

Travelling Covies Across Canada

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CSCE Steel Bridge and Concrete Canoe Competitions



Gabrielle Klemt

The competition was held at the University of Waterloo this year over the May 12th weekend



GABRIELLE KLEMT
3A GEOLOGICAL

If you heard an unusual amount of French being spoken around campus from May 9 – 12, it wasn't the heat getting to you! Waterloo had the honour of hosting this year's Canadian Steel Bridge and Concrete Canoe competitions.

People from as far away as UBC and UNB flocked to our university to take part in the four-day conference. It kicked off on Wednesday night when teams arrived in E5 to get their registration packages and start the photo SCUNT.

Thursday morning bright and early contestants came to PAC to unload canoes and bridges and set up for a day of displays and presentations. The two competitions have different timelines. Steel Bridge had a brief morning display of their construction in PAC, and a chat with the judges about their reports before moving to formal presentations in the afternoon where the panel of judges listened to their design process and grilled them for 10 minutes about every detail.

Concrete canoe teams shocked me with their designs and displays. Each team has

a theme and they stuck to it with every aspect of their display. Western, who won the best theme (Wild Wild Western) had a full trading post set up complete with mason jars full of the "ingredients" used to make their canoe. Most of you have probably seen The Phoenix canoe in the foyer of E2, painted bright blue. This year, because the races would take place at Laurel Creek Conservation Area, no paints were allowed on the outside of the boats. I expected a lot of grey canoes but I severely underestimated these teams! There was colour everywhere – coloured concrete that is! Teams had sculpted the insides of their boats with logos, and carved and filled in the names of their ships with different coloured concrete on the sides. It was amazing.

The next day was the build day for steel. Teams were marked on how long it took them to build, how many people they used, and even whether any nuts or bolts fell on the ground during the construction! One of the teams that surprised everyone was UNB who was at the competition for the first time and came in second for lightest bridge and third for oral presentations. Waterloo's team came second for best design aesthetics, making us all proud!

At the same time that day, canoe teams

were doing presentations. Each team had 5 minutes to talk about their design, their concrete mix, what measures they took to be sustainable in their construction, their testing process, and more. The judges then had 10 minutes to poke holes in all their hard work, McGill got a lot of questions over the cracks in their canoe – a result of complications taking the canoe off the mold and transportation to Waterloo. Dalhousie made the mistake of mentioning research someone was doing at their university of using oyster shells as an addition in cement – something they had not looked into yet but were considering for the future – and almost every judge had a question to ask about it! That night Steel Bridge had its banquet and awards ceremony, and afterwards all teams headed out to join the Pubcrawl and experience our scintillating city nightlife.

Saturday morning before the sun was up – and before we knew whether it would ever stop raining – it was out to Laurel Creek to set up the rest of the buoys and unload canoes. People kept themselves warm by yelling cheers and dancing around while their teammates entered the chilly lake to test whether their canoes would float when fully submerged in water. All of them passed the swamp test – even the 600lb canoe built by Dalhousie

– meaning their vessels were sea-worthy and ready to start the races!

An underdog in the races was St. Clair College, the first college team to come to the competition and sporting a severe handicap due to their 4-month long strike in the fall term. But they came out ready to win and showed that they were a team to watch out for next year! Waterloo again made us proud, Waterloo Iceberg ploughed ahead in every race winning Best Spirit Award, Second in the Oral Presentations, and Second overall for the Ontario teams.

As the day went on the rain stopped and the sun broke through the clouds, lifting everyone's spirits and brightening up the cardboard canoe races held at the end of the day as a way for other schools to join together to build and race something purely for the fun of it. That night's banquet was a great success and teams stayed as late as they could at the banquet hall talking with the judges, the sponsors, and friends they had made over the last few days.

If you missed the fun this year and wish you hadn't, never fear because the American Upstate New York Regional competitions are coming next April and there is always room for those who want to join in, lend a hand, or paddle a canoe!

Diving In, Ramadan, and Vocabulary



HASAN AHMED
EDITOR-IN-CHIEF

Oh hello, didn't see you there. How you doing? Thanks for reading these windows into my mind. As you'll find out these cerebral panes are pretty transparent. I guess it's my area of the paper to talk about whatever. So what I'm going to do is give a few suggestions as to what to check out this issue, and then talk about random stuff. Since it's a bit more informal, expect less structure to this, because my thoughts are anything but that at 2AM.

Alright so I like the PCP about Universal Basic Income since it's a bit of a hot topic. Tony Kappen and I argue for and against them respectively, and both had good points come up. Also there was the 2018 CSCE Steel Bridge and Concrete Canoe Competitions held right here at the University of Waterloo, which was covered by Gabrielle Klemt. For this issue's Prof. Personalities, Aaron Propp interviewed Derek Wright. If you have any suggestions for professors to interview, let me know! I want a broad range of faculty members throughout this spring term. Finally, I want to point out Hira's article on the Waffle House shooting and aftermath, since it's such a prevalent topic in western media. As I'm writing this, I'm also aware of the Santa Fe school shooting that just happened. Everything that happens here in Canada seems so lukewarm compared to our southern neighbours. Before we get into the meat of this editorial, I just want to give a huge thanks to Judy Zhong for being my advertising manager and reducing a huge weight off of my shoulders. Special thanks also goes to Samridhi Sharma for helping me out with layout and copy editing. And finally, a special thanks to all the graduates of Iron Warrior who have helped me in the past; Meagan, Caitlin, Cameron, Donovan, and many others, but you four in particular, thank you. All the aforementioned people saved me a lot of energy when preparing this issue, especially when I've been fasting. Staff writers are always lower in the spring term, so any little help goes a long way.

So diving in, what do I mean by this? Well you've probably already done it, most likely during your first coop or any executive position. Going through university, I learned that I probably won't have everything planned out when I start it, and it's extremely relevant as I'm writing this article while barely starting the actual layout of all the articles on the paper. Does it give me anxiety? Yes. Am I worried I'll mess up a paper issue or won't get it out on time? Yes. But can I do it? Yes. And I think we all sort of learn that through our toughest experiences, that we'll always make it out fine. And sometimes we chase that. I've had multiple EngSoc directorships and an executive role on the Nanotechnology Engineering Students' Society that I wasn't fully able to obtain the information until I had been almost a month in. Same with both of my coop experiences. Being able to do something is one thing, but actually following through with it is another. Validate yourself with some good pro-

jects/abilities and show yourself what you're really capable of in order to build confidence for future endeavours. Dive into those experiences. I know even when I graduate and get a job somewhere, it will take some time for me to gain my bearings, but Waterloo's taught me that I can do it, and can do it well. That's why I'm applying to Apple for coop please hire me if you're reading this.

So far the job hasn't been hard as much as it has been work heavy. But once I get better at doing layout and stuff, I'll probably more comfortable in the position rather than coming here after every class day to work on something. Also this keyboard sucks but I've now been exposed to the life of dual monitors, and never want to return. I'm the type of person who keeps 40 tabs of Google Chrome open while working, and also leaves their laptop on overnight. I don't like opening things later, otherwise I would forget. So the dream is now to have a computer battlestation with three monitors and 32GB of RAM. Therefore I can browse Facebook at the highest quality. Just kidding, if I have that kind of setup I'm definitely ramping up Steam to the highest quality as well as streaming and recording games from my consoles. If any of you play Super Smash Bros. Melee hit me up, I have a Gamecube in my room and I'm really bad but down to play.

Alright so it's 3AM right as I'm typing this sentence, and that means it's just under an hour until Sehri/Suhoor. Woah what are these words' meanings? Well, let me go through the whole explanation of the month of Ramadan and the fasting procedure of Muslims. Ramadan is the ninth month in the Islamic calendar and the month where we observe fasting, one of the five pillars of Islam. The fasting period is between around 4AM and 9PM. It starts just at dawn and ends at sunset, and in between these hours we cannot eat or drink. Yes, not even water. The meal just before starting the fast is called Suhoor/Sehri, and the meal just after sunset is called Iftaar. All in all, my first Ramadan away from home hasn't been too bad. My parents were able to pack me some home cooked meals so I had some easy starts to the month of fasting, but I've been reliant on myself to cook. At least I'm not spending money during the day on lunch and coffee, which is great for my wallet, and I'm still getting better at cooking independently. I thought doing this production weekend and fasting at the same time would be rough, but my sleep schedule's a bit messed up on the weekends, as I now take a nap between 5-7PM ish for an hour and end up staying from 10-3AM to work on the paper, then wake up around 9-10AM to finish the layout, etc. It's unorthodox, but it works. Admittedly, I do miss the family vibe of Ramadan iftaars. We used to hand-make 400 samosas every Ramadan along with various other dishes, and eat them all together each night. Being in university, I generally only have one or two of these dishes, and eat alone. But as long as I have my mini samosas with me, I'm content.

Ramadan also precedes Eid-ul-Fitr, a holiday marking the end of Ramadan, which means eating is allowed in between the times mentioned before. This often means parties, food, and activities between families. Eid is

celebrated the day after Ramadan ends, but parties can still be planned for weekends following the date. During the past few Eids, my family has gone through multiple houses in a day just to visit, eat, and talk. We repeat that throughout the week and following weekends for various Eid parties, and then host our own at our house, marking off the Eid celebrations with a bang. Generally, this is the time I feel like I gain all the weight I lost during Ramadan, which is funny because losing weight in Ramadan is actually not as common as you might think. Although we fast for most of the day, the times that we can eat, people tend to binge on food that make them feel full, which can end up causing them to gain weight. The key is to eat moderately as well as healthily to make sure the next day's fast is easy. Drink lots of water, don't eat too much acidic and oily foods, and be sure to get some exercise too.

Part of me joining the Iron Warrior was to stay in touch with news, as I was not a news-heavy person entering university. Now I kind of am, and I guess I'm angrier at the world sometimes, but glad I'm not oblivious, or even worse, apathetic. Which is good since I need to produce this paper every two weeks. Another reason I joined was because I've always enjoyed etymology and vocabulary. I think this stems from my spelling bee ages as a child. When I was in third and fourth grade, I participated in a few spelling bees. I took first place in the Islamic school-wide spelling bee, and third in the Mississauga spelling bee. The one thing I remember clearly was the enjoyment of learning all the words and their etymologies, while simultaneously hating competing in the bees. The fact that I had to go up there and spell one word, then wait 30 minutes for my next word was straight up, well, boring. So I'm going to share a word every single issue in this editorial, which may or may not be related to what I'm talking about. This issue's word is from the May 18th Merriam Webster word of the day. Muliebrity (myoo-lee-EB-ruh-tee), which is defined as the quality of being a woman; femininity. It comes from the Latin muliebritās. I've never seen this word before, let alone in a sentence, but I've always found random synonyms like these to be interesting and always try to work them in my vocabulary. And thus I encourage you too. Obviously don't try to sound like some high-snob stereotypical rich boy, but I think knowing these definitions are interesting in the development of how we communicate with each other. And if not in your speaking, try incorporating it into your writing. My time here in the IW newspaper has led me to reading some of my old articles, and realize how little I've actually improved in terms of my vocabulary. Thus I started reading more books, and am slowly feeling myself getting better at wording my words. Side note: if you have book suggestions please find me on Facebook and suggest them to me. Talk to me about your favourite book and why I should read it. Preferably non-fiction, but I'm open minded to a conversation.

