

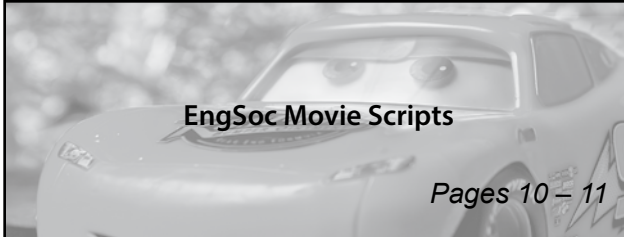
# THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

VOLUME 39 ISSUE 10 | WEDNESDAY, JULY 18, 2018



**OHIP+ Changes**  
Page 3



**EngSoc Movie Scripts**  
Pages 10 – 11



**The Tin Soldier is Here**  
Pages 5 – 8

facebook.com/TheIronWarrior

twitter.com/TheIronWarrior

iwarrior.uwaterloo.ca

## Ford Turns The Clock Back Twenty Years



Andrew Louis via Flickr under CC BY 2.0



**GABRIELLE KLEMT**  
3A GEOLOGICAL

I just wrote an article praising Health Minister Christine Elliot's changes to OHIP+. But let's be real, that was a fluff piece. What I need to do now is bring your attention to something more important.

Last week Doug Ford rolled back Ontario's sex-ed curriculum to where it was in 1998. That's twenty freaking years ago. Twenty years ago, HIV was stigmatized because it was synonymous with being gay. Take a minute to reflect on the fact

that Doug Ford wants students not to learn about same-sex marriage (because obviously that's too controversial) or CONSENT.

Consent is the very core of sex-ed, without it all you have is putting condoms on bananas. Better protect yourself before diving in because permission doesn't matter, apparently.

This disgusting move should have any educated individual born in the last half century wiggling out, in terms Doug will understand. I know Ford spent the '90s selling and doing A LOT of drugs (not ones he was prescribed either) – and this is well documented if you're interested – so he likely came across a lot of situations

that involved consent not given. He, remembering his glory days, wants to give those to some other cretin with the excuse that they never learned it was wrong. Well, we shouldn't let him.

Use your educated voice to raise some noise. Emailing your MPP to let them know how annoyed you are is one easy way to do it. I will even provide a template for you to make it brainless:

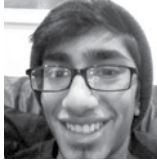
Dear MPP [insert their name here], It has come to my attention that our new Premier has turned back the clock on sex education in this province. I am a university student and I would like to express my concern specifically about the lack of proper education on consent in the new

curriculum. As my MPP, I would like to ask you to bring it up in the Legislative Assembly and do what you can to lobby against this reversal of progress. I look forward to hearing back from you and will continue to ask you to bring this up as it is an issue of extreme importance to myself, everyone I know, and all future Ontarians. Kind Regards from a concerned citizen, [insert your name here]

If you don't think your MPP would be sympathetic to your email, contact the Waterloo MPP Catherine Fife, a woman who does not strike me as a mere backbencher.

Do what you can, this is not time for apathy.

# I Did It! \*High Fives Mirror\*



**HASAN AHMED**  
EDITOR-IN-CHIEF

Here it is, the last issue of the Iron Warrior. First, I want to apologize for an error on the second page of last issue. I left the Winter publication schedule on the bottom, since I was editing an old copy of the Winter issue for formatting reasons. My thanks for this issue go out to Samridhi again, for being on top of things as an assistant editor throughout the whole term. Many thanks to the rest of my team for all their hard work these past few months. An even special-er thanks to Mary Bland (business manager of EngSoc for those who don't know) for just being amazing as usual. Thanks also goes out to the EngSoc executive team for updating you guys every issue. My goodness sometimes you guys wanted to make me pull my hair out with your late submissions, but I know you're all busy doing good things and getting purple, so all is forgiven. Besides, Laura Scanlan was able to give me little roasts to put in the Tin Soldier of you guys, so if you're reading this, check out your names in the Tin Soldier contributors list. Also thanks for your final updates, as usual, being memy. If you want some actual updates I'll leave them here: Engineering Day happened, it was cool. Raised lots of money for the Trevor Project. Almost \$2500 according to the GoFundMe. Check out the calendar for upcoming final events of the term. \*Note, this final update by me is not endorsed by EngSoc in any way. Just trust me though.\*

Did someone mention Tin Soldier in that last paragraph? That means it is time! Yes, the Tin Soldier is back in full swing with satire articles across the board. We've written some erotica, space colonization, and of course, trump pieces, so check it out. Be sure to analyze the minute details scattered around the paper. These little jokes were too small to write full articles of, but still constituted minor bits that could be used in the paper. Through our meetings during the term, we would end up generating ideas of things we could make fun of. These ideas were written on our office's whiteboard which is reserved for Tin Soldier ideas. Unfortunately, many of these ideas go unused. Some jokes included celibacy associated with this degree (either by your choice or not), remarks about the engineering program (in good fun, don't worry), and of course, sex jokes. I had some ideas that I really wanted to bring to fruition, but it seemed out of the scope of the timing of one weekend. My initial plan was to format the Tin Soldier to the layout of the Waterloo subreddit, which would've been very very very very very easy to make fun of. A lot of the jokes the team comes up with sound better in our head, and just

so you know we don't do a lot of vetting before publishing them in a newspaper.

I'm going to get R E T R O S P E C T I V E right now and look back at my term as Editor-in-Chief. First, I don't think it's made me any better or worse as a person. But it's been fun. Honestly don't know how much I've grown as leadership roles tend to do, but maybe I'll notice later. I've made tons of dumb mistakes, and I'm pretty scrupulous, so realizing how much I need to double and triple check things to find errors is more ingrained in my skull. I wouldn't say I'm a perfectionist but I definitely have standards if I have the chance. I hate WordPress but I like InDesign. Also I like coffee now. Like, every day. It's not good. I'll rectify this during coop, since I'll be living at home, which means better attention to my diet and more ingredients in my fridge. And nowhere in my kitchen is coffee grounds or a coffee maker. But maybe my dad will get me into drinking tea. When I come back next summer in 3A, I'll try to stay away from Tim Hortons.

Oh yeah I turned 20. I have good friends and just hung out and played games and talked. Good times. For those who didn't get me a present, my paypal link is ... nah obviously not. Instead go donate to charity or something. Your choice. I've never cared too much about receiving birthday presents. I just wanna make sure everyone's having a good time. But, I have gotten some damn good birthday presents. When I was a kid, I received a 5-in-1 sports set, which was this weird soccer net/basketball net/golf/baseball/hockey set that my brothers and I used for ages. I used that set for ages and still have the baseball bat all taped up and "usable." Everything else degraded over time, but it lasted a good 10 years before it fell apart. Another good present I received was my WiiU. I don't play it that often nowadays because of school, but it's nice for me to keep up with the games that came out early on for the system. I plan to get a Switch with *Super Mario Odyssey*, *Mario Kart*, *Breath of the Wild*, and a bunch of other games, since coop means time for gaming.

I caught up with an old friend right before I turned 20. She's one of the people I still talk to from before undergrad. Since only one other friend came to Waterloo from my high school, there was quite a divide in our social lives from there, but she's been one I've oddly kept in touch quite a bit. I think it's nice to keep in touch with your old friends, especially those genuine ones that you can have dynamic conversations with. It was nice. I don't have many high school friends that can do that, but luckily my Waterloo friends are pretty cool too.

Turning 20 doesn't feel different. Nothing becomes legal, nothing special happens. So I'm just hoping France wins the World Cup. However, I'd be lying if I said I don't want Croatia to win. I've always

been a fan of rooting for the underdogs. Croatia has been amazing this tournament, and I honestly wouldn't be sad if they took the cup home. Plus, France played a bit dirty in the last 15-ish minutes against Belgium, wasting quite a bit of time. But I wouldn't feel bad if Croatia lost to France. Hopefully they'll be in for a similar showing in future World Cups. I'm glad they beat Russia and England. The first goal against England by Perisic was amazing. At first I thought it hit off the English defender's head and was an own goal before I saw the replay and Perisic's Jackie Chan-style kick into the net. I can edit my editorial before this issue released to include the winner of the cup, but just check out the update in this issue for the results if you couldn't catch the game.

I've been binging more food videos, and I fell back into a cycle of Alton Brown videos. As a nano, I like how he explains a lot of the stuff he cooks with chemistry. Crystallization of sugars, aromas of popcorns, you name it. He's a very educated and passionate man that makes me want to try out his recipes. The man looks like science. I've also been binging non-cooking videos. I've been going through TV show clips on the YouTube deep dive we all go on every once in a while. Which has not been good for my productivity. Archer has been occupying my time. For those who don't know, it's a show about secret agents going on missions, but the main character's kind of an ass and it's funny but offensive but not the kind of offensive that's "offensive to be offensive." Okay, that last sentence was kind of weird, but it's a decent show so check it out if you have time. I've also been going through Futurama clips, since that's been a favourite of mine for a long time. Bender compilations, Fry's 100 cups of coffee montage, etc. There's many good standalone moments of the show that make it easy to get caught in a deep dive of YouTube videos.

Your issue-ly word is obtrusive, which means prominent in an unpleasant way. Nothing topical about this word made me choose it; I'm not subtweeting anyone or anything. I just like the way it rolls off the tongue. It's also not related to me departing as EIC, because I'm not cheesy like that. I'll be making a cameo in the Orientation Week issue though.

So yeah, this is it. I'm out of this position. Rafiq Habib is the incoming EIC for the fall, so if you are here for the fall term and want to write for the Iron Warrior, just join a meeting when he schedules the first one. Also if you want to get more involved by taking a role like Assistant Editor, Circulation Manager, Photo Editor, etc. go for it. They're honestly not much work (apart from Assistant Editor) and it's good experience, and it'll really help out the paper. Fall also has more writers which means more fun.

Okay, I'm out. Hang loose kids.

