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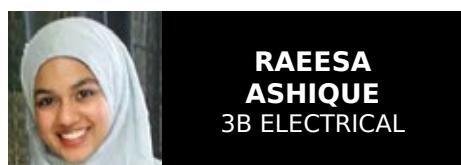
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Student Mental Health Walkout



Cameron Soltys

Students gather outside of DP to protest the University's state and response to mental health concerns



**RAEESA
ASHIQUE**
3B ELECTRICAL

Tragedy struck the University of Waterloo on Monday, March 5, when a young man in his fourth year took his own life on campus. Our condolences are with the family, friends, and acquaintances of this student. May he rest in peace.

The University released a statement, noting that they are in touch with the family to provide support and discuss the timing of further updates to the campus.

This saddening incident has prompted widespread discussion on mental health. On his blog, President Feridun Hamdullahpur said, "Like many of you, I am asking what was going on in this young man's world where taking his life seemed the only way out."

Last year, two students committed suicide in the Winter 2017 term. Following the tragic events, a petition urging the University to address mental health concerns garnered thousands of signatures, and a report was commissioned to investigate this situation. The President's Advisory Committee on Student Mental Health is

releasing this report on March 14: it will discuss staffing concerns, how to further support student mental health, and how to improve student life on campus, including examining the current campus culture.

They are also holding a forum to discuss recommendations put forward by the committee and next steps to achieve positive change on campus. Attendance is encouraged.

The President also said, "We need to turn talk into action to make sure we are doing everything in our power to remove stigma and connect people with the help they need."

This time, it felt different.

The University openly announced the death, rather than covering it up. I am not blaming the University: copycat suicides are a documented phenomenon, so choosing not to broadcast previous suicides may have been the right thing to do. I am simply acknowledging their transparency.

Maybe because it is the first suicide of 2018. Maybe it is the timing, with the mental health report about to be released. Maybe it is the fact that this student was so close to graduating. Maybe we have collectively realized it is time to start talking. Enough is enough.

Mental health has become a larger conversation than ever before. People are sharing their stories. Students are protesting for change—we want more discussion and more resources.

There is a deficiency of counsellors here on campus: twenty-two fulltime counselling services staff and two full-time psychiatrists serve over 31,000 undergraduate students and over 5000 graduate students.

I have heard of some students with positive experiences with counselling services. However, most people that I know personally, or have heard about, had very poor experiences. They often waited for weeks or even months to get an appointment. Basically, unless the individual is fully or borderline suicidal, they will have a relatively long wait period. The staff is fully booked, so priority is given to extreme cases, leaving moderate cases feeling unimportant and alone.

The sadness, anger, and frustration permeating the campus led to a Walkout for Mental Health on the morning of Thursday, March 8. Organizers wanted students to actively "walk out" of class to protest the state of and response to mental health concerns at the University. About 200 students attended.

Sarah Welton is a fourth-year student studying English Rhetoric, Media, and Communication with a minor in Management Studies and co-op. She calls herself a "symbolic lead" in organizing the walkout, saying it began in Professor Frankie Condon's class last week. Condon inquired how her class of forty students felt after the suicide, and everyone shared stories and opinions. The emotion in the room led to organizing this event, of which Condon was very supportive.

At the protest, students shared stories of abuse, sexual assault, depression, and post-traumatic stress disorder. Welton cited the sense of solidarity and empowerment: after seeing the bravery of the first few who spoke, more and more students wanted to stand up. Even one professor and a counselling services staff spoke about their experiences. "There was a lot of emotions running high: anger, sadness, frustration, and loneliness...I heard so many heartbreaking stories."

Students believe that the time for change is now. Welton said, "With the walkout, we want to push for a change from the student body as well as a change on the part of the administration. A concrete change, not just some tokenism that will be forgotten in a few months."

Snakes, Rods, and Sugar Pills



CAMERON SOLTYS
EDITOR-IN-CHIEF

Hello everyone, welcome back! The birds are singing in the trees. The snow has receded (except for the days when it shows up in force). The Earth approaches its spring equinox.

I'd like to give a big shout out to Rafiq, Tony, and Stone for coming in to keep me company during layout this weekend. I hope you all enjoyed learning the nuances of InDesign; I can now rest peacefully knowing that there are dedicated layout editors to take care of the paper when I leave. A second thanks to Stone, who, in addition to writing two excellent articles, also participated in the Iron Inquisition! Finally, a big thanks to Raeesa for some tremendous coverage of the recent tragedy that occurred at our school, including interviewing the Waterloo Walkout for Mental Health's primary organizer.

That brings us, unfortunately, to the news that has been dominating this entire school. It's never easy to understand why someone takes their own life. The result of this most recent case has been a massive response through the entire university community. The reactions have been pervasive: in articles like the ones you see in both this paper and Imprint, on the school subreddit, and physically manifested during the Thursday morning walkout. They have run the gambit from confusion to anger to support to pragmatism. While I don't pretend to have any idea how to solve the mental health problems that plague our society, I am comforted by the thought that the overwhelming desire for improvement that I see in everyone—if properly harnessed—can make a meaningful difference.

Snake Oil Salesmen

I thought, this issue, that I would take a gander through one of my favourite topics: skeptical thinking in general, and snake-oil salesmen in particular. The term "snake-oil salesman" today means a shady character that sells some sort of cure-all. Much to my surprise, I found as I researched this article, the original snake-oil salesmen were quite legitimate. The original snake-oil was brought to America by Chinese immigrants in the mid-to-late 1800s. This oil, made from omega-3-rich Chinese water snakes, was effective at reducing inflammation. As the cure entered the public consciousness, unscrupulous individuals began selling snake oil as a cure-all. Furthermore, since there were no Chinese water snakes around, the medicine was worth its weight in lamp oil, lacking any inflammation-reducing properties.

Today, both to my frustration and fascination, the charlatans have expanded beyond just one product skew to a whole marketplace of ineffective, exaggerated, or outright harmful products and services. It's hardly worth trying to study, test, and disprove any one product, since two more will pop up in its place. It's both lucrative and easy to hop on the next big fad, and neither to comprehensively dispel it.

Now, I suppose, is a good time for some intellectual de-elitising. Skeptical thinkers have a

long and esteemed tradition of getting way up their own butts, absentmindedly and arrogantly dismissing a product or idea. Many people have weighed in on the burden of skepticism and the amount of open-mindedness a good skeptic should be required to show to ideas (particularly absurd ones). Christopher Hitchens' assertion, "What can be asserted without evidence can be dismissed without evidence," (initially presented in the context of the validity of religions) is a good and popular heuristic, but is hardly the final word on the matter.

My interest, however, is not with what level of open-mindedness to show internally, but rather externally. For me, skepticism is about protecting myself and others from the dangers of charlatans, tricksters, and—this last one being the most important to remember—misguided but earnest sellers of woo. I should further clarify that my interest in this article is not to discuss open skeptical topics, like the concept of consciousness or the efficacy of some groundbreaking cancer treatment, but rather to empower you to spot clear and obvious examples of subterfuge like magnetic power bracelets, ouija boards, ghosts, or mediums.

Your Body is Not Your Friend

Do you know what every part of your body is doing at all times? Where are your hands? Are they level and steady? Of course they are. And of course you'd know!

That righteous indignation behind that answer is the cause of a number of magical or spiritual devices in the world. My favourite is the ouija board. This is a board with all the letters of the alphabet on it and the words "yes," "no," and "goodbye." Place your hands on a three-legged pointer "planchette" which is then moved around the board by spirits to answer your questions.

The planchette's movement, you may be unsurprised to learn, is not caused by spirits at all, but rather by unconscious movements of the person holding it. The planchette moves around, guided by these unconscious movements, which are called the "ideomotor effect." Furthermore, the movements are unconscious, but not uninformed; therefore, they will frequently end up spelling out real, sensible words as your brain unknowingly adjusts the board to move the planchette in the way you expect it to move.

The ideomotor effect also applies to a second try-it-at-home type of woo: dowsing rods. Dowsing rods are two L-shaped rods you hold in your hands, walking around. The rods will, magically and without you willing it, randomly cross as you walk. Depending on the rods you're using, the place where the rods cross is a source of water, oil, or other material of your choice.