And thus concludes the first editorial, which is only 19 hours late from my own imposed deadline. Whatever, I'm the boss now and I do what I want, and I'm hungry.

THE IRON WARRIOR

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Send your submissions for the next issue to iwarrior@uwaterloo.ca.
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The Iron Warrior is a forum for thought-provoking and informative articles published by the Engineering Society. Views expressed in The Iron Warrior are those of the authors and do not necessarily reflect the opinions of the Engineering Society.

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

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

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Facebook Announces New Dating Service

Tech Giant Enters Yet Another Market



JUDY ZHONG
1B SYSTEMS DESIGN

Looking for new and fresh ways to seek out that special someone? Too lazy to switch 2 tabs over into Tinder or OkCupid? Facebook has heard your cries and at their annual developer conference, F8, introduced their new opt-in dating service...with privacy and safety as their top concern of course. The social networking magma has added an online matching feature as part of their fleet of services, such as the buy and sell marketplace, ownership of Instagram and the ability to search for jobs (move over WaterlooWorks, amirite?).

With the recent news in Facebook selling its client data to firms in the UK to meddle with the U.S. election coming up, we must start to ask the question: how much does Facebook really know about us? The answer? Pretty damn much. According to the New York Times, a new algorithm developed by the University of Cambridge and Stanford University is able to integrate your data based on the likes you gave on Facebook and establish links to certain personality traits better

than your friends or family ever could. It takes the data for 10 likes to beat a work colleague's knowledge of you, 70 likes to beat a roommate, 150 likes to beat a parent or a sibling, and 300 to beat a spouse. All this new tech arises with the spike in R&D for companies looking to get into a more AI-centric mindset and push the limits of data science. In fact, Facebook data scientists have already looked into the research using all of Facebook stats on its consumers and crunched the numbers to determine just how long relationships between Facebook users could last. If you're nothing like me and are a number fanatic or data science enthusiast, you can check out their charts and graphs post on the Facebook Data Science facebook page, in the blog titled Flings or Lifetimes? The Duration of Facebook Relationships.

However, that isn't to say the rise of this news should be regarded at all badly so let's hear some more information on how it will actually work. It is set to be the most accurate matching service out there, since Facebook contains more information about us than any other social network as of today. The dating service will act as an opt-in feature where you can create an online dating portfolio that will be hidden from your public profile, a.k.a none of your friends can see if you

have a profile and you can't see if they do. Sounds good so far.

What's more is Facebook has guaranteed there is no possibility for you to be matched with someone you are already friends with. It also won't show up in your News Feed and will ask only for your first name. Mark Zuckerberg himself has stated that this service is "for building real long-term relationships, not just hookups...". The algorithm used will be looking at common friends, events attended, and posts liked to match up you as

best as possible. In groups and events, you'll have the option to share your dating profile with others who have opted-in to do so as well. The announcement alone caused its hookup app competitor Tinder's parent company shares to drop about 17 percent.

However, that does not mean the end of Tinder as we know it. Studies have shown that the average online dater uses 2.4 dating sites or apps, so it doesn't look like they will be switching from ol' reliable anytime soon.



Josh Constine via TechCrunch

Dr. Hulls Wins Teaching Excellence Award

**WILL LOSIN &
DANIEL LAROCHE**
1T NANOTECHNOLOGY &
CHEMICAL '18

The Engineering Society would like to extend their congratulations to Dr. Hulls, who was selected by the Teaching Excellence Award Committee as this Winter term's recipient of the Engineering Society Teaching Excellence Award. This award recognizes an instructor (professor, lecturer, or laboratory instructor) for their contributions to ensuring the academic success of their

students. More specifically, the award recognizes an instructor who has employed non-conventional teaching techniques, allowed opportunities for experiential learning, and showed a commitment and dedication towards ensuring academic success for students. Congratulations on receiving the Teaching Excellence Award Dr. Hulls, and thank you for everything you've done to help ensure the academic success of your students!

Dr. Hulls, through her employment

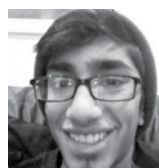
at the University of Waterloo, has received outstanding ratings on the term-based course critiques. She has been passionate about improving her teaching skills, and has demonstrated consistent improvements in her already excellent course critique scores. Dr. Hulls encourages active involvement in the class through student-run demonstrations and skits. For instance she once got a group of students to hold pieces of paper with blocks of code written on them to act out how looping works. She has gone above and beyond what other professors do, providing written notes and lecture recordings, both excellent resources for

students. Her lectures contain many practical examples, that clearly outline the problem and follow a logical process to solve them.

For students to continue to achieve success, Dr. Hulls encourages them to always be creative in every aspect of their lives, be it problem solving, how they present themselves, and in finding efficient solutions to problems. Through her application based teaching, with creative coding performances, she is obviously able to inspire many students. The Engineering Society thanks her for encouraging success and approachability within her classes.

Travelling Covies Across Canada!

Following Abdullah Barakat's Journey Cross Country



HASAN AHMED
EDITOR-IN-CHIEF

For those who don't know Abdullah Barakat, he was a 2018 graduate of the University of Waterloo from the Mechanical Engineering program. What you might also not know if you don't know him, is that he was a huge part of the Engineering Society. Not just ours, but many EngSocs across the country. Abdullah's natural ability to connect with people and authentic pleasantness left him liked by a lot of people, both pre-grad and post-grad. Since his graduation, Abdullah has been working on a cross-country journey to visit almost every engineering school in the country. He's even prepared patches to give out to those who help him on his trip!

Abdullah started in Ontario, with the University of Windsor, followed by Western University. From there, he came back to Waterloo and visited Conestoga College and the University of Guelph. Oh, did I mention this was all done in one day? He visited each school's logo, and filmed a video tapping his iron ring on

them. Friends from all over were also there, being good friends by letting him crash on their couch and also showing him around. Abdullah even managed to receive car honks of appreciation while he was walking through Guelph.

This continued past day one, where he visited McMaster, Ryerson, UofT, York, UOIT, Queens and Royal Military College before he left Ontario. Going east into Quebec, Abdullah stopped by École de Technologie Supérieure, McGill, Concordia, École Polytechnique de Montréal, and Université du Québec à Montréal, all of which are located in Montreal. Again, this was all in the span of 2 days!

I'm going to be a bit sleazy here and say if you want to know what he did, read his blogspot linked at the end of this article. I'll break my own clickbaiting rules if it's for a friend.

From Quebec, Abdullah travelled to New Brunswick, visiting UNB - Fredericton and Saint John, and also visited Université de Moncton, then travelled further into the Maritimes by reaching University of Prince Edward Island in PEI on May 7th. Nova Scotia was next on the list, where Abdullah stopped by Acadia, Dalhousie, St. Mary's, St. Francis Xavier, and

Cape Breton University all in the two-day span that he was there. From there, he finished his journey in the east by arriving at Memorial University of Newfoundland, where he spent three days doing so many things that he needed a rest day afterwards! Abdullah's energy always resulted in my own excitement, and reading that he needed rest was almost a shock to me. But it seemed necessary, as he had 3000 km to drive back to Ottawa on May 17th to visit Carleton and uOttawa.

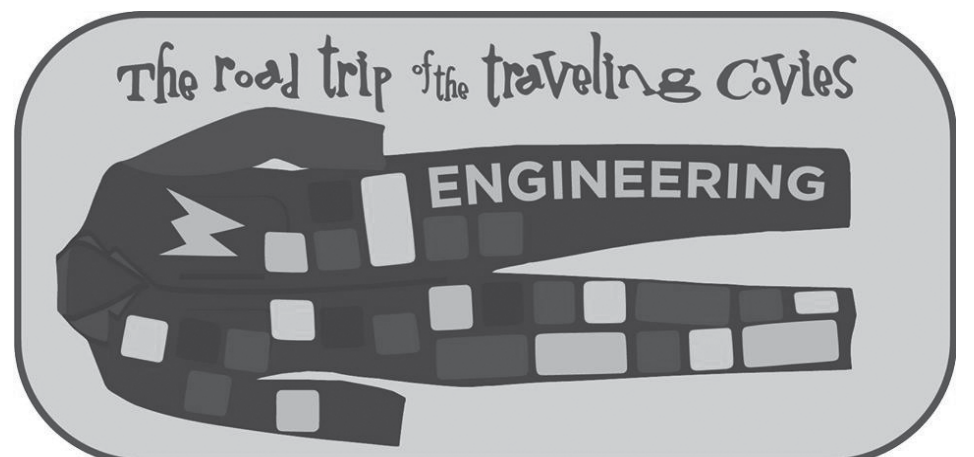
As of writing this article, this is where

he is, back in Ontario. From here, Abdullah will be travelling to the western coast of Canada to visit those universities, so be sure to follow the link I posted at the end of this article!

The full schedule can be found here bit.ly/TravelingCoviesSchedule.

Learning about the individual universities was actually very interesting for me personally, and you can also follow the rest of the blog here to get that information!

<http://travelingcovies.blogspot.ca>



via Abdullah Barakat

The covies patches Abdullah is handing out to those who help!

IGNITE the Mind: CUTC 2018



TIFFANY CHANG
3A CHEMICAL

The Canadian Undergraduate Technology Conference is a student-organized conference built on exposing undergraduate and high school students to the future of technology. Founded in 1999, it has touched over 4,000 students, impacting an entire generation of potential creators, designers, entrepreneurs, scientists, and changemakers.

This year's theme was Ignite and featured four themes that you have likely heard about in the news—augmented reality (AR) and virtual reality (VR), artificial intelligence (AI), blockchain and fintech, and design/user experience design (UX).

As one of UW's campus ambassadors, my pre-conference role revolved around

encouraging students to apply for one of 250 spots in this unique conference. During the day of the conference, in addition to bouncing between different tasks to ensure sessions ran smoothly, all campus ambassadors were fortunate enough to have been in sessions, listen to panels and keynotes, and attend the Tech Expo.

By now, you may be wondering why I decided to take on this role—especially as a chemical engineering student.

