# **HRON WARRIOR**

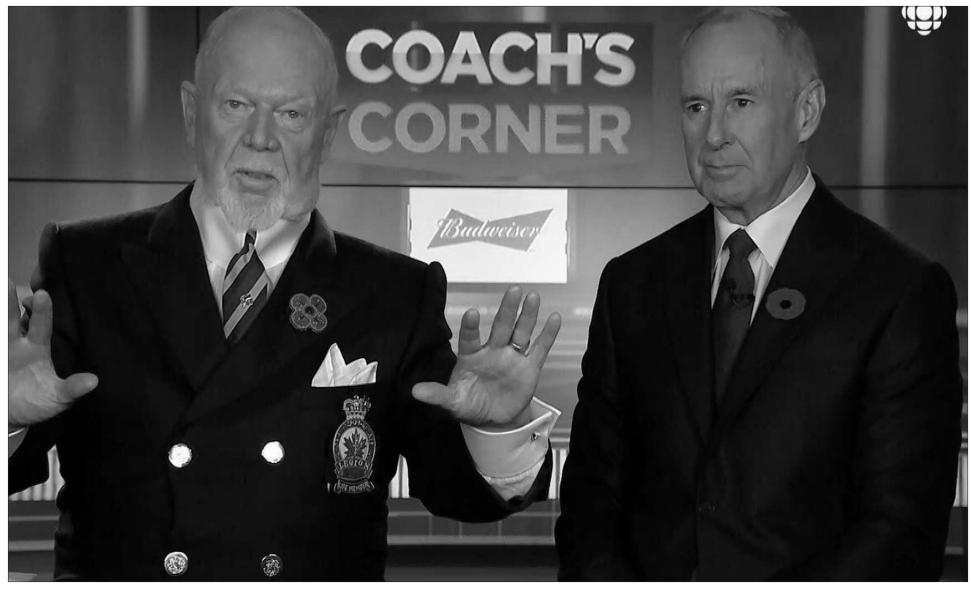
THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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### Remembrance Day, with a Cherry on Top

Don Cherry's comments on poppies



via SportsNet/CBC

Don Cherry (left) criticized visible minorities for not wearing poppies in his most recent and final Coach's Corner rant alongside co-host Ron McLean (right)



The opinion of a Canadian, poppywearing member of the visible minority.

#### news.

Prior to Coach's Corner, Cherry spent two decades as a defenseman in the AHL and various minor leagues before becoming an AHL coach in 1972 and NHL coach in 1974. He was awarded Coach of the Year twice in his nine-year coaching career before being picked up by CBC as a studio analyst, and there began nearly four decades of a colorful yet controversial broadcasting career. Leading up to Remembrance Day this year, Cherry singled out visible minorities in one of his Coach's Corner rants. "You people, you love our way of life, you love our milk and honey. At least you can pay a couple of bucks for a poppy or something like that," Cherry noted based on his observations in Toronto and Mississauga. "These guys paid for your way of life that you enjoy in Canada, these guys paid the biggest price." When interviewed the next day, Cherry insisted that "I did not say minorities, I did not say immigrants. If you watch Coach's Corner, I did not say that. I said 'everybody.' And I said, 'you people.'" He, however, did not once apologize for nor admit to the connotation of his "you people" reference, something I think most public figures today would be inclined to do in his position (I realize Donald Trump

is a glaring exception to this).

Cherry has always been unapologetic about his demeanour and controversial opinion, whether it is about hockey (2011) or climate change (2010, 2018), women (2013), indigenous people (2015), French-Canadians (1998, 2004), and now visible minorities. Why network stakeholders kept Cherry around for 37 years is incomprehensible to many, but the truth is that positive ratings rolled in after each heated episode because there are a whole lot of Canadians who think like him. As a female, visible minority who grew up in Montréal and who is conducting research amidst indigenous communities in the North, I unsurprisingly find Cherry and his views offensive, as do most of the people I surround myself with. However, the fact that Cherry has remained highly popular on national television is a sign that the desire for segregation in the country is not going away any time soon. That, I think, is the frightening reality we need to work towards changing, and this 85-year old man with a unique sense of fashion is only one small piece of the puzzle. On Remembrance Day, Sportsnet confirmed that Cherry has been fired. "Sports brings people together. It unites us, not divides us," said Bart Yabsley, Sportsnet President. I personally can locate

little evidence of Sportsnet caring about diversity prior to this incident and find the world of hockey in Canada to be relatively Caucasian-oriented (for example, commercials that air during hockey games mostly feature only Caucasians). Nonetheless, I will take comfort in knowing that we live in a country where there is generally low tolerance for xenophobia and enough voices against it that even media giants like Rogers (who owns Sportsnet) have to take action. With regard to the lack of poppies on the streets, it is easy for people like Don Cherry to blame immigrants and visible minorities despite a complete lack of data to support this causation. I know people of all races who buy poppies each year, and I know many who do not. I also know some who do wear poppies but could not tell you its significance nor identify the war that the Battle of Vimy Ridge was fought in. In fact, survey results from CTV, CBC, and Global News (for lack of better sources) in the past 3 years indicate that fewer and fewer people in general (and not just minorities) understand the meaning of Remembrance Day. With that, I have to question whether there is, in fact, a significant correlation between sporting a poppy and respect for-or even awareness of-our fallen soldiers.

I have been watching Don Cherry say what he wants for most of my life.

For those who are not familiar with this name: he is best known for co-hosting the five-minute commentary segment, Coach's Corner, that airs during the first intermission of Hockey Night in Canada. Toronto Sun (2014) calls it "one of the most-watched five-minutes in the country", and the Globe and Mail (2013) refers to Cherry as an "icon of Canadian TV hockey." Cherry and his co-host, Ron McLean, have been named by many sources as being among the most influential Canadians. In 2004, CBC ranked the flamboyant Cherry as the seventh-greatest Canadian of all time, ahead of Sir John A. Macdonald who was one of the Fathers of Confederation and first Prime Minister of Canada.

In 2016, Cherry and McLean were inducted into Canada's Walk of Fame.

The bottom line is that Don Cherry is or was—unavoidable for those who follow hockey, other sports, or even just the daily

### **Letter from the Editor** A farewell, BioTec, and my final piece of advice



KIRSTEN EHLERS 2A BIOMEDICAL

Alas, this is my final editorial and issue as editor. I will be sticking around with the Iron Warrior in smaller capacities for the duration of my undergrad but it has been a pleasure to be editor. Although, it's a lot of work and I definitely wasn't prepared. It's funny. This is probably the first issue that I actually feel that I know what I'm doing.

I look forward to doing more crosswords and writing more articles. I've missed doing the crossword. Although, I have to admit that they are way more fun to do when you don't know the answers. Out of curiosity, do you guys find The Iron Warrior crosswords harder or easier than MathNews? What about Imprint?

We've got a great issue. I finally convinced Ratan to cover the Office Ladies podcast. It's fairly new so he was reluctant. It's also great so I definitely recommend it for my The Office (US) fans. We've got code-themed horoscopes, tips about finals, and a train themed crossword. Also, it my favourite issue because it has THE TIN SOLDIER. I have been excited for this issue all term.

Also, if you guys haven't noticed, our website it a little broken right now. If anyone wants to revamp it for us and get a little web design experience in your portfolio, email ironwarrior@engsoc. uwaterloo.ca. It's a great side project if anyone is looking for one.

The last piece of newspaper information I have is Dear Darla. We're always looking for questions. They can be sent by an email anonymously to ironwarrior@engsoc. uwaterloo.ca. We have a new e-mail in case you haven't noticed (thanks Ellen).

So what do I have in store for you for my final editorial? As per usual, I have a disorganized stream of thoughts. This time it's all about getting yourself out there and diversifying yourself.

Firstly, go to conferences, events, and presentations. A clear example of this is BioTec. Classes don't give you everything. Conferences connect your education to your future. I always feel uber inspired when I go to conferences. Hackathons can be grouped in this category. You meet people from different schools. You put new experiences on your resume. It's a good time. I find that even with co-op, there is a huge gap between industry and classes, conferences are one way to bridge the gap and get ahead.

The 2019 BioTec Conference was

amazing event including Muiz for putting up with all my questions before hand.

Before, the events started, I had the chance to chitchat with some of my fellow delegates from a range of backgrounds. Since it was 9 am on a Saturday, I asked everyone: "why are you even here?".

The general consensus was that it exposed delgates to what the industry had to offer. BioTec gave insight into questions like: what can I do in biotechnology? What are people doing in biotechnology? What are my options? Malak from SYDE 1A told me that she wanted to "step outside her comfort zone and learn about biotechnology". I can think of no better way to expand your horizons than going to an event like this and immersing yourlsef in an environment of passionate individuals.

The conference opened up with a keynote speaker, Victor Hanson-Smith of Verge Genomics. He shared his experience with entrepreneurship and research in biotechnology. His work at Verge Genomics is cutting-edge and fascinating but it was his life advice that really struck me: "It's okay to take a breath and a step back to find something with a better impact for you and the world". He also mentioned that it's important to not rush into things just for a pay cheque. I feel like all of us, as we panic about getting employment and co-op jobs can appreciate and learn from this sentiment.

