processes (others might say recipes, but have you ever seen a recipe that involved a flow chart?) that are involved in the creation of both ketchup and processed cheese. The combination, ketchup-processed cheese (more frequently known as K-PC) is subjected to a battery of tests. Indeed, it is a more comprehensive study of a material than any I have ever seen. Shear rates, pH, colour, and frequency response. The tests are expanded to study the effects of both temperature and processed cheese-content. Even the taste, texture, and odour were assessed by panellists who where speciality prepared in “training sessions.” I have never seen steel, the

supposed fundamental engineering material, be assessed on the grounds for taste and texture.

Yet here is K-PC, a product that has never even been made in an industrial setting, with an assessment of what level of cheese is acceptable (15%, if you’re curious).

Perhaps more significant than any other advancement made by this paper, however, is the successful use of a 3D surface chart that incorporates perspective into its design. The unimaginative call it confusing and disorientating, but they lack, as I just stated, imagination. This non-orthogonal viewpoint (in other words, realistic) allows one to feel like they are really there, sitting on the surface as it gently slopes under the changing temperatures and pressures. For that alone, this paper is worth reporting.

Well, dawn is upon us, so we should scurry from our tree before the homeowners call the police. Remember this article the next time you find yourself wandering through a grocery; if you see a ketchup with extra calcium in it, buy it all up. It’s not everyday that you get to own a piece of suppressed science.

# Having A Rocking Time

## In The Field



Sudbury – Hello again, this week we discuss changes. I start this entry with two days until I get to Terrace Bay, by the end of it I will have spent an entire week in the wilds. In geology, as you may or may not be aware, there are three types of rock: igneous, metamorphic and sedimentary. The area where I am going to be living has mostly igneous rocks, or rocks that come from below the crust. However, these rocks are all incredibly old, in fact they’re Precambrian Archaean rocks and the passing billions have changed the rocks continuously. Deciphering the rock despite its metamorphosis is something that I can tell you right now I perceive as a wicked challenge.

In spare time before heading to the field and, I presume, even after getting out there, my field team have been playing an aptly titled rock-identifying game “Stump the Chump.” I can assure you that I am the chump in every occasion. I am always the one who says the wrong thing or waits silently without offering an opinion as my field crew members decipher the rock type given to us by my supervisor. It is my personal goal to overcome my incapability and to learn to identify a tourmaline from an amphibole from an olivine.

You may be asking what is metamorphic rock? It’s the result of high temperature and pressure exerted on original rock deep below the Earth’s crust. The process of metamorphosis usually causes minerals to “melt” and recrystallize more visibly in the resulting rock. The longer a rock is subjected to these high temperatures and pressures, the greater the changes in the look and texture of a resulting rock. More fine-grained rocks have usually experienced

less metamorphism than coarse-grained and foliated rocks.

I know my crew sees me as a weak link, the member to be pitied for her lack of prior education in the ways and means of rocks and minerals. This perception is in fact warranted as I haven’t done anything thus far to counteract their opinion. In the same way that temperature and pressure act on rocks to metamorphose them into slates, schists, marbles and gneisses, I await the transformative powers of the summer’s heat and the pressures to perform which I will face in the field to turn me into a competent team member. For now I wait excitedly to get into the field.

Jackfish Lake – The drive up took approximately 10 hours due to construction, heavy rain, and intense fog but when we crested the last hill and saw the way clear below us I sensed we were coming home; at the bottom of that hill lies our cabins tucked off the road and next to a section of bed-shaking road construction.

Our cabins themselves are straight from the 80s – no internet or cell service included. As a means of entertainment, I luckily brought my trusty transistor radio and managed to find the single station in the entire area. That is not a joke they don’t even have CBC here. This station “CFNO Your Home Town Radio Station” has everything you need, from music and weather to how the beer league sports teams are doing. It’s an actual way to time travel for the low low price of a drive north of the “Big Lake” as CFNO calls Superior.

Every day has started out so foggy you’d think the world ends at the side of the highway. Some days it rains all day but a few times it has blossomed into the kind of perfect summer day that’s not too hot to move but not as cold as I was afraid it might be way up here.

The chilly mornings have the advantage at least of preventing severely buggy weather but I sense the hordes are coming. If I don’t look like a pock-

marked medieval peasant by the end of the summer I’ve clearly been lying about where I’ve been spending my time.

The view from here is, however, completely priceless. I spend my afternoons cradling a cool drink or an ice cream on the porch of our cabin reading and looking across the road to the lake and forest of fragrant pines. We face west and the sunsets rival even Waterloo’s; every morning I wake with the sun pouring into our east-facing windows. It’s difficult, especially when I sit outside typing this and soaking up the last rays of a dying day, not to feel how extremely lucky I am to experience this place. It could be the influence of the blessing from the Pic River Ojibwe Elders this morning who have me thinking about our place on the planet, but I’m grateful just to be here as I pass through my life.

### New Terms

**Foliated:** A striped pattern on a rock or with distinct parallel planes of weakness.

**Syenite:** A type of coarse-grained igneous rock made of potassium feldspar (pink), alkali feldspar (white), micas, other dark-coloured minerals like andesite but definitely not quartz.

**Wacky:** Yup, there’s a rock called a wacky and up here there’s a lot of it. This rock is generally grey in colour and mostly fine-grained. It’s also a sedimentary rock which means it’s formed by loose sediment laid down millions of years ago which has since been compacted and lithified (turned into a rock) by time. They’re pretty cool because you can sometimes see the grain size gradation which happened because the sediment was deposited by settling out of water.

**Rock Collection:** Something that I have nerdily started accumulating in my spare time.

# Space Cam

## Continued from page 8

The first rung on the ladder is parallax method, where the distance to nearby stars can be found based on their apparent movement relative to distant stars as the Earth goes around the Sun. A common method for understanding this technique is to hold a pencil in at arms length and close either eye. Depending on which eye is closed, the pencil will have a different location relative to any objects in the background. This is the same principle used by astronomers, who observe the star twice over Earth’s orbit.

The parallax method can be used to estimate the distance to nearby Cepheid variable stars, validating the technique of using period and apparent magnitude to estimate the distance. The agreement the two methods in gauging the distance to different stars gives astronomers confidence in both methods. Cepheid variables can gauge the distance to stars that are further away than parallax, so the method can be used to validate and be validated-by other more distant range-finding techniques.

This article started with the surprising fact that there are only 9100 stars visible to the naked eye, and that the view from Earth betrays the full majesty of the cosmos. The rest of this article, however, has been an argument against that thesis. Only four stars have been discussed, along with two interesting behaviours those stars can exhibit: parallax and Cepheid variability. The depth of this discussion has, furthermore, been shallow and simplified. There are nearly 10 000 other stars visible on particularly dark nights. This article does not begin to delve into so many topics, like the magical constellations that fill the sky, inspiring and being inspired by lore for thousands of years. Nor does it touch on the multitude of exo-planets that have been discovered around those stars. There is something to be said about seeing the billions of stars in the Milky Way galaxy, or the billions of galaxies beyond that. However, the telescope-less amateur stargazer need not fret; the stars that are visible without magnification are quite enough to get started.

## Seams Unusual: Mori Kei



TAYLOR LINDBLAD

SEAMS UNUSUAL

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

This issue we will cover the fantastically humble and adorably versatile “mori kei”, translating roughly to “forest origin” or “forest style” fashion.

Featuring mostly earthy-toned colours (think of mossy greens and rich browns) with an emphasis on creams and whites, this style aims to exude the feeling of a fairy living in a forest, or an easygoing personality who resides in a woodland cottage. Solids are chosen over patterned fabrics more often than not, but when prints are used they are usually very simple and give off an old-fashioned vibe, such as gingham, checks, tartans, plaids, and florals. To make up for the plain material, details like lace, pin tucks, and ruffles are added in abundance. Mori accessories are either treasures scouted from quaint antique shops, or handmade creations cobbled together from odds and ends of a sewing drawer or featuring woodland motifs (fawns, rabbits, and wildflowers are especially popular). The materials in mori kei also tend to the natural side, favouring cottons, wool

knits, (faux) fur, and (faux) leather, and shying from polyesters, vinyl, and other synthetics.