An important and consistent theme you may have noticed so far is that there is not trickery going on here; even the ubiquitous snake oil has a kernel of truth. That's one of the reasons these tools are so compelling: while it's easy to laugh at a magnetic bracelet salesman saying things as vague and general as the Oracle at Delphi, it's equally easy to be captivated by dowsing rods that are really crossing automatically while you hold them in your hands.

Commit All Crimes in the Desert

As previously discussed, the focus of this article is on clear and well-documented fake products, not discussing the much more difficult and complicated nature of skepticism regarding plausible or unlikely claims. As a result, the only alternative medicine I feel comfortable touching on is homeopathy. Rest assured, however, that this one type of sugar pill is more than enough to satisfy you.

Homeopathic medicine is based around the ideas that "like cures like" (so poison ivy cures itches) and that diluting a substance (often so that the dilution is far below one molecule per pill) makes it more potent due to a non-specific "water memory." This raises some interesting questions, like why ocean water, having touched practically everything in the past couple billion years, is not a panacea. Like all the other crazy ideas we've talked about, this one has a tiny basis in truth. Specifically, if you grew up in the 19th century, when medicine consisted of highly invasive surgery and biologically-significant doses of whatever the doctor had lying around, sometimes no medicine at all may be the best choice for you.

What's the Harm?

Sometimes it feels like skeptics just don't want to have fun, or that they have fun by being smarter and more right than everyone else. It's certainly an easy accusation to level when a self-righteous skeptic charges in and close-mindedly declares something that is beyond current scientific understanding is completely impossible. However, I have found that, frequently, fake and unscientific products and services have a tremendous ability for harm. The medical danger of someone using homeopathy in lieu of evidence-backed medicine is a clear danger that could end in death. Tricks like dowsing rods and ouija boards may seem less harmful, only cheating the gullible out of some money. They are not; it's too easy for these simple tricks to turn into major destructive products. For instance, a product that has been described as an "electric dowsing rod"—essentially a single dowsing rod attached to a black box with randomly-flashing LEDs—was marketed in the 90s as a drug, bomb, and weapon-detection device. While traditional dowsing rods are not an identical product, I can't help but think that an electromagical material-detection box seems a lot more plausible if you already think that manual material-selection rods already exist.

I hope that this has been an informative read for those of you who have not run across these magic products before. I certainly hope that it inspires caution in you the next time a pretty piece of woo catches your eye. For those of you who think you've found something science can't explain, I encourage you to dig in deeper; sometimes skeptics have answers that haven't made it to popular attention, and sometimes you discover a true mystery that people from all perspectives are trying to solve. Finally, to any skeptically-inclined readers: keep your head in the sun, don't fool yourself into thinking you know everything, and try diving into some more ambiguous topics, where the skeptical answer may not be complete, comprehensive, or accurate.

THE IRON WARRIOR

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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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Database Aims to Predict New Viral Threats



RAFIQ HABIB
1B MANAGEMENT

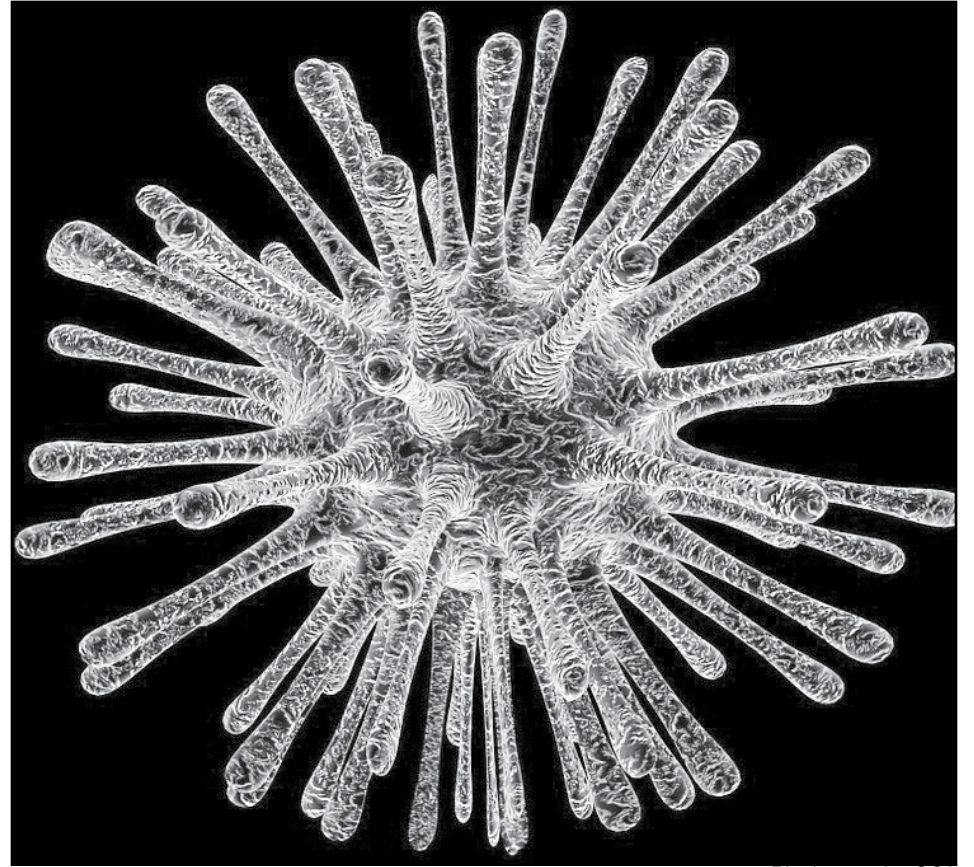
Since the beginning of modern medicine, science has been playing catch-up with viral outbreaks and pandemics; resources are allocated and effort dedicated only when viruses appear and begin to wreak havoc on human populations. Peter Doszack, the president of health research organization EcoHealth Alliance, aims to bring an end to this approach and encourage the scientific community to take on a more proactive response to viruses by predicting them before they happen.

Known as the Virome Project, this initiative aims to catalogue hundreds of thousands of viruses found in animals (some of which have yet to be discovered) and compile them into an open database. The goal is to use this complete database to predict which animal viruses are most likely to mutate and cross over into the human population. Based on these predictions, scientists can begin working on possible

treatments and prevention methods that can be deployed to avoid a pandemic.

The large price tag for a complete virus database, an estimated \$1.2 billion, means that EcoHealth Alliance has had to make concessions on the scope of this project. As a result, the current target of the Virome Project is to obtain samples of the 71% most common viruses found in animals that are most likely to find vectors to the human population. The remaining viruses, Doszack attests, are so rare that they pose a much smaller threat to humans and are incredibly costly to obtain. Still, even with these limitations, he believes that the Virome Project database has the capability to be a game changer in the virus research community.

Fieldwork on this groundbreaking project will begin this fall on rodents, primates, and bats (three animals that pose some of the greatest viral threats to humans) in China and Thailand. Blood samples, and oral and genital swabs will be taken, viruses extracted, and then findings uploaded as soon as possible onto the database, which is planned to be free to the public and scientific communities.



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China's Presidential Term Limits Abolished



KAI HUANG
1A COMPUTER

In 1982, after the chaotic era of the Cultural Revolution, Deng XiaoPing and the Communist Party of China drafted up a new constitution that restricted the president and vice president to a limit of "no more than two consecutive terms." They forced a political shift, knowing too well the result of a president in lifelong tenure who had built a cult of personality. Since then, the governance of the People's Republic has been bureaucratic, operating in most aspects within the rule of law, with collective leadership at the higher ech-

elons.

Current President Xi Jinping, from the beginning, was considered to be a much different leader than his predecessors. He rose to power in 2012 under a promise to eradicate corruption within the party and regain public support. As he punished more than a million party members underneath this justification, hushed political commentary of the time questioned whether he was simply using this purge as a method to eliminate possible political rivals.