Then, there was the pitch competition. This was a new addition this year and probably my favourite part. I was absolutely mind blown by some of the FYDPs. The winner was KnowStroke, a biometric device for detecting heat stroke in construction workers. The strong prototype and the smart business plan of selling in an untapped market is what really pushed them to not only win first prize but people's choice as well. However, all the teams including Hi-p, AfterShock, Heart Again, IuvoDerm, and AIR did an excellent job. They all set high standards for what an FYDP should be.

The pitch competition was judged by investors including Ricky Mehra and Nikhil Thatte. I asked them why they would take the time out of their busy schedules to come judge (and give money to) a pitch competition at a university. They simply told me that innovation comes from academia (us undergrads too) and investors like to keep partnerships with universities. These partnerships can help entrepreneurs and investors even as alumni. As the work force is becoming more competitive, connectivity is more important now than ever.

After lunch, there was a research

to attend the Relay Medical workshop on the Cathedral model, a thinking strategy to consider future stages of a project for business. This is an extremely helpful strategy and I would recommend it to anyone wanting to take their side project or FYDP to the entrepreneurial level.

I attended the research breakout session with Dr. Ameri from Queen's University who spoke about the past, present, and future of wearable technologies. The fact that biosensing tattoos could be a thing is mind-boggling.

The day concluded with a clinical technology panel. I did notice that there was an emphasis on entrepreneurship. Entrepreneurship does seem to be very trendy these days on campus. There was so much wisdom oozing from the stage that I can only encapsulate a portion of it in this article. Basically, keep your teams small, design for the market, consider customers and investors who may not actually use your product, and most importantly design for an actual problem. I feel this last statement from my previous failures.

To best sum it up, three delegates, Tristan, Agosh, and Angad called the conference "informative, interesting, and inspiring".

I talked to Dean of Engineering, Pearl Sullivan about why students should go to conferences and she told me that "[the University of Waterloo] wants students to have exposure to companies and experts to show what the industry has to offer and classes don't offer that". Similarly, Dr. Maud Gorbet said that students need to "learn by choice".

Secondly, get involved in clubs. Design teams are amazing opportunities to get some technical skills and apply what you've learned. We did a spotlight on some teams last issue and the one before. Did I mention the best club of them all? Join The Iron Warrior. This summer we are in a serious deficit of writers so please join. It's fun, you can write a lot, a little, or just edit. Just show up to meetings on Tuesdays in DWE 1532. I promise that this is the last time I'll be plugging The Iron Warrior.

Finally, literally get out there. Like leave campus. Go uptown. Go to the mall. Go to the park (which has adorable alpacas by the way). This is less of an enhancing your education thing and more of an enhancing your mental health thing. There's nothing like a brisk walk to take your mind off your horrible calculus midterm.

So a final thank you to all the writers and editors at The Iron Warrior. All their names are listed on the side of this page. Thank you to Samridhi and Gabrielle, former EICs who stuck around to help me

#### **IRON WARRIOR**

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a congregation of young students and professionals all sharing the same passion: biotechnology. This was the third BioTec conference and my second BioTec that I attended. Firstly, I would like to thank the organizers for putting together this breakout session with some incredibly smart people and some workshops with equally smart people. I learned a lot and felt very inspired.

I unfortunately was unable to be in four places at once and only had the opportunity struggle through this, EngSoc for people so supportive and passionate about The Iron Warrior, and Akanksha for fixing WordPress every Sunday morning when I break it.

Bye everyone. Good luck on finals!

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### **So You Think You Can Dance? - YES** Waterloo Origins wins second in OUCH



FARZEEN TITINA 4T COMPUTER

The Ontario Universities Competition for Hip Hop, popularly known as OUCH is an initiative to bring together students from across the province and encourage them to showcase their talents on stage. Founded by UWaterloo Alumni, Raymond Mendoza, OUCH has been running annually for the last 16 years. This year, our very own UWaterloo Competitive Hip-Hop team, Origins, competed and bagged quite a few awards, namely, 2nd Place, Best Male Dancer, Best Improv, and Best Mix.

I had the opportunity to see them perform live and this team nailed it; from synchronization to energy, groove to expressions, choreography, formations and use of the stage, they left the audience wanting to watch them dance even more. And the judges had nothing but praises for the Origins. A total of 11 teams competed and they were followed by an improv battle between 1 dancer from each team. Tanjot Panesar represented the team and not only won the improv battle but also the Best Male Dancer award. Here's how Tanjot feels about winning these awards: "Humbling. I know of all the talent in the post-secondary scene. To be seen by judges that I look up to, and by peers and be selected for the award was nothing short of craziness. I will say though that I manifested it by putting in countless hours on improving my skills of projecting my dancing to the audience and understanding the roots of the music in the set in order to portray it through my facial and body language."

Tanjot Panesar (2B SYDE) and Hajung Yu (3A Sociology & Legal Studies) are

AKANKSHA JOSHI

2A BIOMEDICAL

If you've never played classic NES

(Nintendo Entertainment System) Tetris

before, you'll never know the true joy of

finally getting that long-awaited i-piece

to land yourself a Tetris after a drought

of nothing but s-pieces. For the Tetris

the co-directors of the group. Every term, they hold an audition for the team and an interview process to learn more about you as a dancer and what unique perspective you can bring to the group. They usually practice for 7 hours a week but also put in some extra effort to ensure they're perfect. Of course, school comes first and they decide when to prioritize dance and studies as a team.

When asked about their teaching style, Hajung said she follows the law of superposition, breaking her choreography into smaller parts, and bringing it all together at the end. This way, dancers are not overwhelmed by the amount of information thrown their way. Similarly, while cleaning a routine, she tends to pipeline information and package it in smaller chunks to help the process become more efficient. For her, it's about finding the right balance between overloading the mind of dancers and pushing them to their true potential. Tanjot, on the other hand, gives his students something to chew on or to sleep on when they go home. More than learning choreography, which is something that can be easily done over time, he focuses more on encouraging his dancers to observe and find different techniques behind the movement, whether it be textures, dynamics or swagger.

Origin's motto is to "Remember Your Roots". They chose this motto because sometimes dancers might lose sight of their passion and fall out, so it's important to remember where, how and why you started dancing. When practicing, they ensure that they're putting in as much into it as they can because one person's energy level travels to the other dancers. Keeping in mind this Zen effect during practice is extremely important for them. They are branching out and performing at a non-post secondary competition called Final Stretch this term. They also plan on competing at Academy and Prelude in Winter and in the future, internationally.

The team also won the Best Mix award. They chose a Kanye West theme based on his album "Life of Pablo". Tanjot says hitting the criteria for the judges, with some tolerance due to art being subjective, is the key. They chose songs from the album that would instill a roller coaster of fluctuating emotions, to keep everyone engaged. Hajung, Revati, and Tanjot experimented with distorted sounds, guitar, bass lines and 'beat kills' that would enhance the original tracks and compiled the track, allowing them to be more creative.

Being able to manage studies and competitive dancing is not an easy task and is quite commendable. Nina Yan (4B Biology) says that dance has impacted her in so many ways, both good and bad, serves as her creative outlet, taught her how to step up as a leader. The strong sense of community that dance builds has supported her throughout her undergrad experience. Though, the commitment required limited her free time to study and took a toll on her physical health as she had to undergo knee surgery. Overall, the good definitely outweighs the bad.

Origins feels grateful for the platforms that are provided in the scene for them as an emerging crew. Waterloo is home base, and always will be. The Waterloo dance community will always be the fuel to their distance. As part of the community myself, I feel it's a place that helps you relieve your stress, make new friends and form a family at university. It is a one-of-a-kind experience and it feels so wholesome. So if you love dancing, be a part of this culture.



**ORIGINS Dance Team** 

via Farzeen Titina



working for the Soviet Academy of Sciences in Moscow. The name "Tetris" came from the combination of the words 'tetromino' and 'tennis', which was Pajitnov's favorite sport. Specifically, the game consisted of organizing falling geometric pieces called tetrominoes onto a playing field with a length of 10 blocks. A tetromino is a geometric shape made up of four squares that are connected orthogonally. While a tetromino is falling, the player can move it laterally and rotate it until it touches the bottom of the field or another piece. As the game progresses, the pieces begin to fall faster, and at a certain point, you reach the "kill screen", which is a point at which it's almost impossible to control the pieces due to the speed at which they are falling. This usually occurs at level 29 in classic Tetris. That is, until the current world champion, teenage Tetris prodigy Joseph Saelee surpassed the supposed "kill screen" and reached level 33, which is honestly quite an achievement. If that isn't enough, he beat the 7-time world champion Jonas Neubauer (who had only been defeated once before that) when he was just 16! A lot of this has to do with his playing style, which is increasingly growing in popularity among players.

move a piece, which keeps moving in the specified direction with short delays between movements. Hyper tapping, on the other hand, allows for the faster movement of pieces by not relying on the DAS technique and the slow autorepeat rate. Hyper tappers achieve this by holding the controller differently and repeatedly pressing the keys at an extremely fast rate, sometimes as quick as more than 10-taps per second. This they can move their pieces over more quickly.