Personally, I don't like having labels assigned to me, or others having preconceived notions of what I know and what I don't know based on my program of study—I'm sure that you can also attest to some extent. You may be in first-year and looking for your second co-op; you probably wouldn't want an employer tossing your resume aside without even giving it a look before looking at a senior student's resume.

You may be like me—a non-computer/mechatronics/software engineering

student who simply loves technology and may even have experience working in the software industry.

I'll admit that first impressions are important and almost impossible to eliminate—it's in our nature to formulate them. However, they should be used as preliminary data about a person—not the conclusion about someone.

Another reason for my involvement was my interest in these topics, either out of curiosity—before attending, I've always wondered what some of these buzzwords, such as blockchain, really were—and my belief that they will impact and revolutionize the industries heavily related to my major of study.

If you wish to stretch your skillset in tech, do learn what appeals to you, and do not fall into the trap of learning what appears to be the most desirable tech skill. Tech is changing evolving every moment, so you will be running around like a headless chicken. Explore various areas and focus on a couple that

pique your interest the most. Always remember—quality over quantity.

In the process of working on emerging technologies, all of us must also keep in mind our responsibility in developing ethical technologies. They are extremely powerful tools, and without considering the consequences, who really knows what damage and its extent may be possible?

However, in the process of acquiring technical skills, neglecting other professional skills would be a mistake. The Royal Bank of Canada (RBC) released their Humans Wanted report in late March, and I strongly encourage you to give it a quick read. You would be surprised at their projected skills demand for all occupations on page 12.

If you love surrounding yourself with a passionate, motivated crowd, CUTC is the place for you to be—whether you attend the conference, join the organizing team, or promote the conference to fellow peers.

Engineering Exchange?? But I'm only in 1B!!

Why You Have to Start Thinking and Planning Now!

DR. RICHARD 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 80 top-tier universities in about 30 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.

“You could be among the 15% of your class who go on this once-in-a-lifetime experience...But you have to start planning early!”

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 “Waterloo Engineering International” group, which is for all outbound and inbound exchange students as well as all things international. It's moderated by Cindy Howe, the Administrative Coordinator of engineering exchanges as well as the EngSoc Exchange Directors.

By the way, Cindy's office is Carl Pollock

Hall, Room 3658 and she can be reached at eng.ug.exchange.askus@uwaterloo.ca. Be sure to arrange a meeting with her to chat about the exchange possibilities for you.

Don't let this 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 2020), your application must be submitted on Waterloo Passport by November 1, 2019:

<https://uwaterloo-horizons.simplicity.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 a recent exchanger, Brenda Zuccaro, had to say:

“The cultural experience alone has helped me grow so much as a person. Immersing myself in and adapting to a completely unfamiliar culture is such a valuable learning experience and it really

taught me a lot. Academically, I feel as if I came back from exchange a stronger student as I really meshed well with the style of teaching in the Netherlands. The professors were all very well educated and interesting to learn from, and it was interesting to see how engineers across the world are taught to approach certain problems. This experience has helped me professionally as I have made quite a few connections with professors at TU Delft, and I have learned so much about so many different European cultures that I more equipped to adapt to different people in the workplace.”

Brenda Zuccaro, NanoEngineering
Exchanged to TU Delft, Fall 2017

“Immersing myself in and adapting to a completely unfamiliar culture is such a valuable learning experience...”

And when asked what advice she would give to students contemplating an exchange:

“JUST DO IT!”



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The SFF Memorial Leadership Award Nominations

In recognition of the late Professors Saip Alpay and Wm. C. Nichol, and Sam Ceccerallo, Robert Elligsen, later former students of the Faculty of Engineering

The Leadership Award is granted to an intermediate-level undergraduate student in the Faculty of Engineering who has demonstrated outstanding contributions to the Faculty in the promotion of extra-curricular activities, including, but not limited to: Intramural Athletics, promotion of Engineering Society and Sandford Fleming Foundation events, competitions, etc., and for the support of associations, both on and off campus.

Nominations for the Memorial Leadership Award can originate from student groups, faculty members, or other individuals. A Letter of Nomination and Letters of Support from colleagues, faculty, and others familiar with the nominee's accomplishments are extremely important and form the major basis upon which the Executive Committee of the Sandford Fleming Foundation will form its decision. Nominations must be submitted to the Foundation by August 31, 2018 and/or before the last day of the student's 3A term.

The Memorial Leadership Award consists of a Certificate plus a citation, and an honorarium of \$1,000.

Nominations Must be Submitted to SFF Office Manager by August 31, 2018

**E2-3336, Extension 84008, sff@engmail.uwaterloo.ca
www.eng.uwaterloo.ca/~sff**

Debunking Feminism



SAMRIDHI SHARMA
3A CHEMICAL

DID SHE JUST SAY THE F-WORD?

Feminism is a valid conceptual belief, I say as I sip on a non-existent cup of tea, waiting for a response from the anti-feminist feminist who will try to convince me that feminism only exists when it is convenient for the person in picture. There have been instances when “feminism” seems to not do justice to the right party, but what people fail to realize is that injustice is the exact opposite of what feminism stands for.

Contrary to popular belief, a bunch of women did not attend a conference and decide that they wanted to exclude almost all women, every male and other sexes from the feminist movement.

The meaning of the term evolved over time until anti-feminists decided it wasn't a great movement and not in the direct interest of indirect benefactors (surprise!). This, accompanied by some manipulation, brainwashing and a lot of convincing, led to an “equalist” movement.

“Equalism,” theoretically is a great concept. Of course, women are equal to men; like 66 cents equal a dollar in salaries or 54 equals 946 as a female to male CEOs' ratio in Fortune Top 1000. Now if you are a person of the belief that women are equal to men and should be treated that way, I am all for it. I agree that taking advantage of your gender in a time where awareness about feminism is at an all time high is unfair to people who may feel excluded. But like all true feminists will say, feminism is all inclusive.

Remember the bunch of women who sat around the table and decided that feminism is for white women only? Remember when they laughed at the idea of men being raped? Remember when they created a cookie-cutter silhouette of the ideal woman? Remember how they never existed?

While we are on the subject, remember when women were catcalled in public? Or when people of colour were excluded from all representation? Or when most countries never had a leader of any gender apart from male? Or when women weren't allowed to vote or own a piece of land or get married without male consent?

Feminism may seem like a hard pill to swallow but the taste of your own medicine is often the most bitter. So here is an easy to follow list to find out what makes a feminist:

Believing people should be paid equally for the same jobs performed equally well

Thinking everyone deserves the opportunity to pursue a career

Knowing assault is wrong

Knowing that there are people of more than one gender in the world

Admitting that one gender is not superior to any other

If these bullet points do not apply to you, and you do not believe in the f-word, this column is not your cup of tea and we can part ways, hopefully peacefully. It is convenient to believe that feminism is a school of thought which favours a particular gender, or even a sub-part of a gender. However, if you possess some faith in humanity, a little courage, and the yearning for awareness, feminism can be a lifestyle that can be easily embraced to be an inclusive part of the community.

Waffle House Shooting: Four Killed, Two Injured



HIRA RAHMAN
2B NANOTECHNOLOGY

On Sunday April 22, yet another gun attack took place in the United States. This time it happened in Antioch, Tennessee. Twenty-nine-year-old Travis Jeffrey Reinking, a man with a history of erratic and delusional behaviour, wearing nothing but a green jacket, walked into the establishment at around 3:25 am and opened fire. Two people were severely injured, and four people were killed. The victims were identified as Taurean Sanderlin, 29, Joe Perez, 20, DeEbony Groves, 21, and Akilah DaSilva, 23. The havoc only ceased when a man named

James Shaw Jr., later named the “Waffle House Hero,” wrestled the rifle away from Reinking. Reinking was captured the next day, when police found him in a wooded area with a backpack containing a semiautomatic rifle and ammunition.

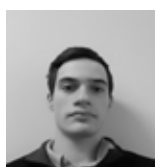
Every single victim in this incident was a person of colour. James Shaw is also a person of colour. The massacre brought in its aftermath a series of conversations about race, gun violence, and white privilege in contemporary society. Although the perpetrator was white, his lack of cooperation with the police has left the public unable to say definitively whether or not it was a hate crime/racially motivated, although many people suspect that it was. Perhaps one of the jarring events, or lack thereof, was the fact that President Trump remained

radio silent about the whole ordeal. Instead of expressing condolences or reaching out, we found him rambling on Twitter about his border wall plans.

More than anything, this story comes at a time when gun violence and legislation surrounding the second amendment is a heated topic of discussion. With the Parkland shooting and the various national walkouts, it's no wonder that people are exhausted with the current state of affairs. The biggest concern from this story in particular was how a man with previous criminal activity and who had his guns taken away twice was able to easily obtain one and commit such a heinous crime. It comes as no surprise that Tennessee has some of the most lenient gun laws in the country- where it is not even required

for one to register their firearms. It feels like every time there's a tragedy, the same conversations happen. Most people speak out for change, while the far right-winged people send out their prayers while still grasping tightly to their precious second amendment. News flash: that amendment was created at a time where semi-automatics, silencers, and weapons able to murder hundreds in mere seconds did not exist. It feels redundant to continue the conversation and never see actual change, but we can only hope that our neighbours south of the border buckle down and demand new legislation. It is time to get out of the NRA's pocket and seek justice. Nobody should have to risk their life to wrestle a firearm away from someone who shouldn't have one in the first place.

Ontario Provincial Election - A Quick Summary



AARON PROPP
2B COMPUTER

The provincial election is fast approaching. The Progressive Conservatives hold a commanding lead in the polls, being challenged by the NDP in the popular vote if not the seat count and the Liberals trailing behind. But this is politics and things can change on a dime, as evidenced by Patrick Brown's ouster as leader of the Progressive Conservatives. Let's take a look at the three main parties, their platforms and their leaders.

First up, the Progressive Conservatives. The party has yet to release a full-fledged platform. This late in the game, in most elections that would appear odd. With the incumbent leader having a 19 per cent approval rating, this is not most elections. Doug Ford, the PC Party leader, is not campaigning on a platform. He's looking to making this a referendum on the Liberal party's 15 years in power.

There are a few policies that have been put forward by the PC party. He seeks to eliminate the province's 6 billion dollar deficit by targeting unspecified inefficiencies. By cutting the corporate tax rate a percentage point down to 10.5%, the PCs hope to attract more businesses to Ontario. In terms of health care, Ford wants to put an end to “hallway medicine”, in other words overcrowding in hospitals but again is

light on the details. He also wants to expand the number of hospital beds by 15,000 in the next 5 years and double that amount in the next 10 years.