The most important focuses of the anatomy of a mori style outfit are that they are 1) not form-fitting, and 2) noticeably and strategically layered. Mori fashion rebels from the modern trends of showing skin and tight clothes; it is meant to be comfortable, floaty, ethereal, and suited for long, thoughtful walks in the great outdoors. It is not uncommon to buy a size or two up from your fitted size, and layer, for instance, a shawl over a cardigan over a mid-thigh dress over a knee-length skirt over a mid-calf skirt. If done correctly, the finished ensemble will be nothing short of enchanting. A pair of low-heeled, round-toed walking shoes and an extravagantly decorated bag complete the look.

Since it leans more towards the comfortable and functional side of fashion (without losing any of the style, of course), makeup and hair in mori kei is one of the least fussy aspects compared to most other trendy and alternative fashions. Leaving hair undyed, down, using natural means of creating loose curls or waves, or putting it back in messy braids suits this fairy tale look just fine. Cosmetics can also be minimum effort and with natural colours; bare-faced is always an option, or light foundation, tinted chapstick, and a pencil liner will do. The one extravagant part of a mori's makeup should be kept to their blush: a round, pigmented flush is reminiscent of the dolls mori followers played with as children, or admired in the variety of antique stores they've visited.

Although it seems to be a unique and intricate fashion, mori kei has a few

closely related predecessors in which it drew inspiration from. Natural kei, dolly kei, and shabby chic all hit the scene at least a few years before mori kei reached recognition. The birth of mori kei is actually documented, having been posted in 2006 as a checklist of the do's and don'ts of this subculture by its founder, a user by the name Choco on the Japanese social networking site MIXI. Now the mori community thinks of Choco's hard checklist as more of a set of general guidelines – this opens of the fashion and lifestyle to more people, making it an accessible and inclusive style.

Since its beginnings, mori kei has experienced a growth in popularity largely due to clothing labels and print magazines revolving solely around it. Notably, the brand Wonder Rocket and the magazine Spoon had their time on the streets of Harajuku, the centre of all things J-fashion. With the emergence of webstores carrying mori-inclined brands and print magazines moving to digital formats, the mori subculture became more accessible to the rest of the world, especially North America.

Even if finding Japanese-based mori brands on the Internet is potentially expensive or difficult, the versatility, thriftiness, and DIY nature of mori kei makes it extremely easy for westerners to adopt. Many plain, earthy pieces of oversized garments can be found for cheap at vintage consignment shops and thrift stores. With a needle, thread, and a handful of crocheted lace and wooden buttons, any piece can be given a mori makeover in a matter of minutes. Accessories in this alternative lifestyle

are usually handmade, and use bits and bobs from trimmings and sewing notions that would otherwise be thrown away. As a bonus, this adheres very well to a mori's most important value: nature. Keeping old clothes and spare materials out of landfills and avoiding fast fashion when possible are easy and chic ways to help the environment.

When putting together an outfit for the first time, there is an easy method to follow, created for the J-fashion publication Nth Magazine:

Start with a plain, baggy dress.

Layer a long, flowing skirt underneath

Add a cozy cardigan on top to help hide your figure

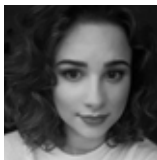
Throw on a lace shawl for a softer feel

Add low, round-toed shoes and a quirky bag

That's it! Accessories, makeup, and other layers can be added as you get more of a feel for the fashion and its direction. Another perk of mori kei is its ability to be worn in any climate. Simply add or subtract layers, or swap out heavier or light materials as needed. Mori kei is less about rules and more about comfort and functionality, making it nearly effortless to try for yourself.

If this style appeals to you, I would highly suggest trying it. It's cheap, beautiful, and undeniably versatile and accessible. As a strong plus, its layering means that you only need a handful of pieces for an infinite number of combinations and outfits. For co-op students who move every four months and lug their wardrobe around with them each time, this is an irresistible lifesaver! Take it from a (mori) girl who knows.

## Anti-Inflammatory (Get Shrekt?) Turmeric Mask

SPENCER ANN  
BUTLER  
2T MEMEOLOGY

So, I'm at Whole Foods (ya that's when you know, typical white gurl yoga ahimsa ~go0d~vib3z~ privileged trash etc.) and I'm checking out my self-serve bowl of peas and organic GMO-free nachos and noodles and green beans, and the check-out lady notices my acne.

This never offends me - I'm on my

way to work and I've developed a sort of routine wherein I get ready at the last possible second by doing my makeup in the five minutes it takes my computer to start up. This means I am wearing the rouge mountain range living on my face without shame.

Anyhoo, anytime someone indicates they are about to give me advice on how to relieve me of this curse I can't help but be all ears.

She proceeds to tell me her son had the same problem as me as a young adult and this face mask used twice a day - twenty

minutes morning and night - solved all his problems. Of course I am skeptical, because I have worked retail before but I don't see what kind of commission a Whole Foods employee would get upon advertising ingredients to me - maybe they are just encouraged to share their knowledge, which they were probably hired for, and she actually wants to help me haha.

Alas, here is the birth of my new skincare experiment easily sold to me through my quiet desperation to eradicate insecurity. (I'm really not that insecure about it; more on that in another blog post.)

### An Exposé on Turmeric root:

- full of antioxidants
- anti-inflammatory
- positive effects on tissue/collagen
- used to treat breakouts, scars, wounds
- bloody delicious in various curries

### Aloe Vera plant:

- used medicinally for centuries
- plant require low maintenance, presents ~good vibez~
- traditionally used to treat sunburns
- edible gel

### Cucumber:

- fr3sh
- plenty antioxidants
- super soothing

### Ingredients:

- 1 thick aloe vera leaf
- 1-2 inches organic turmeric root
- 3-4 inches cucumber OR 2-3 tbsp cucumber juice if you are someone who likes to put effort into things
- Around 3 tbsp vocado or plain yogurt to bind

### Tips:

Store in an empty container in the fridge. I would use the mix within a week or make fresh whenever desired use.

Have a juicer? Juice the above main ingredients and bind with blended avocado or some yogurt for a mask that's not so chunky or use a food processor as I found it can be a bit harder to blend. Adding a little bit of water can help.

Make sure you test mask on your wrist for allergies.

Turmeric may leave a yellow tint to your face/fingers, don't put too much, rinse off thoroughly... or use the yellow face tint as a sort of colour corrector??

Here's to smoothy smooth skin!

KITCHENER WATERLOO



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# Nintendo of America Kicks off Summer of Play Tour

**NICK OWENS**  
1B MECHANICAL

Recently, with the success of the Nintendo Switch and the upcoming release of the “New” 2DS XL, Nintendo of America has decided to kick off their “Summer of Play Tour,” spanning six 12 cities and being active for 26 days in between June 9th and September 4th. This tour will showcase various Nintendo products such as the previously mentioned Switch and 2DS, as well as unveil gameplay to the public of both upcoming games and recent releases that have received critical acclaim. The exact purpose is to give families the opportunity to try some of the newest games on the market, but also to provide other popular games to create an enjoyable experience. Likewise, some of Nintendo’s characters are sure to make a brief appearance (a certain plumber in a red cap comes to mind).

Arguably the most famous game at the event will be *The Legend of Zelda: Breath of the Wild* which released only a few months ago to critical acclaim as well as commercial success. Although already on store shelves, the downloadable content (DLC) for the newest installment in the franchise has already been announced, including an extra challenge dungeon and a raised difficulty mode. Another featured game, already available to the public, is



LetsGoDigital

## Nintendo Switch featured for the 2017 Summer of Play Tour

Mario Kart 8 Deluxe, a re-release of the newest entry in the kart-racing franchise,

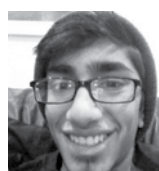
including the DLC packs previously released for the Wii-U version as well as ad-

ditional content. Other notable inclusions are 1-2-Switch, a new party game featuring the new system’s joy-cons, *Pokémon Sun/Moon*, recent installments for the turn based role-playing game about catching mythical Pokémon. Finally, *Super Smash Bros. for 3DS*, the mascot brawler, is set to make an appearance.