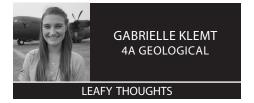
In the end, Tetris has become a worldwide phenomenon and has become a best-selling video game with 150 million copies sold since its first release in 1989 to the Gameboy console. Even with that, its rise in popularity doesn't seem to be slowing down, as more and more young people like Joseph Saelee are taking up the game and are making history. BOOM TETRIS FOR THE

players out there, you know exactly what I mean. If you've never played Tetris before, I would highly recommend it. Not only is it a very addictive game, but its simplicity is what makes it brilliant. Who knew that dropping pieces of various shapes on top of each other to make them fit perfectly could be so much fun? In fact, the game has become so popular, that the Portland Retro Gaming Expo holds an annual Classic Tetris World Championship (CTWC) every October. Players come from every corner of the world and compete to win the pride that comes with becoming a Tetris world champion. The CTWC aims to bring back a love of classic Tetris into the 21st century, and it attracts more and more players every year. Before we dive in, here's a little crash course on the history of the game:

Tetris was first designed and created in June of 1984 by Alexey Pajitnov, who at that time, was a software engineer When it comes to playing NES Tetris, players will adopt one of two styles of playing. Delayed Auto Shift (DAS), or hyper tapping. DAS players rely on pressing and holding down a key to means that players that hyper tap can history. B stack higher and take more risks since WORLD!



### I'm Dreaming of a Green Christmas Christmas Eco-tips



I'm Dreaming of a Green Christmas. No, I don't hate a snowy Christmas morning, I'm dreaming of a world where people are conscientious gift givers.

I've been in a bit of a dark mood recently, a touch of the old "Who gives a crap about any of this, the human race isn't even going to survive another 10,000 years!", perhaps it's fourth year blues and FYDP stress, but it could also be a little bit of planetary existential crisis. The rampedup discourse about the need for greater environmental action in the mainstream media, social media, and even on campus has brought me into a sense of despair over the fate of our species; why aren't we all trying harder to save ourselves? A fun discussion in one of my classes the other day about the effects of a large igneous province event (a fancy term for terrifying volcano of death and destruction which you wouldn't want to survive anyways because the world will be inhospitable for millennia afterwards) really brought home the point that humans definitely won't last forever. I listen to the Omnibus podcast which is based on the premise of creating an archive of humanity for whatever "Futurelings" come after us, but lately it seems just a little... too real. Is this how Greta Thunberg feels all the time?

That said, there's nothing like the holidays to bring back the sense of joy that is so lacking in the grey month of November. Unfortunately, once you start looking for it you begin seeing needless waste just about everywhere you look, and Christmas is, to take a line from my favourite Xmas song, "an appalling dump-heap, overflowing with the most disgraceful assortment of deplorable rubbish imaginable". What you absolutely cannot do is get caught up dwelling on these things, you just need to do what you can to be better and help those around you see the benefits of doing the same.

Now, gift-giving and receiving is one of the best parts of this holiday, and you better believe I'm not trying to stop you overspending on the people you love! I'm here to give you a few ideas about how to make your white Christmas a little bit greener, because that's all I can do, and it makes me feel like I'm accomplishing something.

1. Your wishlist.

We all know this is the most important part of the holidays and it's important to have one so that these precious once-ayear gifts are not wasted! When you're thinking about the things you want this year, be specific when asking for items and let people know you want the brand that is more ethically-sourced or ecofriendly, or even made in North America where less shipping is required. Try adding some things to your list that are sustainable or long-lasting products or ask for experiences!

2. Buying gifts for others

It's hard enough to tell what people want without worrying about the global impact your purchase is making so I'll make some easy suggestions. When choosing your gifts try to find ethicallysourced alternatives to the common soap, scents, or clothes option that is the easiest to choose. Maybe check out a farmer's market or local craft fair. It can also be nice to give more expensive eco-friendly products like beeswax wraps that people might not buy for themselves. Giving experiences like a lunch out at a nice restaurant or exercise classes or a day trip are "zero waste" options that can be more fun than an object they might not even want.

3. Gift Wrapping

Trying to avoid things which come in too much packaging aside, there are a lot of great alternatives to the typical gift wrap we all know and overuse. I'm talking newspaper, old maps, or magazines as wrapping paper, shredded documents as gift bag stuffing, and re-purposed cereal boxes to conceal the gift. Six-pack beer holders can be re-used to make a portable gift box for smaller presents... or just gift them some different beers! And just because we're trying to avoid waste doesn't mean we're avoiding decoration! Use strips of old t-shirts to make ribbons for the packages (these make great headbands for later!) or draw on a plain cardboard box to add some interest to a package without wrapping.

I hope some of these tips are useful. Wishing everyone a merry end of term and a happy exam season!



Consider the amount of waste from these...

via pxHere

### **Dear Darla Answers Your Burning Questions**

#### DARLA IRON WARRIOR, ADVICE EXPERT

#### Dear Darla,

I am an engineering student in my second year. As you may be aware, final exams are fast approaching and I haven't studied a lick so far. I was hoping you could give me some tips and tricks to ace the finals despite last-minute preparation. Thank you in advance.

Sincerely,	
Anxious Anna	

#### Good Day Anxious Anna,

I have read through your troubles and worries. Before I dive into the meat of

your question, I have an investment opportunity that may interest you. I have recently ventured into my own start-up. My company creates contact lenses with little wiper blades. I suggest you buy at least five pairs because you will need them to see the papers through your tears during exams.

Now, for the actual question, how DO you do well in your exams considering you haven't, in your own words, studied a lick so far? It's easy. The first thing you have to do is hit the books. I know, this sounds confusing, but not literally. Hit the books with your eyes; another great opportunity for using my wiper blade contacts, because you will want to cry as you read through the books – half in resentment of why you

didn't start studying earlier, the other half<br/>regretting why you even came to Waterloo<br/>for engineering.Definitely skip the produce and meat and<br/>breads. You don't want a food coma when<br/>you need to be studying. Buy sugar! Buy

The second thing you want to do is go to a poster sale, or the mall, or a marketplace on the InterWeb. Find a poster that says, "You can do this!" or something like that. Nothing gives me more motivation than looking at the same four words every day, telling me that I can achieve my dreams. In the event that you do not have the resources to purchase a poster, a simple A4 sized sheet with a black permanent marker will suffice. If you don't have paper, just go for it on the wall.

Finally, and this is the most important of it all, this is a great opportunity to go to a grocery store and stock up for the finals. Definitely skip the produce and meat and breads. You don't want a food coma when you need to be studying. Buy sugar! Buy all the candy in the world. It's called sugar high for a reason! You'll be so energetic you will end up studying for two finals simultaneously! Isn't that the dream?

Anywho, those are all my tips for you, kids. I hope you enjoyed it. Feel free to reach out to me at the newspaper's electronic mail if you have any questions for me. If you are interested in investing in my wiper blade contacts or have suggestions for names for my company, tell the newspaper about it. See you kids next term!

Love, Darla

## Home Sweet Home



GABRIELLE KLEMT 4A GEOLOGICAL

As a 4A student with an older sibling who has also finished a co-op degree I guess you could say when it comes to housing, I've pretty much seen it all. Over the last five years, I've lived in five different cities and one camp on the side of the highway, coming to a total of two university residences, six houses, one cabin, and one apartment. I know the do's and don'ts of renting and I am here to share my hard-earned wisdom with you.

Looking for housing for your first coop or first term out of res can be really intimidating, especially if you don't know where to look. Off-campus housing is a University of Waterloo-certified website where people can post houses or rental units in Waterloo and in other cities. Not every city is on there and not every term has as many posts, but it's a pretty good resource. Kijiji and Craig's List might seem like a sketchy way to find housing, but it's not as bad as it sounds!

If you're going to a city with a university, there are always housing Facebook groups.

Lastly, use your personal resources. Talk to your parents or friends about people they know in the city you're headed to, and straight-up post on your Facebook page that you're looking for a place to rent in a certain city, I didn't think it would work and then I found a sublet from someone I haven't spoken to since grade eight!

Tip 1. Never sign a lease. Unless you plan to live in Waterloo all year or you know people who will be sharing the lease with you when you're on co-op, leases are an absolute shackle tying you to a rent that you might have to pay if you can't find a subletter. Always sublet Tip 2. Internet scammers are real. You may be desperate to get someone to sublet from you over the summer, but never be desperate enough to fall for a scam. If the person you are communicating with starts talking to you about ANYTHING other than the property you are trying to rent to them, just ghost them immediately.

Tip 3. There are a lot of things to consider when you are looking for a place to live. You need to sort out your priorities first and foremost. Do you need parking, do you care if it's a house or an apartment, what's your budget, do you care about living in a basement, do you care if it's pay laundry? (tip 3.1 never choose a place that makes you pay for laundry, it's just a scam with a different face. No one has enough quarters for a wash and a dry!!)

And you need to make sure that you and whoever you are trying to live with understands each others' priorities. You also need to know where you are willing to compromise because I cannot stress enough that you will never find a place that checks every box. If five of you want to live in a house with no strangers and none of you want to live in the basement room, you probably aren't going to find the perfect place. Sorry.

Tip 3.2 you should not be paying more than \$700/month to rent in Waterloo. I don't care how many people commute from this city to Toronto for work every day, this is not the GTA. Rental prices are skyrocketing because landlords think students will pay anything, but we won't, we are poor, and we don't need to be bankrupted by both the university and housing. Now, there are exceptions to the \$700/ month rule, but it goes with the priorities.