However, Ford as a leader is very reactionary and tends to make off the cuff remarks. For example, during his leadership campaign he mused the teenage girls under the age of 18 should require parental permission before getting an abortion for an unwanted pregnancy. Doug Ford is also against safe injection sites, being quoted as saying, “I ask anyone out there, if your son, daughter or loved one ever had an addiction, would you want them to go in a little area and do more drugs?” However, these sites help prevent transmission of disease by offering clean needles, in addition to the fact that they help people connect to addiction treatment programs.

The question to ask about the Progressive Conservative party is this: Is it Doug Ford's party or a party that happens to be led by Doug Ford?

Next, the Liberals. The party has essentially released a platform in the guise of the Ontario 2018 budget. With the Liberals being in power for 15 years, this is a change election. Kathleen Wynne, the leader of the Liberals, wants to portray the change as coming from within.

Kathleen Wynne has put many policies into place with the Ontario 2018 budget and a few will be examined here. For one, she has raised the minimum wage from \$11.25 an hour to \$15 an hour by New Year's January 2019. This will help

workers at the bottom of the wage ladder earn a fair living up to the standard of living in Ontario. Another policy they have put forward is extending OHIP+, the free pharmacare program, for residents under 25 to also include senior citizens. This can potentially have a nationwide impact to start pharmacare programs in other provinces or even a nationwide program. Medicare started off in Saskatchewan, perhaps its Ontario's turn to take the lead. Finally, the Liberals are proposing OSAP grants for lower income students. This will help the many future students who would otherwise struggle to pay off their student loans.

A government that has been in power for 15 years is sure to accumulate scandals regardless of the party. However the premier under which most of the scandals occurred resigned and thus it would be unfair to judge the government for that. However, the current iteration did have a scandal of its own. The Fair Hydro plan seeks to reduce the hydro rates by 25%. However, the way the went about this was to keep the added debt off the Ontario balance sheet with a scheme that can only be described as complicated. In doing so, the Ontario government is now saddled with an additional \$4 billion in unnecessary interest payments.

In a change election, can change truly come from within the Liberal party? In other words, why have they only “gotten religion” now?

Finally, the NDP. The party has released a platform. With the Liberals recent shift to the left, Andrea Horwath

and the NDP are left with little room to differentiate themselves.

The NDP says it will reduce hydro rates by 30%. It will do this by buying back the share of Hydro One that was sold off the private investors. It will also end time-of-use billing, instead preferring a flat billing structure. Another policy is to implement a pharmacare plan that will cover fewer drugs than the Liberals but will cover them for everybody. It will also cover dental care for workers, low-income children and retired seniors living without a pension. Finally on the education front, it will convert all student loans into grants and forgive any interest accrued on existing student loans.

The questions around the NDP isn't so much anything they are known for, it's that they are largely an unknown quantity. In a recent poll a small majority said they didn't know her at all or know her well. In that poll a fifth of Ontarians didn't even know her at all. Being in office for 9 years this isn't a good sign. She is however consistently rated the highest out of all the leader in terms of likeability.

The last time the NDP formed government in 1990, they weren't prepared to win or form government, with the leader at the time, Bob Rae, making plans to retire sometime in the next sitting legislature. Is the NDP prepared to govern Ontario this time around?

This is just a small sampling of the policies and decisions in play this election. Get informed, look into the policies that matter to you and vote.

Single-Use Plastics



GABRIELLE KLEMT
3A GEOLOGICAL

Although it's May and Earth month is in the dust behind us, I haven't been able to shake the persistent environmentalist on my shoulder (or perhaps it's my mother). I started following a National Geographic wildlife photographer last year who also contributes to the Instagram account "Sea Legacy". This NGO is dedicated to preserving healthy and abundant oceans, but I follow them because I love the pictures of polar bears and baby seals.

Then one day in December, I was lazily scrolling through my feed when I came across a picture of a teeny tiny seahorse holding onto a Q-Tip. You may have seen it yourself in passing; it was one of the poster pictures for this year's Wildlife Photographer of the Year exhibit plastered across Toronto. At first, I thought it was cute, and then I read the caption which was an explanation of their campaign against single use plastics entering our waterways. The more I looked at it and thought about it, the more I thought how ridiculous it was that such a photo had ever been taken; why should this seahorse ever come into contact with someone's ear-cleaner?

I talked to my mom about it over

Christmas break – a time notorious for unavoidable disposable plastics at every turn, and I said I thought it was so unfair, how could she continue buying Q-tips? Well apparently there are paper versions as well, which just brings up the question: if we have the alternatives, why aren't they mandatory?

I'm sure you've all heard about the recent push to ban all plastic straws after the UK became the first country to do so. In fact, Vancouver went a step further banning straws, Styrofoam cups, and take-out containers. It's easy to say that this is an unnecessary step – people can ask not to have a straw in their drink – if they remember that is. And I would know. Ever since reading the term "single use plastics" for the first time on Instagram, I have been very conscious of all the single use plastics in my own life, and still when I go out I slip up and forget to tell the waiter I don't need a straw.

I have become vigilant in other places, reusing Ziplocks until they get holes, replacing the need for tinfoil with a reusable version, taking food in washable snack bags. But am I making a difference, and does banning straws really do anything?

And what about my favourite sweet treat bubble tea which is always served in plastic containers? It's hard to make sacrifices if you don't see a point.

Because of course banning plastic straws is not the solution; it's step



SeaLegacy Collective via Justin Hofman

A seahorse wrapped around a q-tip off the Indonesian Coast

number one in a long process that in some ways goes "against progress". We invented plastic versions of EVERYTHING for a reason and that reason is convenience. People talk about taking a metal straw around with you now, but this is no new invention; people have been using metal and paper straws for over a hundred years, and archaeologists have even found straws in tombs dated over 3000 years old. We only started making them out of plastic to save the consumer time and money. As

for just about everything else that's made of plastic today, well it all started out made from something else for the most part, especially the single-use items.

Going back in time on purpose might sound dumb to people; but changing the products we use and demand is how change is made. It starts with straws today and then you move to paper Q-tips and tampons, and little change by little change, the world becomes a cleaner place. It's just a thought but I hope you consider it.

SLC-PAC Expansion Rescheduled

Now Projected for Spring 2019 Completion



SAMRIDHI SHARMA
3A CHEMICAL

A simple walk through the vicinity of the Student Life Centre is proof that construction is not even close to ending on the much awaited and potentially improved SLC-PAC buildings. While the construction was scheduled to end in Fall 2018, the rescheduled end-date has been pushed to late Spring 2019. However, a huge celebration has been promised in lieu of this delay.

A few factors that have known to affect the project include bad weather, soil conditions, unforeseen building conditions, variations in the scope of work and rescheduling to accommodate events according to the UWaterloo website. While

there has been visible progress in the project, the end just seems to far away and the shutting down of our favourite food places has not been helping.

Brubakers, Subway, Campus Bubble and Wasabi all remain closed throughout the term. The dining area has been boarded off and the Campus Bubble entrance also remains inaccessible. The entrance between Tim Hortons and International News seems to be the only usable one to get into SLC. A narrow pathway from the Great Hall to the staircase still allows the students to access the services housed in the basement of SLC. Albeit not recommended, feel free to go to bed without flossing because Campus Dentist is still open through the construction havoc! So is the Pharmacy, Media doc, Feds Bookstore, Turnkey Desk, Tim Hortons and International News.

Although not accessible through any

inside routes yet, The Bombshelter is still hosting all the usual term events such as Trivia, Bomber Wednesdays and others; drop in for a hearty Warrior breakfast or a nice dinner. The lack of food places has been accommodated by adding more food options available at International News. You may not be able to find the same variety as before, but you can surely find something to your liking if you look hard enough. If you must have a hot meal and nothing at SLC sounds appetizing, take advantage of the beautiful spring weather and walk on over to any other of the UW Foods locations or even the UW Plaza.

While SLC seems to be facing the brunt of all the construction, PAC remains open for all programming including the pool, Warrior Zones, squash courts, the gym, and (you guessed it!) final exams. The (joyous) cries of the

student body were reported to be heard in Kitchener as the news of such a unifying experience still being available to them travelled from one student ear to another.

To ease the transition process for students, a protective walkway has been put in place near MC. This is to prepare for the much-awaited link between MC and SLC that will finally make bubble tea on campus more accessible on cold winter days.

Since SLC-PAC expansion is still a while away and more of SLC still seems closed than is open, keep in mind the traveling time when scrounging for food at SLC. Account for a couple extra minutes before making coffee runs to SLC and don't lose hope. Remember, the cozy and familiar environment of PAC will still be there to comfort you, come exam time.

Southwest Airline Engine Failure

One Dead, Seven Injured



SAMRIDHI SHARMA
3A CHEMICAL

On Tuesday, April 17th, 2018 as Southwest Flight 1380 embarked on its usual route from LaGuardia Airport in New York to Dallas Love Field carrying 144 passengers, little was it known that the flight would turn out to be anything but ordinary. 20 minutes into the flight, at an altitude of about 32,500 feet a passenger was reported to have heard an engine exploding followed by a shard of the engine hitting a window of the Boeing 737 plane. The plane had just been inspected on Sunday.

Amidst loud sirens and dropping oxy-

gen masks, a few passengers displayed heroic acts by going to the rescue of the one passenger, Jennifer Riordan, who had been sucked out of the broken plane window. A nurse, a fellow passenger performed CPR on the injured woman as the plane rushed to make an emergency landing in Philadelphia. Unfortunately, Riordan did not survive the trauma and seven others were injured due to the engine fragment hitting the fuselage.

Several passengers were reported to have rushed to buy in flight internet to reach their loved ones for a final word. People recorded their horrific experience to document the mayhem around. As the airplane prepared to land, "Brace for Landing!" announcements filled the cabin and passengers

applauded, hugged and cherished the relief of having safely made it to the ground.

The plane was flown by Capt. Tammy Jo Shultz, a retired Navy veteran (Lieutenant Commander rank) and commercial airline captain. She was one of the first few female fighter pilots around 30 years ago. She has been lauded for keeping calm through the crisis and landing the aircraft smoothly despite the engine failure. The pilot radioed the status of the emergency to ground control at Philadelphia International Airport as the passengers connected to their loved ones.

Upon initial investigation of the airplane, one of the 24 fan blades of the engine was found missing. Full investigation will take anywhere from 12

to 15 months to complete. The engine cowling (which is the covering of an engine) was found about 70 miles away from the place of landing. Usually, if the engine fails, it is designed to stay within the cowling. In this case, however, the engine blade seemed to have pierced through the cowling characterizing this engine failure as uncontained.

This case bears great resemblance to a previous engine failure on a Southwest Airlines flight in August 2016. Fortunately, no one was injured on that flight and the airplane was able to land safely. However, both flights faced an uncontained engine failure in the left wing and both engines were CFM56 turbofans which failed when one of the fan blades broke during the middle of the flight.

