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THE CARLETON STUDENT ENGINEERING NEWSPAPER

THE IRON TIMES

THE IRON WELCOME

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SEPTEMBER 2018



Engineering students old and new, welcome to a brand new year in C-Eng! I hope you're all as excited as I am... though to be honest, that level of excitement is a little excessive, and I don't blame you if you're a tad more subdued than this NERD over here.

Speaking of this nerd... who is she? Do you know her? You do now! My name is Caroline Lenarcic and I'm this year's editor-in-chief of the Iron Times. In collaboration with editors, columnists, the CSES VP Publications, and various other contributors, I will be bringing you this newspaper once a month. For your information and for your entertainment, the Iron Times is here, providing updates on clubs and societies, reports from engineering events, fun and often raunchy think-pieces, and a sample of engineering student voices in the form of the monthly C-Eng Speaks.

This paper is here to be your voice. Use it to express your opinions, share your stories, or give advice. Use it to make readers think or to make them laugh. The Iron Times belongs to the people, and it is my honour to support you and help your words come to life. Hope to see you in the irontimes@cses.carleton.ca inbox in the future!

Now that I have shamelessly

plugged the newspaper that you're already reading, allow me to offer some do's and don't's to get you off to a good start this year. Whether this is your first year or your fourth (or fifth... or sixth... or seventh...?!), there are always new things to be learned. Here's what I've got:

DO try hard in school! Some people will act like it's cool to not give a fuck and just coast through your program. This may work for some people, but you won't reap the benefits of learning if you don't put in your best effort. Take pride in your work, dammit. You can still find time to party later.

DON'T cut yourself off from others! This is a bad habit that first years can fall into. If you live on residence, it's easy to retreat to your room after your lecture lets out. Heck, I even knew people in first year who trekked all the way back to Orleans between their classes. Why shy away? Some of the best friendships are forged in those eight-hour breaks between the two lectures you have on Tuesday (gotta love the block registration, right?). Make a study group, explore the campus, or go run some errands with a friend. It's more fun than being alone.

DO get involved! This is hands-down the most common piece of advice you'll hear from any upper year ever, so allow me to add a fresh caveat. While it is important to join extra-curricular activities, **DON'T** get discouraged if it doesn't work out the way you plan. You may apply to positions and not get them, or you may just feel so overwhelmed with courses and new routines that you're not ready to commit to something new. Ever wonder why you never heard of a Caroline Lenarcic until now? Guilty as charged. When in doubt, just go hang out in Leo's. I can guarantee everyone there is ready to befriend you, and you'll hear tons of buzz about activities and clubs you might join in the future.

Finally, **DON'T**, under any circumstances, use the Azrieli tunnel-level bathroom. You think I'm kidding? I could not be more serious. Unless you want to encounter the world's most comprehensive collection of bodily fluids and odours, do not enter. Scout out another bathroom that works for you. You're on your own there... I'm not willing to reveal the location of my secret oases.

For better or for worse, you are here! Make the most of it.

READ ON, I DARE YOU

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AND MUCH MORE!



WARNING:

This publication may contain offensive material. It should not be read by anyone who is easily offended. All opinions expressed within are solely those of the contributors; they do not reflect the views of the Carleton Student Engineering Society. This paper is purely satirical in nature and is not intended to be malicious in any matter.

If you wish to express your views on the content within, please email us at irontimes@cses.carleton.ca.

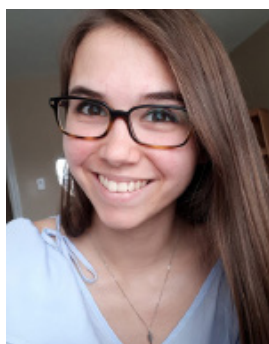


EDITORIALS

LIKE GABE KARAM, ONLY STRONGER

super hyped!

From the Desk of the^Editor



Caroline Lenarcic
- AERO C III -

Autumn is without a doubt my favourite season. The temperatures are moderate, there's no pollen out to kill us, and the fall colours of the changing leaves never fail to take my breath away. It's a peaceful lull between the summer heat and the winter storms, and it's the season that contains both my birthday *and* Halloween. While these are all solid reasons to love this time of year, my #1 favourite part of fall has always been Back to School season.