Some of Nintendo’s newer franchises are also set to make an appearance. These include *Splatoon 2*, the sequel to the paint ball shooter starring a group of squids who can also turn into kids; and *Arms*, Nintendo’s newest fighting game, featuring boxers with spring loaded arms meant to be able to get a KO from a distance. Finally, *Minecraft*, a game which warrants no introduction, is getting a release on the Switch along with many other games.

Official “Summer of Play” locations are restricted to the United States. However, Nintendo will be hosting other events across Canada over the summer months. Aside from events in Vancouver and in Montreal, Mississauga, Port Hope and Toronto will all be hosting events for Nintendo. These include events at Centreville Park in July, Port Hope and York in early August, and Mississauga in late August at the Port Credit Busker-fest. All of these events are catered to showcase the library of games available for Nintendo’s game systems.

# Microsoft Surface Pro 5 Announced



**HASAN AHMED**  
2T NANOTECHNOLOGY

On May 23rd, 2017, Microsoft held a showcase in Shanghai about some hardware they were planning to release, just shortly after the MicrosoftEDU event. It was a bit of a weird, suspicious notice, so it gathered attention of tech folk all around the world. One of the rumours which was confirmed was the reveal of the Surface Pro 5. Previously, people felt that the Surface Pro 5 was not coming in recent times; maybe a Surface Pro 4 update would be the next upcoming information. However, they were obviously wrong. Although no release

date was announced, we can expect it to come in late 2017 or some time in 2018, so if you’re really anxious for this product, be ready to pre-order it as soon as possible, and keep up with tech news for any official release dates.

But what will be the upgrade? How much will the Surface Pro 5 differ from its predecessor? Well, here are some specs of the Surface Pro 4 for perspective. It has a 12.3 inch screen, 3:2 aspect ratio of 2736x1824, a processor of your choice (M3, i5, i7, of course with price differences), up to 16 GB of RAM and up to about a terabyte of SSD storage, a USB 3.0 port and microSD card reader, all ranging from \$899 USD to \$2699 USD. It also has dock accessories like the stylus (known commercially as the Surface Pen). It also came with Windows

10 and a free 30-day trial of Microsoft Office. The Surface Pro 4 was also backwards compatible with previous accessories, so people are hoping this feature continues with the Surface Pro 5.

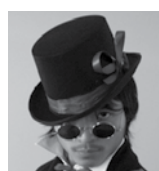
Maybe the new Surface Pro will include the Surface Dial, a \$99 bluetooth-powered tool. It’s pretty cool, and you can check some concept videos out online. The simple device can especially be useful for creative purposes, and is usually used with the surface studio, but it can be used for the Surface Pro 5 hopefully as well as other models of the Surface Pro.

Thus, the Surface Pro 5 will also most likely be under \$1000 for the cheapest model, and might include the recent creator’s update for Windows 10, but if it’s marginally better than the Surface Pro

4, then expect it to be more expensive. It will probably have a similar processor, but might use a different charger than the 4’s USB-C, though it might make up for that by having different USB-C ports, similar to the new MacBook. In order to keep up with advancing technology of their rival, they should include this in the Surface Pro 5. Other than that, it’s most likely staying lightweight with the same storage and RAM limitations. There’s not much design change in terms of the actual hardware, but maybe there will be an upgrade to the Surface Pen, and it could be rechargeable based on a filing Microsoft did back in January 2016. Who knows, maybe they’ll surprise us with a 4K display and longer battery life, but it’s pretty early to impose any predictions like that.

# Aviators: Fun in the Sun Since 1936

## Hit Replay



**VINCE MAGAS**  
4A MANAGEMENT

HIT REPLAY

The sun is shining brightly, the sky is clear, a sweet gentle breeze is blowing Led Zeppelin is blasting on the radio, and to top it all off you have your trusty green-tinted, metal-rimmed, Ray-Ban Aviators.

Whether you’re driving down the highway to Woodstock to see Hendrix, flying your Boeing B-29 Superfortress, or simply enjoying iced tea and bogan burgers outside on the POETS Patio, well aviators are perfect for any sunny occasion! There’s nothing more stylish, more retro-cool, than a pair of sunglasses that have been a staple since the 1930s. These iconic sunglasses have made a resurgence in popular culture and they’re back! Seriously, just take a walk around campus how many people do you see with aviators on?! (Let’s ignore all

of the folks wearing clubmasters. They don’t count. Just kidding those are great too but hey! That’s for another article all together!)

So what are these classic & rockin’ sunglasses? Aviator sunglasses, also known as Pilot’s Glasses (à la U.S. Air Force fighter pilots) have been around since the 1930s. Although, they have evolved into many different styles the classic aviator is usually known for its Teardrop-shaped lenses that provide maximum sunlight protection. Usually made with a metal frame that sports either a brass, silver or gold finish. They come in a variety of lens colours the usual being brown, green or dark grey.

In the late 1930s, Bausch & Lomb’s Ray Ban sunglasses developed sunglasses with glare protection intended for fishermen and golfers. Although these were not yet known as aviators, they were in essence the same shape and style of the aviators. It was in 1936 when the US Army Air Corps asked them to design sunglasses for pilots for protection against sun glare,

known to cause headaches and altitude sickness at the time. Not long after, Ray Ban created what then became standard issue for fighter pilots. So began an era of aviator sunglasses!

They were soon made available to the public in 1937 by Ray Ban. Aviators were seen all over front page news in 1942 when an aviator-wearing General Douglas MacArthur landed on a beach in the Philippines during the war. However, it was not until the 1960s that aviators became widely popular in the public. During the height of The Beatles’ popularity, Paul McCartney and Ringo Starr were photographed wearing aviators, causing a surge in the aviator’s popularity.

Throughout the years, aviators were worn by many pop icons and it’s rugged, high octane design became an iconic look. Popularity increased further in 1985 when the great Freddie Mercury of Queen wore them on the album cover for Mr. Bad Guy, and in 1986 when Top Gun stars Tom Cruise, Val Kilmer and Anthony Edwards sported the frames

playing the roles of Air Force Pilots. Not to mention, UW Engineering’s own EDCOM.

In the late 1980s - early 1990s aviators waned in popularity, making way for a variety of other sunglasses to dominate the market. It wasn’t until the 2000s that the frames re-appeared in pop-culture through acts such as Johnny Knoxville who wore them on Jackass.

Nowadays, aviators come in all sorts of styles and makes! Copies of the original Ray Ban design have been followed and altered by many other eye wear companies and continue to be available to everyone around the world. Aviators are now available in an assortment of frames deviating from the original metal to plastic for a sportier look and even mixed frames for the best of both worlds! One thing’s for sure they’ve only gotten more versatile with every passing year, they practically make them for every occasion!

So why don’t you get a pair of aviators, and rock an iconic look that’s been 70 years in the making!

# Kurt Vonnegut

## Selected Works by Great Authors



**JESSICA KEUNG**  
4A CIVIL

### SELECTED WORKS BY GREAT AUTHORS

Like many millennials, I have recently discovered the author Kurt Vonnegut. His sardonic prose and surreal plot lines draws in any reader who has become cynical to this world. If anything, they are easy to read but with some new and different ideas sprinkled in. Many of his works were published in the 20th century and still ring true to this day. I would like to note that I am not a book reviewer; there are people much more qualified to review books and there are people whose writing is much better than mine but the paper published this anyway. Kurt Vonnegut was a prolific writer having written fourteen novels, three short story collections, five plays, and five works of non-fiction. I have read a small portion of his works; I would rank them from favourite to least favourite but I only know what my favourite book is, and everything in between would be a crashout. So, I will be taking a diplomatic approach and discussing the books that I think about the most and what is relevant to this day and age.