Prof. Personalities - Derek Wright



How long have you been teaching at Waterloo?

I taught sessionals in 2010, 2011 and 2014. Then I started here full-time in April 2015.

What courses do you teach?

Lately I've been teaching the circuits courses ECE 242, ECE 445 and BME 294. Those are kind of the big courses that I teach. But I also teach these little nothing courses: ECE 200B, ECE 300A and ECE 300B. They're pass-fail and nobody quite knows what their purpose is. There's a historical purpose but that's long gone. So, that was actually nice for me, because it was a test-bed for new ideas. It has been unbelievably helpful. I effectively made it optional for students. Students that are interested in whatever it is that I'm currently testing, can opt-in and help out.

Favourite course to teach?

I really like ECE 242 because I remember it being really confusing and complicated when I was an undergrad many years ago. And that's the biggest joy for me as a teacher is to give students a synthesized version of the knowledge. At least as synthesized through my head. Maybe that's not appropriate for everybody. But I certainly feel it's an opportunity for me to help students avoid the mental and tactical pitfalls. For example, a topic that may have been introduced to me with the professor walking up drawing a circuit and writing equations, I start with what's the big picture. Why are we doing this? What's the ultimate goal? How are we going to use this in the future? Is this useful for you and try to put it in context.

How'd you end up as a professor?

Just to be clear, I'm a graduate attributes lecturer. If I have to sign a legal document that's what I would put. But students call me professor and I still answer. I would describe my journey to becoming a faculty member as circuitous and twisted. In undergrad, I ended up sticking around for a master's with professor Sachdev, who's incredible, the former chair of the ECE department, because I really, really liked the topic. At the time there was no dedication to industry, I just had that feeling that I wasn't quite done, I knew I'm not super motivated by money, so I wasn't itching too bad to get into industry. And it was a fantastic decision. It was a really wonderful experience.

I thought at that point, I had enough school, seven years of school back-to-back. I went out into industry and within about a year, I realized I'm still not done yet. I really, really feel passionate about learning. I don't want to say it's a problem because it's turned out to be a great benefit. I'm interested in just about everything. There are very few topics where I say that's boring and I don't want to learn about it. And so that in and of itself kind of motivated me to go back to academia, where I have the latitude to learn what I want to learn. Then I went and did a PhD in joint biomedical and electrical engineering at U of T and I focused on medical imaging, because it was nice bridge, between what I knew and the biomedical world. I did have a feeling that I wanted to help people. I went back, did that for 4 years.

That's when things changed. I had a postdoc lined up at a company in town, called MapleSoft, who makes the Maple software and they make a tool called MapleSim. MapleSim is a modelling and simulation tool, so you could do circuits, but you could also do

a vehicle for example and you could model the interfaces between them. And a big part of my PhD was modelling physics. I went intending to do that postdoc and I did the postdoc, but very quickly within 6 months I was in sales because I really enjoyed being in front of customers. They really saw a benefit in putting me in front of customers and I think they wanted to round me out to see how far I would go on the business side. And that kind of started a 6 year journey. I did a year and a half in sales, a year and a half as their product director of MapleSim. That again was another eye opener, that the engineering analytical mindset is applicable across the board and this why you see so many engineers that become doctors and lawyers.

I left MapleSoft at the time because I kind of made a decision, actually with the advice of some of my mentors industry and academia, that my key differentiator, was my well roundedness, not my dedication to a particular topic. I really like learning, I love learning and I'm well rounded. They said that's a really good fit for an executive at a tech company. That's the kind of MO, that's the profile of somebody who does that. And I thought you know what, that's something I can embrace and feel good about. I didn't want to walk away from tech, because I just spent all that time doing it and I was able to teach sessionals on the side, so that part of my brain was still active. I was working with PhD level engineers on a day-to-day basis. It's not like I was want for technical content.

I moved over to BlackBerry and did 3 years of business development on their partnerships team. So that was interesting because the scale of what I was doing was times 100. I went from ten thousand dollar deals to million dollar deals. It really just again showed me again the engineering analytical mindset is applicable on many, many different scales. I was hedging my bets at the time, things were downsizing for blackberry. I really enjoyed teaching sessionals and a position came up. I didn't realize it was a faculty position when I applied. But once I realized it was a faculty position I thought wow this is actually quite an opportunity. I really went hard for it and got it and its been fantastic and I love coming into work everyday.

Favourite part of being a professor?

I think it comes down to the experience for the individual. The idea that I'm slightly older, I've had more time to digest the material and I'm generally well-spoken. I feel like I have all the ingredients at my disposal to facilitate student's learning to make it easier for them to learn. To try to lower the barrier for some of the more complicated topics. Frequently they aren't nearly as complicated as they seem at first. The underlying concepts are really straightforward. There's only a handful of concepts that show up over and over and over again, just in many, many different forms. So that's what really motivates me. I love standing in front of a group of students and trying my best. It's never like I want to kick back and have the glory of standing and look I'm a faculty member, it has nothing to do with that. It has to do with forming the relationships with the students, helping them to succeed and watching them succeed. When you're in industry working on a product, you try to move that product along and watch it grow. There's all these crops growing and I get to help them all grow and I'm not working on one particular plant. I'm helping thousands of humans, that are going to become engineers to succeed in life and that is a really different scale of opportunity for me and I love it.

Hardest part?

At a curriculum level there's changes my colleagues and I want to make. We feel that

it's the right thing to do, but the time scale is so much different than at a company. At a company you get buy-in that something needs to change and you go and change it. Even if you're supposedly locked in, you go talk to people, come to an agreement and you change it. Here, if I want to change something and we all agree that we're going to change it in fourth year, it will be five years before that change occurs in reality. And that was very hard and frustrating for me to adapt to. I'd say it took me a good year or two to really just let that be OK.

Teaching philosophy?

Here's the condensed version of my experience with undergrad and then what happened afterward. You learn 50,000 different concepts in undergrad, that seem like little islands of knowledge. In fact, I would say each course feels like a little island of knowledge with other islands in them. And for me it was about 5 years after undergrad that I really had the feeling that it started to gel into a coherent picture. All these little islands you start to realize are just facets of the same thing. That's one of the joys for me as a teacher. to show students yes let's say you're learning for example analog control systems. Well why as a computer engineer would you possibly care about analog control systems. I can actually give a coherent answer to that, because I've seen it, I've had an opportunity to let it sink in and to see it in context across many different industries and in academia. It's very satisfying for me to pass that on.

If you weren't a professor what would you be doing?

I really enjoy product management and product strategy. So not product management in the stomping out bugs sense, but really what problem are we solving, what market segments do we play in. The more abstracted I got in that role, looking at the bigger and bigger and bigger picture, the more I liked it. So really corporate strategy, product strategy and I enjoy kind of a specific version of that was partnership strategy as well. On the strategic side I really enjoyed it and it was rare because it takes awhile but you develop this fantastic strategy, you execute this strategy and to watch it succeed there's no better feeling.

Now I get to do that here. I get to do strategy for ECE, I get to do strategy at the faculty of engineering level. And it's very satisfying it just takes a lot longer to see it come to fruition. Sometimes it doesn't. Like

we started an initiative called ECE design days. It's iterative, we're working on it. We've started to see some little successes here and there. And it's thrilling to watch strategy come to life.

Interviews are around the corner. Any tips for engineering students?

As somebody's who's hired many co-ops before and has been a co-op, and has been a full time employee and has hired full time employees, enthusiasm and passion for the topic, immediately brings you to the front of the line. I think students often panic about their marks and that may be a vetting tool for some of the bigger companies, but in general you don't look at the marks. There's too many applicants to go through and look at all the marks and I don't think that many people think that marks are a good indicator of job success, to a certain degree.

If on your resume you can show that you're passionate about the topic and the company and the industry, that will get it noticed. You put that right up front. If in the interview, you know something about the industry, you know something about the company, you know something about the problems that they're trying to solve, their customers, that will immediately bring you to the front of the line. You can't fake that. You need to be a passionate person and passionate about engineering. I think most people are, but because of what we do here they're really hung up on the marks and the technical details. You should have a strong technical foundation. I would take somebody technically weaker, but more passionate, over somebody technically stronger who I think is just there because they want a job.

3 tips for undergrad?

1. At the beginning of term, schedule everything. If you know from the course syllabus that you have ten assignments due, you schedule the time to do it and then you need the discipline to do what your calendar tells you. It sounds great when I say it. I certainly didn't do that in undergrad. But that's how I operate right now. I put stuff in my calendar. I color code it based on what it is, what topic it is and I just do it. I try really hard not to cancel meetings. I try really hard not to make excuses and I just do it. In the long run it will lower your stress, because you'll hit the weekend, even if you still have a lot of stuff to do. You'll know that you're on target.

Continued on page 11



University of Waterloo

Star Wars Episode MMXVIII: Return To Campus



KATIE ARNOLD
PRESIDENT

Welcome back to another wonderful Spring term on the University of Waterloo campus! Everything is going just as it should; students dodge geese and goslings on their way to classes, some buildings are frozen with A/C and others sweltering, and of course, work term reports have all been submitted (one would hope).

I am absolutely delighted to be back on term with my wonderful team! Ashley, our amazing VP Student Life, is absolutely rocking it with a well maintained

calendar and some fantastic events coming! Liam's budget is fabulous, but admittedly, not as fabulous as his suit. Grant is communicating effectively, (and also pulled off a fantastic Canadian civil engineering competition earlier this month), while also working way too hard.

Ben already dove straight in on his objectives for this term, and while he always has time to scold me for my caffeine intake, continues to be one of the best advocates for students on many committees and panels across campus. Michael, of course, lingers in the shadows, haunting our days.

There are several things that have already taken off this term. In response to overwhelming opinion that the feedback

system employed for engineering society executive needed a remodel, I have developed a new plan that will be trialled throughout this term. With our newly elected Chief Feedback Officer, Julia Rienstien, I hope to overhaul the system and make something that delivers good, constructive feedback and development to our executive team.

I'm excited to work with my team on a couple different initiatives throughout this term. With Liam, I am working on developing a mutually beneficial relationship with the SSDC and Ideas Clinic for RidgidWare, as it moves from its humble origins in the CPH Foyer to the new store site in the E7 atrium. With Ben, I am working on creating Mental Health Focus Group with the purpose

of looking at the Engineering Society's actions and initiatives regarding mental health on campus.

Finally, I am to have developed an affiliate structure for the UWaterloo EngiQueers, with the ending goal to allow them to operate autonomously with financial support from Engineering Society. I just really love policy.

I am thrilled by the opportunities given to me this term to make an impact on Waterloo Engineering. I am honoured by the team of amazing exec and officers who I get to work with everyday, and I'm delighted to be here as your President.