## THE IRON WARRIOR

The Newspaper of the University of Waterloo Engineering Society

**Editor-in-Chief**  
Hasan Ahmed

**Assistant Editor**  
Samridhi Sharma

**Layout Editors**  
Samridhi Sharma

**Copy Editors**  
Ratan Varghese  
Samridhi Sharma  
Gabrielle Klemt  
Aaron Propp  
Stone He

**Photo Editor**  
\*OPEN\*

**Circulation Manager**  
Gabrielle Klemt

**Web Editor**  
Aaron Propp

**Social Media Manager**  
Hasan Ahmed

**Advertising Manager**  
Judy Zhong

**Staff Writers**  
Tony Kappen  
Samridhi Sharma  
Judy Zhong  
Gabrielle Klemt  
Aaron Propp  
Hira Rahman  
Tiffany Chang  
Thomas Cojocar  
Raeesa Ashique

**Contributors**  
Katie Arnold  
Liam Yeates  
Benjamin Beelen  
Grant Mitchell  
Ashley Clark  
Cameron Soltys  
Leah Kristufek

**ADVISORY BOARD**  
**Off-Stream Editor-in-Chief**  
Rafiq Habib

**Executive Members**  
Emma Swarney  
Ashley Clark

**Students-at-Large**  
Cecile He  
Alyson Skidmore

## Advertise With Us!

Want to reach a wide, intelligent audience which includes students, faculty and staff at the University?

We are the official newspaper of the University of Waterloo Engineering Society representing the entire undergraduate engineering student body of over 6000 students.

Our newspaper is distributed all across campus and is the perfect medium to advertise your event, employer information session, service, etc.

For more information, please visit [iwarrior.uwaterloo.ca/advertising](http://iwarrior.uwaterloo.ca/advertising) or contact us at [iwarrior@uwaterloo.ca](mailto:iwarrior@uwaterloo.ca), 519-888-4567, Ext. 32693

Send your submissions for the next issue to [iwarrior@uwaterloo.ca](mailto:iwarrior@uwaterloo.ca).  
**Spring 2018 Publication Schedule:** May 23, June 6, June 20, July 4, July 18

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.

Mail should be addressed to The Iron Warrior, Engineering Society, E2 2347, University of Waterloo, Waterloo, Ontario, N2L 3G1. Our phone number is (519) 888-4567 x32693. E-mail can be sent to [iwarrior@uwaterloo.ca](mailto:iwarrior@uwaterloo.ca)

# The Perks of Catcalling

## How to Impress a Girl



**SAMRIDHI SHARMA**  
3A CHEMICAL

DID SHE JUST SAY THE F-WORD?

Have you ever been in a situation where you really like a girl but don't know how to approach her? Do you have the social awkwardness of a person who hates one-on-one encounters but can easily yell their thoughts to the world – in which case I suggest joining a debate team. Do you have the charisma of Michael Scott from The Office and the charm of Gunther from Friends? And do you really, really want to be noticed by the person of your liking. If you said yes

to any of the above, I have the solution! Catcall!

Here's how. If you see someone walking on the street with really nice legs, say, "Hey girl, nice legs!" Girls love it when random people on the street bring everyone's attention to them. They didn't shave their legs for nothing. People need to see. The more the better. Also, may I recommend accompanying your comment with a whistle? The higher pitch of the whistle will reach a bigger radius. It will also allow non-English speakers to identify you as a predator, so they can stay away from you.

Once you have her attention, ask her for her number. Yell at her, "Can I get your digits?" Say digits, not phone number, it is imperative. Chances are that

she will yell out her phone number back to you, so be ready with writing utensils. It could be that with the distance between you two, you may get the number down wrong so be sure to double check. Yell the number back at her for a thumbs-up. Even after that is done, ring her number right there; you want to be wary of fake numbers.

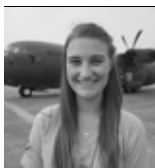
If she doesn't give you her number right away, ask her if she has a boyfriend. It is obviously more important to maintain bro-code than it is to respect her decision. She will probably say yes because she doesn't want to deal with you anymore, so ask her twice. You don't want her missing out on someone as amazing as you. If she says no and still doesn't give you her number, ask her if she is gay.

Why else would she say no, right? Again, if she says yes, ask her twice.

Finally, and this is the most important tip of all, once this process has been initiated, do not, and I repeat, DO NOT get close to her. She may attack you. Yes, I know it is hard to understand. What did you do to be attacked? You are just appreciating beauty. It is not like you are embarrassing someone in public. It is not like you are leaving her with no option, she can leave whenever she wants. You are definitely respecting her consent. You even asked her if she has a boyfriend, so considerate.

But girls are weird to understand – she is probably PMSing and you were the first person who came in her way. It is definitely not your fault.

# Listen Up Students! These Changes Will Affect You!



**GABRIELLE KLEMT**  
3A GEOLOGICAL

The new PC government has been in power for less than a month, but changes to the province have been coming thick and fast. One major change that has come about is to OHIP+, a service many students found exciting when it was unveiled in January.

In case you somehow missed it, OHIP+ is a provincial program that makes 4,400 prescription drugs free to Ontarians under 25. As someone who got sick several times this past year, having access free antibiotics made the whole thing seem less annoying. Yes, I was deathly ill and needed to take medication every day, but hey, at least I didn't have to pay for it... At least not directly. As it happens, even many of my more liberal friends were against OHIP+ as an expense to the taxpayer. The only people it benefits, said one friend, are the insurance companies who still get paid but don't have to pay back. Now that drugs covered under most insurance plans are free to those who require them, insurance companies are under no obligation to cover any of it.

So, although at first I was outraged at the thought of changes to a program providing access to medical treatments that may once have been prohibited by expense, I have had to put aside initial feelings to coolly assess what the new regime is doing. Because in my opinion, the changes to OHIP+ are actually for the best. Doug Ford's Conservatives are do-

ing something...good?? Oh no, before I have an existential crisis let's talk about how you might be affected.

For those previously covered by OHIP+ (children and young adults under 25), if you have private insurance you will no longer be covered. The caveat to this is that if for some reason your drug is not covered by the private insurance plan, but is one of the 4,400 drugs covered by OHIP+, the government would then cover it.

You may be left with an important question: I have the University Health and Dental Plan, will I still be covered? You're covered by the University plan up to 80% of prescription drug costs; and that extra 20% should still get billed to OHIP+ if the system works correctly. Yes, it's a lot of paperwork for pharmacists but hey, people with mental illness will get medication for free, women can get oral contraceptives for free. In fact, if your prescription for contraceptives is from UW Health Ser-

vices it's 100% covered by the University Plan.

Overall, I'm not upset at the changes, and I hope you aren't either. In the end this is one budget cut which will not truly be cutting services, but improving them. OHIP+ was rolled out as a last-minute

campaign move by the Liberals, and while it was a nice concept, it didn't have the full force of planning behind it which it would have if it was less... desperate. This move improves on a good thing and I'm interested to see just where the government plans to put the savings.



Jwiki2014 via Wikimedia Commons under CC 2.0

Christine Elliott, responsible for the new changes

## Awards, Grants, and Scholarships Available

### APPLY! for up to \$2,000



The Sandford Fleming Foundation

- Professionalism
- Leadership
- Communication
- Design
- Innovation
- Engineering

An organization devoted to the advancement of engineering education.

#### SFF Memorial Junior Leadership Award

For intermediate-level undergraduate students who have demonstrated outstanding contributions to the Faculty in the promotion of extra-curricular activities.

#### Fisher and Duxbury Leadership Awards

For graduating students who have shown outstanding leadership throughout their undergraduate career in activities that relate to engineering education.

#### Undergraduate Travel Grants

For: Conference Presentations, Conference Registrations, Technical Projects, Academic Professional Conferences.

#### Dr. F. Hecker and SFF Student Exchange Scholarships

For undergraduates participating in a Faculty student exchange program globally.

For more awards, information, and how to apply:

sff@uwaterloo.ca  
[www.eng.uwaterloo.ca/~sff](http://www.eng.uwaterloo.ca/~sff)

UNIVERSITY OF  
**WATERLOO**

# France Wins World Cup Final 4-2 Over Croatia



**HASAN AHMED**  
EDITOR-IN-CHIEF

The round of 16 was yet another unpredictable set of events that kept fans around the world on their feet. It began with a 4-3 French victory over Argentina, knocking Messi and his team out of the tournament. After a brilliant showing against Nigeria and impressive goal by Marcos Rojo, the Argentinians were knocked out on a sharp French offensive. An impressive goal in the 57' minute by Benjamin Pavard (which I personally classify as goal of the cup) tied the game up at 2-2, causing a large momentum shift and led to two more goals by Kylian Mbappe. Although Argentina did score goal 3 in extra time, they weren't able to secure another to tie it up, and they went home on a 4-3 loss.

Afterwards, Uruguay had their shot to knock Portugal out of the cup and send the top contender Cristiano Ronaldo home with Messi. And that they did, with a 2-1 victory over the Portuguese courtesy of Edinson Cavani. The first goal scored by him was off his face after a wonderful pass by Luis Suarez, leading to Uruguay leading 1-0. After a tying header by Pepe, the second Uruguay goal was scored by Cavani again after a wonderful passing setup. They were set to play France in the quarter-finals.

Russia and Spain faced off the following match, and Russia's heavy defense strategy along with Spain's inability to finish their plays led to a penalty shootout after the teams were tied 1-1. The result was a penalty victory for Russia (4-3). This was the first time the Russian team was advancing to the quarter-finals since

the breakup of the Soviet Union. Spain, upset by the home team, fell short and disappointed many around the world. Russia were set to play the winners of Croatia and Denmark, another game which fell to penalty shootouts. Croatia was able to pull through off a 3-2 penalty victory after a 1-1 tie in regular time, allowing them to qualify for their first quarter-final since 1998.