Kurt Vonnegut Jr. was born November 11, 1922 in Indianapolis, Indiana. He attended Cornell University but dropped out to enlist in the United States Army in 1943, just in time for World War II. As part of his military training, he studied mechanical engineering at the Carnegie Institute of Technology (now Carnegie Mellon University) and the University of Tennessee. He was then deployed to fight in Europe and was captured during the Battle of the Bulge. He was interned in Dresden and survived the Bombing of Dresden, an Allied aerial bombing attack that destroyed 1600 acres of the city centre, killing an estimated 22 700 to 25 000 people.

#### Most Relevant Work: *Player Piano* (1952)

Vonnegut published his first novel in 1952, entitled *Player Piano*. *Player Piano* is set sometime in the future after World War III. During World War III, much of the American workforce was sent to fight, leaving behind only the nation's managers and engineers.

The managers and engineers turned to automation to make up for the missing workforce which was sent to fight in the war. Through innovative and ingenious automated systems, most factories became fully automated and most factory workers came home from the war only to find out they were replaced by robots. *Player Piano* depicts the automated dystopia, where the automation that was supposed to make people's lives easier has decreased quality of life. Due to the widespread automation, many people are left unemployed and unhappy. The increasing gap between the wealthy engineer, manager class, and the poor working class drives the conflict in the book. The story follows two parallel plotlines. The first follows Dr. Paul Proteus, the factory manager of Illum works. His father is a very powerful person and was said to hold more power than the President of the United States. Though he is in a great position in life, has a great job, and high status, he grows discontent with life. The second follows the Shah of Bratpuhr, a spiritual leader of six million people in a distant land. By following around the Shah, you get an outsider's perspective of this futuristic "utopia". (Utopia is in quotations because the entire point of this book is that it is a dystopia.)

Out of all of the Vonnegut works I have read, this is something that I constantly think back to. During co-op I constantly think back to this idea that the engineer and manager are complements to one another: the engineer is highly technical but not very physically impressive while the manager is not very technical but has a presence in the room that attracts everyone's attention. Where pedigree matters just as much merit, if your parent is very high up in a company, you could probably get by riding on your parent's coattails, but if you are an idiot, then it's really hard to get by. Currently, we are on the advent of mass automation, with machine learning becoming more and more sophisticated. Eventually all processes will be automated and many people will be without a job. Even us in engineering may soon be without a job; one of the characters in *Player Piano* was so good at automating processes that he automated his own job and was fired. Will the world end up like in *Player Piano* or will everyone be content with not doing anything?

#### Favourite Work: *Slaughterhouse-Five* (1969)

My favourite work of Vonnegut's is *Slaughterhouse Five*, widely considered to be his magnum opus and perhaps his most personal work. *Slaughterhouse-Five* or *The Children's Crusade: A Duty-Dance with Death*, was published in 1969 and provides a semi-autobiographical account of his experience in World War II. The novel is narrated by a third person and revolves around the American soldier, Billy Pilgrim, who believes he has become "unstuck in time". The central event of the book is Pilgrim surviving the Allies' firebombing of Dresden as a prisoner-of-war and reflects Vonnegut's experience during the Bombing of Dresden, where he took refuge in a meat locker of the slaughterhouse where he was imprisoned.

The book does not go in linear order and many of the events travel through time and space through flashbacks. It is obvious that Pilgrim is an unreliable narrator when he believes he was held in a Tralfamadorian zoo and put on display. The Tralfamadorians is a fictional alien race that Vonnegut uses in many of his books. They can see in four-dimensions and pity humans for only being able to see in three. My favourite scene in *Slaughterhouse-Five* is in the first chapter and relates to the subtitle, "the Children's crusade". The narrator, who is not Pilgrim, is a writer and visits an old war buddy Bernard V. O'Hare to discuss the Bombing of Dresden. Bernard's wife, Mary is visibly distressed because she thinks the narrator's book is going to glorify war and the soldier's life. The first chapter establishes the anti-war themes of the rest of the novel as Mary O'Hare says:

***'You were just babies in the war-like the ones upstairs! [...] But you're not going to write it that way, are you [...] You'll pretend you were men instead of babies, and you'll be played in the movies by Frank Sinatra and John Wayne or some of those other glamorous war-loving, dirty old men. And war will look just wonderful, so we'll have a***

***lot more of them. And they'll be fought by babies like the babies upstairs.' So then I understood. It was war that made her so angry. She didn't want her babies or anyone else's babies killed in wars.***

This scene sets the tone for the rest of the book. It establishes early on that it is anti-war and unlike many other books on war, that end up glorifying war, it shows a more pitiful view. The story follows around a low ranked soldier who has obviously become mentally unfit to fight but is stuck in the thick of it.

#### Most Mind Blowing Work: *Cat's Cradle* (1963)

*Cat's Cradle* by Kurt Vonnegut was published in 1963 and is written in a different way. Each chapter is only a page or two long, making you feel smart when you are at chapter 30 after only an hour of reading. *Cat's Cradle* explores the issue of science, technology, and satirizes the Cuban Missile Crisis. The story revolves around Dr. Felix Hoenikker, the fictional co-inventor of the atomic bomb who was playing cat's cradle with his infant son when the atomic bomb was dropped on Hiroshima. The narrator, called John, is a writer who wants to write a book about what important Americans did during the bombing of Hiroshima. John comes across Dr. Hoenikker and his three children, Newton, Emily, and Franklin, during his research. John learns more about Dr. Hoenikker's work and finds out about ice-nine, an alternative structure of water that is solid at room temperature and solidifies all the liquid water it comes into contact with.

The story follows John and two of the Hoenikker children to the fictional country of the Republic of San Lorenzo, located on a tiny rocky island in the Caribbean Sea. This country is under a dictatorship and follows the religion of Bokonoism. The true nature of the dictatorship and Bokonoism is revealed later in the book and is hilarious. The ending of the book is also mind blowing and hilarious, but telling you that there is a mind blowing ending probably ruined the mind blowing ending. If anything, read it anyway for the amazing parallels to real life and how hilariously dark everything is.

## At Least I Get A Day Off



**HASAN AHMED**  
2T NANOTECHNOLOGY

Just a couple of weeks ago during Victoria Day long weekend, I thought to myself, "why do we celebrate some weird holidays? What makes them so special?" Not to say Queen Victoria wasn't special; my question is why there are so many holidays that seem relevant to only a few of us, like Labour Day's irrelevant "no wearing white rule" or Civic Holiday. So after finishing the fireworks that night, I decided to do some research on why we celebrate certain holidays here in Canada.

#### Victoria Day

Queen Victoria was born on May 24, 1819, and was recognized as one of the longest reigning monarchs. It was

officially recognized as a holiday back in 1845, where parades and fireworks would take place. Today, along with Canada Day and a few other statutory holidays, fireworks are only allowed on this date. We have some pretty strict laws on fireworks, and bylaws vary from city to city, so it's nice to have an opportunity to fire some during great weather with better friends. Victoria Day is known as National Patriots' Day in Quebec, and is sometimes referred to as the May two-four weekend (because 24 for the Queen's birth date, and two-four references a 24 case of beers).

#### Labour Day

This holiday celebrates the workers and union movements, and it is held on the first Monday of September, the last chance for students to relax before they start school the next day. One weird rule that you may have heard of is that you're not allowed to wear white

after Labour Day (which is more of an American saying). This had to do with wives of rich people back in 1800s, who would direct fashion statements at the time. Anyone who stood out would not be given attention. White was seen as summer fashion, which makes sense since it reflects the most light and keeps you cooler than black. Desert travelers usually wear white too, so this colour makes sense to be worn. But for some reason, it was frowned upon after Labour Day because it meant summer was over, and thus summer fashion was also out of season. It would come back on Memorial Day, which then signaled the beginning of the summer season. I mean, it wasn't even a super heavily followed rule, but people did what they could to fit in, especially with rich people.

#### Civic Holiday

Not a statutory holiday, but pretty much just a long weekend for August.