No matter what point of your academic life, Back to School season carries a special significance. It's the real New Year where we're all given a chance to try new things, rack up a horrifyingly large tab at Staples (or maybe that's just me?), and re-invent ourselves as we continue to learn and grow as individuals. The new routine of a fresh school year is as exciting as it is daunting, especially for those of you starting university for the first time (hi Froshlings!).

My first September in C-Eng remains one of the highlights of my academic life. I still remember the album that served as the soundtrack to my daily commute (*Language and Perspective* by Bad Suns), my first ever lecture (10:00 AM Linear Algebra in Bell Theatre), and the first person I met at frosh (Isaac Csekey, who, like me, mistakenly showed up an hour early for opening ceremonies). Every time I feel that

autumn chill rolling in, it takes me back to my early days as an engineering student, and it reminds me of how my expectations differed to my new reality.

In terms of the actual "going to class" part of the experience, it wasn't quite as scary as I anticipated. I had been warned that when I started university, I would be surrounded by a swarm of Type A know-it-alls whose intellectual prowess would intimidate all the confidence out of me. Turns out, we ain't all geniuses (see the C-Eng Speaks, where many of you claimed that's the greatest myth about engineering students). Also, everyone comes from different school boards around the country, and we didn't all learn the same things in Grade 12. Much of first year education is *re-education* and a levelling of the field so that everyone can start second year with a solid knowledge base. And thank goodness for that, because adjusting to a new school with an entirely new routine and thousands of new people is hard enough without needing to teach yourself crazy advanced shit just to pass your classes.

For many first years, the start of university is also the start of life on your own. I can't really speak to that experience, since I still live at home in good old Boreleans, but I can say that Ottawa is a great city in which to start your adult life; it has all the transit difficulties of a big city while still being relatively small and calm! Plus, Carleton's campus is in a beautiful area of the city and has three buses and one train to take you anywhere you need to go. For my friends who are still Stuck in the Suburbs (shout out to the 2004 Disney Channel Original Movie), going to university means you get to see parts of your hometown you've never seen before and gain a newfound independence as you spend about



10 hours a day at school and in the surrounding areas.

Before I started in C-Eng, the biggest wild card was the other students. The unique thing about first year is that nobody knows you, so whoever you were in high school doesn't matter. Despite this, I was worried that I was going to fall into the same category I did before: nerdy smart girl who's your school friend but you never hang out outside of class. I thought cooler, more interesting people would gravitate toward each other and I would get left behind. As it turns out, we're all cool, interesting, and weird people here! There is remarkable diversity in the types of engineering students you meet: singers, musicians, artists, designers, math geeks, writers, athletes, and even females! (Women in STEM is a topic that is very dear to my

heart and I'll probably bring it up a lot.) What unites us is our acceptance of one another, or sense of humour, and our ability to have fun. We're here for a good time and a long time, and we're all going to support each other along the way.

Many of us found ourselves coming to Carleton Engineering for the same reasons: we wanted to be able to get a well-paying job, we were good at math and science, and well, engineering sounded pretty rad. I don't think many of us knew exactly what we were getting ourselves into (I know I sure didn't, and I still don't). Personally, the more I advance through my program, the happier I am with my choice. I hope you are too. C-Eng is a home, a family, and a way of life, and I couldn't be happier to be back at school.

EDITORIALS

THIS WHOLE ISSUE IS ONE GIANT ADVICE COLUMN



Elizabeth Wilson
- SOFT II -

Hello new & returning C-Eng! I'm Elizabeth and I recently did that whole first year thing so I've decided to let you in on some fun #lifehacks I've learned.

If you're heading into first year -- or an upper year -- you've probably heard all the ~generic university advice~ out there. Go to class, sit at the front, meet your profs, get involved... this isn't that. From someone who passed (most) of first year, here's some advice that you'll actually use as you continue to skip your TSEs in favour of naps in your res rooms and hanging out in Leo's.