Brazil and Mexico faced off in the Round of 16, and it seems the Mexican team is cursed. After a 2-0 loss with goals from Neymar and Firmino, they have been eliminated at this stage of the World Cup in each of their last seven appearances. Not only that, but this is more than twice of any other nation (side note, anyone think Ochoa looks a lot like Josh Radnor?). With Brazil's victory, they were set to face the winner of Belgium and Japan. Japan showed strongly in this game, scoring the first two goals in the second half (courtesy of Haraguchi and Inui). Belgium offered a quick response and knocked in two of their own off the kicks of Vertonghen and Fellaini. With Japan holding a corner kick in the final minute of regular time, it seemed they could hold onto position to go into extra time. However, quick thinking and passing by the Belgian team resulted in one of the most clean goals of the tournament, scoring their third and winning goal of the match, knocking Japan out with a 3-2 victory. Fans around the world were distraught by the loss of a potential upset, but Belgium's team has shown strong this tournament, and this final goal against Japan showed exactly that.

Sweden and Switzerland faced off. It was a quiet game, but Sweden still topped with the only goal at the match coming in at the 66' minute off the foot of Emil

Forsberg. A lucky deflection of the Swiss defender resulted in the 1-0 victory. They were set to play the winners of Colombia and England, yet another game that went into penalties after a 1-1 tie. Harry Kane's 57' penalty wasn't enough to hold off Colombia, as a late 90+3' goal by Yerry Mina allowed for penalties (and another potential upset) to be set up. Fortunately, England held their own and was set to play Sweden in the quarter-finals.

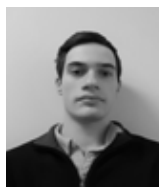
The quarter-final matches began with a French victory over Uruguay. Due to Cavani not being in the starting lineup, the Uruguay team was not able to hold off the strong French opposition, and a 2-0 loss knocked them out of the tournament. Belgium and Brazil faced off in the following match, and after a 2-1 upset over Brazil, Belgium knocked the last remaining South American team out of the World Cup, and have reached the semi-finals for only the second time. England capped off their victory against Sweden the next day with a quick 2-0 victory thanks to superb goals by Harry Maguire and Dele Alli. The same day, Croatia was able to knock out the home team in penalty shootouts after a 2-2 tie in regular time. They are the second team to win two penalty shootouts in a single World Cup (Argentina was the first in 1990). This is also Croatia's second qualification to the semi-finals, the first time since 1998.

The semi-finals began with a tense game between France and Belgium; two teams poised to win the World Cup. Although Belgium had more possession, a 51' goal by Samuel Umtiti of France was deemed the only necessary thing for France to qualify for their third World Cup final, knocking Belgium into the bronze medal match. Croatia also stunned the World by beating England in a 2-1 victory. After a

5' free kick goal by Kieran Trippier putting England ahead, they fell short in the second half. A flying kick 68' goal and a 109' go-ahead goal by Perisic and Mandzukic allowed Croatia to qualify for their first ever World Cup final. Harry Kane did have a chance to score in the 30' minute for England, but some poor shooting kept the ball out of the net. As a result, Croatia will be the underdogs against France in the finals. I recommend checking out the highlights of this match. As usual, the third place match never meets the expectations that a finals match would, but Belgium still showed up with an easy 2-0 victory over the English team. They were fairly strong throughout the entire game, showing no chance of an England victory.

The finals were set for 11AM EST. An own goal in the Croatian net by Mandzukic in the 18' minute led France to an early lead. However, just 10 minutes later, Perisic retaliated with a beautiful strike in the bottom right of the net, tying the game 1-1. Unfortunately, a hand ball later in the match resulted in a penalty kick from the French team, thanks to the assistance of the video assistant referee (VAR), setting it up for Griezmann to give France a 2-1 lead going into half time. Into the second half, a strike by Pogba in the 59' minute gave France the breathing room necessary in a match of this magnitude, giving them a 3-1 lead. Shortly after, Mbappe scored the first goal as a teenager since Pele in the World Cup final, extending their lead to 4-1. Croatia responded quickly with a flub of the French goalie allowing Mandzukic to steal the ball and score a quick second goal for Croatia. Unfortunately, that would be the last goal of the tournament, and the French team earned their title as World Cup champions; a title that was 20 years coming.

## Prof. Personalities - Martin Pei



**AARON PROPP**  
2B COMPUTER

PROF PERSONALITIES

### How long have you been teaching at Waterloo?

My first teaching job was in 2008. I was teaching on and off until 2011. I've done full-time teaching since then. Full-time teaching 7 or 8 years.

### What courses do you teach?

There's a linear algebra course. There's some algebra courses, some combinatorics courses, some discrete math courses. Recently I've been doing some third-year courses as well. These are graph theory. I've taught ECE 103, for the ECEs and MATH 135 for the software engineers.

### Favourite course to teach?

My favourite course to teach used to be ECE 103 until they killed it. The third year courses are pretty interesting to teach.

### How'd you end up as a lecturer?

It's a very stupid process. I emailed my department chair initially asking can I teach this term and he said yes. And that's when I got my first teaching job. Pretty much for the first couple years it was just like that. I asked for a teaching opportunity and they just said sure and they gave me something. From then on, they gave me contracts so I don't have to ask again.

### Favourite part of being a lecturer?

My favourite part about teaching is

interacting with the students. The students make it fun. Even if the course material is interesting, if the students look bored all the time, it is very frustrating to teach as well. If there's a lot of banter, or questions from students or just general chatter that's good.

### Hardest part?

The hardest part is just going through some of the tedious parts behind the scenes. Things like preparing assignments, preparing solutions, dealing with logistics, TAs and marking like marking exams. Those are some of the boring aspects of teaching.

### Teaching philosophy?

I don't have one. I just try my best to explain the material. I try to make things interesting. I always try to teach from the perspective of a student who's never seen this material before. I try to go into detail, give examples etc. That's my way of explaining things and I'll distract students by making really stupid jokes.

### If you weren't a lecturer what would you be doing?

Nothing. This is the only skill I have really. I mean I do have half a CS degree, but that was from a long time ago and I haven't used that since I graduated from undergrad. I'm relying on my students to make it big in the future.

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

I'm the worst person to give interview tips because I never interviewed for my job. I did try co-op when I was in undergrad and I had a few in-

terviews then. But I never got a job.

### 3 tips for undergrad?

I wish I would start assignments and studying much earlier than the deadline. We always procrastinate thinking this is too hard, I really don't want to do it. But almost every time you start doing it, it's really straightforward.

Approaching the instructors and TAs is not as intimidating as you might think. I rarely found my instructors back in the day. But for the most part, every time I found an instructor or TA, was a pretty good experience. It's important if you ever try to go for grad school. Later on, getting references is much easier. When I was trying to find references, it was very difficult because I just didn't know the instructor.

Third thing, don't apply to grad school unless you really, really want to do research. At least for a PhD. Master's I encourage everyone to do. Apply for Master's. But for PhD it is a long and gruelling process, unless you really love the field, research and the things that come with it. Which involves writing a lot of things and reading. Ya, if you don't love it, it's torturous.

### Favourite memory of undergrad?

That's so long ago now, I don't really remember much about that. I just don't remember anything from undergrad now. I do remember taking a Physics course and I think I got an A+ in the Physics course. That's the only Physics course I've taken at a University level.

### You seem to have a lot of board games. Which one is your favourite and why?

My favourite has always been Power Grid. So Power Grid is a game that involves auctioning, resource management and money management. Basically, you're trying to buy power plants, buy resources, build cities, power those cities using your resources to get more money so you can use that money to do more of that later. It's quite math-y. There's also a little bit of graph theory involved in that. The endgame is almost always very intense. The amount of thinking you need to do for that is quite crazy.

### Is Mario Kart your favourite video game or do you just like owning a lot of plush toys from one particular set?

I just like these plush toys because they're cute. I can bring them to class and people will say "aw they're so cute".

### What was the process like for getting the most distracting office award?

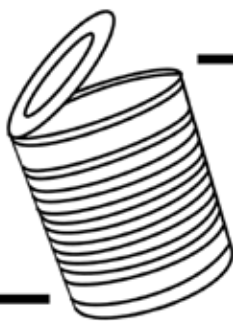
There was a contest the Faculty Association ran late last year. Basically, they have a few categories, the cleanest office, the messiest office and they said you can also make your own category. I made my own category of most distracting office and they gave it to me. Distracting people with the most distracting office sign.

### Why Olaf?

Olaf is much cuter than the princesses. But also I got this in Japan so it took up a lot of suitcase room.

### Do you miss teaching the engineers?

I do miss the ECEs. I've kept most of my contacts with former ECEs. There's more connection there that's for sure. ECEs are more outgoing.



E7 FINISHING; NOW TO SHIFT FOCUS ON SLC AGAIN

REPORT: JOKES GETTING TOO META

Is There too much Clickbait? Is this Headline Self-Aware? Will you give us Ad Revenue?

*Shocking reveal inside!*

Goose Recipes/Wound Healing Tips Depending on if you Won/Lost the Battle

*pg. 69 haha its the sex number*

Millenials are killing the Bitcoin industry

*Our industry kill count is rising*

[soundcloud.com/TheIronWarrior](https://soundcloud.com/TheIronWarrior)

EIC sad that he won't be on campus for E7 opening

## Your Regularly Scheduled Trump Satire



Gage Skidmore via Flickr under CC BY-SA 2.0

### Donald Trump pointing at his African-American friend



**THE MAN HIMSELF**  
TWITTER ADDICT

Cucumber farmers – they're under attack. I tell Justin, Justin what do you have against American cucumbers? You know what he says – pretty boy Justin, I loved his father, great man, terrific man – I'm banning Heinz ketchup. I feel bad for Canadians – great nation, love their polar bears, even better than the Russian ones – now they won't be able to have Heinz ketchup with their big Macs.

pEOPLE sAY I Can't dO English. I capitalize for effect. Capitalization adds effect – bet you didn't know that did you. The Chinese got a bad deal, they don't even

have capital letters in China. Horrible deal – almost as bad as the Iran Nuclear deal. Which I tore up, best move I ever made. Second best move was marrying Melania. She can make great things with cucumbers – her and Barron, second favourite son after Eric – the way they slice cucumbers, amazing. Great slices, tremendous slices.