According to [statutoryholidays.com](http://statutoryholidays.com), it's called Regatta Day in Newfoundland, Saskatchewan Day in SK, British Columbia Day in BC, Natal Day in Nova Scotia and PEI, Simcoe Day in Toronto, New Brunswick Day in New Brunswick, Colonel By Day in Ottawa, Heritage Day in Alberta and Joseph Brant Day in Burlington, ON. It is called Benjamin Vaughan day in the City of Vaughan, Ontario. This is probably the holiday that resonates most with the title of this article.

#### Family Day

Introduced not too long ago, Family Day is only recognized in few provinces, but it was because there wasn't a holiday between January and April, so it was introduced for people to spend some time with families (duh). It's also pretty close to Valentine's Day, so you can spend time with your significant other during the long weekend as a late Valentine's treat.

# Trump Successfully Damages International Relations



Last issue, President Donald Trump was heading to Europe after a successful few days of meetings in the Middle East. He signed a \$350 billion trade deal with Saudi Arabia. He delivered a well-structured, non-offensive, anti-terrorism speech to assembled leaders in Riyadh, even managing to distinguish between Islam and ISIS.

He acted, surprisingly, like a decent human being; he followed his script, and kept his foot out of his mouth. This requires some analysis: how was Donald so un-Donald? One opinion regards his shared priorities with King Salman and Prime Minister Netanyahu: all three leaders are interested in both Iran and the fight against terrorism. Additionally, Saudi was very interested in signing the trade deal with the US, particularly the arms aspect. These common goals necessitated the success of the discussions. It was also likely the motivation behind Saudi treating Trump like royalty, and bestowing upon him the country's highest civilian honour.

Interestingly, there was no mention of human rights violations in the region; it's easier to gloss over uncomfortable topics.

Nonetheless, there were high hopes for the remainder of his international trip. Alas, as should have been anticipated, it was too good to be true.

Europe was, in short, a disaster. Trump lectured American allies on their many shortcomings, refused to follow up on prior commitments, and essentially accused all assembled parties of conspiring against the US. Not to mention, his facts required checking.

Germany's financial newspaper Handelsblatt appropriately referred to him as the "Boor-in-Chief".

Let's take a closer look at Trump's recent adventures. Much of the following information comes from Washington Post interviews with over ten EU diplomats and officials, many of whom chose to remain anonymous.

## Trump in Europe

After meeting with the Pope in Rome, Trump attended three and a half days of meetings with EU leaders in Brussels and Sicily.

The NATO summit started as badly as it finished. Trump's handshake with new French President Emmanuel Macron was aggressive and unfriendly. He then shoved Montenegrin Prime Minister Dusko Markovic out of the way to stand front and centre of the NATO leaders' traditional photo-op.

With the "niceties" out of the way, Trump delivered a speech in front of a twisted fragment from the World Trade Center, which stands as a memorial at NATO headquarters, criticizing them as individual and collective nations. He condemned their handling of defense spending, calling it unfair to American taxpayers that "23 out of the 28 member nations are still not paying what they should be paying." He is referring to the goal that each country should spend 2% of its GDP on defense, which is only being met by five countries. However, this is only a guideline, and the deadline to increase military spending is 2024. Leaders have been moving to increase this goal in the last couple of years, since Russia's annexation of Crimea. Additionally, Europe "certainly owes

nothing to the US", according to Ivo Daalder, a former ambassador to NATO under President Obama.

Trump called Germany "bad, very bad", because of their trade surplus. While it is true that Germany sells almost twice as much to the US than it buys, which is a concern shared by other countries, Germany also often hires American workers rather than simply exporting products. German Chancellor Angela Merkel also argues that German products are simply better.

Trump's speech conveniently failed to address climate change, human rights violations, the growing threat which is Russia, and most highly anticipated, Article 5. Article 5 is the defense part of the NATO pact, stating that an attack on one member nation constitutes war with every nation in the alliance.

At dinner, Trump continued to rail that "the United States has not been treated fairly," and has been "taken advantage of." He also told the Belgian prime minister that his aversion to the EU is a result of obstacles faced while trying to set up golf courses in Europe.

G7 talks in Sicily fared no better, with Trump refusing to commit to the Paris Climate Accord, and taking a tougher stance on the assembled nations than he did in Saudi Arabia.

Trump view of the trip was not commonly shared, tweeting: "Just returned from Europe. Trip was a great success for America. Hard work but big results!"

## Paris Climate Accord

After weeks of speculation, Trump broke the news last Thursday that the United States will be withdrawing from the Paris climate agreement. This had been the indicated decision by White House officials, but Trump is infamous for changing his mind.

Echoing his comments from the NATO summit, Trump called the agreement "very unfair to the United States", saying, "I was elected to represent the citizens of Pittsburgh, not Paris". Pittsburgh Mayor Bill Peduto was less than pleased and tweeted, "Pittsburgh stands with the world and will follow Paris Agreement."

There has been significant opposition, with American city and state officials, American corporation leaders, and international leaders pledging to continue fighting climate change.

Stéphane Dujarric, a spokesperson for Secretary General António Guterres,

said in a statement, "The decision by the United States to withdraw from the Paris agreement on climate change is a major disappointment for global efforts to reduce greenhouse gas emissions and promote global security." Mr. Obama has expressed disappointment in the decision, which reflects "the absence of American leadership." Canada has announced its "unwavering commitment to fight climate change and support clean economic growth."

Other countries will also be forced to step up, making sacrifices to compensate for the US's withdrawal.

In his speech, Trump announced that "in order to fulfill [his] solemn duty to protect America and its citizens, the United States will withdraw from the Paris Climate Accord", continuing to advocate the "America First" message upon which his campaign was built and which permeated the Europe meetings.

The gist of his speech was this idea of a conspiracy against the US, with the Paris agreement only one facet of an evil master plan; Trump said that these countries whose "trade practices" and "lax contributions" to military spending are undermining the US are the ones who support the agreement.

Again, Trump ignored uncomfortable topics: his speech failed to address global warming and how to cope with it, or the pros and cons of the agreement. He claimed to be open to renegotiation, saying "we will see if we can make a deal that's fair. And if we can, that's great. And if we can't, that's fair." His sole focus is American citizens, and this focus is built on alternative facts, with little or no concern for the rest of the world.

Interestingly, "President Trump believes the climate is changing and he believes pollutants are part of the equation", according to US Ambassador to the UN Nikki Haley in an interview on CNN's "State of the Union". Apparently, withdrawing from the agreement does not mean the US will not continue fighting climate change.

## Implications

So how deep is this hole Trump has dug for his Great Country?

These past few weeks have been a turning point in an alliance formed in the aftermath of World War II. Many EU officials say they are preparing for years of conflict with the Trump administration.

German Chancellor Angela Merkel declared that Europe "really must take

our fate into our own hands", because the US can no longer be relied upon.

One Friday, Europe held long-scheduled meetings with China, signing agreements "to preserve our Creation" by cutting back on fossil fuels, developing more green technology, and raising funds to help poorer countries reduce emissions. The US may become an outlier in a world where the balance of power may be shifting. Chinese Premier Li Keqiang observed, "A stable China-EU relationship is useful to counter the uncertainties in this world."

The real question is to what extent the two entities can disengage. With Trump's unwillingness to work with the allied nations, he may be hard-pressed to find support when he needs it in the future, particularly regarding Iran and ISIS. Derek Chollet, the former assistant secretary of defense for international security affairs in the Obama administration, said "he's giving them little incentive to cooperate. In fact, he's giving the opposite incentive." However, as the world's largest economy, the US is a huge market for European goods. Their military is also crucial to European security.

At this point, European countries will continue moving ahead with their plans, with or without American support.

## In Other News

Trump is set to release a plan for cutting federal funding to infrastructure; he is calling for cities, states, and corporations to take on additional responsibility. Although the plan is nowhere near fully formed, he will at least provide a skeleton of the goals.

According to ABC news, Trump has filed for an extension on his 2016 tax returns, the reason for which has not been disclosed, with October 18 as his new deadline. He will apparently release his past tax returns after the IRS audit has ended, although there is no legal reason he cannot release them while being audited.

James Comey is expected to testify in an open Senate hearing on Thursday. Let's see what new dirt will arise this week.