1. DON'T GO TO CLASS IF IT DOESN'T HELP

I'm serious. If you find yourself falling asleep and browsing *insert social media site all the kids are using* then you might be better off staying home and doing your notes and homework that way. I would definitely suggest going to class first, you can also find alternate lectures through your friends if it's just a certain professor's teaching style you don't follow, but if you genuinely get more done at home, don't feel guilty doing what works best. Don't skip your labs though. Never skip your labs.

2. SPORTS! ATHLETICS! SPORTS! SPORTS! ATHLETICS!

You're paying a couple hundred for a membership to a gym you don't even have to go outside to get to, might as well use it. "BuT eLiZaBeTh I dOn'T lIkE eXeRcIsInG!!!" Hear me out. I'm not saying you have to



be running marathons or benching your bodyweight at 6am, but grab some friends and send it off the rope swings during a free swim or rent out a squash court. Have fun with it. Enjoy the services you have access to over these next few years.

3. DITCH THE STUDY HACKS

We both know you're going to eat all of those gummy bears before you even finish the first paragraph. That chewing gum will get gross before the three hours is up and everyone sitting around you will hate the sound. Just like point #1, actually learn what's best for you, not what BuzzFeed tells you is best for you. There's no "magical hack" that'll save your mechanics mark the night before the final.

4. MIDNIGHT CAF SNACKS

If you've toured Carleton, you probably heard that you can order boxed meals from the caf and, if you're anything like me, you've probably forgotten that. All you have to do is put in an online request 48 hours in advance and you can pick up your

meal the day before. Why do I tell you this? Well, the you waking up Sunday morning may not feel like dragging yourself to 7am breakfast in the caf, but the you returning at 2am the night before would've probably appreciated the sandwich, especially since Oasis is closed...

5. LEARN TO SAY NO

Taking a more serious turn for something that seems super obvious but that is so so so important: Learn to say no to that hangout when you have a test tomorrow, to that person who makes you uncomfortable hanging around, to that good friend you know wouldn't make a good lab partner, to that drink you don't want to have. Learn to say "No." clearly and firmly. You owe no explanation. Learn to do what is best for you, don't let that fear of missing out screw you over. A few nights out are not worth an extra \$12k in tuition. On the flip side...

6. LEARN TO ACCEPT NO

This one is even more important. Learn how to recognize and accept rejection, in all its various forms. No means no, but so does "Not now," "I have

homework," "I'm too tired," and any other excuse one might give. No doesn't mean "try harder" or "pressure more" or "trick into." If they aren't comfortable or able to say "no" outright, that doesn't make it a yes, and you are not owed any explanation.

7(+). FINAL SPEED ROUND

Set your schedule as your lockscreen for the first couple weeks (you WILL forget where your classes are), hang dryer sheets off of fans and vents because you can't use candles and your res room probably smells gross, sheets and towels should be washed once a week, wear flip flops in communal showers, complaining about ~the ratio~ will make you experience the worst of it, download the Carleton app (it has a map and your grades), make good friends with similar goals, and don't overwhelm yourself by getting too involved.

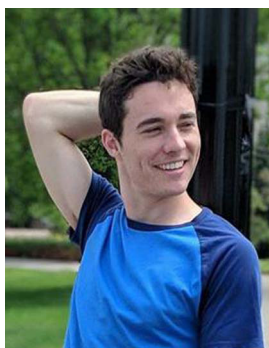
Welcome to the 2018-2019 school year, friends. Whether it's your first or your 8th year, it's never a bad time to change things up. Be smart, be safe, try new things. Have a zesty one, C-Eng.