The liberal media – lock 'em up, I say – the constitution starts at the second amendment. The crooked New York Times say I can't keep on topic. Topics are great, except hot topic – they compete with Ivanka. If Ivanka weren't my daughter I might be dating her. I just met with Theresa - great relationship – she should listen to me. I told her to Brexit ages ago. Just told her today about my daily briefings. She was surprised. I get tremendous briefings- also Ivanka makes

great briefs, you should buy them, they fit so comfortably.

As I started off, I'm very coherent. I just intentionally cover multiple topics in a speech with the occasional contradictory opinion. Italians can't make pizza, where's there Hawaiian pizza. Did you know pizza originated in Hawaii. They Italians stole it from us – America first, Italy last. Tremendous country, love their prime minister Putin. Great guy, always riding around on horses.

I've always wanted a horse, my daddy never let me get one. He told me – Donald, if you become president, you can get one. So I ran for President, once I buy my horse, I'm leaving.

Did I show my election map? Huge gains. Tons of fake votes for crooked Hillary and lying Tim. Back to the turkey

farmers, why won't Mexico buy our turkeys. They're the best turkeys. The way they gobble, it's amazing. So I tell the new Mexican President – he's a commie – did you know that? Buy our turkeys or I'm going to build the border wall.

I love walls. Especially all the walls at the Mar-a-Lago, the official white house. One time I was looking over a document with the Japanese president, by a cell phone flashlight. Nothing romantic, although I am the best President the gays ever had. I love the gays, nowhere is a better friend to the gays than me. I did them a favour by banning them from the military. I had to fight tooth and nail to not get drafted, they get off scot-free. (\*interruption from the crowd\*). I'll ban them by tweet tonight. That's how you make legislation right? Make America Great Again.

**DEPE FRID  
POTATOES**

**SEXUAL INNUENDO**



# Editorial\_Bonus\_Directors\_Cut



Hi. It's me. The Editor-in-Chief. Here with some news for you. I procrastinated on this a lot. But I still got it out, right? Anyway, I'm tired of writing, so on your right you'll see a nice picture of a Corgi puppy. Let this distract you from the fact that you have finals coming up. Don't fail. But if you do, this Corgi can offer emotional support. Or it can distract you from the fact that I used the same byline photo as last term (hey I updated the name accordingly). Or use it to distract professors while you go into their computers and manually change your grade. Either way you can't go wrong. I mean look at it's little face. This can distract anybody. So handle with care please.



Michel\_van\_der\_Vegt via pixabay under CC0

Look at those stumpy legs!

## 50 Shades of Red Erotica to Read on the Bus



The perks of engineering are two-fold, most engineers find as they sit on their computer trying to code. The first perk, Engineer found to be is that when you understand the material, the code runs on only the first try – after having failed only a hundred times before. The second “perk” protrudes from his pants, jumping up in excitement at the sight of the no red on his screen.

He caresses the keyboard, the Spacebar giving in to his authoritative commands. But, one light tap to the Spacebar isn't enough: he hits Tab. Then Enter. As he begins to type the next line of code, the computer in the E3 lab switches itself off. “What a tease,” Engineer thinks as he takes a big breath and a huge gulp and gets down on his knees. With careful maneuvering and using only his finger tips, Engineer feels around for the big button on the CPU and gently presses it, right in the middle. With a reassuring click, the CPU turns back on, and the green light invites Engineer to

do more things to the computer.

Engineer finds himself distracted by everyone around him. He knows that some music will definitely set the mood better. He slowly, silently ruffles through his bag for his earphones. He finds his big, Bose headphones first but decides against them; the setting is better suited for his earphones. Besides, it's not the size that matters, its how he uses them. Engineer knows exactly how to use his device. He reveals the earphones from his bag, and carefully inserts the jack into the CPU and the computer dings in acknowledgement. Engineer slides his hand onto the mouse and the mouse, understanding the commands instantaneously succumbs to its master. Engineer opens YouTube and

watches a sensual video involving a duck and some grapes. Having procrastinated for about an hour, Engineer commands the mouse, the keyboard, and all other parts of the computer that Engineer can recite by heart, to open the file that he was initially working on. The compliance is beautiful. It is not everyday that Engineer can give orders, so when he can, he does it right.

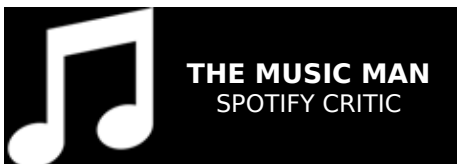
As the computer screen struggles to find the right code, engineer rubs his leg against the CPU in a quiet reassurance. He can't remember where he saved the file, but he trusts the computer to be smarter. The CPU becomes hot, reaching a temperature hot enough to put any human to shame. The file finally found and opened displays 51 errors. Guess who has blue balls?



George Hodan via Public Domain Pictures under CC0 1.0

Handcuffs are out, CPUs are in.

## Drake's Hot Scorpion



In an interesting turn of events, after Drake's hot new double album dropped last month, listeners were not so pleased. This long, somewhat boring album called Scorpion, left listeners scrounging for refuge in pop hits and people have reportedly listened to Bohemian Rhapsody on repeat, just to prove that length was not the issue with the new album.

This fresh off the press album is bringing cassettes back by having an “A side” and a “B side” just like a scorpion has a head and a tail. I cannot think of a better reason why Drake named his album Scorpion. I

also haven't listened to the album so who am I to judge? Besides “B side” – see what I did there? – only contains R&B and pop. Aside from “A side” – oops I did it again – only including Hip Hop, which seems to be Drake's forte, and again I am only guessing because I am a Drake noob, there seem to be no “Up side” (it's okay let's not acknowledge this one) to the album.

So anyway, it turns out that people didn't like the album so much, so they began demanding their money back from Spotify because Spotify overpromoted this album. Needless to say, I am sort of happy I never really listened to Drake before. God's plan, am I right? Nonetheless, a lot of people around me are going, “I'm Upset,” and I'm just all like, “Don't matter to me.” In my feelings, they should have thought about

this before investing their hard-earned money on stupid stuff like Spotify. You ever heard of LimeWire? That is where the gold is at.

A few of avid Drake fans did give it an 8 out of 10. I would still stick with a strong pass, but hey, if that's how you feel. Personally, I am pretty emotionless about it. Regardless of all these fans being angry, this new album did make the Billboard Top 100 and raked in like a billion dollars, so, it tells us a lot about how weird mobs are. Anyway, if you are a contributor to Drake's fortune and stand by it, and you are mad at me for writing this, or maybe you agree with me and really like my perspective, call me where my hotline bling. After we are done discussing how you got my number, we can talk about Drake and Spotify. Who knows what it could segue into.



**Editor-in-Chief**  
Somehow still passing classes

**Assistant Editor**  
Gives up weekends for this

**Layout Editors**  
inDesign Hotkey intern

**Copy Editors**  
Warrior's of Webster, Experts of Oxford, but unexperienced with Urban

**Photo Editor**  
\*CLOSED\*

**Circulation Manager**  
Travelling Salesman

**Web Editor**  
WinSCP Manager

**Social Media Manager**  
Deleted Snapchat and Instagram

**Advertising Manager**  
Gmail on standby

**Staff Writers**  
Likes to argue  
Keyboard Warrior  
Disappointed with Germany's performance  
Knows the whole faculty now  
1-time writers still count  
Didn't touch Trump this term :O

**Contributors**  
Should be Prez of York  
Always trying to reach word count  
Likes country  
Commitment issues (to too many things)  
Gets more attention from cardboard version of her boyfriend  
Graduate who helps bcs he's nice  
Humour-Art Mixologist

**ADVISORY BOARD**  
**Off-Stream Editor-in-Chief**  
Is actually enjoying his summer

**Executive Members**  
Mandated to help us reach quorum

**Students-at-Large**  
Volunteer to help us reach quorum

*The Tin Soldier* is not a forum for thought-provoking and informative articles, and has no association whatsoever 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 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.

# Point Vs. Counterpoint

**POINT**

C vs. Python

**COUNTERPOINT**

**C. MAN**

3A NIGHT OWL

```
#include <cpython.h>
#include <cython.h>
#include <stdio.h>
#include <stdlib.h>

int main(void) {
    printf("Notice the spacing is slightly off
and the compiler isn't upset.\n");
    /*my apologies it's an interpreted
language.*/
    if(language == python) {
        printf("Is python actually a language?
It just binds to C anyways.\n");
    } else if (language == C) {
        printf("Who needs these abstractions
anyways.\n");
    }
    int a = 5;
    char* s = "unladen swallow";
    /*have fun debugging this at runtime
:-)*/
    printf("This is a string in python: %s\n",
a + c); // C would have caught this
    while(program == slow) {
        printf("Wonder if I should have
used something closer to metal.\n");
    }
    /*You can do a fork bomb.
Not recommended and you will definitely
get you banned from university computers.
Please try this only on your own machine.
But don't. It will wreck it.*/
```

```
while(1){
    fork();
}
/*Requesting memory from the OS.
Novel concept isn't it?*/
int* arr = malloc(sizeof(int)*4);
/*Hell you could even write your
own OS, embedded system, etc. with C.
Try doing that with python. Let me know
how it goes.*/
printf("Caught the
interpreter error yet?\n");
/*Noticehowyouknowwhatyourvariableis?
No looking for duck typing errors.*/
free(arr); //My programming instructor
would hunt me down if I didn't do this.
}
```