His next drastic step was taken during October of last year as he introduced the 6 members of his politburo for his next term as President. Political outlets noted that, firstly, none of the 6 could be considered a potential rival, or even an equal. More importantly, Xi did not include a younger

leader who would be trained as the successor to the position, an unwritten convention credited for relatively stable leadership changes. Xi himself was on the politburo of Hu JinTao before his presidency, and Hu on the politburo of Jiang ZeMin. At the same time, Xi was elevated to the same status as Mao ZeDong when the Communist Party's congress enshrined his ideology of "Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era" into the Chinese constitution.

On March 11, 2018, the Communist Party voted overwhelmingly for a plan to abolish presidential term limits, one proposed two weeks earlier by President Xi Jinping himself, marking an end to this longtime system and beginning what many consider to be a new era in Chinese politics. The of-

ficial party stance is that a restriction on his term as presidency is unreasonable as his two other major posts (party leader as well as military chairman) do not have any similar limits. Keeping this trinity of roles gives Xi immense control, and he has expressed in the past that his mission to "rejuvenate China" and restore it to the center of the world would take more than the decade that term limits would allow him.

The future for China was uncertain from the beginning of Xi's term, as he produced plenty of surprises. Whether he intends to stay on for a couple of more terms or serve as lifelong President is still unknown. It is expected at the very least that this change will allow him to serve as a more decisive leader and for actions to be taken quicker than before.



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Xi Jinping, the Chinese President, has repealed term limits on his office



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USS Lexington Discovered After 76 Years



STONE HE
1B MECHANICAL

The wreckage of the USS Lexington, an American WWII aircraft carrier, was found after 76 years on March 4, 2018 by a search team lead by multi-billionaire and Microsoft co-founder Paul Allen.

The USS Lexington was found 800 kilometres off the east coast of Australia and about 3 kilometres underwater in the Coral Sea. Allen's company, Vulcan, has previously found other sunken ships, including the Italian destroyer Artigliere, and the Japanese battleship Musashi. In August last year, Vulcan found the heavy cruiser USS

Indianapolis, which was sunk after delivering parts for an atomic bomb in a secret mission.

A number of aircraft were found fairly well preserved. A total of 7 Devastator torpedo bombers, 3 Dauntless dive bombers, and one F4F-Wildcat naval fighter was found west of the wreckage. In one of the photos, the F4F Wildcat can be seen with four Japanese victory marks and the Felix the Cat emblem of the VF-3 fighter squadron (The squadron still exists, though redesigned as VFA-31 and currently operating F/A - 18/E Super Hornets in Naval Air Station Oceana near Virginia Beach, Virginia).

It was also later revealed that the particular pilot that flew that particular Wildcat was Ed O'Hare, the first US Navy member to receive the Medal of



Honor during WWII. He was part of squadron led by John Thatch, a Navy Admiral who created a tactic to attack more maneuverable Japanese fighter aircraft.

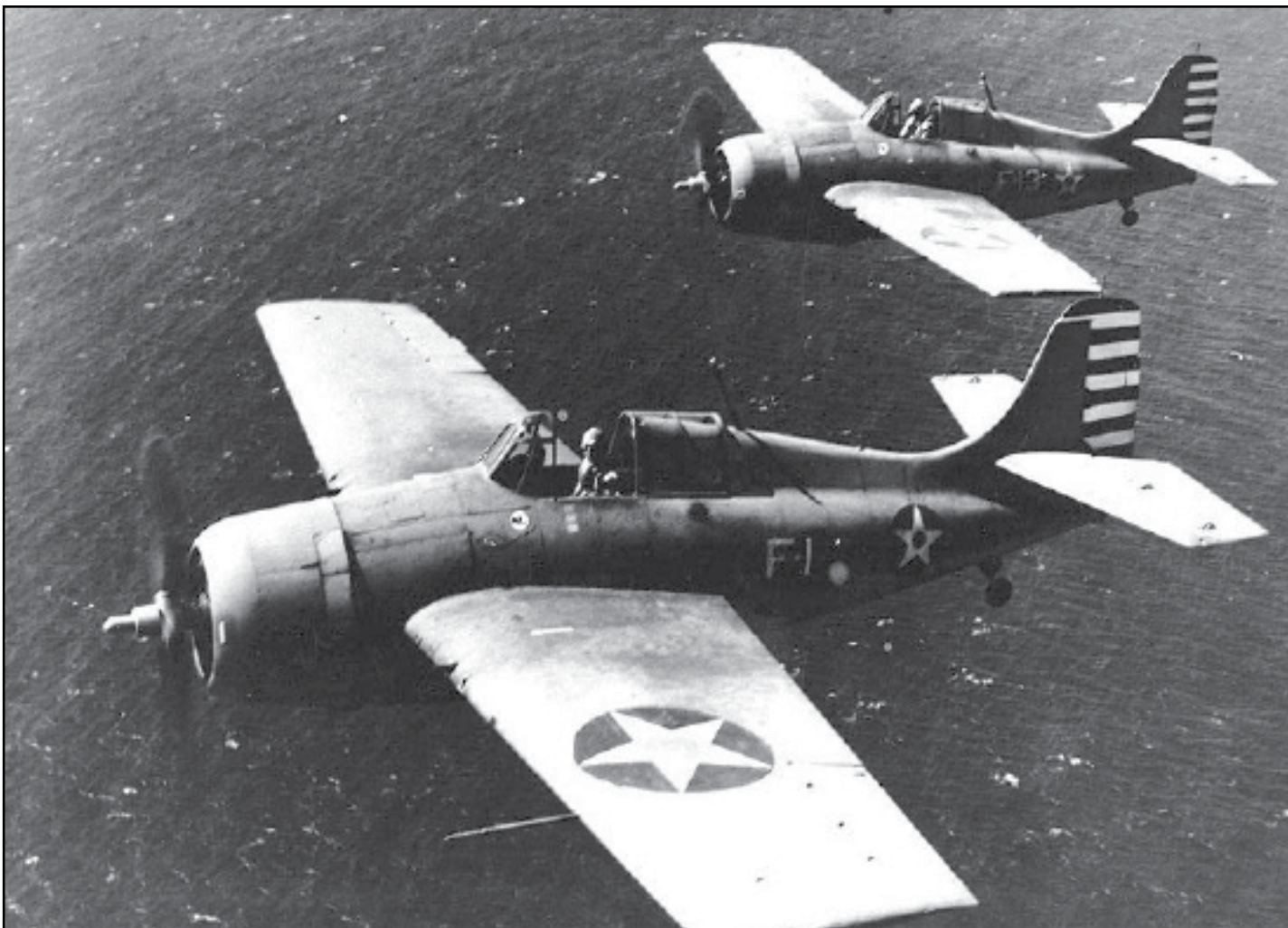
The USS Lexington was one of the first aircraft carriers launched by the

US Navy. It was originally designed as a battlecruiser (with the armament of a battleship, but the higher speed and thinner armour of a cruiser) but was changed into an aircraft carrier to comply with the Washington Naval Treaty. The aircraft carrier entered into service in 1928 and was given the designation of CV-2. It had a sister ship called USS Saratoga, which was commissioned one month earlier and was given the designation of CV-3.

The USS Lexington was nicknamed "Lady Lex" by her crewmates. The ship saw action in the early stages of the Second World War. In May 4, 1942, USS Lexington and another aircraft carrier, USS Yorktown, participated in the Battle of the Coral Sea. This naval battle, fought entirely by airplanes and with the American and Japanese fleets out of sight of each other, would decide the fate of Australia. On May 8, the USS Lexington was struck by Japanese aerial attacks and was heavily damaged. The damage was so severe that the USS Lexington had to be abandoned and was eventually scuttled. A little more than 200 crewman lost their lives on the ship while it sank.

The ship will be left there, as it is considered a war grave by the US military. Admiral Harry B. Harris Jr. a son of a survivor of the USS Lexington and the current commander of the Pacific fleet, congratulated Allen's team in their efforts to find the ship.

"We honour the valour and sacrifice of the Lady Lex sailors—all those Americans who fought in WWII—by continuing to secure the freedoms they won for all of us," he stated.