SNACKING TIPS ARE THE BEST TIPS



COLUMNS

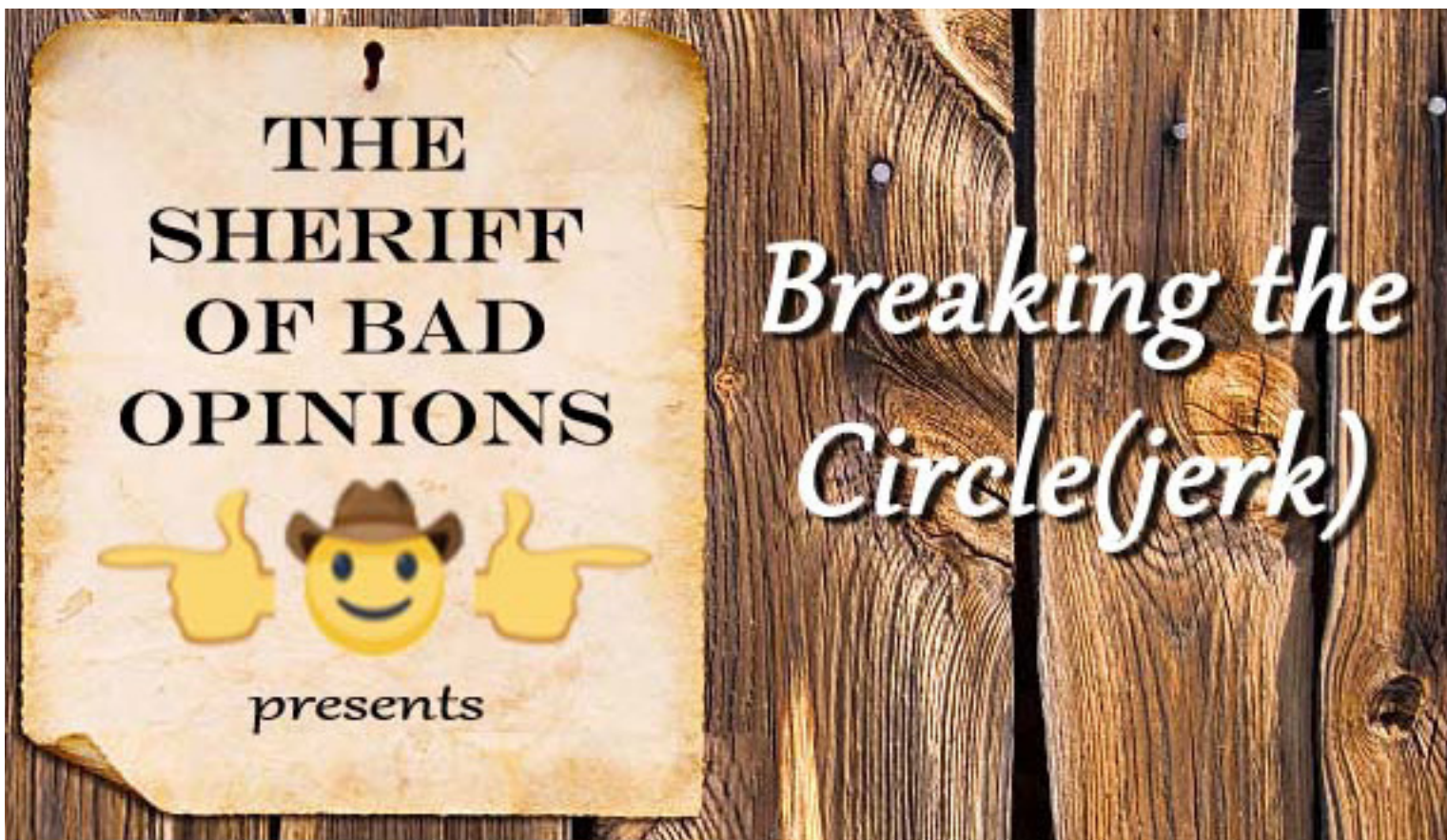
THERE'S A NEW SHERIFF IN TOWN



Kevan MacKay
- ENG PHYS V -

It might be worth a reminder that we're just a bunch of undergrads barely keeping it together and not the end-all-be-all of academia. Engineering can (on occasion) feel like a lawless vortex of elitism and condescension, but you don't have to contribute to that. We've all had douchebros throughout high school, but it gets way more obvious the second you step foot in Mackenzie. You'll see it in the person who talks through ELEC 2501 even though it's not their section. You'll see it in the person who gets into an argument with your CCDD prof when they refuse to use Word instead of LaTeX. And you may see it this Saturday when someone tries to call all the shots for boat-building (we do our best to make sure that doesn't happen). As a faculty, we sometimes let our love of aggressively niche memes and inside jokes turn into a full-on STEM circlejerk that can be overwhelming for first year eng-students and outright dismissive of other departments. Like I get it, haha arts majors are going to be working at McDonald's or whatever, but at least they'll leave Carleton knowing how to write a coherent cover letter. Tech firms make their investment back on graphic designers almost solely because of the fact they know to not to put purple text on a black website. The truth is, a STEM-only education is not enough to run a productive society, and going into your degree dismissing the strengths of other departments and inflating your own leads to nothing good. You'd be dismissing the HR reps setting up your job interview, the marketing department that sells your products, or the designers who make your website look better than the one you made in 9th grade (*cough* www.bobby-broccoli.com *cough*). The circlejerk at the small scale will turn you into someone who is agonizing to work with, and on the worldwide stage it will lead to a society whose innovations forgo any consideration of sociological consequences.

Recent Silicon Valley start-ups are



so intent on replacing what they see as redundant wastes of resources that they don't consider the tremendous loss of jobs they would be contributing to. Like the outrageously named 'Bodega' that aims to eliminate mom-and-pop-run corner stores with a glorified vending machine, solely in the name of "innovation." It's a special brand of out-of-touch arrogance you have to possess to both "invent" something that has existed for decades and try to eliminate an entire business model in the process. We're good at writing algorithms and designing airplanes, but with little regard for how they're going to be used and by who, and the ripple effect they will have on society. The personal-data mining that led to the Facebook-Cambridge Analytica scandal comes to mind. Engineers who invent without considering unethical uses of their tech is how you end up with governments using facial recognition software to identify protesters in crowds. It's how you wind up with nuclear weapons, a technology so powerful that the only non-suicidal use for them is to convince other countries not to use them. "Your scientists were so preoccupied with whether or not they could, they didn't stop to think if they should." With respect to Jeff Goldblum, if society is going to collapse I'd prefer a really cool dinosaur-centric way.