**MONTY P.**

3A COMEDY

```
#Python is better : a PCP
import C_is_dumb
import numpy
import antigavity

# see how many libraries I can import
# now everything's already defined for
me
print("I don't need a \n at the end of this")

# can do web based programming
# I mean django is such a cool name

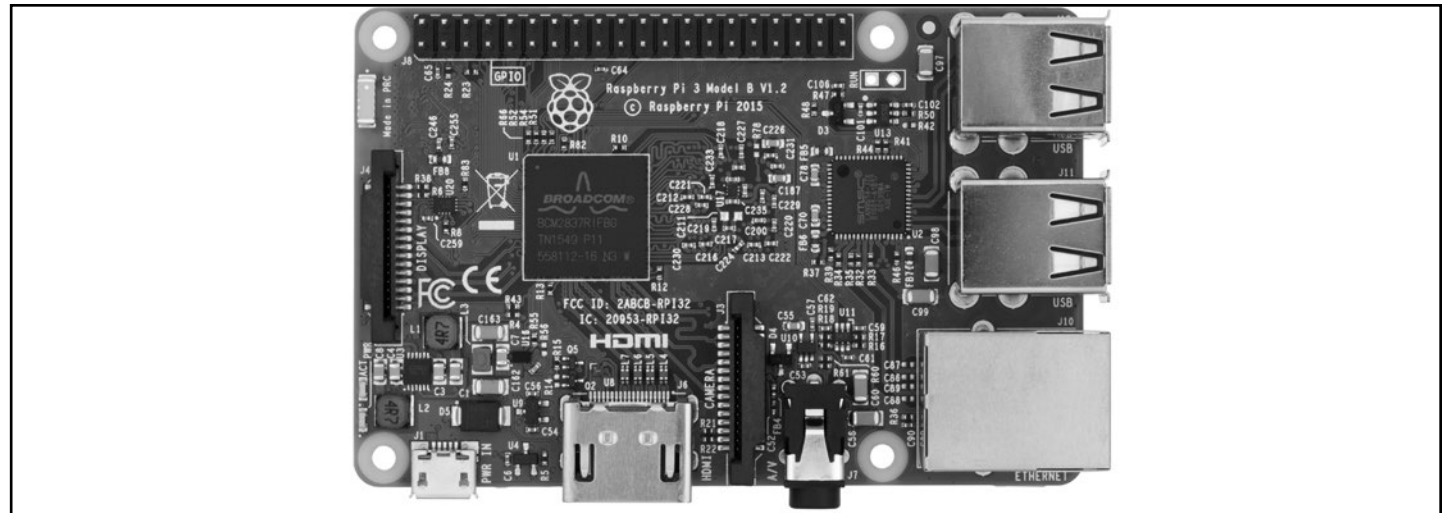
$ django-admin startproject C_roast
```

```
# Raspberry Pis are fun for kids
# Credit card sized computers
print("Also good for SIDEPROJECTS")

# interpreter, may be slower but better for
the user
# easier to read

# Object Oriented Programming
# easy design and maintenance
# also easy to reuse

for i in range(1, 1000000):
    print("C is dumb lol")
# hey at least we are both better than
MATLAB's bulky software
```



Evan-Amos via Wikimedia Commons under Public Domain

Despite what the name implies, these Raspberry Pis are not fun to lick.

## The Truth About Meghan Markle She's Just Social Climbing



**GRANNY SMITH**  
PROFESSIONAL  
CONSPIRACY THEORIST

It's been exactly 368900 minutes since Meghan and Harry tied the knot and I simply cannot keep quiet any longer. You see, like many from across the commonwealth I tuned in to watch a beautiful ceremony about love and devotion and joining yourself to someone for life afrknl gaeroigrga'g [efiwopggiAGKL]

Oh my good gracious! Fluffers just walked across my keyboard. I am so sorry, he is such a good cat normally but sometimes when he knows I'm doing important things like writing topical news blogs he just gets in the way. He loves attention that one. I can't delete it you see, last weekend Sonja was over to see Justin's new baby photos (he is such a darling, you can tell he'll be a charmer one day) and she spilled her tea right on the corner of my keyboard where the Backspace Button is. There is absolutely nothing that I can do about it, please just excuse the distraction. Now, where was I?

Oh yes, I cried the entire ceremony. Many other people were crying too but I bet they weren't all crying for the same reasons. You know, I have a woman's intuition, and I could just tell that that woman was not in love with him. And I was so sad. So very sad, because Harry has clearly been duped by that capricious attention-seeking American divorcee. He was looking at her with such love and you could see she was plastering a fake smile on her face that said, "I'm not in love, when will this be



Northern Ireland Office via Wikimedia Commons under CC BY 2.0

How do your legs feel, Mrs. Social Climber?

over?"

You know, I had a bad feeling about her all along, I really did. I just knew she was in it for the fame. How could they even have met? It was by design, that's how! Mark my words, Her Majesty the Queen feels the same way I do, all it took was one glance at her face and you knew. Look at any of the people who were from the groom's party and you could tell how uncomfortable they all felt about the match. It is not right I tell you.

And to think what a darling that Harry is. So very like my grandson Shawn (he's in the Military you know, I'm so proud). Such a thoughtful, caring boy, and all that tragedy with his mother when he was young. He deserves someone who loves him, not some callous Hollywood starlet on her fourth marriage. You just know she couldn't care less about the institution of marriage. You know Harold and I were married for 52 years before he passed, God rest his soul. And he had faults, my Harold, but I stuck with him because we promised to do just that. This nonsense these days about not seeing eye-to-eye on everything is ridiculous. I am always telling my grandchildren that you will never agree on everything, you just have to compromise and avoid each other sometimes, and that's what marriage is all about. Commitment, above all other things, is key.

Well, I hope they can find love together somehow, but I just don't see it happening, I just don't. You mark my words this will all end terribly and there I will be crying all over again because I saw it coming. You have a good day now, and don't forget to be respectful. Lots of love my dears.

# Space Colonization

## What Would Really Happen?



**SPACE COLUMBUS**  
EXPLORING '92

Space: The Final Frontier, and that means a whole area of the universe we haven't explored. Some of us dream of the day we conquer Mars, but I'm thinking of a more interesting future; one with intelligent life we can share information with.

However, movies portray these life forms inaccurately, as monsters who invade Earth and gauge a war with the human race, and we always seem to be

on the losing end due to their superior advancements. So I thought I'd flip the equation: what would really happen if we found a planet that had intelligent life, but they were LESS intelligent than us?

Well the sad fact is that we'd probably pull a Columbus v2. Knowing human history, having these aliens be less advanced than us means we can totally exploit - I mean, bring culture and technology to - their daily lives. That begins with a simple genocide to claim the land and settle. Easy right? We've done it before why not do it again?

Then we could probably enslave them to do our bidding; perhaps we could also make some sort of tombs to hold our dead

bodies after settling there, much like the pyramids. But I'm in the mood for cones, not pyramids.

We could even bring them back to Earth and do our labour here. I doubt they would have a similar currency (if any) to ours so we could pay them nothing to work with our heavy machinery. On the plus side, this can bring down child labour rates for humans, which means less human rights violations! So it's not all bad, is it?

We could also generate more profit for the employers due to the lower salary cost, which is great for small business owners. We'll give the aliens a place to live and everything, kind of like a

reserve, except it'll cater less to what they need because we took all their living necessities from their home planet. Once a couple of thousand years pass and the aliens learn our language, maybe they'll want fairer treatment and actual wages, and that means the first case of inter-species discrimination.

No worries though; since we'll still be more advanced we can just wage an easy-to-win war against them and keep them in their place. We'll set laws so they can't climb their way past the glass ceiling. They'll forever be ours. It's easy.

So uh, yeah let's just hope that there's no intelligent life out there; not for our sake, but for theirs.

# WANTED: New Waterloo Mascot to Replace Condom-themed Branding



**RICHARD HARD**  
INNUENDO INNOVATOR

Dear students,  
It has recently come to the attention of the university that there exists a condom brand, Trojan Condoms, which displays similar vital characteristics to

the Waterloo Warrior. Although our mighty warrior is always safe, the University feels the image association with a contraceptive brand is less than ideal. It has also contacted the brand and learned that unfortunately the Trojan company has been around 40 years longer than the University. Any attempt to influence them to rebrand has hit rubber wall after wall.

The University is particularly displeased to have to choose a new mascot when the Warrior seemed a perfect fit after the last ...difficulty. Our original mascot the Waterloo Mule was beloved by very few.

The Mules were meant to be comparable to Western's Mustangs but somehow we never got the respect that the Mighty Mule deserves. What's more respectable than a Warrior we asked

ourselves? Well apparently, Waterloo is once again the butt of the joke!

No more I said. And so, it is with great pleasure that I announce to you Waterloo's new mascot, a nod to the University's constant presence at the forefront of Innovation and Ideas. Please welcome the Waterloo Emojis. A different emoji for every team. Truly unique, Waterloo is once more Beyond Ideas.

**In an effort to fill space, here are some headlines that never made it as full satire articles. Just laugh because they probably would've been really funny.**

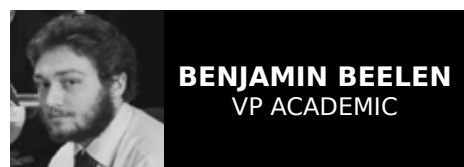
- Waterloo to Move O-Week to Winter to Coincide with Calendar Year
- Instagram Returns to Chronological Order; Snapchat Still Unaware Ads Aren't Your Friends
- Twitter Removes Locked Accounts from Follower Counts; Keeps Nazis
- If the Facebook Data Leak was so Detrimental, Why Didn't They Just Plug the Hole?
- We Should Accept the A.I. Takeover Because It Allows Me to Delegate Another Responsibility
- Rick Sanchez Confirms Only High IQ Individuals Can Relate to his Character
- "Why Aren't Millenials Spending Their Minimum Wages on Useless Items?" Complains Boomer
- Washed Up? We Didn't Report Anything on ISIS This Term
- Facebook to Remove Trending Section. How Will Iron Warrior Get its News Now?
- False Advertising: EngPlay Sued After No Differential Equations Were Solved During Showtime
- Ugh: The Pharaoh's Being Real Annoying About Policies and Immigration
- Report: Mom Says We Can Have One More Hour of Video Games
- Tickling Your Opponent, and Other Ways to Win Your Wrestling Match
- I Lived It: Tim Hortons' Iced Capp Machine Was Broken on a 30°C Day
- "Just Say You Do Entrepreneurship": A Beginner's Guide to LinkedIn
- "How Was Your Co-op?" Says Engineer At Party





# Mary Robinson Wins S2018 Teaching Excellence Award!

## An Interview and Overview of this Excellent Instructor



The Teaching Excellence Award is awarded to an excellent instructor every semester. They are selected through a nomination period by a committee composed of both VP Academics, two at large council elected members and a representative from the Associate Dean, Teaching. The winning instructor's nomination(s) must indicate that the instructor has contributed significantly to at least one of the following:

1. Employed non-conventional teaching techniques
2. Allowed opportunities for experiential learning
3. Showed a commitment and dedication towards ensuring academic success for students

Mary's work as Associate Director of First Year Engineering has put her in a position where she can put her ideas and ideology to action. It was clear from Mary's nomination and interview that Mary provides a very welcoming environment to her classes and that she is a physical representation to many students of what it means to be a woman in engineering.