US Navy under Public Domain

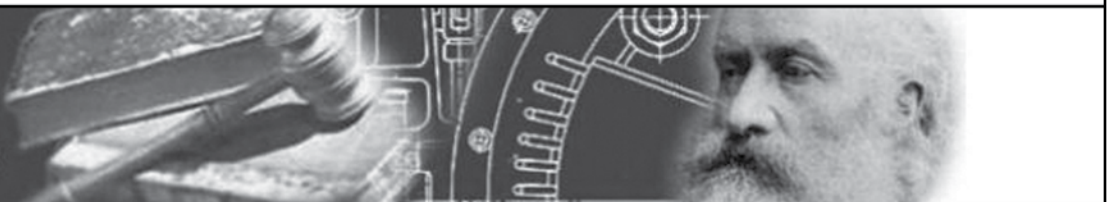
Two F4F-3A Wildcats after takeoff from the USS Lexington



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The John Fisher and Roy Duxbury Awards consist of a Certificate plus a citation and an honorarium of \$2,000. The awards have been named in recognition of the outstanding contributions made toward SFF by its former Chairs, Dr. John Fisher & Dr. Roy Duxbury.

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One Student's Opinion on Mental Health



Rafael Amorim Bertacini via Pexels under CC0

This article is inspired by a post on the Waterloo subreddit, titled, “I tried to kill myself yesterday. Here are my thoughts on the recent suicide.” The author opened with this disclaimer: “I’m not trying to detract attention from the guy who died but I’m genuinely surprised at the overlap and how closely I match his profile.”

He makes the following point: “Throwing blame to UW or course load or whatever is easy and makes us feel like we’re doing something about the problem. And maybe you are, maybe the pressure does add more counsellors or creates new mental health groups. But what about the people in your life? An organization can only do so much.”

After each suicide, we all blame the university. We say that they do not provide the resources for students who need help. They do not support students with mental health issues. They do not discuss mental health enough.

But the university does have mental health resources. They have counsellors – many students had discouraging or unprofessional experiences trying to use these services, and it is horrifying that vulnerable students were in this situation. But counselling services has helped others. There are hotlines that people can call. MATES is a peer

support group in which volunteers are trained to address such issues as depression, anxiety, etc. These resources are advertised.

There is an effort to talk more about mental health, such as EngSoc’s mental health awareness blog, and the President has addressed it on his blog as well. Any lack of discussion is due to the stigma, which is a societal problem and not specific to the university.

We also say that the very need for more counsellors indicates a problem at an institutional level. Instead of trying to fix mental health problems, why create it in the first place? Why is Waterloo so hard?

I know that school is stressful.

We as students have a lot of responsibilities. We take five, six, or seven courses, which have labs, projects, midterms, and assignments. We apply for jobs and prepare for interviews. We have extracurriculars, such as design teams and other clubs.

First years have the additional stress of transitioning. Fourth years have the additional stress of FYDP and seeking full-time employment. Tuition continues to increase. There is the pressure of rankings. There is the pressure of getting the perfect co-op. We were all top of our class in high school; as a result, the

shock of losing this status takes a while to come to terms with.

I know that the course load is intense, but the university must adhere to the standard of academic rigour they have established. I know that job applications are intense, but that is the nature of the beast – we come here partially or entirely for the co-op program, and we expect to get a co-op placement.

The problem is not necessarily what the school does to us. It is what we do to each other.

UW attracts a certain type of person. We (as the general student population) are not nice people.

We are willing to screw each other over for our own benefit. Or sometimes, with no ulterior motive other than bringing another person down.

We judge each other, based on perceived intelligence. Forget the stigma about mental health: there’s so much stigma surrounding “smartness”.

This is the irony: almost everyone coming in experiences the shock of no longer being “smart,” and almost everyone is going through it alone. We all judge each other while pretending to be smart – consequently, you feel like the only “dumb” one. We isolate ourselves, and each other.

We judge each other, based on

experience or lack thereof. Marks are generally not a major concern, as long as you pass the term with a 60 average. But if you didn’t go to Cali, you failed.

This is the irony: say “I got position X at company Y” to an undergrad at any other school, and they are jealous that we have these opportunities. But say that to a fellow UW student, and we look down our noses. We don’t always say it, but we are thinking of it: you aren’t good enough or smart enough.

Last term, when job rankings came out, I didn’t go to class. I knew it would be the only topic under discussion, and I did not want to participate in that.

Now, the million dollar question: why is a certain type of person attracted to this university, and certain programs in particular? What changes do we need at an institutional level? I couldn’t say. But there is so much room for change at an individual level.

People need to learn to be decent. Help each other. Check in with people. Make sure your friends and classmates are mentally okay. Be nice. The author of the post said, “A friend that messaged me out of the blue saved me.”

We all have a personal responsibility to reach out to the people in our lives. I hate to sound cliché, but I legitimately believe this: it starts with you.

MENTAL HEALTH RESOURCES

UW MATES

Email: mates@uwaterloo.ca

Drop-in Monday to Friday

Needles Hall North

9:30 AM – 4:30 PM

Engineering 2

11:30 AM – 1:30 PM

Local Services

Counselling Services: 519-888-4567x32655

Health Services: 519-888-4096

Grand River Hospital: 519-749-4300

St. Mary's Hospital: 519-744-3311

Hotlines

Good2Talk: 1-866-925-5454

Here 24/7: 1-844-437-3247

The Canadian Federal Budget is Coming



TONY KAPPEN
1B ELECTRICAL AND
COMPUTER

Another year and another budget; on February 27, Finance Minister Bill Morneau tabled his budget, detailing federal spending for the 2018-2019 fiscal year. This budget, like the one before it, keeps our finances securely in the red with a 15.6 billion dollar deficit plus an additional 3 billion in the event of any unforeseen catastrophes, for a total of a cool 18.6 billion dollars. The liberals justify their spending spree by pointing to the total ratio of debt to GDP as the truly important metric. This number has, in fact, dropped—down to 30.1 % from 30.4 % last year. So it seems all is still just fine and dandy.

With the preliminaries out of the way, let's get into the nitty and gritty of just where the federal government intends to empty its coffers. Of the 15.6 billion deficit, 12 is spent continuing already existing government programs. The remaining 3 billion is spent on new policy directives.

These directives are split into 4 main sections which Morneau has chosen to label as Growth, Progress, Reconciliation, and Advancement. I'll go over the key plans in each one.

Let's start with Growth. This section—labeled as such because it is intended to grow the economy—introduces the Canada Worker's Benefit, allocating 170 million dollars for the new policy. The Canada Worker's benefit is intended to provide a tax benefit to low-income workers who comprise the working poor. By the government's estimate, it is expected to lift roughly 70,000 members of the working poor out of poverty.

The federal government also allocates 68 million dollars to improve the place of women in the workplace, arguing that a more equal workplace will grow the economy overall. They intend the money to be spent on improving pay transparency, supporting community women's organizations and in programs engaging men and boys to promote gender equality. They also intend some of the money to be spent gathering evidence on the effectiveness of these programs.

This section also includes 115 million dollars for skills training and employment programs. For all of you wonder-



Alex Guibord via Flickr under CC BY-ND 2.0

Bill Morneau at the 2015 Pride Toronto parade

ing what the government has planned for when the robots take all of our jobs, never fear: skills training is here. This money will be spent to fund the Canada summer jobs fund to encourage companies to hire students, help improve the responsiveness and effectiveness of employment insurance, and help more women enter the trades. Overall, its meant to make the process of finding a job just a tad bit easier.

Now let's move onto the second big section. This section, titled "Progress," is intended to move Canada forwards in terms of science and technology and make us more innovative overall.

It dishes out a total of 340 million dollars for Canadian scientists and research organizations. This includes organizations like the Canada Research Chairs and the Research Support Fund. There's no money for the IQC at UWaterloo this year (but there should be 5 million coming next year).

There's an additional 124 million being spent on a variety of federal science institutes such as the National Research Council and a whole variety of federal laboratories.

Finally, the biggest chunk of money from this section, totaling at 434 million dollars, goes to programs meant to encourage entrepreneurship and business innovation. This includes Innovation

Canada, The New Women Entrepreneurship strategy, a new intellectual property strategy, and in improvements for rural broadband internet.