If your only priority is living beside campus and you don't care that the building you're in was built shoddily, and you don't care about price, then go for that Icon suite. Convenience is worth a lot to people, it's all about priorities.



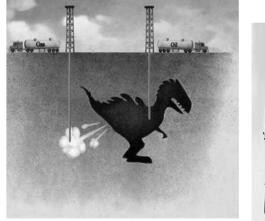
Tik tok

www.youtube.com/watch?b=dQw4w9WgXcQ

### **Presenting the Nation of Cowtown**

So I guess, #Wexit is a thing now

### #Wexit starter pack









Showing results for how to separate from canada



"if you don't like Nickelback you probably don't like me"





It is The Tin Soldier's honour to

#### Official flag of Cowtown

West Edmonton mall has been declared a national historic site and a province of Cowtown.

Cowtown has decided to continue its greatest traditions with a few modifications. The Calgary Stampede will now last eight months and include

national shoe: cowboy boots.

The third-largest industry is Jasperassic winter, than Park. Cowtown has been dying to get into the tech industry. This is their moment in the sun. They are going to electrocute dinosaur bones from Drumheller, How wi Frankenstein-style and light them on President? via Meme Starz

them. First is early winter, then snowier winter, than spring, summer, third winter, summer volume 2, august snowstorm, fall, fourth winter, first snowfall, and then fifth winter.

How will Cowtown elect their President? Obviously, they will put all

officially announce the separation of Alberta from Canada. The new nation will be called Cowtown. They have radical new policies that their interim President Jason Kenney wanted to share with us.

Firstly, they will be introducing a reverse carbon tax. This means that Cowtownians will be paid money to increase carbon emissions. Companies are selling coalburning electronic toothbrushes. This has bankrupted the dental industry and skyrocketed carbon emissions in a matter of days.

The new national anthem will be an Albertan original called Frack Me, which is the first 100 words of the Petroleum article on Wikipedia to the tune of "Photograph" by Nickelback.

Just for fun, they've decided to move the capital from Edmonton to Calgary. The Edmontonians are quite upset about this, so Cowtown has decided to surround Edmonton with fences and call it the Central Edmonton mall. Meanwhile, the a literal stampede of unemployed oil workers down the stress.

Cowtown has put in a bid to host the 2028 Summer Olympics. They plan to host the swimming events in the oil sands and the increased greenhouse gas emissions should ensure a warm climate for the games.

As for their canola industry. They cannot call it canola oil anymore because it isn't Canadian and rapeseed oil won't sell. Instead, they call Albola oil. However, the confusion between Ebola and Albola has proven quite difficult in marketing the product.

Cowtown has also abandoned Canadian money in favour of BertCoin, a modified form of Bitcoin. The new country also has a new police force. Farewell to red coats and mounties and hello to Berties and cowboy costumes. They also ride dinosaurs instead of horses. Speaking of cowboys, the national bird has been abandoned in favour of the fire to create life. they did learn their mistakes from Crichton's Jurassic Park. The dinosaurs were viscous because of the gene-editing, right?

Great news for Waterloo co-op. Jasperassic Park is hiring electrical engineers and dinosaur bait.

They are no stranger to conflict though. Cowtown is already broiled in its first war with British Colombia. Instead of dividing the Rockies east and west, they've decided to split it up top and bottom. Despite the fact that the bottom half of the mountains have more landmass, the two regions insist they should be on top.

To strengthen their military efforts in this war, they have formed a cowilition with Montana.

Since Cowtown is a new country, the US, Mexico, and Canada have changed CUSMA to CUSCMA.

The final change Cowtown is the change of season. They felt ignored by the current description of seasons so they've renamed the candidates in a house and play the most intense game of Heads up Seven Up. The winner will claim the democracy of Cowtown for seventeen and a half years.

Obviously, Alberta separating has motivated Quebec to separate as well. However, Trudeau, like his father before him hasdeclared a state of emergency. Why didn't he do this for Alberta? He honestly didn't care. He is, however, a big fan of maple syrup so Quebec can't leave. Military measures to ensure Quebec stays include thunderstorms of frogs. Everyone is so distracted cleaning frogs off the streets that they can't bother to organize a government to leave. They have also distracted residents by setting up an all-you-can-eat poutine buffet.

Some Quebecois are reluctant to leave Canada because Bloc Quebecois represents a large portion of parliament and it would be such a waste to let that go. It would be like spilling a truck of maple syrup on the highway.

### Is your collection giving you a hard time? What to do with all your hard hats



Are you a hard hat hoarder? Do you have a closet secretly stuffed full of hard hats that tumble awkwardly over each other each time you open the door? Worse still, do you have a wall of hard hats where you proudly display your collection? If you have a collection of hard hats from various Orientation weeks and co-op jobs gathering dust because... what if you need them someday, I'm here to call you on your bullshit. You will never wear those helmets again, they're probably expired at this point anyway, and they look stupid on your wall; who are you trying to impress? The owner of a trucking company? Face it, those colorful blobs of plastic are cluttering up your life and you need to get rid of them.

Problem is, you can't donate them because no one wants a randomly branded expired hard hat, even if they're cosplaying as one of the Village People. Also, you can't compost them; I've tried and it's still sitting in my backyard on top of the pile of old blankets and milk cartons that I also don't know what to do with. But, here's a genius holiday hack: hard hat trees. You've heard of trees made of pompoms, trees made of books, trees made of paper and feathers and old bottles of Heineken, so why not glue your old hard hats together. Yea you heard me. Just rip out that black plastic bit, stack 'em up with hot glue, and save your yellow O-week one for the top. Boom. A centerpiece everyone can admire for years to come. Or a heinous disgrace everyone can hate to look at for a month that will eventually end up in the landfill.

Or, hang them from trees in your yard like my neighbor, Fred. It's disgusting, pathetic, and an affront to the eyes, Fred, but it's your life.

Gross!

### **EngSoc introduces fiYELC** The conference no one asked for



Fiftieth Year Engineering The Leadership Conference (abbreviated "FiYELC", pronounced "fih-yel-k"), was held at the beginning at the term. This conference exists for the benefit of students who have been trapped in the Waterloo Engineering Undergraduate Program for over a decade, to remind them that there is a life outside of their courses. Yes, you read that right, you don't have to wait for your literal fiftieth year of undergrad to attend! Forty-ninth year students are also welcome!

Representatives from several clubs on campus educated the attendees, and each other, on how extra-curriculars can make undergrad a richer experience. The clubs represented included the Tin Soldier (the only student newspaper approved by Minitrue), Midnight Moon (the lunar-powered car design team), OwO (previously known as OwO-sa, previously known as UwU-SA, previously known as WUSA, previously known as FEDS), and EngiQueers.

Starting in 1863, the FiYELC was held annually until 1957. That year, the launch of Sputnik caused a disruption in the space-time continuum, making it more difficult for time-travelers to attend. This year, at long last, there were enough people with multiple "natural" decades of undergrad for FiYELC to rise from its slumber. In this year's FiYELC, only 20% of the 1337 attendees were from the future. We asked some of the FiYELC attendees how they felt about the conference.

"I found it really helpful," said Timothy Toomin, who is in his 38th year of Electrical Engineering. "After so many years of nightmares about miscalculating the alpha value of BJTs, I realized that there's more to engineering at Waterloo than the stuff you learn in class. There are so many wonderful social groups to hang out with, and design teams to learn the practical skills that you can't get in a lecture."

"I used to think that attending clubs would be an obstacle to completing undergrad quickly," said Isiah Jameson,

November

The month everyone asked for

a fifteenth year Mechanical student. "But then I realized, it doesn't matter what I do, I'm trapped here forever. I keep telling myself that it's all for the slip of paper at the end, but no, I actually just like pain. So I might as well get comfy and meet some new people. And that realization brought me here, to FiYELC, which taught me more than words can ever say."

"It's a good reminder of what's going on here," said Alexandra Martinez, a Chemical Engineering student returning from a 23-year co-op. "I got so used to the workplace environment that I just sort of forgot what life on campus is like. FiYELC is pretty useful for that!"

"Foolish humans!" said BlubBLUB the Fifth, a hyper-intelligent octopus from the year 3160 who traveled to the present to find the true meaning of Christmas. "I slaved away at UWaterloo Engineering for centuries at the behest of your hairy species, only to learn NOW that Tin Soldier exists? I only ever read the front page article! I will not rest until all humankind has coal in their Christmas stockings, except for the planners of FiYELC!"



Editor-in-Chief Doesn't check e-mail

Assistant Editor Sender of unopened e-mails

Layout Editors Spotify Sh\*t I broke InDesign again WE DON'T HAVE ENOUGH CONTENT!... wait a sec... WE HAVE TOO MUCH CONTENT!!!!

Copy Editors Grammerly Language Power Arts Student from UOttawa cuz we cant spelll

> Advertising Managers Unopened e-mails

Circulation Manager CnD cart

Social Media Manager Wait, we have a Facebook?