I would like to thank Donald Trump for existing, and giving us unlimited content for filling space, if necessary. I would also like to blame Donald Trump for existing, as researching his complicated shenanigans takes valuable time away from my interview and midterm studying.



PA: Press Association

Trump shoved Montenegrin Prime Minister before posing with other NATO leaders.

# How Nintendo Has Ruined Gaming

## Electro-Nick's Electronics

**NICK OWENS**  
1B MECHANICAL

As you may already know, Nintendo, one of the most loved and hated videogame companies of all time, has recently come out with its newest platform, the Switch. For those of you who don't, this new console can be carried around like a portable system, allowing the user to bring console level gaming on the go with them. The announcement of this console raised many questions, such as: "Will this be too expensive?" "Will the games have to come at a reduced gaming quality?" and "PlayStation Vita? I've never heard of that before!" But despite all of this, the Nintendo Switch has launched with roaring success, being swept off store shelves and sending Nintendo stocks skyrocketing a whopping 1,000,000 percent (give or take several decimal places). Truly, this is a good to be a plumber in a red cap.

"And what's wrong with that?" I can hear you asking. "Nintendo makes good games. Isn't it nice to see that the family friendly studio can still compete with the likes of Sony and Microsoft?" I found myself saying the same thing. But then

I noticed something strange about the people who had bought a switch. A good friend of mine used to take several breaks before he could walk even half a mile. Now, he keeps telling me that we need to take the stairs wherever we go. Another friend used to be Vitamin D deficient, but I haven't seen him take supplements for weeks. Are gamers losing their way? That can't be right. Gaming is best done in your parent's basement, but it seems that gamers have started to go outside more. This can only mean one thing. A sinister plot.

You may not know this, but Nintendo was not always the gaming giant it is today. It started out as a playing card company. And the key aspect of playing cards is what? Going out with your friends. But that all changed in the eighties with the release of the NES. Nintendo had become the enthusiasts of eight-hours-in-the-dark-playing-Zelda that we know and love. But secretly, they must have hated it. An outdoor enthusiast can never, at heart, be an indoor enthusiast and vice versa. So that's why they developed the Switch, to trick gamers into going back outside just like they always wanted. It's even in the

name. Nintendo SWITCH.

In this reporter's opinion, I will not stand for the misdemeanor and challenge my fellow gamers to do the same. Summer of Play? I shouldn't even know that it's summer. Buy a Switch if you want, but tape it to your docking station. Remember the gaming motto: don't think about whether you want to play games while hanging out with your friends, think about

playing games instead of hanging out with your friends. And if daylight isn't blinding, you've been spending too much time outside.

Now, you must keep in mind that this is only my opinion, but you can trust my opinion. Remember, I'm an expert.

Now get out there and stop Nintendo.

Note: This is a completely unbiased article written by an unlicensed "professional"



Geekologie

And if daylight isn't blinding, you've been spending too much time outside

## Engineering Student vs. Wild



There once was a boy named  
Billy Bob Blue,  
He was an engineering student  
just like you.

One day at his desk he looked  
outside,  
This simple action elicited quite  
the sigh.

For beyond his desk flowers  
bloomed,  
It reminded him of before his  
social life was doomed.

At this moment he quietly  
resolved,  
To venture forth, even if his  
GPA dissolved.

Friends were recruited, hiking  
boots strapped on,  
Conversations were quieted  
when they saw a fawn.

Through swamps and a river  
they eagerly paddled,  
There was great excitement,  
nobody dawdled.

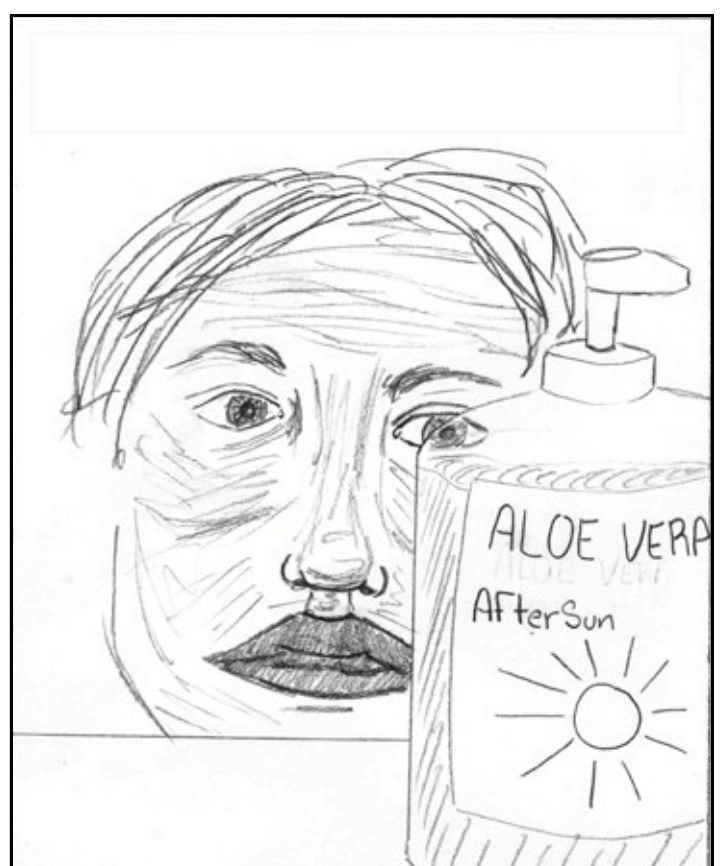
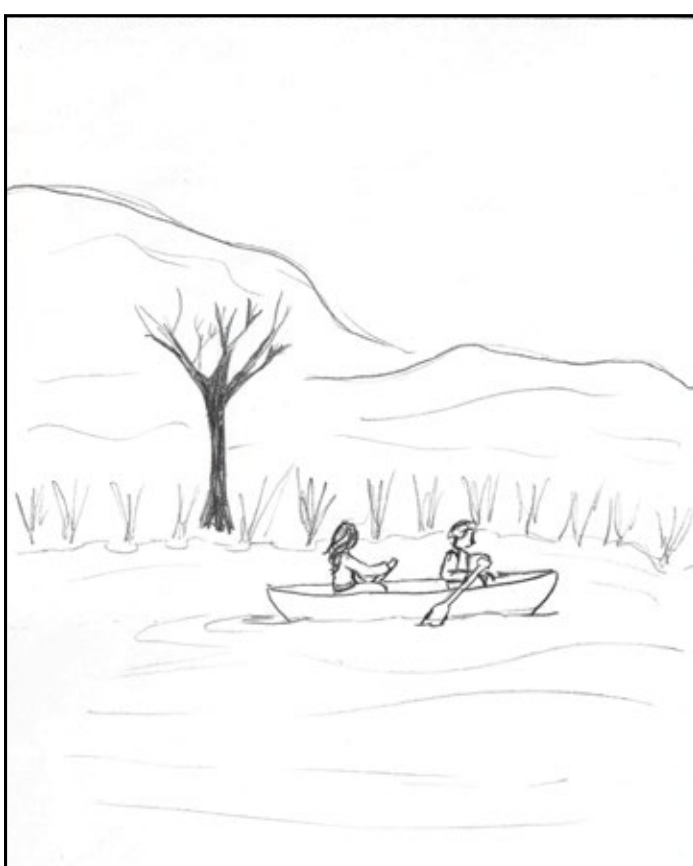
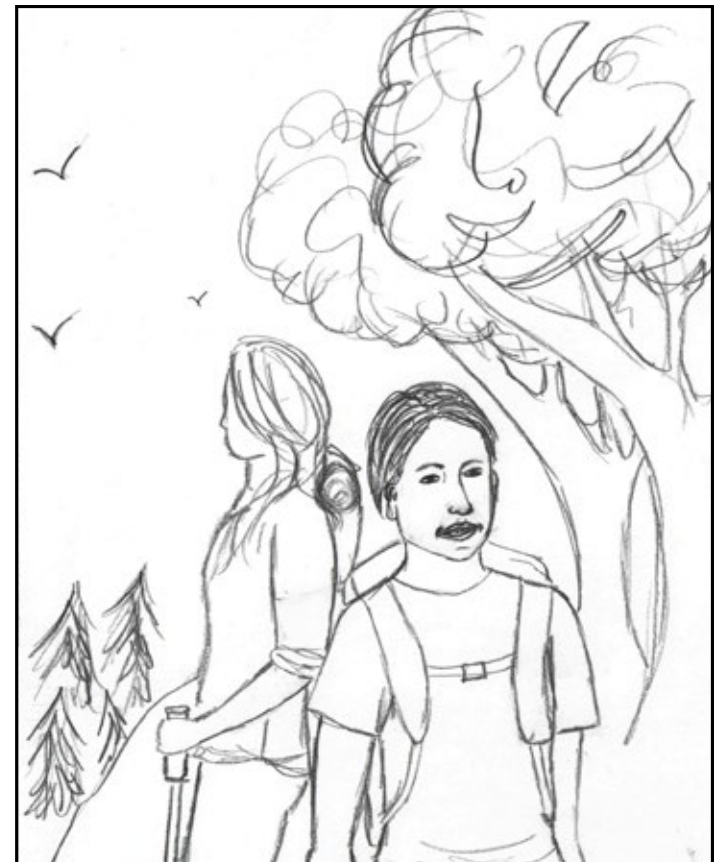
What a weekend! They said,  
Such scenes to be had!  
Infact they even succeeded in  
catching a Bass.