The third section, titled "Reconciliation," regards investments being made to improve the quality of life for indigenous Canadians.

1 billion dollars will be spent to address issues such as clean drinking water on reserves, employment and training programs for indigenous people, increased health support for residential school survivors, indigenous sports, and more.

An additional 320 million dollars will be spent to improve the quality of local government for indigenous peoples. This is done through initiatives like improving the ability of local government to collect and analyze the data of its citizens, as well as create the structures needed for collaboration between indigenous governments.

The last section, Advancement, focuses on spending that is intended to advance our shared values. The first of these values is a clean and sustainable environment. 249 million dollars will be allocated to protect national parks, marine life, introduce a carbon pricing scheme, support clean growth initiatives, adapting current weather and water services to climate change, and a lot more.

174 million will be spent in foreign aid

to improve the lives of women and girls abroad, and to support sustainable development initiatives all around the world.

165 million dollars will go to address the opioid crisis and 10 million to sustain local journalism.

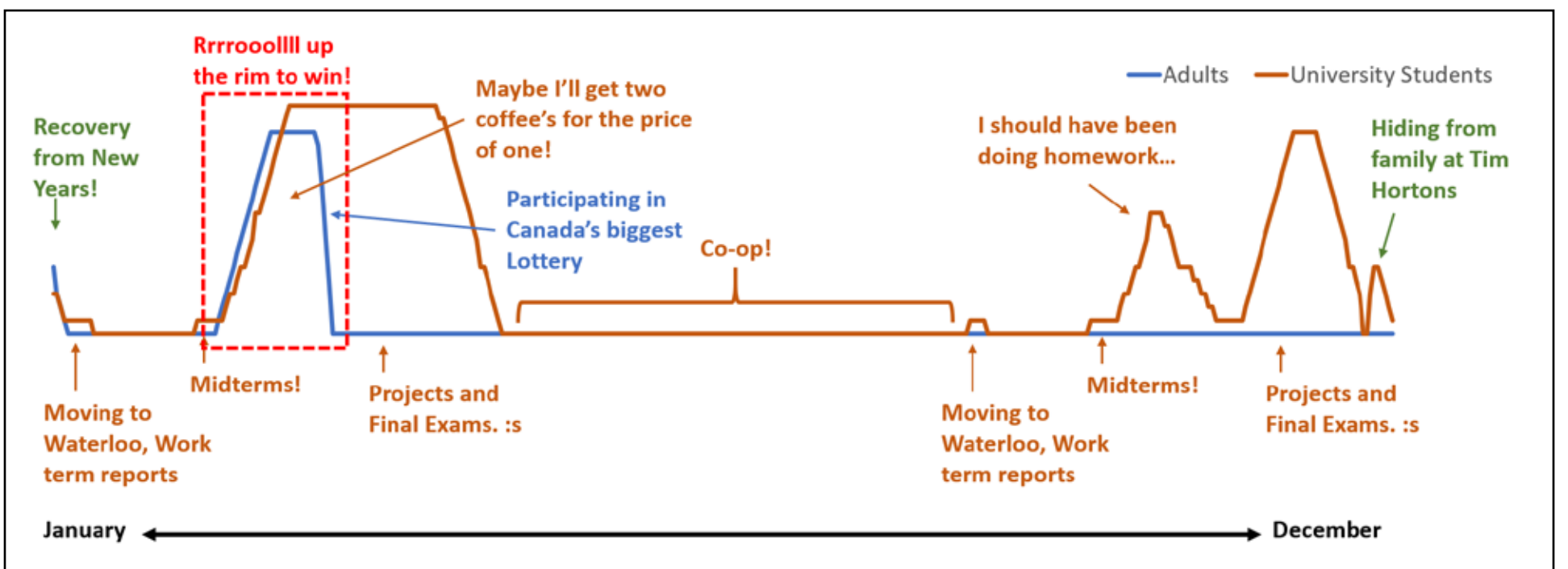
The 2018 budget also includes a few measures to increase government revenues. The most prominent is a crackdown on tax loopholes and evasion, which is predicted to add an additional 435 million dollars to government coffers (included in the revenue calculation for this year).

The 2018-19 budget also seeks to add some fundamental changes in the way governments, present and future, formulate policy. The most prominent of these is the introduction of gender-based analysis. This directive will force the federal government to analyze the impact of any policy it makes from the perspective of gender equality; they must determine how policy will impact men and women, boys and girls together. Any future governments will also have to abide by this directive (unless of course, they decide to change it themselves).

With the 2018-19 budget, the government attempts to update and grow our industry and society. In order to do so, they have brought us deep into the red, betting that the necessary investments now will pay dividends later. Only time will tell if they succeed. Here's to hoping they do.

Blood Caffeine Levels over Time

LEAH KRISTUFEK
CHEMICAL ENGINEERING 2016



Pyeongchang Olympics Recap, Part II



STONE HE
1B MECHANICAL

The Winter Olympics in Pyeongchang ended on February 25. Last issue, Hasan wrote an article covering the events up until the 22nd of February. Now, this recap will talk about the last three days of the Olympics, and the events leading up to the Paralympic games.

Team Canada added more medals to its collection: its final medal count for the Olympics is 11 gold, 8 silver, and 10 bronze, leaving Canada in third place based on a total medal count of 29 medals, and in second place for the highest number of gold medals. This puts us behind Germany and Norway, with total medal counts of 31 and 39 medals respectively. Both Germany and Norway tied for first place in the number of gold medals, each country having 14 gold in their medal count. This year's Olympics was one of Canada's best performance in the Olympics, as it achieved a new record in the amount of medals won at the Winter Olympic games.

Speaking of Canada's medal count, 5 additional medals have been added to the medal count since the previous issue. On February 23, Kelsey Serwa and Brittany Phelan finished first and second respectively in the women's ski cross finals, maintaining Canada's winning streak on ski-cross since the 2010 Olympics in Vancouver. On the same

day, Kaetlyn Osmond won bronze in the women's singles event in figure skating. She scored an overall of 231.02 points, which was better than her previous score in the free skate. On the next day, the first ever Olympic gold medalist for the snowboard big air was Sebastien Toutant, a Canadian. The men's hockey team from Canada finished in third place after winning against the Czech Republic in the bronze medal game with a score of 6 – 4. Even though Canada lost to Germany in the semi-finals, they did beat the team that defeated them during the preliminary round. The final medal earned by Team Canada was one of the four medals won in men's hockey for the past five Olympic games.

However, not all of Canada's moments in the Olympics were the greatest. On February 24, a Canadian ski-cross athlete Dave Duncan was arrested for stealing a car and going on a joyride while drunk. The other two people with him at the time of his arrest was his wife Maja and the Canadian technical coach William Raine. Both were arrested along with Duncan for their involvement. The trio found an idling Hummer and drove off before getting arrested. According to the local law enforcement, the driver of the vehicle was found to have blood alcohol level of 0.162, which was over the limit of 0.05. In addition, they stated that one of the people in the car passed out when arrested. Duncan has since apologized for his actions and his "behaviour that demonstrated poor judgment."

Another event that has stirred up some controversy was the medal ceremony for



South Korean Government via Wikimedia Commons under KOGIL Type 1: Attribution

The Closing Cerimonies of the Winter Olympics

men's hockey, where the Olympic Athlete's from Russia's hockey team sang their banned Russian anthem. The Olympic Athletes from Russia took gold after defeating Germany with a score of 4 – 3 in overtime. Due to Russia being banned from attending the Olympics in relation to doping scandals, the Olympic Athletes from Russia competed neutrally and under the Olympic flag. This also means that playing their own national anthem was a violation of their neutrality. However, since this was the first time a team from Russia won the gold medal in men's hockey since 1992, this was a big moment for the Athletes from Russia. They had all agreed to sing the Russian anthem if they were to win the match. They sang over the default Olympic anthem

during the raising of the Olympic flag.

The Olympics are over, but the Paralympics have just begun. Brian McKeever, a 13-time Paralympic medalist and a qualifier for the 2010 Winter Olympic Games, was the flag bearer for Team Canada for the opening ceremonies of the Paralympic games. This will be his fifth Paralympic game that he will be attending, yet his first time ever participating in an opening ceremony for the games. In addition, 55 athletes from Canada will compete during the nine days of the Paralympic Winter Games.