Mary also provides a safe classroom experience for LGBT+ students,

as well as ensuring that no question, no matter what it is, is responded to with respect and integrity. Please read the interview below to find out more!

### What made you want to be an instructor?

Coming from a family of teachers and engineers, the profession was far from unknown for Mary, but it remained in the back of her mind as she progressed through her degree here at Waterloo and made her way into the engineering industry.

During a return trip to Waterloo for a Masters, Mary was offered a rare opportunity to instruct CHE102 for the first time, an opportunity that does not come to many grad students. This is where teaching caught hold and since then she has been improving the course and changing the lives of struggling students.

### What's your favourite aspect of being an instructor?

There's nothing more rewarding, in Mary's mind, than seeing the progression of her students. "I love seeing that eureka moment where the student just gets it", Mary said as she described the thrill of helping students understand those tough topics.

Mary is definitely not one to stray from developing strong connections with her students, and seeing those students succeed, is all the reward she could ask for.

### What makes you passionate about instructing/ what is your favourite part of being a lecturer?

One line explains it all, "I wouldn't be able to get up in the morning if I didn't have a class to teach". Mary's passion really shines through as she gets more involved through being the associate director of first year engineering, and trying her best to be a role model for all students in engineering. Following in the footsteps of some of her most inspiring role models, Mary works every day towards creating a safe space and inclusive environment for LGBT+ students and aspiring women in engineering.

### Have you felt that you've made a large impact on a specific class or student?

Mary's care for her students is extremely evident in everything she does, especially in creating a safe and inclusive environment for which she can help her students with any issues they may be struggling with, both inside and outside the classroom. "I wouldn't do it if it weren't for the students", she said as she described her experiences with teaching CHE102 more than twenty times. Mary described how the students always manage to keep the process fun and interesting as she takes new feedback each term to improve the course.

### What do you think is the most important aspect or quality of a good lecturer?

turer?

Organization is the key, most students tend to miss the work that goes into teaching a course before even setting foot in a lecture hall. Just as in engineering, it is very difficult to get perfection, and it is so important to keep trying to get better. Mary is always reading up on new studies and data to help her students in any way possible, especially in teaching the reduced course load students.

### If you were a shape, which shape would you be and why?

To conclude the interview what better than a fun engineering question. Mary's response was actually quite fitting. Mary said her favourite shape is a sphere, because it is round and has no pokey corners. This can actually be connected to a study (fairly small study) completed by Dr. Susan Dellinger surrounding the "shape personality test". This study reveals that the circle represents someone who is very personable, caring, and tend to be very well spoken and nurturing; perfect qualities for an instructor.

If you have any questions about the Teaching Excellence Award, please feel free to reach out to Benjamin Beelen at [vpacademic@engsoc.uwaterloo.ca](mailto:vpacademic@engsoc.uwaterloo.ca), and come to council meeting 1 in January 2019 to get elected to the next student at large position for the W19 Teaching Excellence Award!

# Engineering Co-op Student Debt-Load Survey

Spring 2018

**KAREN DUBOIS**  
ACTING MANAGER,  
FACILITIES & SPACE  
DEAN OF ENGINEERING OFFICE

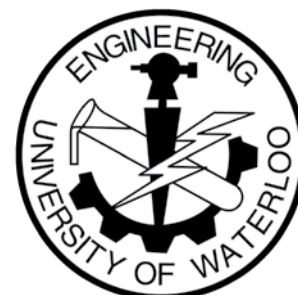
1000-1999	3%
2000-4999	3%
5000-9999	19%
10000-19999	31%
20000+	41%

### Have you lived at home while on work terms? (50 responses)

Always	12%
Sometimes	44%
Never	44%

### Average of the weekly salary while on work term (43 responses)

\$878



### Term Total

Total Responses	95
Number Surveys Sent	3183
Response Rate	3%

### Does your family support you financially? (66 responses)

Yes	65%
No	35%

### Average Cost of Living for a 4 month School Term (63 responses)

\$13,230

### Average Cost of Living for a 4 month Work Term (55 responses)

\$5,268

### Have you applied for local aid or other bursaries to pay for school? (54 responses)

Yes	59%
No	30%
Not Yet	11%

### Have you applied for OSAP? (51 responses)

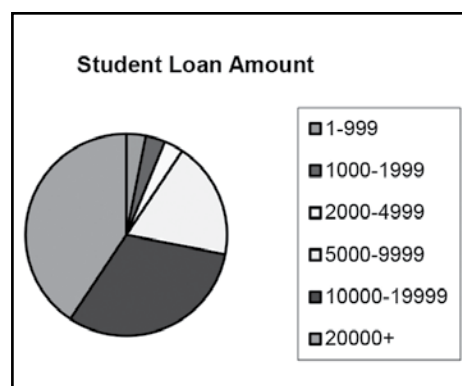
Yes & Received	59%
Yes & Denied	10%
No	31%

### Do you have a loan for academic purposes? (52 responses)

Yes	58%
No	31%
Not Yet	12%

### How much is the student loan? (32 responses)

1-999	3%
-------	----



### Has the differential tuition increases caused you hardship? (52 responses)

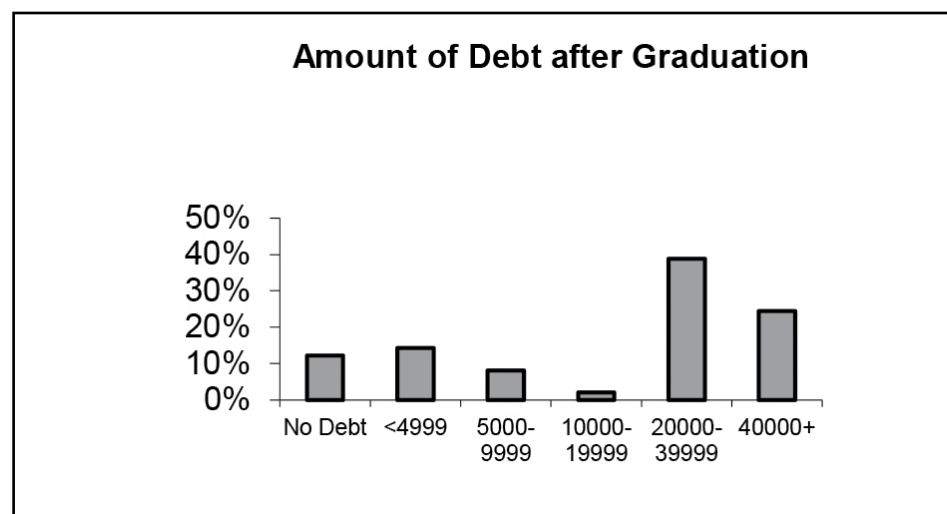
Yes	56%
No	8%
Not Yet	37%

### How much debt do you expect to be in by graduation? (49 responses)

No Debt	12%
<4999	14%
5000-9999	8%
10000-19999	2%
20000-39999	39%
40000+	24%

### Do you live at home while at school? (50 responses)

Usually	6%
Used to	2%
No	92%



# Cars Kachow!



**KATIE ARNOLD**  
PRESIDENT

[Inhaling and exhaling deeply]  
[Male] OK... Here we go. Focus. Speed. I am speed. [Cars whizzing past] One winner, 42 losers. I eat losers for breakfast.  
[Car accelerating] Breakfast. Wait, maybe I should have had breakfast. A little breck-y could be good for me. No, no, no, stay focused. Speed.  
[Cars whizzing] I'm faster than fast. Quicker than quick. I am lightning!  
[Pounding on door] [Male] Hey, Lightning! You ready?  
[Sheryl Crow: Real Gone] Oh, yeah.

Lightning's ready [engine revving] [Engine revs] [Crowd cheers] Ka-chow! [Cars zooming] [Cars whooshing]  
[Both scream] [All cheer] Get your antenna balls here! Go, Lightnin'! - Whooh! - You got that right, slick. [whistles] [Air wrench whirring] Uh! [screams]  
[Engine revs]  
[Male] Welcome back to the Dinoco 40 - [Crowd cheers] I'm Bob Cutlass, here with my good friend, Darrell Cartrip. We're midway through what may be an historic day for racing. Bob, my oil pressure's through the roof. If this gets more exciting, they're gonna have to tow me outta the booth!  
Right, Darrell.  
[Bob] Three cars are tied for the season points lead, heading into the final race of the season. And the winner of this race

will win the season title and the Piston Cup. Does The King, Strip Weathers, have one more victory in him before retirement?  
[Darrell] He's been Dinoco's golden boy for years! Can he win them one last Piston Cup?  
[Bob] And, as always, in the second place spot we find Chick Hicks. He's been chasing that tailfin his entire career.  
[Darrell] Chick thought this was his

year. His chance to finally emerge from The King's shadow. But the last thing he expected was... Lightning McQueen!  
[Bob] You know, I don't think anybody expected this. The rookie sensation came into the season unknown. But everyone knows him now.  
[Darrell] Will he be the first rookie to win a Piston Cup and land Dinoco?  
[Bob] The legend, the runner-up, and the rookie! Three cars, one champion!