If you have any questions, comments or concerns, please do not hesitate to reach out to me at president.b@engsoc.uwaterloo.ca.

Gearing Up for the Spring 2018 Job Search & Orientation Week Commentary



BENJAMIN BEELEN
VP ACADEMIC

Welcome to the spring term! I'm super excited to start this on-term executive term with all of you and I can't wait to see what we can accomplish. I've been getting a good list of guest speakers to come into our council and live up to the promise I made during my campaign that I wanted to increase the amount of communication between EngSoc and CECA, as well as faculty as a whole. CECA, and the SSO office have both been invited, keep an eye out in council Engenda's for more info!

These past few weeks saw some very successful mental health events such as paint night as well as some awesome student services events. The professional photo-shoot had an awesome attendance and I'm sure the LinkedIn profiles

are already looking better. We also saw Resume Critiques on May 15th and 17th, massive thank you to all the volunteers that made that possible. Resume Critiques is one of EngSoc's strongest services as many other resume critiquing services can't ensure that someone in your field is critiquing your resume.

If you missed Resume Critiques, do not worry! This term, one of my objectives is to ensure the Resume Rescue is running full strength all term. If you haven't heard of this service, it will get your resume critiqued by a program or job specific upper year to critique, just not in person. Email your resume to resumerescue@engsoc.uwaterloo.ca and your critiqued resume will be sent back to you! Having said that, UPPER YEARS; if you're interested in critiquing resumes on your own time, sign up to be a resume rescuer!

Now that the fun stuff is out of the way, let's talk about Orientation Week. You may have heard about the SSO office's

student interception surveys as well as the consultations of various groups on campus regarding the "Fall Reading Break". So that you, the engineering student community, understand my thoughts of Orientation Week I will make myself very clear.

Orientation Week should not be touched, except to be made longer.

In the effort to promote mental health on campus, the University has seemed to lose sight of the value of Orientation Week and its effect on mental health. When I came to Waterloo, I knew no one. Not a single person in my program, residence, or colour group. The first friends I made were from Orientation Week, and I am not alone in this.

From the attitude that we are seeing from the SSO office surveys, it appears that there is no consideration of restoring Orientation Week to 5 days and this is unacceptable. The trial was suppose to find if the reading break would positively affect students, and based on a study

done of first year mechatronic students from the First Year Office, it is actually having a negative effect on midterm and final course grades. Furthermore, a study done by the University of Windsor found that students were stressed before, during and after the break, yet still spent more time recreating instead of catching up.

Whether our University like it or not, the writing is on the wall. The fall reading break does not inherently promote mental health on campus. Removing days from Orientation Week, which hundreds of students each year devote their time and love to, for a reading break that isn't proven to work is ignoring the spirit of the referendum that we originally passed.

We as the student body have to demand more. Until we see a conclusive report or study stating that students are positively affected by the fall reading break, we cannot accept the negative the consequences that it brings to Orientation Week.

Three days is just a trial.

Upcoming Events Calendar

Wednesday May 23	Thursday May 24	Friday May 25	Saturday May 26	Sunday May 27	Monday May 28	Tuesday May 29	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca/event-calendar/
WiE: Interview Skills 5:30 - 7:30 PM RCH 306 Intro to AutoCAD Workshop 4:30 - 6:00 PM MML	Mindfulness 4:30 - 6:30 PM POETS Charity BBQ 11:30 AM - 1:30 PM CPH Courtyard	EngHack 6:00 PM - 12:00 PM RCH	EngHack 12:00AM - 8:00 PM RCH		EngiQueers 6 - 9 PM POETS	PEO Panel 6:00 - 8:00 PM RCH 302	
Wednesday May 30	Thursday May 31	Friday June 1	Saturday June 2	Sunday June 3	Monday June 4	Tuesday June 5	
WiE Wednesday 5:30 AM - 7:30 PM Council Meeting #2 5:30 - 7:30 PM RCH 302 Coffe House 8:00 - 11:00 PM POETS	DIY Neon Signs 6:00 PM - 8:00 PM POETS	Skyzone Trip! 5:30 PM - 8:30 PM	D&D 2:00 - 6:00 PM POETS		EngiQueers 6 - 9 PM POETS	Board Games 5:00 - 7:00 PM POETS	

How Ten Letters Have Changed Nothing

What's in a Name REMIX!



Hiya everybody. I'm Liam your new and non-Operated VP Finance. The ten letter difference has changed so much. The portfolio has changed drastically. This new title shows how VP Finance is focused solely on the money.

To horribly misquote Jessie J "It's all about the money".

As VP Finance I definitely do not work with Ridgidware or Novelties. I also do not suggest checking those out for all of your electronic and swag needs. I also definitely do not run POETS. [The VP Finance would like to apologize for the Projector issues.

We are working on it and trying to figure out the issue]. There is also no POETS coordinator and new couches

so, yeah it's a wild and crazy world here under the VP Finance title, no more archaic Operations. Since I am driven to do some mad money stuff up in this business, I will be focusing on getting the student deals back up to snuff. At this point I really hope you realize that I am writing the opposite of Katie's first VPOF article. Cause we both had the title change... get it... well fine, I thought it was funny. Really I'm just trying to hit this word count right now so I'll cut

to it then. The budget has been approved and there's a few things I still like to pump. Arts Directorship has some awesome stuff coming and it will be great so look at the Calendar to find out when you can make your own neon sign. Also Canada day is coming up so all volunteers should sign up. it's going to be a fun day and volunteering makes it even better. And I'm pretty sure that's word count.

See you all next time!

Conferences, Conferences, Conferences!

A Glimpse at Conferences - Past and Future



One of the best parts of being the Vice President Communications (in my opinion) is attending conferences to represent all of you, and this past term I got the chance to go to a few. Over the winter, the two conferences I attended

were the Canadian Federation of Engineering Students (CFES) Congress and the Engineering Student Societies Council of Ontario (ESSCO) First Year Integration Conference (FYIC). If you want to know more about what happened at either of these conferences, please feel free to reach out to me.

This term, I will be bringing a delegation of Waterloo Engineers to ESSCO's Annual General Meeting (AGM) at York University in June. AGM

is a conference focused on leadership development and the sharing of best practices and is an opportunity for the Vice President Externals (my position with a different name) from each school to convene and discuss the direction of ESSCO for the next year. We also elect the next group of ESSCO executive at AGM, so it is a busy weekend.

Conferences are a great way to develop your leadership skills and network with engineers from across the country. Make

sure that you look out for application forms to attend conferences on our Facebook page and on the weekly mailer.

If you have any questions, want to learn more or just want to have a chat, please feel free to find me in CPH 1327 on Wednesdays from 2:30pm-4:30pm or Fridays from 11:30am-12:30pm. Alternatively, send me an email at vpcomm.b@engsoc.uwaterloo.ca. Have a great term everybody and enjoy the sun!

Sun's Out, Fun's Out!

Goodbye Winter!



Hi, my name is Ashley Clark and I am your VP Student Life! I am responsible for planning social events, community outreach opportunities and general fun times

throughout the term.

We are a few weeks into the term and have started Spring 2018 strongly, with an amazing Star Wars themed Beginning of Term party, our first Blood Run for Canadian Blood Services and the completion of EngPlay auditions. Check out EngPlay in Hagey Hall on July 6 and 7, tickets will be on sale soon!

We have also continued some of our

much loved events in POETS from previous terms. EngQueers is happening every Monday from 6-9, and we have bi-weekly sessions of Board Games from 5-7 on Tuesdays and Mental Health events from 4:30-6:30 on Thursdays.

If you missed these events, don't worry! We have plenty more coming up in the next few weeks. Our first Coffee House is happening May 30 at 8pm in POETS!

Come join us to participate or cheer on your peers as we enjoy some musically talented individuals, and remember to sign-up on the event page if you would like to perform. We also have a DIY Neon Sign workshop happening May 31 from 6-8pm in POETS, for crafty folks who want to literally read their name in neon lights! Keep an eye out for some exciting news coming up about Engineering Day!



Teresa Han

The candidates in Fall 2017 taking their oath

Point Vs. Counterpoint

Is Universal Basic Income (UBI)

Good For Us?



POINT

TONY KAPPEN

IT ELECTRICAL AND COMPUTER

If you are like me, and happened to catch some clips of the most recent Google I/O conference floating around the internet, you may have at first been amazed by Google Duplex. This is Google's new assistant that can hold phone conversations with people with them not even having the slightest idea that they are talking to a machine. I was absolutely amazed when I first saw this (I mean, who wouldn't be). Yet soon a small sense of dread crept in. I began to think of just how smart our machines had gotten. They will soon be able to drive our cars and trucks for us and soon even talk to other people to book appointments for us. So, what happens to the human beings that used to do all that stuff. Where will they go? An Oxford University study estimates that A.I. will be in a position to replace as much as 47% of the jobs in the United States. 47%! Let that number sink in for just a bit, and consider that even at its worst, the great recession of 2008 only so an unemployment rate that inched up to 10%.

How do we solve this impending disaster? Is there any simple, effective solution that would just make this go away? Well there is, and its called the Universal Basic Income (UBI). The theory behind a UBI is to give everyone, regardless of income or employment status a salary. No strings attached. This is madness, you say? Well I am here to argue that not only is this something we must do in order to survive the future but is rather something we should do in order to thrive in it.

The world is changing rapidly and the government policies of the 50's and 60's that created the social net we all enjoy today just won't cut it anymore. As technology increasingly takes more and more well-paying yet low-skilled jobs, inequality is rising and with it, extreme financial poverty. A UBI will blunt the impact of this inequality on society. The technology that is allowing businesses to move forward with more efficient robots in place of human workers was built over generations, after years of collective effort and public money. Companies have every right to try and improve their business. I wouldn't want it any other way. But since they are doing this with technology that all our ancestors helped build with their effort and tax dollars, shouldn't the benefits of that technology now be more evenly distributed? With this moral justification of a UBI, we can now proceed to use it combat the extreme inequality that awaits us.

A Universal Basic Income is also far more efficient than the current welfare net at keeping people out of poverty. The best way it does this is by getting rid of the problem of the poverty trap. Suppose you are unemployed and thus have to take welfare checks. Yet if you find work that places your income just above the threshold needed to qualify for welfare you might still be living in poverty but will no longer the receive the assistance of welfare. In effect you're trapped. It's in these types of situations that a UBI really shines. With a UBI, the unemployed can confidently search for work, or take the time they need to go back to school if need it. This allows people to work in a way in which they are truly able to thrive not just work just to get by.