Overall, Team Canada performed very well during the Olympic games in Pyeongchang. With the Olympics over, and the Paralympics just starting up, we wish them all the best.

PC Intrigue: A Conclusion?



RAFIQ HABIB
1B MANAGEMENT

Continuing the timeline of the PC leadership race from the last edition of the Iron Warrior, here's a summary of the final two weeks of the Progressive Conservative Party of Ontario leadership debacle:

Feb 21: The PC party nomination committee clears Patrick Brown to run for the leadership.

Feb 24: Patrick Brown files a notice of libel against CTV News, claiming that CTV News had engaged in "false, malicious, irresponsible, and defamatory" reporting by releasing the sexual misconduct allegations

in the manner they did.

Feb 26: Brown announces he will end his leadership campaign. In a Twitter statement he lists 3 major reason for dropping out: his desire to focus on his lawsuit against CTV, his concern that running would draw focus away from the Liberals and the general election, and his worry that another leadership campaign would put his family under undue stress and threats from inside the party.

Mar 2: Voting registration for the leadership election is extended from March 2 to March 5 and the voting deadline is extended to March 8 among concerns that Canada Post could not have delivered all registration codes by the initial deadline.

Mar 5: Voting registration is extended again to March 7 and the voting deadline to noon on March 9 after members complain

that registration codes have still not been received.

Mar 8: An injunction is brought against the PC Party by lawyers representing members that had still not received voter registration codes, asking the court to postpone the election date and extend the deadline by several weeks to ensure voting problems could be resolved.

Mar 9: Ontario Superior Court Justice Todd Archibald rejects the injunction against the PC Party, ruling that a last-minute postponement would adversely impact all those that have already voted and risk opening the door to more court challenges. Voting closes. The PC Party announces over 65,000 members were able to cast a ballot, setting a new provincial record for leadership contests.

Mar 10, 1:30 pm: The PC Party meets in Markham to hold their leadership convention and announce the next leader.

Mar 10, 7:00 pm: After 5 hours of stalling, the Chief Electoral Officer of the leadership election reveals that vote tallying concerns have surfaced and are in the process of being resolved. He states that results will be announced as soon as possible, and everyone is sent home because the venue's permit has run out.

Mar 10, 10:00 pm: Doug Ford is announced the winner of the PC leadership, winning on the third ballot with 6202 weighted votes to Christine Elliott's 6049. Christine Elliott refuses to concede, citing serious irregularities and vote-allocation concerns that could have impacted the razor-thin 152 vote margin.

Waterloo's Global Engagement Seminar Program Presents

Global Populism and Democratic Futures Summit

Join us at the Summit to learn about populism, share your knowledge, and engage in fruitful discussions

When: March 28 – 29

Where: Balsillie School of International Affairs, 67 Erb St W, Waterloo

Featuring keynote presentations, exhibitions, and workshops

- Implications and Responses to the Rise of Anti-Science Movements
- #Feminism: When a Movement Goes Mainstream
- Cultural Belonging in the Wake of Populism
- You Won't Believe What Social Media is Doing to Your Democracy
- The Rise of Tech and Income Inequality
- And many others

FREE EVENT, REGISTRATION REQUIRED

Further Info: uwaterloo.ca/global-engagement-program/events/summit
Register (Day One): global-engagement-summit-day-one.eventbrite.co.uk
Register (Day Two): global-engagement-summit-day-two.eventbrite.co.uk

We Are All In This Together



ABDULLAH BARAKAT
PRESIDENT

Hello again, friends. For this issue of the Iron Warrior, I will not be giving an update on the work I have been doing. Instead, I wanted to share my thoughts with all of you about something that affects all of us.

For the past week and a half, I have had something weighing heavily on my mind: the student death that occurred at UWP last Monday. As a student myself, and as a person that has been in dark places many times over the past few years, this has really shaken me up. I have had many people reach out to me to discuss this and have read many comments about this incident all over the internet. Many of the comments came from less informed students in terms

of their knowledge on the operations of this university, but the bigger issues lie with the fact that sometimes perception is reality. Regardless of the truth behind these comments, if students perceive such transgressions within the university, they must be addressed. The issues with the culture fostered at UW, the lack of community, and the idea of “things are so much harder than they need to be” were mentioned a lot. These are all genuine concerns that have been felt for a while but not much has been done to try and fix these systematic problem.

I am thankful to be in the position I am in, because it allows me to have conversations with people that might influence change. As EngSoc President, I have been having many conversation about this with numerous members of Faculty, including Dean Pearl Sullivan herself. I have summarized all of the concerns students have brought forward and presented them to Pearl, who is very willing

to work with the Engineering Society and members of Faculty to investigate ways of putting an end to this perceived culture of negativity with the hope of making Waterloo a better place for the students. While this is obviously not an overnight process, her willingness to hear the students’ concerns shows her dedication to our Faculty and University community.

In times such as these, I implore you to reach out to your support systems, seek help if you need it, and make sure to take care of yourself. We care about

you. UW cares about you. You are more valuable to this world than your grades, than any co-op job, than any assignment. You are not alone in your struggles and you do not need to be. Your friends, your cohorts, your instructors, everyone is there for you if need them. We are one community, and we are here for each other. If there is anything I could ever do to help any of you, please do not hesitate to reach out to me. You will make it through. You deserve to be here. You matter. You are worth it. Until next time, friend.



Watch Out For All Those Mice



MARIKO SHIMODA
VP STUDENT LIFE

Well hello friends. I did not see you there. Perhaps because I am blind. You know who else was blind? The three blind mice. Mice are common in large cities. As more and more people continue to move to Waterloo and the city continues to flourish, I think we must be aware of the possibility of increased numbers of mice. JK.

Also Emma Swarney and I are cooking free pancakes and the pancakes are purple and we will be there on March 16. It is for National Engineering Month. Yay!

Also I hope you all know I love all of you and I wish the best for everyone. I just

want everyone to be happy and feel like they have a friend on campus. So if you’re ever feeling lonely just send me a message or an email or say hi to me or something. We can talk for a bit or get a beer or a coffee and just like idk. I just want everyone to know I am here for you and I care about you.

I really want to help the culture here change, whatever that looks like. I promise as President I’m going to try my hardest to help as many people as I can and create resources you can all actually use and events that you feel comfortable going to. I want everyone to care about each other. I want us to be a loving community, and celebrate each other’s wins rather than being jealous. And help each other when we fall down. I believe in us! I really think we can do it.

Happy National Engineering Month!



CÉLINE O’NEIL
VP COMMUNICATIONS

This March, join the rest of Canada in celebrating the engineering profession. Check out the Canadian Federation of Engineering Students’ social media presence, including a snazzy profile picture frame and student profiles from across Canada. If you’d like your experiences as an engineering student shared through the CFES’s social media, contact me (vpcomm.a@engsoc.uwaterloo.ca)!

The Engineering Student Societies’ Council of Ontario is organizing a blood drive competition between Ontario engineering schools. Donations between

February 17 and April 17 will count towards our total. Email me a photo of yourself donating, and let me know whether you’re on a study or co-op term. If you cannot participate, or if you’d like to do more, there is also a patch design contest for the event. Contact me for more information!

As I wrap up my term as VP Communications, I’m focusing on the internal part of my portfolio, which includes internal marketing. I’m working to make it easier for our staff and directors to advertise their events with posters by overhauling EngSoc’s LCD screens to make them more noticeable, useful, and easy to use. This month is going to be focused on transitioning, so that Andrew will be ready to take over as VP Comm. I’m excited to see him step into this role!