It doesn't help that the most successful and popular engineering icons are notoriously hard to work with, or ruthless in their tactics. Steve Jobs, for all his charisma and smarts, was an opportunistic businessman who took the work of Xerox employ-

ees to launch his company into success. Elon Musk, for all his talk of the noble pursuit of science, spends most of his time fishing for attention on Twitter. Like his proposed underground-bus-system-that-isn't-a-bus-system, or the time he went as far as to slander a Thai rescue official because they didn't use the submarine they didn't ask him to make. All of this is to say that maybe engineering has a problem with role models, and that translates downwards to its students. Like even with Carleton itself there's a pecking-order that is not so seriously enforced (pour one out for all the Civils). So, let me take some time to address my own stream for a bit.

The Eng Phys circle jerk is probably the worst of the bunch, so much so that Carleton literally uses the word "elite" on our stream overview page. We used to be a very small program, with only 4 students graduating the first year it was around, but we've grown by many times that size now. It's great that you made it into the program, but you're also not that special. Most of us have no idea what we're doing, and a lot of us end up switching to electrical anyway. If you're like me then you probably got talked into joining by Tom Smy because he convinced you that there are no jobs in pure physics (without a Master's at least). In reality, you're not going to have a sense of what your program is actually training you for until 3rd year, so when people looked baffled when you tell them your stream, be honest and say you don't know what you're getting into either. And just because

you have people shuddering at the name of your stream doesn't mean you should let it go to your head. I once overheard some pure-physics students talking about the hierarchy of different programs, with the highlight of that conversation being "Eng Phys are probably the best of the engineers but the lowest of the physics programs," which is a pretty good reminder of where we fall on the arbitrary academic totem pole. Sure, we take some high level physics courses most streams don't, but we also get our asses handed to us in CHEM 1101 and barely touch thermo and power. AERO D students have to take the same EM waves class as us without knowing Maxwell's equations, and that's about the most unfair thing I've seen all of undergrad. We don't even take the course that tanks most first years' GPAs and instead have a pass-or-fail TSE test. I'm extremely happy with my choice of program, but I quickly learned that it is still largely up to study habits when it comes to the 2nd year struggle of finding a co-op, and not just name of my stream.