# I am Speed Ok Here we Go



**BENJAMIN BEELEN**  
VP ACADEMIC

Focus. Speed. I am speed. One winner, 42 losers. I eat losers for breakfast. Breakfast. Wait, maybe I should have had breakfast. A little breck-y could be good for me. No, no, no, stay focused. Speed. I'm faster than fast. Quicker than quick. I am lightning! Hey, Lightning! You ready? Oh, yeah. Lightning's ready. Get your antenna balls here! Go, Lightnin'! You got that right, slick. Welcome back to the Dinoco 400. I'm Bob Cutlass, here with my good friend, Darrell Cartrip. We're midway through what may be an historic day for racing. Bob, my oil pressure through the roof. If this gets more exciting, they're gonna have to tow me outta the booth! Right you are, Darrell. Three cars are tied for the season points lead, heading into the final race of the sea-

son. And the winner of this race will win the season title and the Piston Cup. Does The King, Strip Weathers, have one more victory in him before retirement? He's been Dinoco's golden boy for years! Can he win them one last Piston Cup? And, as always, in the second place spot we find Chick Hicks. He's been chasing that tailfin his entire career. Chick thought this was his year, Bob. His chance to finally emerge from The King's shadow. But the last thing he expected was... Lightning McQueen!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
You know, I don't think anybody expected this. You know, I don't think anybody expected this. The rookie sensation came into the season unknown. But everyone knows him now. Will he be the first rookie to win a Piston Cup and land Dinoco? The legend, the runner-up, and the rookie! Three cars, one champion! No, you don't. What a ride! Go get 'em, McQueen! Go get 'em! I love you, Lightning! Dinoco is all mine. Trouble,

turn three! - Get through that, McQueen. - A huge crash behind the leaders! Wait a second, Darrell. McQueen is in the wreckage. There's no way the rookie can make it through! Not in one piece, that is. Yeah! Lightning! Look at that! McQueen made it through! Man, a spectacular move by Lightning McQueen! Yeah! Ka-chow! McQueen! McQueen! McQueen! McQueen! McQueen! McQueen! McQueen! Yeah, McQueen! Ka-chow! While everyone else heads into the pits, McQueen stays out to take the lead! Don't take me out, coach. I can still race! What do you think? A thing of beauty. -McQueen made it through! - What? He's not pitting! You gotta get me out there! Let's go! Get me back out there! McQueen's not going into the pits! The rookie just fired his crew chief. That's the third one this season! - He says he likes working alone. - Go, go, go! Looks like Chick got caught up in the pits. Yeah, after a stop like that, he's got a lot of ground to make up. Get ready, boys, we're coming

to the restart! Come on, come on, come on! We need tires now! Come on, let's go! - No, no, no, no! No tires, just gas! - What? You need tires, you idiot! Looks like it's allgas-and-go's for McQueen today. That's right. No tires again. That's a short-term gain, long-term loss, but it's sure workin' for him. He obviously knows somethin' we don't know. This is it, Darrell. One lap to go and Lightning McQueen has a huge lead. He's got it in the bag. Call in the dogs and put out the fire! We're gonna crown us a new champion! Checkered flag, here I come!



Upcoming Events Calendar							
<b>Wednesday July 18</b>  Course Critiques 11:30 AM - 1:30 PM CPH 1346  DIY Perler Beads 6:00 - 8:00 PM POETS	<b>Thursday July 19</b>  Charity Grilled Cheese  11:30 AM - 1:30 PM CPH Foyer	<b>Friday July 20</b>  TIKI-EOT  6:00 - 10:00 PM POETS	<b>Saturday July 21</b>  Rafting Trip!	<b>Sunday July 22</b>	<b>Monday July 23</b>  EngiQueers  6:00 - 9:00 PM POETS	<b>Tuesday July 24</b>  Director Appreciation  6:00 - 9:00 PM POETS	Check out up-to-the-day event postings on the EngSoc website at <a href="http://engsoc.uwaterloo.ca/event-calendar/">engsoc.uwaterloo.ca/event-calendar/</a>
<b>Wednesday July 25</b>  EngSoc Council Meeting #5 5:30 - 7:30 PM POETS  Coffee House 8 - 11 PM POETS	<b>Thursday July 26</b>  Let's Talk Mental Health  4:30 - 6:30 PM POETS	<b>Friday July 27</b>  Good Luck on Finals!	<b>Saturday July 28</b>  Good Luck on Finals!	<b>Sunday July 29</b>  Good Luck on Finals!	<b>Monday July 30</b>  Good Luck on Finals!	<b>Tuesday July 31</b>  Good Luck on Finals!	

# Planes: Fire and Rescue



**LIAM YEATES**  
VP FINANCE

Look at them go! Into the final lap. And here comes number seven... Dusty Crophopp?! And Dusty wins the gold! Go, Duster! Dusty, you were just a small-town crop duster who overcame impossible odds to win the Wings Around the Globe Rally. And now, you're an air racing legend. Well, Brent? I've had an amaz-

ing team supporting me every step of the way. The best coach, the best mechanic... and the best fuel truck that anyone could ask for. Hey, wait a minute. You're a gas consultant. That's correct. I've got gas. Awesome pic, Dust, except your eyes are closed. Racing with your eyes closed, huh? So, that's your secret. Yeah, you figured it out,

Chug. That was some pretty fancy flying, Dusty. Saw it all on my radio with pictures. You mean your TV. No, no. That's clearing up. My bumper was nearly corroded right through - All right - Dis-

gusting looking. Yeah, it was all rusty and blistered. I got it. Anyway, what else is going on? Dottie gave me some of that Rust-eze Medicated Bumper Ointment. Hows it look now? Looks great. Fine. Take a closer look. That's close enough. What was that? Didn't need to see that.

HEY, hey, guys, guys. Listen to this. "After his Red Bulldozer win, Dusty Crophopper..." That's you. "...returns to Propwash Junction..." That's here. "... where he will be performing "at their annual Corn Festival." They mentioned the Corn Festival? It's national news! Seri-

ously? That's great. Yeah. The phone's been ringing off the hook here at the motel. Gonna have to get out the inflatable hangars. Yeah, everybody wants to see you, Dusty. It's gonna be the biggest Corn Fest yet. Dusty! Ready to do some flying? Absolutely, Skipper. Don't stay out too late. Later, Dust. Remember to open your eyes.

Hey, Propwash Tower, this is Crophopper Seven. Flight of two, ready for takeoff Crophopper Seven, Propwash Tower. Wind's calm. Runway two-seven clear for takeoff.

## Fly With Passion Fly with Grace



**GRANT MITCHELL**  
VP COMMUNICATIONS

Ladies and gentleplanes. May we have your attention, please? Kindly direct your windscreens to the heavens above and give a warm welcome to our special guest. The Prince of Propellers. When he's speeding, he's leading. Get my good side, fellas. When he's grinning, he's winning. The one and only - Ripslinger! - (CROWD CHEERING) You're caught in the riptide! (CHUCKLES) - Thanks for coming out. - (DOTTIE COUGHING) Who wants a picture? All right, one at a time. Well, with all that self-promotion, at least he's modest. Dottie, that's Ripslinger. He's captain of Team RPX. They call him... BOTH: The Green Tornado. Oh, he's so good, he's pre-qualified. Oh. And those two, Ned and Zed. BOTH: The Twin Turbos. They're world-class racers. You know, I hear they used to be one plane and were separated at birth. Wow. I wish I was separated at birth. Okay, people. This is the last of four time trials being held worldwide. Today's qualifying round is one lap around the pylons. The top five finishers will qualify for the Wings Around the Globe Rally. Oh, yeah. Fonzarelli, you're up, my man. (SPITS) Oh, man! That's nasty. And he's through the start gate! The racers must pass through the blue pylons on the horizontal and around the red pylons on the knife-edge. Now he's coming back to Gate Three! Nicely done, my man. Setting himself up a little high through the blue pylons there, lining up for the quadro. He's taking a hard right with a 270-degree high-G turn! Yeah! Back all the way around. Whoo! - Cleanly through.

Ha! Look at you, man! - That guy's good. It doesn't get much better than that. All right. Good speed. Lining up

for the three-pylon chicane, amazing pitch control. Smooth! Fast! Clean! He's going into the final turn, into the half-Cuban 8, pulling an aggressive 9.2 Gs. Attacking the climb! Wow. Now that's some speed. Coming out of the Cuban 8 at the end of a fantastic first run, people. A 01.24. 16. A very good time for the other racers to try and beat. Fast, tight through the pylons. He's got a great pace going, here. Hes just a half a second behind. - Oh! Engine failure! - CROWD: Oh! Out of the race. Bye-bye. Great performance. Watch the clock here. I can't wait. Lining up for the Blue Gate. Oh, no, he did not! That's a major penalty. - Sorry, dude. Eighth place. - (GROANS) Talk about fast. Coming out the Cuban 8. Fueled and ready, man. Okay, bud, you're up. Good and tight. - All set. - It's been a wonderful day here, and we're down to our last competitor. This is it. From

Propwash Junction, Strut Jetstream. "Strut Jetstream"? Yep. Awesomest call sign ever. (CHUCKLES) It was my idea. - Ah. That explains it. - Hey, airplane! Landscaping was yesterday, man. Get off the runway. We're racing, here.

Second call for Strut Jetstream. - No, no, no! - Looking for... - Yo! I'm Strut Jetstream. - You are Strut Jetstream? - Yep. A crop duster? Man, what's going on here? Is everybody getting to fly today? Man, your momma must have had high hopes for you. Now, you know you are built for seed, not speed. You have got to be kidding me. - That farmer's going to race? - (LAUGHS) Go on Dus... Go on,, Strut., - (PLANES LAUGHING), - PLANE 1: Who's that guy? - You're going to try out? - PLANE 2: A crop duster? FORKLIFT: Cornfield is over that way. Nice of you to take the day off just to lose! (ALL LAUGHING) Go, Duster! It's going to be a tall order

for him to knock Fonzarelli out of fifth place. And he's off! Well, he's starting a little conservative. This ought to be rich. 193 miles per hour. He's into Gate Two, clean through the horizontal. What? He's practically mowing the lawn. Come to my house, man. Okay. At the first split, he's a full second behind Fonzarelli. Yo, that's a lot of time to make up, but this guy's aggressive.