Upcoming Events Calendar

Wednesday Mar 14	Thursday Mar 15	Friday Mar 16	Saturday Mar 17	Sunday Mar 18	Monday Mar 19	Tuesday Mar 20	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca/event-calendar/
Pi Day Celebrations 5 - 7 PM POETS EngSoc Council Meeting #2 5:30 - 7:30 PM E5-3101	Hot Chocolate by EWB 11:30 AM - 1:30 PM CPH Foyer Paint Night w/ BEvERages 7 - 10 PM POETS	RigidWare FireSale 10 AM - 4 PM CPH Foyer EngPlay Presents: castUWay 7:30 - 9:30 PM Hagey Hall	Waterloo Goes to Mac Eng Musical 4 - 11:30 PM McIntyre Performing Arts Centre EngPlay Presents: castUWay 7:30 - 9:30 PM Hagey Hall		Charity Grilled Cheese Sale 11 AM - 2 PM CPH Foyer EngiQueers 6 - 9 PM POETS	Board Game Bonanza 4:00 - 6:30 PM POETS Tax Filing Workshop 5:30 - 7:30 PM Multimedia Lab	
Wednesday Mar 21	Thursday Mar 22	Friday Mar 23	Saturday Mar 24	Sunday Mar 25	Monday Mar 26	Tuesday Mar 27	
Course Critiques 11:30 AM - 2:30 PM Multimedia Lab Coping and Resiliency Skills Workshop 5:30 - 7 PM DWE 1501 EngProv 7 - 9 PM POETS	Hot Chocolate by EWB 11:30 AM - 1:30 PM CPH Foyer Semi Formal 9 PM - 12 AM The Turret	Free Purple Pancakes 10 AM - 12 PM CPH Foyer Profs vs Students Hockey Game 7 - 9 PM	EngSoc at THEMUSEUM 12 - 4 PM THEMUSEUM		Charity Grilled Cheese Sale 11 AM - 2 PM CPH Foyer EngiQueers 6 - 9 PM POETS	Board Game Bonanza 4:00 - 6:30 PM POETS	

Final Stretch + Other Updates



PAT DUONG
VP ACADEMIC

Hi all! I hope the past few weeks have been treating you well. A lot of major events have wrapped up for this term and there are many ideas for the future. I'm still working on transitioning my role as VP Academic over to my successor Thomas Dedinsky. Hopefully future VP Academics will be able to take the lessons I've learned and improve in the future.

Resume Rescue

Can you believe Resume Rescue is turning 2 years old and it is time to re-evaluate the service? The service has constant usage and, in the future, it will require more operational support. Another part of my investigations have shown that there are numerous places engineering students can and do get their resume critiques as a part of an ongoing system. Some concerns for the future are the overlap, and thus some inefficiencies, of how resources are being used.

Co-op Fee

There is currently no update from CECA about the co-op fee and I am continually contacting them, as well as the FEDS VP Education, with requests for updates. I am worried that, because some of the controversial petitions have ended and student interest has died down a bit, the push for transparency from the student body isn't as strong as it was at the beginning of the term.

Career Fair

Career Fair went smoothly and I hope



Joanna Liu

Career Fair is a great way to practice networking and search for your next job

that it continues to grow as an event in the future. The directorship team had a lot to learn in terms of executing a multifaceted event. There is, thankfully, now a lot more email, google form, and external contact infrastructure that will likely make running and planning next year's event a lot easier. One piece of reflection was to reach out to more companies and organizations in the future, and prioritize those that can appeal to a wide variety of programs and types of engineering application not just limited to traditional technical work.

This year's career fair also marks the first event that OSPE, (the Ontario So-

ciety of Professional Engineers) has attended in addition to PEO, (Professional Engineers of Ontario). While each organization influences different aspects of engineering, both organizations have student and new graduate programs and resources, so I encourage everyone to check them out!

Future Workshop Ideas

Shout out to the *Tax Filing Workshop Part 1* that had a solid attendance in early March, and Ben Moir's work in developing and running that event. *Tax Filing Workshop: Part 2, How to Fill in Canadian Taxes* is happening on Tuesday, Mar

20!

In the future, I'd like to see more widely applicable workshops, like the ones I ran this term. Some ideas include workshops on the layout/deciding content of FYDP posters, communicating engineering ideas to non engineering people, how to fill out PEO pre-graduation experience forms, and perhaps more collaborations with external employers/organizations.

Have thoughts/opinions/concerns on the topics above? Or anything academic/co-op related? My office hours are Fridays 11:30 am - 1:20 pm in the Orifice or drop me an email at vpacademic.a@engsoc.uwaterloo.ca. Cheers!

So Long and Thanks for All the \$\$\$-ee-doos



MICHAEL BAUCHEMIN
VP FINANCE

I learned at sponsorship presentations on Saturday, March 3, that Engineers Without Borders chapter at UWaterloo releases podcasts (available at anchor.fm/uwaterloewb). Go ahead and give them a listen, you might hear some familiar voices! EWB is also holding Passion Pitches (kind of like TED Talks) soon, so check out their Facebook page!

CESS is holding their termly coffeehouse on March 23 (the last Friday of term!). As a chemical engineering student, it's my responsibility to inform you all about this. The coffeehouse is usually very fun, and you sometimes get to see profs perform their little ditties (Beltanos!).

Coveralls will be arriving either the end of this week or the beginning of next week. When they come in, anyone who bought them will be receiving an email telling you to come pick them up in the EngSoc office in CPH 1327! Once the coveralls arrive, what better way to celebrate than with a Fire Sale? Novelties will be holding a fire sale, date TBD, to celebrate the arrival of the coveralls. Most patches WON'T be on sale, because they're mostly new, but what can you do? You can buy other things! Sweatpants will go on sale for the first time in FOREVER!

Do you all remember my last article, where I talked at length about ECIF proposals? Well, they're still due March 18,

so if you have an idea for a capital improvement to engineering, the Society, or any Society service, please fill out a form on our website. If you have questions, it's better to talk to me than to get roasted by the Board of Directors like Sabrina last Spring.

RidgidWare has a Fire Sale coming this

Friday (March 16) as well! If you have any questions about what might be on sale or how you can get in on the action, please message the RidgidWare Facebook page! We just got a new shipment from ECE stores, and Sarah Madigan says a lot of people in her ECE 2020 class might be interested, so don't let them take all the

good stuff!

Please clap... Actually, please follow us on our various Facebook pages: RidgidWare, Novelties, P**5, and POETS. Pending when I get the credentials, you should also follow us on Twitter [@uw-POETS](https://twitter.com/uw-POETS) (some cool old stuff is there right now anyway).

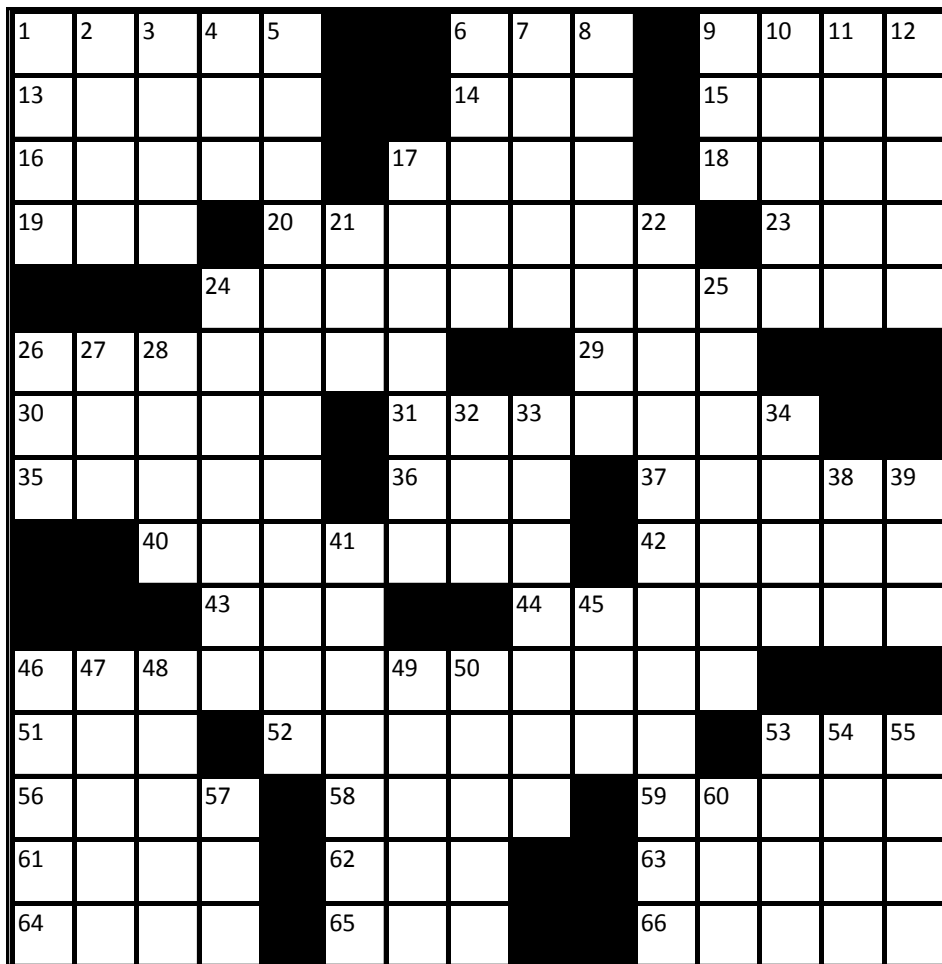


Teresa Han

Get ready to show off in your brand-new covies!