So regardless of whether you're arguing with your company's marketing team or fighting over the best way to make your boat this coming Saturday, try and take a step back and let other people bring their strengths to the table. Truly beneficial engineering is as much as a collaboration between engineers as it is with sociologists, business majors and yes, even PAPM. Otherwise you might end up like Elon Musk: outrageously wealthy but out-of-touch, overconfident and desperate for Reddit's approval.

COLUMNS



FEAT. MAGGIE THE GAY ICON

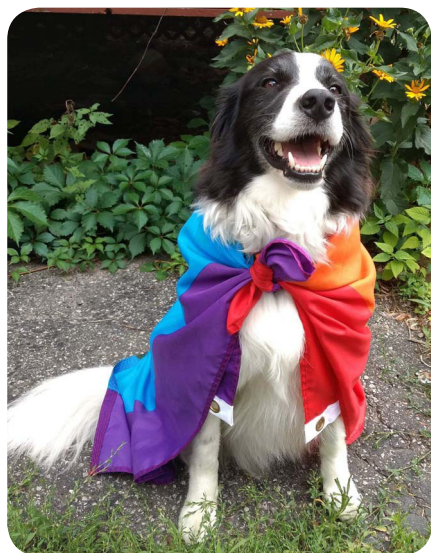


Caroline "Life of Pi" Deluce
- ENG PHYS III -

Welcome to Carleton my first year friends! I hope you're all prepared for possibly the craziest and most exciting year you've ever experienced so far. A lot changes from High School to University, I went from having straight As and now I'm not even straight! (Well actually I had a mix of As and Bs, but you get the point). I know it can seem frightening being in a new place and not knowing how people will react to your identity, but having "been there done that" I can assure you that everything is going to be okay. Scratch that, it's better than okay. It's fucking great. It's great because people will accept who you are, heck even the Faculty of Engineering and Design is very welcoming towards the LGBTQ+ community (shoutout to FED for liking CUE's Facebook posts, thank you!). The best part is that once you accept who you are, your whole world will change for the better, trust me. Whether you're out, in the closet, or even just starting to question your identity, there will always be people who care about you, and you will find a lot of those people right here in C-Eng. Now I know you will come across some situations that seem difficult to handle, and I remember feeling very lost my first year out of the closet. However, we are here to help. Below is a very brief guide on how to handle certain situations you may face.

1. HOW TO TELL A ROOMMATE THAT YOU'RE QUEER This may be a fear that you already have. I know I was worrying about this before even coming to Carleton. Honestly it is up to you how you want to handle this situation. Don't feel pressured to tell your roommate if you really don't want to! If you do want to tell them but you're a bit nervous, here are some suggested steps to take. After you get to know them, you

can speak to your Residence Fellows about how feel and why you're nervous. They are generally great to talk to about any kind of situation involving your well being. From there, you can tell your roommate on your own, or if you are uncomfortable with that, you can ask your RF to be there while you tell them. Now this is 2018, and we're in University, so I guarantee you that they will be fine with it! On the rare, rare chance that they are not, your RFs can help handle it from there. Plus you never know, your roommate could be queer as well. It happens more often than



you think!

2. HOW TO EXPRESS YOUR IDENTITY WHILE LIVING AT HOME Ah parents, we love them and all, but some of them need to get with the times! Telling your parents that you are queer takes patience, and only you will know the right time to tell them. However, if you feel you are ready to express your identity to the world but not at home, here are a few ideas on little things you can do to be your best self. First off, invest in some undergarments that you want to wear. After class, hit up Walmart for some cute bras or lit boxers (I have their Deadpool boxers and they are amazingggggg), plus parents aren't likely to notice you wearing them. Have a locker at school? Keep some clothes in there that you think will suit you best and change into them once you get to campus. Other ways to help you feel comfortable while at home are changing up your hairstyle, investing in perfume or body spray or both, using products like moisturizer, shaving cream, etc. If you are ready to express yourself, us in C-Eng are

ready to support it! Now I myself am not transgender, however some great folks to speak to about more trans tips can be found at the Gender and Sexuality Resource Centre (GSRC), UC 427.