Since the year 2000, Gallup, the polling company has attempted to figure out what people really think of their work. What it

found was that staggering 87% of workers are, as Gallup puts it, "emotionally disconnected from their workplaces and less likely to be productive." In other words, a lot people really, really look forward to the weekend. Yet does it have to be this way? Shouldn't something we spend the entirety of our adult lives doing be something that more of us enjoy? It definitely should. Yet as long as people look for work for the sole purpose of paying the bills, this is what we'll end up with. It's a situation that is bad for employers and bad for employees. A universal basic income will provide people with the space to find employment that they will truly enjoy, even if it means spending a little extra time in school.

A universal basic income also makes the relationship between employer and employee a more equal one. It is true that we as a society have come a long way from the child labour days of the early 20th century, but still. Even with strong worker protection laws, employees are often faced with the situation of working in places they just aren't comfortable with, tolerating treatment they would rather do without. This situation will continue unless workers have a genuine say in where they choose to work. If someone is free to leave whenever he/she chooses without worrying about paying the bills you will have a situation where workers can truly stand up for and defend their rights.

The welfare net as we currently now it is really patch work of many smaller nets bound together. There's a whole bunch of programs giving specific amounts of money to parents with one child, with single parents, with grandparents and so on for every demographic slice you can imagine. If you don't realize what you are owed or forgot to file in the forms, well too bad for you. To back up this patch work of nets is a cacophony of federal, provincial and municipal departments, making sure money flows where its supposed it. A UBI removes this complexity. Instead of a patchwork, you have just one net. And instead of many tubes of money, you have just one. No applications required.

The pace of technology means the future is going to be a very different place than our present. A universal basic income is just the kind of solution we need to not only survive the challenges that will face us, but to thrive in them.

HASAN AHMED
EDITOR-IN-CHIEF

Universal Basic Income (UBI) is the idea that citizens around the country would get a standard income to help deal with poverty issues, afford basic necessities, and in general have more money to spend. However, this is the most general of definitions, and many nuances come with the potential establishment of UBI in society. Some factors that have led to this conversation include the advancement of artificial intelligence (AI) taking jobs, the extremely large income gap between the rich and the poor, and, mainly in America, the cost of healthcare. While tackling all these with UBI could provide benefits, there are still some issues to consider before implementing this, if at all, into society.

First off, it seems like a bandaid for capitalism to remain (disclaimer: I'm more of a socialist myself), it might require less work to make the money necessary to families to reach their basic necessities, but it doesn't actually change the structure of the economy as much as a change towards socialism would. Our company drives are still focused on profit and UBI won't change that.

One other concern I have with UBI is who would be in control of it. If we (I'm speaking in terms of workers, in general) were to have control of UBI, that would be great. But if the wealthy elite/bureaucrats have the control, then it's not something we can guarantee the best out of. They would have this ability to benefit from UBI while harming the lower class. For example, providing UBI may allow companies to stop support for some of their social services on the basis that employees could now afford them. This results in lower disposable income for the employees, while the companies don't have to pay those service fees. Although those employees may not be as poor as before, the result would still be a large gap between the rich and the poor. We saw something a little bit similar with the minimum wage increase; prices everywhere went up to compensate. Will these prices also rise with the introduction of UBI?

The lower class requires more stability



COUNTERPOINT

and infrastructure support. It's not about the money, it's having the ability to have little money and feel okay. We see this through our friends down south; how one car crash or one hospital bill can cause bankruptcy. Although we're luckier in Canada, we should make sure the additional taxes paid from UBI go towards things like more accessible healthcare, transportation, and other public services that can alleviate poverty, unemployment, and poor public sector infrastructure. Funneling the taxes back into public services also lets people ensure their money would be going in the right place, but this should be a certain result of the taxes before UBI would be introduced, thus, giving back to the people who paid the taxes.

Innovation will still occur. UBI won't stop us from working hard and making additional wages to afford products. Inflation is a thing, and our housing market is still super expensive. Some people still say to "bootstrap" your way out of being poor by just, "not being lazy," but it's a stupid analogy. The idea of all people being lazy is a basis of classism, and thinking you're successful solely due to hard work (all of us had some luck, and those who have it rough may have bad luck) is in itself a shaded view of reality. I'm pretty sure most of us have been paid salaries close to minimum wage, and we still do well on our coop jobs. The point I'm trying to make is that UBI won't change how we work. We're still going to favour the productivity over the wages we receive. We're always producing more than we're paid for nowadays.

I really want to help the poor, but we should hold UBI for now and focus on accessible healthcare, transportation, and other public services that can alleviate poverty and unemployment. With automation happening at an alarming rate, I do believe we will need to introduce UBI eventually, but we should fight for more economic power than more money. I suggest watching "Universal Basic Income: A Critique" by BadMouseProductions on YouTube. It highlights most of how I feel about UBI, and goes over some good arguments I had with a little more nuance.

Editor's Note:

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

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Prof. Personalities

Continued from page 7

2. There's this fantastic method and I say this having tried several methods. It is really easy. There's a one hour video on Lynda.com. You all have free access to Lynda.com as University of Waterloo students. It's called getting things done. It sounds silly to call a method getting things done but it's a five step method that works. What works for me is things often get to busy for me to do a method on a religious basis where I show up and the first thing I do is I execute this method. I can't do that. The nice thing is for me is you can walk away from it and come back a week later and pick up where you left off and it still helps you to keep everything organized. For me, what was intensely stressful in undergrad and today is when there's things on my mind that I know I have to do and I haven't captured that anywhere. I have OneNote on my phone and I do getting things done through OneNote and I immediately write it down. I'm always taking little voice notes and the amount

that it lowers my stress is unbelievable.

3. Try to shoot for deep learning. I know that's not possible in every course and I know you're busy and I know it's very, very difficult. But, if you can get to the core of why you are learning something, think hierarchically about what's the big picture, what are the systems that need to be solved in this context and what are the tools that I have available to do that, that kind of hierarchical learning will help you achieve deeper learning. The other thing that research shows achieves deep learning is to do distributed studying. Don't cram and again this is the pot calling the kettle black. I was an expert crammer, because as much as I wish our assessment methods were a little more modern, we still have these big finals and big midterms. And we are all expert crammers. You cram it in your head, you flush your brain toilet and away goes all the knowledge. Then next time you have to learn it again. If you do your homework on a regular basis, if you do your assignments on a regular basis that also counts

as studying and that's going to be more durable learning. If you want to look that up, that's called durable learning.

Favourite memory of undergrad?

It's probably the memories I don't quite remember that were the funnest. IRS (Iron Ring Society) was good. IRS was a lot of fun. June Lo, who used to run our CDTs (Computer Delivered Tests) and she put together a special CDT for us. All about undergrad. Had nothing to do with technology or anything. It's IRS so at the time we were all feeling good and it was just hilarious, it was amazing. It was in the WEEF lab. I came back fifteen years later and the WEEF lab still looked like it was 1982 so I really appreciate that. That was probably my top memory.

How many printed shirts do you own?

Here's a more meta answer to your question. As I got older and I think also because I'm a stereotypical man, I really don't like shopping for clothes. I like to look good, but I don't like shopping for

clothes. And Old Navy has made it unbelievably easy for me to say what's 50% off, yes I'll buy that and it fits. That's why I have so many printed shirts. Probably around like 15 or 20. Now that being said, half of my closet is unbelievably fancy. Because I used to be in business for 6 years. I have all these amazing dress shirts, these amazing suits and nowhere to wear them. If you want to invite me to a fancy outing, I'll be happy to show up looking great.

Anything else?

My only piece of advice that I frequently give students, because I was in that boat too, where you worry about all the decisions that you make, you have so many doors open in front of you, sometimes there's a particular door that you want to go through but it closes and you panic. Be a life low-pass filter. Trust that you're making good decisions. You're here, you don't get here by making bad decisions. Try not jump all over the place worrying about everything. Keep making good decisions, everything will fall into place.

Cambridge Analytica Shut Down

Follow Up From Winter Issue 5



THOMAS COJOCAR
1B MECHANICAL

Cambridge Analytica, the data firm accused of illegally harvesting the personal information of millions of Facebook users, is starting bankruptcy procedures. In a recent press release, the company announced that "Despite Cambridge Analytica's unwavering confidence that its employees have acted ethically and lawfully, ... the siege of media coverage has driven away virtually all of the Company's customers and suppliers. As a result, it has been determined that it is no longer viable to continue operating the business."

The company is accused of using illegally obtained data to sway the outcomes of the 2016 US presidential elec-

tion and the Brexit referendum. Earlier in the year, footage appeared showing Cambridge Analytica's CEO, Alexander Nix, describing the ways in which the company could swing elections. In the past, the firm has been involved in foreign election campaigns in Italy, Nigeria, and Kenya.

In March it was announced that CEO Alexander Nix was being suspended.

Christopher Wylie, the former Cambridge Analytica employee and whistleblower who initially shed light on the scandal, released a statement saying "Cambridge Analytica has been exposed as a company undermining democratic institutions around the world, ... There are still many unanswered questions, and we must be sure that its decision to close is not merely a rebranding exercise or a way to circumvent ongoing investigations."

As a result of the scandal, Facebook

has imposed new limits on the amount of data available to third-party developers. This will likely impact data collection companies negatively, as they rely on a stream of data to perform their functions.

Before the closure of Cambridge Analytica was announced, Facebook CEO Mark Zuckerberg was called to testify in front of the US Congress. He was expected to be questioned on the release of 87 million Facebook user's personal information. Lawmakers asked many pointed questions ranging in topic from data-collection to targeted advertising and privacy.

Depending on who you ask, Zuckerberg either came out on top or was brutally grilled during the testimony. Chris Messina, a former employee at Google and Uber, said "In some ways, it felt like I was rooting for our person from Silicon Valley, as controversial as he is." Others were not so impressed by the billion-

aire-entrepreneurs performance; Violet Blue, a columnist at Engadget wrote "Mr. Zuckerberg's 10 hours of dodging lawmakers' questions in the proverbial hot seat ... distracted [the] press from the truly freaky attempts at misdirection flowing from [Zuckerberg]."

One question on everyone's mind is 'Should the government be allowed to regulate Facebook?' Many argue that the company has become too large and powerful and that policymakers should step in to curb its control to prevent situations like this from reoccurring.

Some say that instead of fighting Facebook, we should leave things the way they are. Eventually, according to the theory, people will get bored of the social media site and leave. This is what happened to former internet giant MySpace which, at the height of its reign, was the most-visited social media site for three years in a row.

Senate Votes to Reverse FCC Order On Net Neutrality

There's a Second Hope



HASAN AHMED
EDITOR-IN-CHIEF

Back in December of 2017, it was widespread news when the Federal Communications Commission (FCC) approved in a 3-2 vote to repeal net neutrality. This caused online rage, Ajit Pai hatred, and general uncertainty to where this decision would take the United States of America as a society. People were making 1984 references left and right, due to the freedom that the Republican government could abuse this decision. However, it seems like some hope is still left. On May 16, 2018, the Senate voted 52-47 to disapprove the FCC's vote and thus have made the first step to restoring the net neutrality that we so deserve.