Mighty Machines

CAMERON SOLTYS
4B MECHANICAL



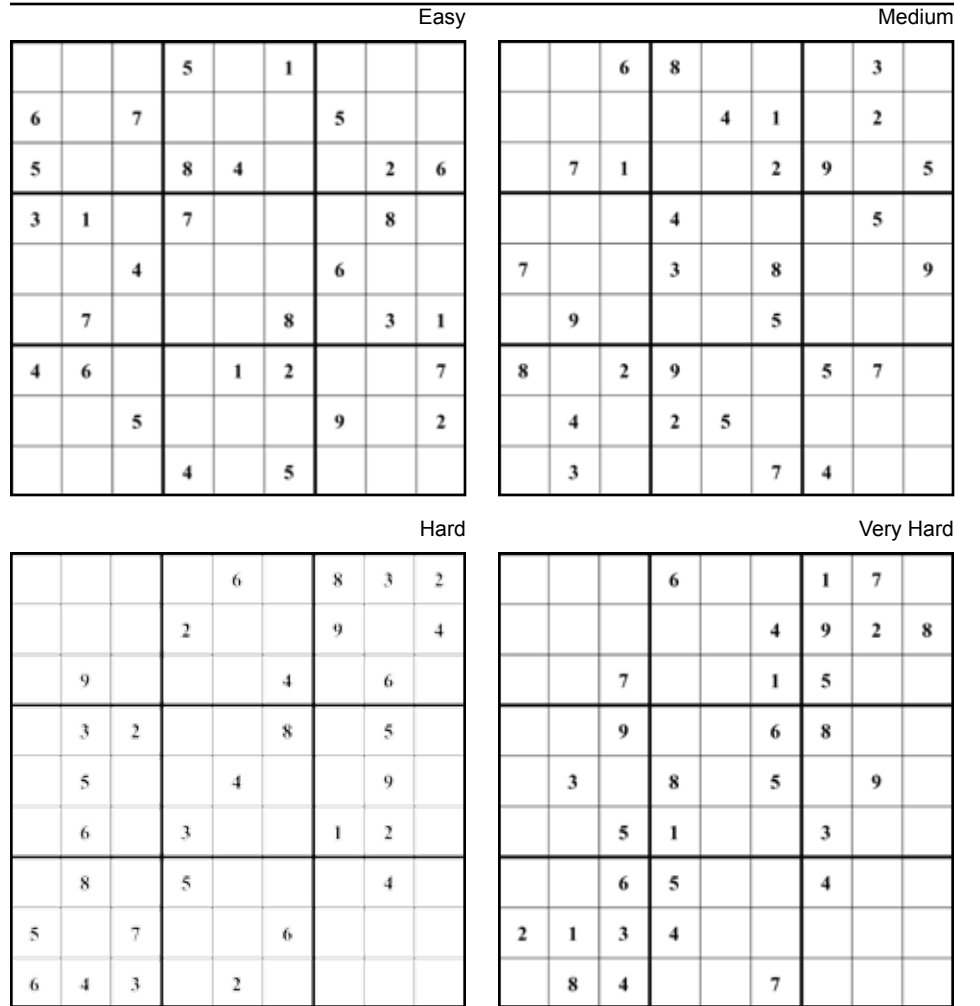
ACROSS

1: Influence or point of view
6: Famously hyper-viscous liquid
9: Larger than a teaspoon (abbr)
13: Prefix meaning old
14: Measure of fluidity
15: Ballerina attire
16: Sell livestock-care services
17: Real Estate Assessment Centre (abbr)
18: Cut off, especially with photos
19: Summer time zone of Colorado (abbr)
20: One religious fanatic (2 wd)
23: Car manufacturer of the Soul
24: Giant machine for reducing iron ore (2 wd)
26: 1998 British film about a gay high school student (2 wd)
29: Ellen ____, ex-executive of reddit
30: For a particular purpose (2 wd)
31: Originating
35: Decreases a Pokemon's attack

36: Toronto men's chorus group (abbr)
37: Unreasonably trusting
40: Non-optimal
42: Friendly match between teams
43: When a company becomes publicly traded (abbr)
44: "I know not what terrible thing this omen ___"
46: Fake, easily applicable dairy product (2 wd)
51: Normal (slang)
52: When heir-less property reverts to the state
53: Open Systems Interconnection (abbr)
56: Film about grey ops in Tehran during the hostage crisis
58: ___ the line
59: Global-range nuclear weapons
61: Angels arrived for the first one
62: ___ Coulter, political commentator
63: Drug derived from poppy seeds
64: Prefix meaning within
65: Civil, ___, and Environmental

#2018-04

CAMERON SOLTYS
4B MECHANICAL



DOWN


1: Unsolicited, unwanted communications
2: Follows behind
3: Step off, especially a vehicle
4: Console of Super Mario Bros. (abbr)
5: Occurred last year across a straight swath of the US (2 wd)
6: Danger
7: Two and ___ men (2 wd)
8: Gains back, especially on an investment
9: Transit system of the "Red Rocket" streetcar
10: Full-body covering
11: Uncomplaining in the face of suffering
12: Intermediate stage of butterflies
17: Change an event time
21: Zoo and Aquarium Association (abbr)
22: Grand Central, Kings Cross, etc.
24: Littlest Girl Guides
25: pH>7
26: Prank or trick

27: Pre-made alternate routes along the 400 series
28: Archaic "you"
32: Single-stranded biological information
33: Poorly-conceived
34: Action performed on loins
38: Fight, especially for power
39: Ambulance (abbr)
41: Parties for soon-to-be weds (2 wd)
45: The area of the European Single Market (abbr)
46: Used for vertical lifting
47: Long-necked fishing bird
48: Defaced with poultry products
49: Pastry often served with tea
50: Prefix indicating a chemical is derived from benzene
53: Notice of death (short)
54: Dirty, pornographic material
55: "___ tie straight?" (2 wd)
57: Portable, smartphone-controlled 3D printer
60: The "brain" of a computer


THE IRON INQUISITION

Cameron Soltys - 4B Mechanical

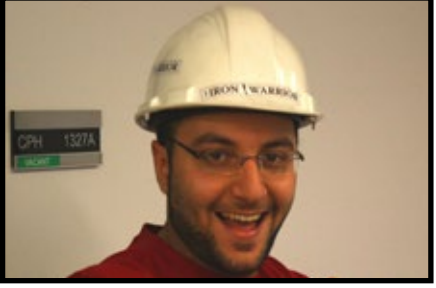
"What's Your Pro-Tip for Nesting Season?"




"ASSERT YOUR DOMINANCE"
Stone He, 1B Mechanical




"Don't eat a sandwich in front of them..."
Nikhil Melgiri, 1B Mechanical




"Stay the f* away"**
Abdullah Barakat, 4B Mechanical



"Flamethrowers"
Sarah Madigan, 3A Computer



"Kick 'em and run!"
Charinda Perera, 4B Mechanical



"Avoid isolated paths"
Asanka and Sonia, 4B Chemical