3. QUESTIONING YOUR IDENTITY Unfortunately, Ellen did not jump out of my closet with rainbow confetti to tell me that I was a lesbian. I wish it was that easy. It took me a long time to realize that I am gay, as I had been dating a guy for a year when I started to know that I wasn't exactly straight. And by exactly I mean not at all.

could let your close friends and RF's know your pronouns, so that way when they talk with you or about you in conversations with other people, everyone will refer to your pronouns by default! The biggest encouragement that I can give you is that the majority people will respect you, because again it's 2018. If someone doesn't respect you and your pronouns, not only are they not welcome in the C-Eng community, but under the Canadian Charter of Rights and Freedoms it's the law, so they are legally in the wrong. As I mentioned earlier, I'm not transgender, however

C-ENG and the LGBTQ+ community



However, it is okay to not know how you identify. As a society, we like to put things in boxes and label them, which includes labeling people too. We do this a lot. But you know what, who cares about imaginary boxes! Recycle them! Don't you ever feel that you have to pick an identity, because you feel how you feel, the label isn't important. You are important. So if you are feeling confused, or lost, or frustrated because you can't figure yourself out, give it time. It will all make sense eventually. If you're curious, don't be afraid to experiment a little. University is the time to step out of your comfort zone and try new things!

4. HOW TO LET PEOPLE KNOW YOUR PRONOUNS This is another one of those situations that only you will know when you're ready. One of the best parts about University is that it's a clean slate, meaning that everyone is new! You are free to be who you are. If you're too nervous to tell everyone your pronouns upfront, there are some other ways to let people know who you are. You

the Gender and Sexuality Resource Centre (GSRC) in UC 427 is a great resource to visit (and they have lit couches too!).

5. HOW TO GET INVOLVED WITH THE LGBTQ+ COMMUNITY For those of you who don't know me, my name is Caroline. I am currently the President of the Carleton University EngiQueers (CUE), along with our five Vice Presidents; Jasmine (Internal), Dency (Finance), Sam (Events), Maddie (Publications), and Teagan (LGBTQ+ Awareness). We are a group who runs social and educational events throughout the year for everyone to enjoy! Some of our events include Colour Me Queer (lab coat tie dyeing), Frost Week Film Fest for bad films, Scrooged (eng-wide secret Santa), Paint Night, CUE & A, Pub Night, and so much more! We are looking for a First Year Director, so if you want to get involved or just need some support, please email us at carletonengiqueering@gmail.com. Stay tuned on our Facebook page (Carleton University EngiQueers) for future events!



COLUMNS

SUSTAINABILITY

Building a Better Future



Janet Shaw
- CIVE IV -

Canada has invested in multiple green initiatives including giving all Canadians access to affordable, reliable and sustainable energy, ensuring all species have healthy and viable populations, ensuring all Canadians live in clean and sustainable communities that contribute to their health and well-being, and lowering Canada’s greenhouse gas emissions, as well as a long list of others.

In support of lowering greenhouse gas emissions, the Canada Green Building Council has created a Zero Carbon Building Standard. A zero-carbon building is defined as one that is highly energy-efficient and produces onsite, or procures, carbon-free renewable energy in an amount can offset the annual carbon emissions associated with building operations.

So why did this initiative start? As part of a global goal, specifically laid out in the Paris Agreement to combat climate change and to intensify the actions needed for a sustainable low carbon future. The green building organizations around the world are supporting the objective of eliminating greenhouse gas emissions associated



Source: <https://www.netzeromohawk.ca/mohawk-helps-sets-new-standard-for-green-building-innovation/>

with the operation of new buildings by 2030 and eliminating the greenhouse gas emissions from all buildings by 2050.

You have to realize that this is only the beginning; while I say there are “Net Zero Buildings,” in reality carbon is still used to construct them, but the goal is that the renewable energy produced during their operation outweighs the carbon-based energy used to construct and maintain it. Therefore, by 2050, the goal would be to eliminate carbon entirely from this process.