Staff Writers My articles will be late but I promise you'll have them in an hour Can I submit it Saturday? Can I submit it by Sunday? Monday? I don't check my facebook messenger I sent it to the other e-mail

Contributors Wait, you wanted them today? You didn't remind me I don't have time to write a 500 word article in 2 weeks

> ADVISORY BOARD Late to the meeting Can't open zoom link Skipped the meeting

Off-stream editor-in-chief Not here



TOM THE TURKEY 2A TRON if you are 1) not a turkey, 2) in a stable relationship that you can present to your extended family, and 3) in a position where you can ignore all the associations to the tragedies faced by the Indigenous community around the time of the first but simply on the myriad ways you can incorporate No Nut November jokes into unrelated conversation.

For instance, consider invoking the phrase "How could you say that to me it's No Nut November!" upon hearing

As November draws to a close, the Tin Soldier is obliged to provide a summary of this eventful month. November is an underrated gem in a year of prominent months. When we think about significant times in the year, we seem to be unable to draw our focus away from December, because Christmas and financial insecurity, January, because resolutions and inevitably forgetting about them, February because (a lack of) romance, March because drinking, April because showers, May because flowers and Mother's Day (because "We love our mommies!"), June because we love our daddies be they of the sugar variety or not, July because we're obliged to think about Canada Day, August because wasps, September because back to school, and October because Halloween.

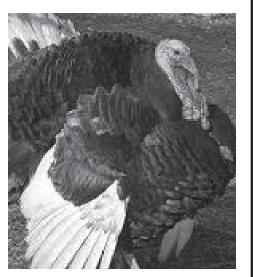
But as demonstrated literally in 2016, November trumps them all. American Thanksgiving, for one, happens in November. This holiday is a great one

Thanksgiving.

Movember, November's hairier and more philanthropic alter-ego, also makes its appearance this month. Basically, everyone finds the self-control required to not rip the Donny-Wahlberg-rat-tailesque patch of facial hair off of their male acquaintances for 30 days in the interest of ending prostate cancer. It's all truly admirable.

What really makes November an autumnal treasure, however, is the Internet-sourced trend of prepending "No Nut" to the name of the month. "No Nut November" was coined on Urban Dictionary in 2011. Approximately six years later, it was adopted into November traditions and meme culture by many more Internet users.

If you've never heard of No Nut November, please just think about the words involved, and if you still can't figure it out, Google it. The Tin Soldier seeks not to educate on the topic itself, a piece of sad news. This could make the person with whom you are speaking laugh, scream or cry. In any such case, your conversation now has magnitude and direction.



via wikimedia commons Turkey-lurkey time

The Tin Soldier is not a forum for thought-provoking and informative articles, and has no association whatso-ever with the Society of the Travelling Pants. Views expressed in *The Tin Soldier* are not those of the authors and do not necessarily reflect the opinions of Chuck Norris.

The Tin Soldier encourages submissions from students, faculty and members of the Non-Existent Action Committee. Submissions should reflect the concerns and intellectual standards of the The Society of the Travelling Pants in general. The author's name and phone number should be included, except if they are non-existent. This information may or may not be posted on our website.

All submissions, unless otherwise stated, become the property of *The Tin Soldier*, which reserves the right to refuse publication of material which it deems too suitable. However we're so desperate for content that we'll likely take it (but we might just send it to *Imprint*). *The Tin Soldier* also reserves the right to edit grammar, spelling and text that do not meet university standards, but engineers suck at english so it's a low standard.

Mail should be addressed to PJ Katie, c/o YTV Canada, P.O.Box 7500, Paris, Ontario, N2L 3W7. We do not currently have a phone, however you may redirect all inquiries to Kickoff's, as we're likely there. We don't have a fax number as no one uses faxes anymore.

### Did engineering run out of numbers?

Engineering buildings to start using negative numbers



The University of Waterloo returns with plans for yet another series of Engineering buildings! This time, the expansion is not only represented by an increase in available teaching spaces, but also by an extension into the negative integers. Yes, you may be studying next year in either Engineering Negative One or Engineering Negative Two!

While the University seems to have laid out some very detailed designs for the expansion, the feasibility of creating such structures falls short of the heights the new buildings are said to rise to. Construction of two new facilities that will make use of the airspace above the Campus Plaza will reportedly be underway come Spring 2020. A pillar made entirely of reject lettuce heads from lettuce club will be established in the centre of the plaza parking lot in order to support the new buildings.

Sounds fantastic, doesn't it? You won't

even have to go outdoors to get to Campus Pizza during a 3 am study session! And you can live each day to its fullest knowing that your education is being supported by 5387 tonnes of compressed lettuce.

Some believe otherwise. The most prominent current conspiracy theory, suspected to have originated from the Faculty of Math, promotes the notion that the negative engineering buildings will actually take away learning spaces. Their logic is as follows: if we add Engineering Negative Two to a system that includes Engineering Two, we achieve a result of zero.

Naturally, chaos has also been achieved as a result of these recent developments. Some students have taken advantage of the possibility DWE and E2 disappearing by simply not going to any class in either building, others spend each of their lectures in varying degrees of fear, and yet others have generated their own proposed designs for new buildings should any disappear.

The most notable of the new designs is Engineering Euler's Constant, or Ee, which reportedly would feature a beautiful lawn for outdoor studying.



Actual engineering plans for new engineering buildings

### Area Goose Raid Honk Honk, Motherfluffers



While many flew from around the world to gather in the small town of Hiko, Nevada with the hopes of finding proof that extraterrestrials do exist, in another part of North America, a similar raid was in the midst of happening with the hopes of finding the ever so valuable "Tool," the 60' Ridgid Wrench. The Waterloo geese were on a mission to find the home of the mascot and steal the coveted Tool. What started as a joke quickly spiralled into a plan of vengeance for these geese. The Iron Warrior tried to get an interview with the organizer of this event but was unfortunately turned down. That did not stop us from getting the exclusive scoop on this historical event.

Thousands of geese flew into town early morning on September 19th, the night before the raid to begin planning their route. They departed early in the morning, right when the engineers were walking across campus to begrudgingly reach their 8:30 am classes. The campus was filled with the sounds of the geese hissing and their wings flapping. Unfortunately, there were too many geese that day and some students did not make it to their classes. Fortunately, the injuries were minor, and no one had to be taken to the hospital for any severe casualties.

The geese paraded from the village one green towards the engineering building to prey on unaware engineering students. What started as a normal day for one student quickly turned into a nightmare. They have agreed to give a brief interview to the newspaper as long as they stay anonymous. They described their experience as something straight out of a horror movie. They said, "I was walking up the stairs to E5 and all of sudden you hear hissing, one moment the path is clear and then all of sudden there's a bunch of geese flocking towards you. I got goosebumps." They said they were lucky to be close enough to the main doors to be safe inside the building, but many others were not.

Another student who also requested to stay anonymous described their experience as mortifying and unforgettable. They were one of the unlucky few who did not reach the safety of a building in time before the geese wreaked havoc. They said, "they were not ready to surrender without a fight, but the geese were vicious and spared no one. I'm most likely going to scar from some of the bite marks."

Fortunately, the geese were unsuccessful in getting their wings on the tool and were ultimately defeated and forced to retreat to where they came from. There is no word on whether they plan to return and attempt their heist again or if they have been defeated for good. Some say that there is a high chance of the geese returning to go after another faculty mascot like the legendary Pink Tie or the statue of Porcellino. Could this be an end to all geese attacks as we know it, or has this triggered something far more sinister? Only time will tell, but until then stay safe Waterloo.



### New Type of Impeachment What is implumpment?



Now you may have heard of the impeachment procedures going on in the United States, but have you heard of the implumpment procedures going on? The two-stage process laid out below is now in full swing and will continue into new year.

The first stage involves throwing plums directly at Trump. In this game, points are scored for accuracy, creativity, and style. Popular methods include throwing the plum-like a rock being skipped, cracking it over Trump's head like an egg, and painting entire rooms with plum so that he is reminded at every moment that he is being implumped. This stage is popular with teenagers, and a new peak in sports enrolment has been reached in the pursuit of more accurate plum throwing. The MLB has decided to make their player picks directly from this year's festivities.

The next stage is forcing Trump to eat plums nonstop so that he, too, becomes plump. Plum pies, plum tarts, grilled plums, pickled plums, and raw plums are collected as famous chefs from across the country gather for the chance to partake in this event. Plums have become a pseudo-national fruit for the duration of the implumpment, causing the sales themselves to become plump. **New** high-rise condominium under construction. Construction will start in August 2020 and is projected to be completed in September 2020.

Rent - \$3000.00/month (not including water, electricity, wi-fi, or parking)

Building will be located on top of the recently finished engineering 7 building. Lease must be signed for a minimum of six years. Only a few rooms left for the upcoming Fall 2020 term so book now.

Call +1 234 - 567 - 8910 or email housingads@rentinkw.fake.ca

### We Cook Now We promise it's not meth



JULIA CHILD **3A CHEMICAL** 

#### **Banana Bread**

Don't you just love a good banana loaf? It's the perfect thing to take to a potluck or get-together with friends. Well, your days of store-bought banana loaves are over, because now you can make your own with this simple and easy recipe!

- Ingredients:
- Loaf of bread
- Bananas
- Directions:

Buy a loaf of normal sliced bread from your local supermarket (can be white or whole wheat). Buy one banana for every slice of bread. Mash each banana and spread onto each bread slice. Stick all of the bread slices together, and hope that the mashed banana doesn't come apart. Voila! You now have banana bread!