But alas, that next morning  
something was amiss,  
Everyone's skin had started to  
itch!

The itch spurred sadness as skin  
started to peel.  
The threat of a sunburn had  
turned out to be far too real.

For this is the plight of an  
engineering student,  
The halls of the school keep us  
inside if one is prudent.

Our skin loses pigment, we're  
practically ghosts,  
But in the end it'll be worth it  
when we can afford more than  
toast!



# How Did It All Happen So Fast?

## EngSoc Mental Health Blog



AWN DUQOUM

ENGSOCSOC MENTAL HEALTH BLOG

Earlier this week the MHA directors sat down with one of their own directors and conducted a small Q&A session with them. Awn Duqoum shares his story about how his obsession with proving himself made him forget what was happening around him

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

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

Well, I'm not sure what there is to tell. My name is Awn Duqoum, I'm in Mechatronics Engineering (TRON) and I've done a few things during my time here at UW.

### Q: Where does our story start?

I remember before 1A I heard everyone say that I should enjoy university while I could, because it was over sooner than I thought. I'm not going to lie I always thought they were exaggerating, but today it hit me that I was interviewing for my 5th coop, and that I was already in 3A. I don't quite know how it happen so fast, or where I was when time was passing? I passed the halfway point, and it's scary to think how much my life has changed. I was so busy trying to catch up and stay on top of everything I didn't notice I was changing, a lot.

It kinda bothers me, that so much could happen without me being able to take a step back and take it all in. It's almost like I've climbed this huge mountain and then once I reached the summit I decided to turn around and head back instead of taking it the view. I like that analogy because I honestly think climbing a mountain might be less tiring than these last few years have been.

### Q: So is this story a self reflection of sorts?

I guess it kinda is, maybe it's time I turned around and set up camp at the summit and appreciated where I am now. Let's at the start of 1A. I got into Tron with a not so great average and no real involvements, so you can imagine that

my self confidence tanked when I learned what the average application looked like. Orientation week rolled around (back when it was an entire week) and it put me in a really good mood, I started term off not worried at all about university and much more confident about the term in general.

Well that all changed by the time the second week of classes rolled around. It became quickly apparent to me how little I knew, and how ahead everyone in my class was. I didn't get involved in 1A, all I did was study and attend class, and somehow I was still always behind. When rankings for that term came out my confidence plummeted when I found out how poorly I had done. Throw in a pretty bad coop into the mix and you get a good idea of how broken I was going into 1B.

Nearing the end of that coop term I made a vow to myself to do better, to try harder, to stop being the sad excuse of a person that I was. So that's what I did, I started getting involved. I took on a few positions and made an effort to get better marks. I got a pretty good coop that term, and when ranks came out I didn't feel as bad about myself.

I thought I had it figured out, I was forming good study habits, meeting a lot of cool people and getting to plan fun events. Life was getting stressful, I had less and less time to work on school things and the constant worry of going back to how things were in 1A started to make life harder. So I ignored it, I put my head down and kept going forward. I knew if I ever stopped to look around at where I was, the fear of failing out would be too much for me to bear and I would stop being involved.

I didn't do so great during my second coop term, so, like before, I set out to prove that I could do better (now mind you, who I was hoping to prove that to is still not quite clear to me). So when I went back to the same company for my third coop, I was more than eager to prove myself. I stated to develop a really bad work life balance, normally staying at work for 12-13 hours a day and often working through the weekend. Which isn't ideal but would've been fine had I not also been very involved with donning, EngSoc, RAK, and trying to piece together the orientation website. Which is when I started to get little sleep and rely on coffee for survival.

I was smart about it though, I knew my body had limits and I knew I couldn't push myself beyond them. I did my research and set up a daily limit of caffeine, and if I ever hit that limit I would stop give my body a break. So even though I was in a constant state of tired I got through that term and did more work than I ever thought possible. I honestly felt really good about myself after that term, things were going well!

Then 2B happened. It was not a pretty picture. When though all the upper years warned me about getting too involved in 2B I was too focused on getting work done I never payed attention. Not only was the term challenging, but I kept stacking on involvements and the hole I was digging for myself just kept growing. So I went back to what I did during coop, I planned out a caffeine limit (which was a lot higher than my coop dose) and tried to dig myself out of that hole.

Well, I wasn't as good about stopping when I got to my limit as I was during the coop term. The stakes were higher this time, a work project could manage to be a few hours behind schedule, but I couldn't afford to let my group down for any of our school projects. Turns out living off of CnD coffee and Monster was not a healthy way of living. The amount of caffeine I was ingesting just to stay awake was enough to keep me sick for the rest of that term.

At the end of that term I gained a reputation for being salty, because of how rough those 4 months were. But did I learn? Of course not my head was still down and I was still plowing along. Stress became my natural state of being, I couldn't sit down in one place for longer than 5 minutes without feeling guilty for not doing work. It got so bad that earlier this term I exploded, I was so nervous that I couldn't sit in class without feeling like I was wasting time. I couldn't start doing work because I felt bad that I wasn't doing other work and my mind was racing at 100 miles per second. That was my lowest point.

### Q: So where do you go from here? You had your lowest point, what happened after?

I stopped, I put my head up and looked around. I didn't understand how I got here, why I became so addicted to work and proving myself. I was the

most involved person I knew, my marks were good at this point, and I was getting good coops, but I still felt like I needed to prove something.

I've always known that I was a passionate person, and I mistook my hunger for improvement for passion. Passion fueled me to be the best I could be, it helped me do what I never thought possible. Passion is satisfied when the work is done however. You can be happy with passion. I could never be happy with my hunger. No matter how much I did I needed to do more.

I spent years being stressed, worried, and salty for no reason. I let things get so bad because I thought that if I took a moment for myself I would be back to that broken little boy in 1A who was going to fail. I destroyed my psyche and my body for what seems now like no reason. I climbed the mountain and then did it again and again.

It was a weird place to be in when I had my epiphany, I was sitting there unable to think straight and all of a sudden it clicked in my mind that I had no idea what I was doing. Almost like a switch that I turned on back in 1B reset itself and I was suddenly a normal person again.

### Q: So what's happened since?

Well for starters I am not nearly as stressed as I was a few weeks ago. I'm still doing the exact same amount of work, but now I know I have a pressure valve. In short I learned:

Taking time for yourself to relax and ensure your mental health is intact will not be the end of the world.

Being a little late on things that have no deadline is fine.

Knowing when your body needs sleep is huge.

Not trying to cheat sleep by consuming a stupid amount of caffeine

I think I've set up camp on the summit and even built a small fire, because it was hell getting here you can bet I'm going to enjoy it for as long as I can. I know there will be larger mountains to climb in the future and I think I can handle them all as long as I learn to enjoy the summit whenever I get there.