Now he's making that hard 270-degree high-G turn! Whoo! That's it! Setting himself up. Left vertical turn. Lining up for the three-pylon chicane. He's gaining speed. Now, he's only half a second behind Fonzarelli. And he is closing rapidly. Now he's back on that stick. Up he goes! Up and away! Now only two-tenths of a second behind Fonzarelli! - Come on, Duster! - Oh, it's going to be close. He's going to do it. He's going to do it. Oh, yes! What a finish! Now, that's what you call flying!

**KITCHENER WATERLOO**  
**TRAVEL**  
**Clinic**

Travel Vaccines  
& Advice  
by Appointment

Health Canada Certified for Yellow Fever

**519.570.4208**  
**www.kwtravelclinic.ca**

**Physicians Certified in Travel Medicine**



**ASHLEY CLARK**  
VP STUDENT LIFE

This is Agent Leland Turbo. I have a flash transmission for Agent Finn McMissile. Finn, my cover's been compromised. Everything's gone pear-shaped. You won't believe what I found out here. This is bigger than anything we've ever seen, and no one even knows it exists. Finn, I need backup, but don't call the

cavalry, it could blow the operation - and be careful. It's not safe out here. Let's go.

Transmitting my grids now. Good luck. All right, buddy, we're here. Right where you paid me to bring you. Question is, why?

I'm looking for a car.

A car? Ha!

Hey, pal, you can't get any further away from land than out here. Exactly where I want to be. I got news for you, buddy. There's nobody out here but us. What are you doing out here? What does it look like, genius?

I'm crabbing. Well, turn around and go back where you came from. Yeah, and who's gonna make me? All right. All right. Don't get your prop in a twist. What a jerk. Sorry, buddy. Looks like it's the end of the line. Buddy?

Incoming. All workers report to the loading dock. Leland Turbo, this is Finn McMissile. I'm at the rally point. Over. All right, fellas, you know the drill. Leland, it's Finn. Please respond. Over. Come on, guys. These crates aren't gonna unload themselves. Too many cars here. Out of my way. Professor Zndapp?

Here it is, Professor. You wanted to see this before we load it? Ah, yes. Very carefully. Oh, a TV camera - What does it actually do? - This camera is extremely dangerous. What are you up to now, Professor? This is valuable equipment. Make sure it is properly secured for the voyage - You got it.

Hey, Professor Z! This is one of those British spies we told you about. Yeah! This one we caught sticking his bumper where it didn't belong. Agent Leland Turbo. It's Finn McMissile! He's seen the camera! Kill him! All hands on deck!

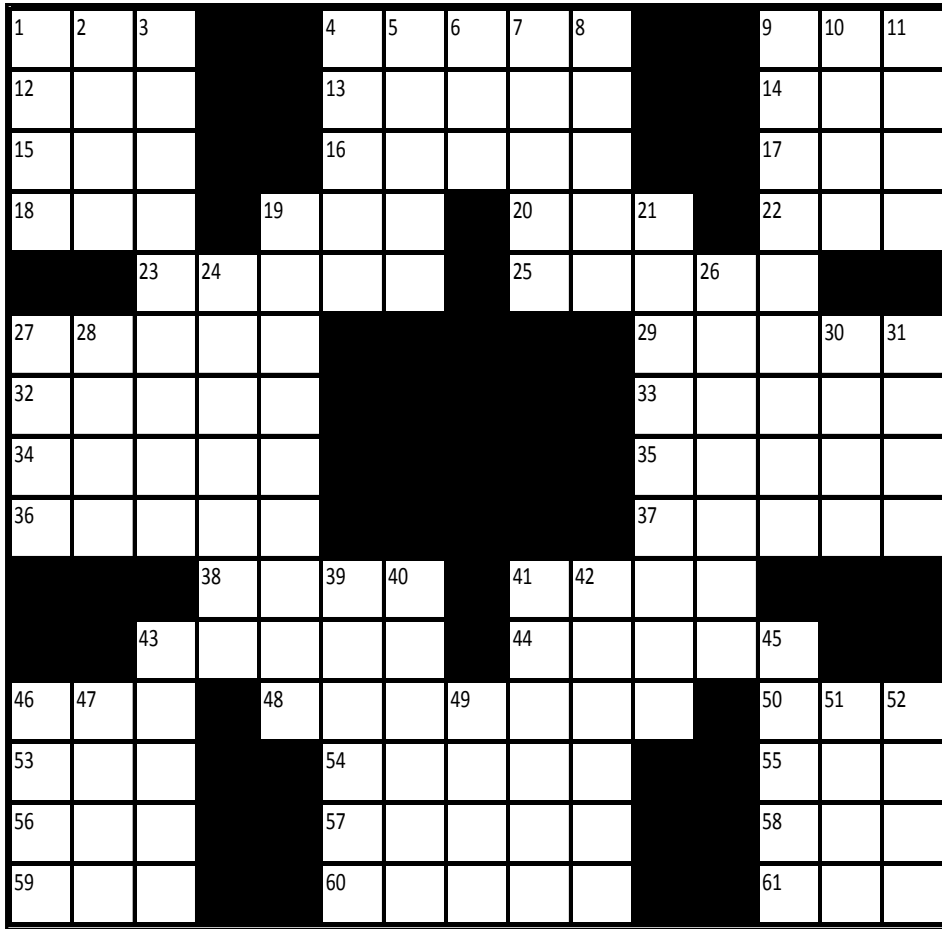
## Cars 2

### Kachow 2: Electric Boogaloo

# The Iron Crossword

Foods of the World

**SAMRIDHI SHARMA**  
3A CHEMICAL



**ACROSS**

- 1:** A male sheep  
**4:** A Coalition of the leading organizations in the world in the fight for FREEDOM.  
**9:** Dark brown or black viscous liquid used in preserving wooden sailing vessels  
**12:** A type of infection affecting the bladder  
**13:** Related to the water and ships (plural)  
**14:** Consumed food  
**15:** A member of a religious community of women  
**16:** Be carried slowly by a current of air or water  
**17:** Feminine pronoun  
**18:** Gas Liquid Chromatography (abbr)  
**19:** Not a dog  
**20:** Document developed for each public school child who needs special education (abbr)  
**22:** Sports channel, tagline : Real Sports Real Time  
**23:** Online shower  
**25:** Reward for excellence

- 27:** Anthony Garciaparra’s middle name  
**29:** An ancient Egyptian prince known for his seated scribe statuette.  
**32:** \_\_\_\_ boo!  
**33:** Yani \_\_\_\_, Taiwanese pro golfer  
**34:** A sacred song or hymn  
**35:** Not on land (2 words)  
**36:** \_\_\_\_ wound to the stomach could be fatal (2 words)  
**37:** All external sources must be \_\_\_\_  
**38:** Emptiness  
**41:** Jane Doe, but male  
**43:** \_\_\_\_ Lama, spiritual leader of Tibetan people  
**44:** Electronic signature (abbr)  
**46:** 4-wheeled domestic vehicle  
**48:** Change with the changing environment (2 words)  
**50:** Unagi sauce goes great with this  
**53:** Second largest living bird  
**54:** Zambia’s most northerly large town  
**55:** Public service announcement (abbr)  
**56:** Prefix meaning negative

- 57:** An ancient Greek epic poem attributed to Homer  
**58:** Donkey  
**59:** Inquire  
**60:** A type of tool used to grip and lift objects  
**61:** Short for latissimus dorsi

**DOWN**

- 1:** A step on a ladder  
**2:** \_\_\_\_ Gawande, author of “Complications: A Surgeon’s Notes on an Imperfect Science.”  
**3:** spicy preserve containing candied and dried fruit, and suet and spices steeped in spirits  
**4:** Abut, to \_\_\_\_ a boundary (2 words)  
**5:** National Association of Research & Therapy of Homosexuality (abbr)  
**6:** Drunk-driving  
**7:** Tolimense Institute of Professional Technical Training (abbr)  
**8:** A wireframe, mockup and prototyping tool  
**9:** Sampling food  
**10:** American Truck Historical Society (abbr)  
**11:** A wounding cylinder  
**19:** Star fruit  
**21:** Hard shelled nut, green inside  
**24:** Dessert pastry made of layers of filo  
**26:** Showing great energy and enthusiasm  
**27:** National Press Photographers Association (abbr)  
**28:** Ottawa East Schooling Show (abbr)  
**30:** Joint in your leg, has a cap  
**31:** At once, in Filipino  
**39:** Confessing in first person (2 words)  
**40:** Action role-playing hack and slash video game developed by Blizzard North  
**41:** Physiological condition caused by rapid long-distance travel  
**42:** Master or expert in Urdu  
**43:** Liquid food must be \_\_\_\_  
**45:** Country with Mt. Everest  
**46:** John \_\_\_\_, a beloved wrestler turned actor  
**47:** One of Twelve minor prophets, was a sheep herder  
**49:** Ache  
**51:** Township in Ontario containing Thornton community  
**52:** Final

# Sudoku

#2018-10

**HASAN AHMED**  
EDITOR-IN-CHIEF

Belgium

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

Croatia

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

France

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

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

**IRON INQUISITION**  
Hasan Ahmed - Editor-in-Chief

## “What’s the Weirdest Thing You’ve Eaten as a Kid?”



*“I ate like 10 marbles as a kid.”*  
Benjamin Beelen, 3A Environment



*“Glue. Elmer’s goes down smoothly, but Gorilla is too spicy.”*  
Christian Crimi, 2B Nanotechnology



*“I licked the floor yesterday.”*  
Olivia Cao, 4A Software



*“I took up Bart Simpson’s offer to eat his shorts”*  
Maddy MacKinnon, 2A Biomedical



*“Fresh, living eel from the ocean on a fisherman’s boat.”*  
Netta Zhang, 2A Biomedical



*“Ketchup and Rice”*  
Zain Denno, [REDACTED] Computer