#### **Deviled Eggs**

It's the weekend, and you're feeling a little creative. Why not try and make some deviled eggs for breakfast? Well, you're in luck, this simple yet delicious recipe is sure to make your morning meal a delicious treat!

- Ingredients:
- Eggs (you can choose how many

Red bell peppers (they have to be red!) Directions:

Boil the eggs in hot water for 1 hour. Remove the eggs from the hot water and peel off the shell. Take a knife and carve out little devil horns from the red bell peppers. Stick two devil horns into the of hard-boiled tops the eggs. Enjoy!



### whoops We're a little tiiiipsy



"Now, you cover the glass with one hand and swirl the glass around. Before you taste the wine, let the flavours overcome you. Take a sniff quickly. Don't let the scent particles escape. Cover the glass back as soon as you open it. Mmm. Isn't that nice. Do you smell how bold this beautiful red

is? Do you get a hint of oak? I think I smell raspberries. Swirl the glass around again. Take another sniff. Tell me what you smell."

- "Chestnuts."
- "Blueberry!"
- "Is that... Strawberry?"

"Yes, there are no wrong answers! You are all doing so good. Now take a quick sip. Oh! The body! It's sweet, like port. But delicious. I think I taste those complex flavours, definitely berries! Wow! What do you think? Shout out your answers!" "Bro. It's KoolAid."



What we had while doing layout... whoops

#### SAGITTARIUS NOV 22 - DEC 21

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#### AQUARIUS JAN 20 - FEB 18

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Horoscodes

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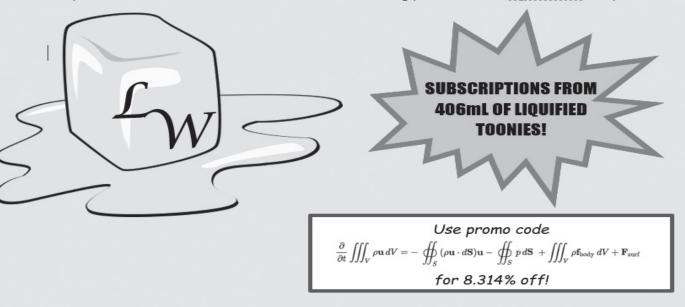
> PISCES FEB 19 - MAR 20

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> ARIES MAR 21 - APR 19

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Do you ever feel confined by the realm of fixed shape and volume? Do you often get an inexplicable urge to work on your CAD course homework at the bottom of a swimming pool? Download LiquidWorks today!



### **Point Vs. Counterpoint**

Are books better than eBooks?

AKANKSHA JOSHI 2A BIOMEDICAL

POINT

I don't know about you, but there's no greater feeling than that of opening up a new book, whether it be fresh off the shelf of a bookstore, or a used one that has had its pages turned many times before. Whenever I buy a book, I like to think that the physical copy I hold in my hands contains within itself knowledge, stories, and the desire to be read. The smell of the pages, the binding, the cover, everything that makes the experience of reading it so much fun. Try experienc-

ing that on a Kindle! Books have been a source of knowledge for centuries, dating all the way back to ancient Egypt, when they were simply scrolls made from Papyrus. In Mesopotamia, ideas were conveyed through tablets made from clay. Throughout history, physical books have evolved from beech bark and bamboo to hardcover and paperback copies we have today. They are civilization's creations, and tangible artifacts that hold knowledge of our past, present, and future. Just feeling the weight of holding a book in your hand gives it more value and makes it feel so much more real than just an e-book on a phone or tablet. You can also physically feel your progress through a book as you read it, making it all the more captivating and interactive, since there is a certain texture to each page, and a haptic experience of turning the pages. A thin e-reader pales to the experience one can get with an actual paper book.

Books are also a means by which we can share our ideas and stories with others, and physical copies give us the opportunity to share and exchange books with others easily, something that is hard to do with an ebook. You can gift them to friends or you can donate them to a charity or library. Ebooks are trapped in whatever device they are contained in, and can't be recirculated or recycled. I'm not even going to go into the nitty gritty of the cons associated with reading books using a phone, tablet, or ereader. I'll just go through a few of them. Firstly, e-books can result in eye-strain due to the light from the screens, which is not something you can experience when you read an actual book. Sure, you may say that books can still cause eye-strain and some screens can be set to have lowlight intensity and no glare. Even with that, you wouldn't be able to read in the sunlight. I also won't delve deep into the problems of wi-fi, chargers, and batteries...items that you'll never need if you're reading a paperback. Imagine curling up with a good book in front of a fireplace with a warm cup of hot chocolate. You must admit that the picture you just saw in your head had a physical book and not an e-book in it, right? See, you can't substitute the comfortable feeling of reading a book with an e-book. Furthermore, you can't really forge an emotional connection with an e-book like you can with an actual book. I know for a fact that some of my most precious possessions are my favorite books sitting on my bookshelf. They are real, and have a home where I can build a collection of my favorite books and authors. In addition, some book series' have covers that tell a story or create a pattern when placed in order on a bookshelf. Take a look at Osamu Tezuka's 'Buddha' series, which chronicles the life of the Buddha. If each book is lined up on a shelf, you can literally see the "shelf life" of the Buddha, from young to old. This is something that's impossible

to achieve with e-books.

Have you ever had that one blanket or stuffed animal from your childhood that's still in a box labelled "childhood memories" in your basement somewhere? Usually, these are objects that represent your childhood and that you can never part with, no matter how old you get. Books are the same. They have a permanence associated with them that gives them a longlasting power. We still have books from as long as 1,000 years ago, and they are still preserved in the form that they were made in, albeit with a little wear and tear. Nevertheless, they are still here, and the content within them is still accessible. It is very much possible that you can forever lose a digital piece of information stored on your laptop or phone if it is destroyed, making it close to impossible to retrieve. However, with real books and millions of copies, we can be sure that they will still be here for hundreds, if not thousands of vears more.

Ultimately, books allow the reader to have a meaningful connection with their stories and the authors who wrote them. They love anyone who opens them, and unlock the gates of your imagination to new ideas and knowledge. Printed books are yours for life, and can catalog memories and intellectual journeys as you build up your collection. In the end, it all comes down to the difference between having the experience of reading a book on a digital device versus reading the same book as a physical copy, with each turn of the page representing another piece of knowledge gained, and a deeper descent into whatever exciting adventure the story is taking you on. Which would you choose?

GAYATHRI SUDHEER 1A COMPUTER

One of the biggest challenges to face print media, in general, is the existence of online content- and that includes eBooks. Books have been thought of as irreplaceable by many, and while that thought holds true, the idea of having a paperback book is not particularly an exciting one to me. Books are all about the stories they share and the best way to communicate them to the largest audience possible. What best way to do that than to use the most common resource of our generation: the internet?

When it comes to convenience, eBooks are far superior to paperback. When it comes to buying the book, an eBook is literally just several clicks away, whereas with paperback, you would either have to wait several days for the book to ship to your place if you are ordering online, or you would have to physically go to the nearest bookstore and hope they even have your book in stock. If you are not a fan of buying books like me (books are fairly expensive), the library also offers eBooks which have become incredibly easy to access over the past few years. With apps like Libby and Overdrive, borrowing books online is just a search away, and you will never have to worry about overdue fees because they get automatically returned as well. Even reserving the book is incredibly easy (and free!) as they get automatically borrowed when the next copy becomes available and you even get notified by email. All of these perks are essentially lost to the print media: you have to physically go



#### COUNTERPOINT

to the library (which is far), do a manual search for the book you want, and return the book on time, otherwise you will have to pay penalty fees.

The other benefit of eBooks is their portability. Kindles are small and light devices that can carry hundreds of books so that when you are travelling, instead of carrying several five hundred paged books, all you have to carry is one device with all the books you want at your disposal. If you don't have a kindle, you can even read on any of your other electronic devices, from your tablet to your laptop and even your phone. With the use of eBooks, you will never have to remember to carry a book with you because your phone will always have it anyway. When you are at a long, boring function with no other entertainment with you (and perhaps the lack of internet), you can just use your phone to read! Or if you want to be inconspicuous during a class, using your laptop to read would be a much better option compared to bringing out a novel.

Not to mention, eBooks also save you a lot of money. Other than the huge benefit of costing significantly less than their counterpart, eBooks essentially last forever - once bought, you will never lose it (unless you willingly delete it). With access to current cloud storage, you are guaranteed to have the book with you forever, without the impending threat of accidental hard drive malfunction. Whereas paper media will age and tear, eBooks will remain in their undamaged state forever. Moreover, you will never have to worry about lending your books to your friends and them misplacing or damaging it either.

Most eBook reading platforms also allow customization for your convenience: from the size, font and even color. This makes reading much easier: you will never have to squint your eyes to read the fine print and you can also access night mode and let it be easier on your eyes during the night. This customization also means you can edit the copies of the books you own. For students, using eBooks for textbooks becomes incredibly useful due to its notetaking capability, without actually permanently marking the book. As someone who extensively uses an iPad for studying, using the apple pencil for writing notes, highlighting and drawing on the textbook have shown to be exceptionally useful in my studying strategies. You can also use the search feature to locate certain keywords or topics in your books.