But again, nothing is certain. Net neutrality is still set to be repealed on June 11 2018. The Congressional Review Act was the reason the Senate was allowed to vote on this issue, which had its paperwork filed on May 9, 2018. So in just a week, we amalgamated hope of saving

the right to a free internet.

So what's next? Abusive misuse of these new rules is still likely to happen, but probably not that quickly and right away. It's not like Americans will open their internet browser to find they can only visit certain news sites. But the sheer fact that a reality like that is possible shows the necessity of this Senate vote to continue to the House. FCC Commissioner Jessica Rosenworcel puts it well: "The FCC is on the wrong side of history, the wrong side of the law, and the wrong side of the American people. It deserves to have its handiwork revisited, reexamined, and ultimately reversed. I raised my voice to fight for internet freedom. I'll keep raising a ruckus to support net neutrality and I hope others will too."

Now that Senate Joint Resolution 52 has allowed Congress to undo recently created rules by federal agencies, it will have to pass in the House and be signed by the president (who we trust dearly, right?) for the old rules to be restored (or automatically if the House votes a two-thirds majority).

At this point though, do we trust the United States House? Well, despite what

happens with the vote, midterm elections are coming up. Amidst gun law controversies, Syrian strikes, and this issue, all these questions can be asked towards each candidate, and can really sway the results of the midterm elections. Speaking purely from an anecdotal point of view, a lot of young people are getting

more interested in who has control of their lives. And I hope they show up this election. They were the ones calling Congress to try and prevent this repeal from happening in the first place.

So the only thing we can do as Canadians is have some faith in our friends down in the USA.



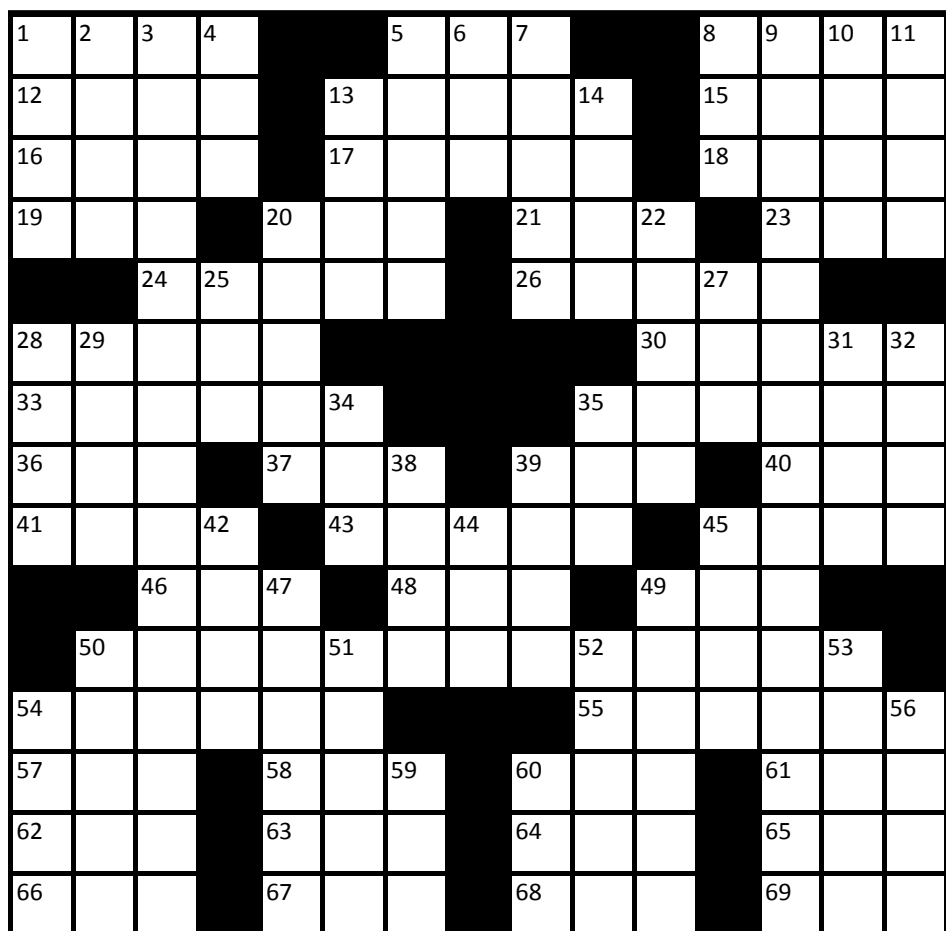
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Ajit Pai, Chairman of the FCC

The Iron Crossword

Higher Powers

CAMERON SOLTYS
MECHANICAL '18



ACROSS

- 1: COS, SIN, TAN
- 5: ___ Poovey, TV Character
- 8: Basic chemical unit
- 12: Prefix meaning "the same"
- 13: Where one goes to fight addiction
- 15: Emperor with an extravagant palace
- 16: Fan ___ Comic Convention
- 17: Often thrown to pigs
- 18: ___ column, least significant
- 19: Magic armband made by Thalmic Labs
- 20: Place of driver licenses and parking fines (abbr)
- 21: Princess ___, Avatar: The Last Airbender character
- 23: Small bed
- 24: Lift up
- 26: Bouncy dessert
- 28: Descendants of European and First Nation unions
- 30: An evil spirit that possesses people
- 33: Eastern Orthodox bishop

35: Character pursued by Demetrius in "A Midsummer Night's Dream"

- 36: Sn
- 37: Sea ___, core of Scientology
- 39: Gold, frankincense, and ___
- 40: Agricultural Land Reserve (abbr)
- 41: Electrifying rock band
- 43: Old books
- 45: Public radio station in New York City
- 46: Rating system used in chess
- 48: Water! Water! Water!
- 49: Accept On Deviation (abbr)
- 50: Band of "Birdplane"
- 54: Party-goer at Woodstock
- 55: Namesake of the group that distributes Bibles to hotels
- 57: ___ 9001, used in the auto industry
- 58: Don't get stuck in it!
- 60: Where you can get a Pokemon badge
- 61: National Library of Ireland (abbr)
- 62: Camera where the viewfinder and film use the same lens
- 63: Suffix meaning to make like some-

thing else

- 64: African Press Organization (abbr)
- 65: Welding that uses an inert tungsten rod (abbr)
- 66: ___ Offensive, Vietnam turning point
- 67: Faster than a hard drive (abbr)
- 68: A B-list CSE
- 69: Building containing the bookstore (abbr)

DOWN

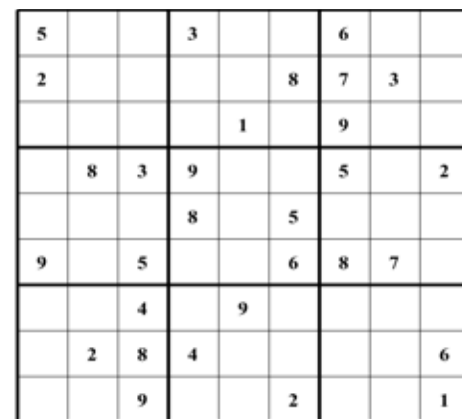
- 1: It's us or ___
- 2: Persian name meaning "Dawn"
- 3: Trade internationally (3 wd)
- 4: Slimy material
- 5: Pet ___
- 6: American Heart Association (abbr)
- 7: Slang for weed
- 8: Spanish for "year"
- 9: The big rules of the Bible (2 wd)
- 10: Three-layer cookie
- 11: Opposite of least
- 13: You get them when you rev your engine (informal)
- 14: Colour of the sky
- 20: Dance characterized by a spinning ball
- 22: Person valued for their wisdom
- 25: Nitrogen, mostly
- 27: Irish sea god
- 28: I'm so ___, even this acronym
- 29: Grand, immense
- 31: Slippery, especially liquid
- 32: Informant (informal)
- 34: Medical technique to help with menopause or transgender patients
- 35: ___ and hers
- 38: Sport played with dimpled ball
- 39: Cat noise
- 42: Trim, especially nails
- 44: Extinct New Zealand birds
- 45: Oak, Apple, or Balsa
- 47: Egyptian god of the underworld
- 49: Author of the "Foundation" series
- 50: Clean up in ___ 2
- 51: French for "eggs"
- 52: Ruled by pharaohs
- 53: Relating to wind power
- 54: Course code relating to past events
- 56: When the end is
- 59: Internet speak indicating a product will ship to you (abbr)
- 60: Used to fuel a car

Sudoku

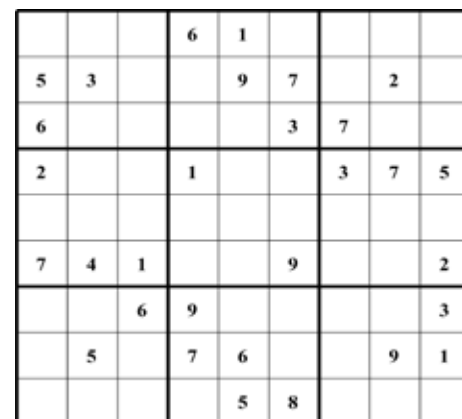
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HASAN AHMED
EDITOR-IN-CHIEF

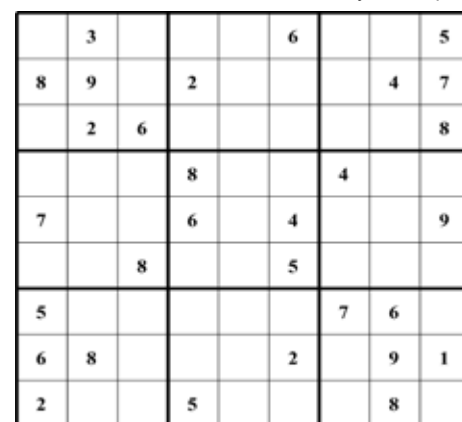
EZPZ



MED? MEH



Try this in pen



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

THE IRON INQUISITION
Samridhi Sharma - 3A Chemical

"If you were Prime Minister for a day, what law would you pass?"



"Bank holiday every month"
Ami Patel, 3A Chemical



"Free coffee before every class"
Rutuja Desai, 3A Chemical



"Easier exams for international students"
Akashdeep Singh, 3A Computer



"Make post-secondary education more affordable"
Mridu Walia, 2B Mechanical



"Make vacations mandatory at all workplaces"
Saatvik Walia, 3A Computer



"Pass petition for 3-day long weekends every week"
Farzeen Titina, 3A Computer