In closing, I think I am a richer person for the experience. It sure was a bumpy ride and I feel bad I missed a lot of it, but the appreciation I now have for life and hardships makes it all worth it.

# Engineering Exchanges?? But I'm Only in 1B!!

**PROFESSOR RICK CULHAM**  
ASSOCIATE DEAN, INTERNATIONAL

Yes it IS too early in your academic career to go on an international exchange but it's NOT too early to start planning for it!

It's a great opportunity and privilege but you must prepare, organize and plan. You could be among the 15% of your class who go on this once-in-a-lifetime experience. Most students go on exchange in 3A or 3B or both. But you have to start planning early!

What is an academic exchange? You'll get to spend one or two academic terms at a partner university where you'll take courses equivalent to those your classmates will be taking at UW. It is common practice for engineering exchange students to remain on the same academic schedule as the rest of their cohort and graduate with their class.

We have exchange partnerships with

over eighty top-tier universities in about thirty countries around the world. So you need to investigate which partner best suits your needs: many of our exchanges are restricted in numbers, some are open only to certain disciplines of engineering, for others you need to learn a new language. In some cases, it's best to go for a one-term exchange; in others, two terms work out best.

All this is a part of planning for your future career which could take you anywhere in the world.

To get started, visit our website (search for "Engineering Exchanges" from the UW home page) for all the details.

On Facebook, look for the "UW Engineering Exchanges" group, which is specifically for outbound students and those who have been on exchange. It's moderated by the Engineering Society (EngSoc) and Cindy Howe, the Administrative Coordinator of engineering exchanges. By the way,

Cindy's office is Carl Pollock Hall Room 3658 if you have any questions, and she can be reached at [eng.ug.exchange.askus@uwaterloo.ca](mailto:eng.ug.exchange.askus@uwaterloo.ca).

Don't let the opportunity pass you by! The application process takes more than a year of lead time. Applications must be submitted by November 1 for the following academic year. For example, if you want to go on exchange for your 3B term (Fall 2019), your application must be submitted on Waterloo Passport by November 1, 2018. You can submit it at the following link: <https://uwaterloo-horizons.symplicity.com/index.php?s=StudentHome&au=&ck=>

Finally, exchange is great for fun, travel and adventure. You'll visit parts of the world that stay-at-home students may never experience. Don't take my word for it; read what previous exchangers have to say:

"I wouldn't have traded my experiences for the world. My time on

exchange was great: I got to go traveling and back packing, got to meet some fantastic people from all over the world, and I graduated on time with my class and my friends! ... If you are even just considering an exchange, I recommend without the slightest reservation that you go. Waking up and looking forward to every day in a new country... that's just not a feeling that you get [if you stay at home]!" (Matthew Lee, Systems Design)

"Doing an exchange was probably the best decision I have ever made. I learned so much about engineering (of course), but also about European culture and history, and simply interacting with people of an entirely different background. The time and distance away from home, and the completely different lifestyle was definitely not easy to adjust to, but these aspects made the whole experience worthwhile." (Winnie Tse, Mechanical Engineering)

# The Iron Crossword

World Traveler

**CAMERON SOLTYS**  
4A MECHANICAL

1	2	3	4	5		6	7	8	9	10		11	12	13
14						15						16		
17						18						19		
		20			21		22					23		
24	25				26	27						28		
29			30		31				32	33				
34						35		36				37	38	39
40				41	42							43		
44				45								46		
			47				48		49			50		
51	52	53					54					55		
56					57	58			59	60	61			
62				63				64		65			66	67
68				69						70				
71				72						73				

**ACROSS**

- 1: Citizen of Romulus' and Remus' city
- 6: "\_\_\_\_\_ as I am, I'm still here" Great Big Sea lyric (2 wd)
- 11: Winter time zone of Nova Scotia (abbr)
- 14: Remark made to an audience but not fellow actors
- 15: Business that sells products
- 16: Distance a photon travels in a year (abbr)
- 17: Disease group of ringworm, athlete's foot
- 18: Famous Egyptian empress
- 20: Emperor who allegedly played the lyre as Rome burned
- 22: Spanish word for "gold"
- 23: Liquid precipitation
- 24: Transmissible spongiform encephalopathy (abbr)
- 26: The "brains" of a computer
- 28: Country of Baghdad
- 29: The \_\_\_ bitsy spider
- 31: Insect-like boxer
- 32: Sum
- 34: \_\_\_ Trotsky, communist revolutionary
- 35: Prefix relating to stars or space

**DOWN**

- 37: A very-hoppy light-coloured beer (abbr)
- 40: Ex-car capital of the world
- 44: ElectricityDistributorsAssociation (abbr)
- 45: Do not go near
- 46: Money used through most of Europe
- 47: Consumed
- 48: View
- 50: Podium
- 51: One piece used in the game "Milk Caps"
- 54: Fast electronic mass-storage technology
- 55: Leading Indian stock exchange (abbr)
- 56: Country south of Ecuador and Columbia
- 57: Exclamation of surprise
- 59: Depression-era wandering worker
- 62: Country with first female president in the Americas
- 65: First noble gas with no stable isotopes
- 68: Spacewalk or moonwalk (abbr)
- 69: Done to milk to produce butter
- 70: Material of black piano keys
- 71: American Education Services (abbr)
- 72: Israeli ship damaged in the 2006 Lebanon War
- 73: Band of "Wonderwall"

**DOWN**

- 1: Vermin that spreads plague
- 2: Open Systems Interconnection (abbr)
- 3: State of Ed and Penny in Fargo
- 4: Association for Dental Education in Europe (abbr)
- 5: Not far
- 6: Canada's self-regulating advertising body (abbr)
- 7: "The gateway to the west"
- 8: Dutch settlers in what is now South Africa
- 9: One hopping Australian animal (abbr)
- 10: Directors Education Program (abbr)
- 11: Table used for making sacrifices
- 12: Country with capital city Damascus
- 13: Subdue, especially a rouge or wild animal (abbr)
- 19: Dry and inhospitable
- 21: New Zealand yam
- 24: ~
- 25: Horse
- 27: Philosopher of "The Allegory of the Cave"
- 30: Young and Restless hip-hop production company (abbr)
- 32: Section of a circle
- 33: Homer Simpson exclamation
- 36: Twice-a-day cycle of the ocean
- 37: Genus of dinosaur meaning "iguana-tooth"
- 38: City of the Eiffel Tower
- 39: Win by \_\_\_\_\_, close race (2 wd)
- 41: Cereal grain used to make a warm breakfast
- 42: "\_\_\_ been working on the railroad" lyric
- 43: Homemade detonation apparatus (abbr)
- 47: "Water" in Portuguese
- 49: Magic: The Gathering variant that uses 100 unique cards
- 51: Relating to breathing
- 52: Janis \_\_\_\_, Latvian communist politician
- 53: Mammals that travel in a pod
- 57: Sound of happiness
- 58: Japanese ninja foe of Wolverine
- 60: Popular three-layer cookie
- 61: "\_\_\_\_\_ black sheep" (2 wd)
- 63: The copper-clad building on campus (abbr)
- 64: Small ever-working terrestrial insect
- 66: Japanese ogres or trolls
- 67: US state with capital city Albany (abbr)

# Sudoku

#2017-06-07

**VINCE MAGAS**  
4A MANAGEMENT

Medium

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

Hard

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

Very Hard

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

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

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

## "What Club Would You Start in UW?"



**"Full Contact Calculus"**  
Matt Post, 4C Systems Design



**"Upside Down Club"**  
Keegan Skoretz, 4A Mechanical



**"Turkey Bacon Club"**  
Simon Grigg, C-Soc President



**"Pug Club. Do you even have to ask?"**  
Sarb Majumdar, 4A Management



**"Ice Cream on Pizza Club"**  
Sanjay and Simon, 2B Tron



**"Night Club. Go to Pub Crawl"**  
Sabrina, Nano 2019