Last, but not the least, is how eBooks

via wikimedia commons

Let's compare the storage in a book compared to an eBook

#### **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.

are far more environmentally friendly compared to their print alternative. Considering the massive deforestation caused by producing paper, eBooks become a much more sustainable resource for reading. In this world where climate change is more impending than ever, our role in minimizing the harm to the environment is crucial, even if it's as small as witching from a paperback to an eBook.

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In conclusion, although we might lose the paper feel that many of us enjoy, the benefits of using eBooks as your resource far outweigh the negatives.

So next time, you're in a book store, take a look at the book store on your phone.

Happy reading to my book and ebook lovers alike!

### What's Up with Engplay?



EWAN SIMMS 1A MANAGEMENT

#### So who are you?

My name is Jose Montaya Cabrera, I am in Management Engineering [and] I'm one of the directors of EngPlay.

In an elevator pitch, why should someone go to the show?

It's your opportunity to see a comedy written, acted and directed by engineering students, for everyone in the university.

What play are you performing?

"The Answer is Always C." Our



RATAN VARGHESE 3B COMPUTER

On November 12, Elon Musk announced that Tesla's fourth "Gigafactory" for batteries would be in Berlin. Their third Gigafactory was being finished in Shanghai at the time but most people probably forgot about all of that by November 21 when Tesla made a much more meme-able announcement: the Cybertruck

The Cybertruck looks unconventional. Basically the truck has almost no curves at all, instead it's all flat surfaces and sharp angles. The wheels are still circular, obviously, but the hubcaps are heptagonal. The doors and windows are polygons too. At the front of the Cybertruck a long, thin unified headlight stretches from the left to the right. It has been compared to a wedge, a stealth-fighter, a DeLorean, a car from an old video game with graphics from the year 2000, and the Sabre Pyramid tablet from Season 8 of The Office. It almost doesn't look real, like it's a digital model stage manger, Sage Hall, wrote the play, but then she also got feedback from different people from previous Engplays and from the other directors. So [Think], all of these characters have different backgrounds; we have profs, we have students, we have family members, and all of them are now part of a game show. During the night of the game show they are interacting with the host, and all of the people involved. Then they are going to try and find their way to the end of the game.

Now personally, as a director, what responsibilities do you have?

We need to conduct the auditions at the beginning of the term. Then we need to lead the rehearsals. [As a director] you do not only have to learn your lines and your blocking, you need to actually make those lines and blocking happen and then getting everything else ready for the play. not only props and stuff like that but also having the theater booked out, getting the advertisement out, talking to EngSoc about getting the budget, and getting the t-shirts.

Do you have any fun stories from on set?

There's one particular scene that we hadn't written yet, but we knew we wanted to integrate it into the play. So whenever we would scheduled people to come for rehearsals, we would always say "this is for the unnamed scene" but it was not only [the] unnamed scene, it was [the] unwritten. So people would come in and say, "cool what's the scene about" and we were like, "help us write it". It's one of the scenes people are going to find especially funny. Try to figure out which one that is. Lastly, what is your favourite scene? I'm going to say this so that people keep it in mind when they go to watch the play. When the play ends, it doesn't really end. So try and stick around for the very last minute that you possibly can, and then leave the theater.

Buy tickets for 6\$, at the CPH foyer and E7, every day 11:30 to 1:30., Monday through Friday, until the 29th. Performances at the Theater of the Arts, November 28, 29 and 30. Doors open at 6:30, the play starts at 7, and goes until 9.

### Elon Makes a Cyber Truck

sitting in the material world. In short, the name "Cybertruck" very much matches the aesthetic.

Another contributor to the Cybertruck meme was a gaffe during its announcement, when a Tesla employee tried to demonstrate that the Cybertruck's windows were shatterproof. With a massive crowd of journalists and Tesla fanatics watching, the man threw rocks at two of the windows, both of which cracked. Elon Musk stood nearby and remarked "It didn't go through, that is the plus side ... room for improvement", after the obligatory "Oh my fucking God".

So, apart from the memes, what is this vehicle? It's an electric pickup truck. It has two rows of seats, and a lot of space in the back to carry stuff. This space, normally called a bed, is being branded the "Cybertruck Vault" and has a lockable cover. There are single motor, double motor and triple motor variants. Assuming Tesla actually meets its deadlines, the former two will enter production in 2021, and the latter will enter production in 2022. The tri-motor variant will cost almost 70,000 USD, have 800 kilometers of range and will have a towing capacity of 6,350 kg.

The stainless steel body of the Cybertruck is actually the exposed "monocoque" frame of the vehicle: there is no separation of frame and body as seen in most trucks that exist today. This saves a lot of weight and volume. This is also Tesla's first vehicle designed for off-roading, equipped with all-terrain tires, 14 inches of ground clearance, an entirely flat lower body and off-road bumpers. There is even talk of an option for fold-out solar panels.

In short, there are indeed reasons to want the Cybertruck other than the brand name, the memes and a desire to weird out your friends. A Cybertruck pre-order requires a refundable deposit of 100 USD. Tesla has already received 146,000. A tweet from Elon Musk claims that 42% chose the dualmotor mode and 41% chose the tri-motor mode. The single-motor trails behind with 17% of the pre-orders because if you're ordering such an outlandish vehicle 3 years early then you might as well go big.



Elon Musk presents his unbreakable truck

**Upcoming Events Calendar** Monday Wednesday Thursday **Friday Saturday** Sunday Tuesday **Nov 27 Nov 28** Nov 29 **Nov 30** Dec 1 Dec 2 Dec 3 Check out up-tothe-day event Metal Club **Council Meeting Black Engineers** EngPlay EngPlay EOT EngiQueers postings on the 7:00 PM - 10:00 PM 7:00 PM - 9:00 PM 7:00 PM - 9:00 PM 5:00 PM - 7:00 PM #4 Study Hall EngSoc website 6:00PM - 9:00PM 5:30 PM - 8:30 PM 5:30 PM - 8:30 PM at engsoc.uwa-**Bus Push** Exchange EOT terloo.ca/event-Coffee House EngPlay 10:00 AM Dinner calendar/ 7:30 PM - 10:30 PM 7:00 PM - 9:00 PM 7:30 PM - 10:30 PM

Wednesday Dec 4	Thursday Dec 5	Friday Dec 6	Saturday Dec 7	Sunday Dec 8	Monday Dec 9	Tuesday Dec 10
					EngiQueers	
					6:00PM - 9:00PM	

### **Office Ladies Podcast Review**



RATAN VARGHESE 3B COMPUTER

(RA)TAN LINES

The unofficial theme for Ra-Tan Lines this term has been the intersections between podcasting and other media. And there is no recent podcast that exemplifies this more than "Office Ladies", where 2 actresses from the American version of "The Office" rewatch each episode and tell everyone some of the spicy behind-the-scenes details. The 2 actresses in question are Jenna Fischer (Pam) and Angela Kinsey (Angela).

First of all, yes, their voices are the same as in the show. Thankfully, Angela Kinsey the actress is much more chill than Angela the character, in fact Angela Kinsey the actress is apparently best friends with Jenna Fischer the actress. This level of specificity between actors and roles would get annoying really fast, so the Office Ladies save it for when it's actually necessary. "Michael", "Michael Scott", "Steve" and "Steve Carell" are all used to refer to the character of Michael Scott, played by Steve Carell. Maybe this is normal in acting, or a sign of how closely associated the actors and characters were, but in any case it can be a bit confusing and listeners may benefit from skimming the cast list. Unless they are the target audience: super fans of The Office probably memorized such basic details. After a word from the sponsors and the intro theme, Fischer and Kinsey sometimes read a synopsis. Then, Fischer has her "Fast Facts" and Kinsey has her note cards, or "Kinsey tidbits". Both the Fast Facts and the note cards explain trivia about the episode in question. Then the actual discussion of different scenes in order occurs. There may still be note cards discussed here. Maybe there'll even be a Fast Fact, this isn't a show that strictly follows a format. There are also discussions of listener questions and comments.

So what might you learn about The Office from listening to Office Ladies? Well among other things, the intimate process of being mic'd when acting for television, the perils of keeping one's hair in a bun for days, and the details of the sound stage (and the lack thereof in earlier seasons). There is also a lot of discussion of the writing process of The Office, which involved a lot of writers being actors and actors writing backstories for their characters. There are large chunks of character that initially started as jokes, conversations or even essays by the actors: this includes Angela (the character) being fond of cats.

So far, there have been two episodes (out of six) with guests involved in The Office. The episode discussing "Health Care" included a discussion with Rainn Wilson, the actor who played Dwight. The following episode, which discussed "The Alliance", included a discussion with Phil Shea the "Prop Master". These aren't monologues, they are pretty balanced discussions instead. It's worth noting, as Fischer points out during the "Health Care" episode, that all the actors became friends in real life after working together for so long. At many points during the podcast, the Office Ladies talk about how nice everyone was, especially compared to the cast and crews of other shows they worked on. This is all worth pointing out given the deep rivalries that seem to persist for years in the show proper.

Fischer and Kinsey speak a bit fast. Listening at high speed is definitely possible, but you have to really be paying attention to what they're saying. If you intend to listen to Office Ladies while you're engaged with something else, you might benefit from sticking to regular 1x speed. The audio quality is fine most of the time: understandably, the guests don't sound that great when they're calling in. Office Ladies has been releasing new episodes every Wednesday, like clockwork. So far there have only been six proper episodes of around an hour each, plus a short trailer. This is precisely enough episodes to cover all of season one of The Office, so definitely (re)watch each season one Office episode before each Office Ladies episode. It is a very delightful podcast for anyone who is fond of the show.



On November 15th, members of the Engineering faculty, student scholarship winners and award donors gathered to celebrate young minds that will shape the future. With hundreds of awards and many many thousands of dollars awarded, it was an event filled with energy and celebration. The flowers were beautiful, the conversations cheery, and the food was delicious.

In between courses, some very special awards were announced, honoring current

### **Engineering Awards Dinner**

students, alumni, and companies. Four start-up companies were granted funding by the Engineer of the Future Fund to help support their entrepreneurial ventures. One of the companies, IuvoDerm, focuses on "simplifying healing for complex wounds" and has created an antimicrobial wound dressing that helps with painful ulcers caused by diabetes. Hydro One received the Friend of the Faculty Award for its generous funding of power-related research and scholarships. Hydro One is making great steps forward in terms of diversity in engineering, with a particular focus on the inclusion of women. They have 10% more female engineers than the industry average and are running several initiatives to support women in engineering.

The Young Alumni Achievement Award went to Martin Basiri, founder of ApplyBoard. Anyone listening to Basiri speak understands that his success is welldeserved and hard-fought. From coming to Canada only speaking a few English words and bringing his brothers over with him, to creating an AI-based company that helps international students apply for studies abroad, Basiri has come full circle to help others in ways he wished he was supported;

The founders of Conavi Medical, Brian Courtney and Aman Thind, went home with the Team Alumni Achievement Medal. Their company has created world-class imaging devices to analyze a patient's anatomy and underlying disease so cardiologists can deliver personalized treatment. Nickolaos Aroutzidis was awarded the Alumni Achievement Medal for Community Service. One of the causes he champions is the Rotary Respite House, that supports parents of children who are medically fragile or have developmental delays.

The Engineering Faculty is one we should all be proud to be a part of, and one that will continue to innovate and create solutions for our world. To quote Dean Pearl Sullivan: "The brilliant minds, contagious imaginations and deeply curious nature of the people here tonight are necessary ingredients to global impact through innovative solutions and emerging technologies."

Cheers to all the award recipients!

#### GABRIELLE KLEMT 4A GEOLOGICAL

Every term I hear about various campuswide events, but rarely do I attend them. Sometimes, I feel like does anyone really attend them? Surely there's some turnout, or they would stop hosting them, but I've hosted events that only two of my friends have attended. I suppose that every student can be indifferent. That's why when I walked into the Zero Waste Cooking Show at FEDS Hall I was shocked to see a packed house.

I found out about the show on the UW Sustainability Instagram (@uwsustainable)

### Sustainable Cooking Show

Javier Alacro, Executive Chef with UW Food Services, took the stage and managed to deliver smart tips and funny quips while cooking up a fast "dirty" mashed potato and pulled chicken with cauliflower rice made several ways.

At last it was time to try the dishes. Along with Javier's dinner there were six other

chefs who had prepared a variety of things to try. I tried all of them and I can describe them for you. We had some biko (a Filipino coconut-rice cake), barley pudding (similar to rice pudding but... tastier?), potato skin fries with different dips, noodle and veggie salmon salad, carrot and celery loaf with clotted cream and roe, and my favourite on a frigid day like Nov 12, a delicious rice veggie soup. If I thought it was a shame so many people were there because I wouldn't get any samples... well, it's true the lines were long but there was plenty of food to go around and it was all great.

Follow @uwsustainable on Insta for more events!



which I discovered when doing research for my Shift Zero article. I'll be honest, they got me with the promise of free food, but I signed right up. Who doesn't want to learn how to use all the parts of a potato? I thought, however, that I was part of an exclusive club of people (approx. 1,100 followers) who would know about this cooking show. I thought I would be getting all of the free food samples. To my surprise, I saw on Facebook that many of my friends had also said they would be going, and talking to people I found others who had heard about this event! Can I just say, props to the advertising manager because clearly they are doing a killer job

Upon entering the room, I was drawn to a table full of glass water dispensers in which floated cranberries and what I at first thought were slices of potato... they were ginger. I found myself a seat in the balcony upstairs because the main floor was tightly packed and waited for the action to begin as tempting scents wafted up to me from below.  $Health \, Canada \, Certified \, for \, Yellow \, Fever$ 

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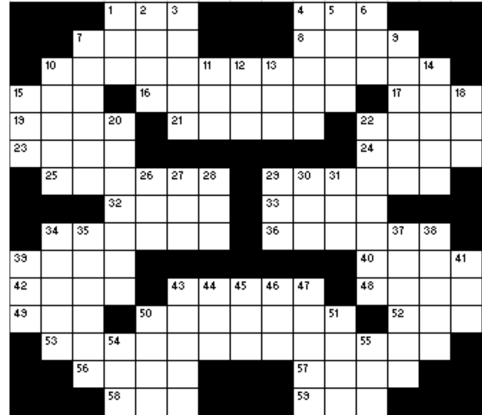
### www.kwtravelclinic.ca

**Physicians Certified in Travel Medicine** 

### The Iron Crossword

Chugga Chugga Choo Choo

**KIRSTEN EHLERS** 2A BIOMEDICAL



#### ACROSS

- 1: DNS record used for reverse DNA lookup 4: Domestic intelligence organization in the
- US
- 7: What trains say
- 8: From 1964's *The Train*, "You are nothing
- Labiche. A of flesh"
- 10: Star of 1997 Peacemaker
- 15: Character in Planes, Trains, and Automobiles
- 16: Verhan Dalhart's "The Train"
- 17: Acronym for a NASA robotic spacecraft orbiting the Moon
- 19: Abbreviation for international
- **21:** Country home to Ramses train station
- 22: What a relief!
- 23: Self-contained piece of music for one voice
- 24: Acronym for organization of Korean law professionals
- **25:** Long pastry iced in chocolate and filled with cream
- 29: Where you might see Planes, Trains, and Automobiles

- 32: Railway stations in Kihoku Kitamuro District
- **33:** Minnesota congresswoman 34: A scammer
- 36: The numbers on an item in a store
- **39:** Surname of actor who plays answer in 15 across
- **40:** Plural abbreviations for extensions 42: Patella
- 43: involuntary muscle contraction
- 48: Acronym of Canadian, third-party organization to Department of National Defence in
- Canada 49: Acronym for former name of chicago tribune
- 50: 1903 and 1978 film The Great Train
- **52:** Things that are intended to stay hidden
- **53:** When you will arrive
- 56: There is do or do not; there is no try
- 57: Obselete word for ears of corn
- 58: Not or
- **59:** French unit equal to 10 000 grams

#### **DOWN** 1: Vietnamese noodle soup

- 2: Unit of pressure
- 3: Unstoppable is a movie about a train that
- goes
- 4: Opposite of sink
- 5: Objects that does what 4 down is 6: Mudvayne song on "Lost and Found"
- 7: Mascot of Boston sports team
- **9:** 2009 train film The Taking of
- 10: A kind of movie
- 11: Abbrev for this faculty
- 12: A low bank
- 13: Acronym for Polish People's Army (Polish)
- 14: Rail company whose famous locomotive
- is "Pancho" 15: Moon of jupiter
- 18: Bird that hoots
- 20: French art dup known for "Pomme de
- New York", "Moutons", and "Choupette"
- **22:** Train movie with Chris Evans: *Snow*
- **26:** To target
- 27: Independent grocers alliance acronym
- **28:** Past tense of to move quickly
- **29:** Police man
- 30: Acronym for number of deaths per 1 000 live births under 1 year of age
- **31:** Name for the pan flute
- 34: Name that may refer to one of two African countries
- 35: Pen name of William Sydney Porter
- **37:** More than necessary
- 38: Short name for mathematical science with data analysis
- 39: Acronym for Polish Boat Club
- 41: Acronym for airline in South Africa
- 43: Acronym for sound navigation
- 44: Thermoplastic used as an insulator in electronics
- 45: Nickname for President Lincoln
- **46:** Intercourse
- 47: Titular character of 1921 film and play by
- A. A. Milne 50: To do again
- 51: Abbreviation for annualy
- 54: Charged particle
- **55:** Electroencephalogram

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

# "When is it acceptable to play Christmas music?"





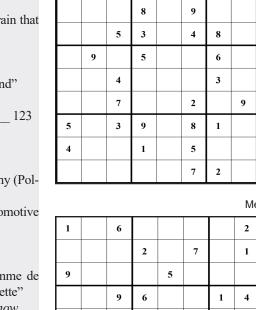


Sudoku #2019-11-27

**YVONNE LALUMIERE** 

**1A ELECTRICAL** 

Easy



1 2

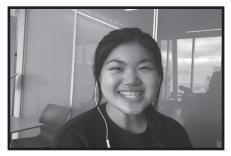
7

"Now? I don't know." Adam Barraso, 1A Mechatronics



"All. The. Time." Kayra E-A, 1A ECE

"Ugh. Never" Alex Matos, 1A Nano



"Right now. I literally started right after Halloween" Rachel Zhang, 1A Nano

"Depends on which song" Deric Park, 1A Chemical



"December. Definitely December" Ryan Belanger, 1A Mechatronics