A new building of this type is being built in Hamilton Ontario by B+H, McCallum Sather Architects and WalterFedy. I got to attend a conference on it back in April of this year, where the Chief Building & Facilities Officer, as well as the designer spoke about its construction. The idea when building a structure like this is to keep in mind that there are essentially two budgets one for the cost- one is for the building itself, and the other for its energy usage. This means that all team members’ focus must be on ensuring that they will be able to realistically offset the energy produced during its construction and operation. The energy target for this project is to have less than 75 equivalent kilowatt hours/m2 every year; to put this into perspective, the average college uses 261 equivalent kilowatt hours /m2 every year. This means that the new building will use less than one third of the energy of an average campus building.

system of up to 342 000L, 1900 solar panels, sensor-controlled LED lighting, and daylighting. As well, the building is set up such that each part can be isolated. This way, if a part is not being used, it doesn’t contribute to the energy bill.

But, what I found really interesting, is that the building does not only use technology to ensure minimal energy usage, the occupants also collaborate to achieve this low energy goal. Submetering was installed in different rooms around the college to monitor energy usage, so this way the occupants can see if they’re using more or less than their neighbors, creating a competitive and positive environment for lowering energy usage.

The grand opening of Mohawk College, Canada’s second Zero Carbon Building is September 4th 2018- this is how Canada is building a better future.

See more about this project at: <https://www.netzeromohawk.ca/sustainable-features/>



Source: <https://www.netzeromohawk.ca/mohawk-helps-sets-new-standard-for-green-building-innovation/>

COLUMNS

A.K.A. THE EASIEST WAY TO GET YOUR FACE IN THE IRON TIMES



“What's a bad habit you want to break this school year? / What is a good habit you'd like to adopt?”

Having my phone near me while I'm doing homework is a huge distraction, so that's something I'm trying to stop doing. Also, getting up earlier would something good to adopt.



Seth Thompson
ELEC III

Cornelius Liburd
AERO C II



Not doing dishes immediately after use is a habit I need to break. Studying daily with consistency is something I need to adopt.

Daniel Haycocks-Tulli
ELEC III



A good habit I'd like to adopt is eating on a regular schedule. Especially not skipping breakfast *insert breakfast gif*

Procrastination.



Ahmed Abdalla
ENG PHYS III

I want to appreciate down time when I have it. Sometimes doing nothing is self care.

Denise Mayo
COMP SYS III



Adam Dublin
AERO C III



I would like to break my habit of buying a muffin everyday! (Even though they are SO GOOD!)

Anderson Curtison the Thirdison
AERO C III



I want to get in the habit of taking notes every single lecture. As much as I dislike taking notes, I've realized that I learn the material much better if I write it down.

EVEN IF YOU LOOK LIKE A BURNT CHICKEN NUGGET, STILL LOVE YOURSELF



COLUMNS

WHAT HAPPENS WHEN YOU PROCRASTINATE ON NOT PROCRASTINATING?

Biting my nails. Been working on it already.
I'd like to stop procrastinating (I know I know).



Katie Miller
BMED ELEC IV

I'd like to sleep before 3 am. Hearing
birds when I'm trying to sleep is very
distracting and reminds me that I
should have a better sleep cycle.



Greg Rackley
MECH IV

I'd like to stop wasting so much time,
but I also want to stay in Leo's longer...



Gabe Karam
CIVE III

Not getting enough sleep -
The quality of everything you
do depends on how well/much
you slept.



Hannah Waye
CoMS IV

I'd like to take up proactive studying.



Noah Pacheco
AERO D V

I'm hoping I'll adopt the habit of showing
up to class, and not relying on the lecture
slides.



Matthew Tennant
ENVE II

Getting too involved! It's easy to say yes to
everything! Remember, you're here to learn,
so don't forget that! I'm going to take it easy
this year :) Also eating healthier!



Hung Ly
AERO D V

I would like to break the
cycle of eating too many
muffins...



Alex Stevens
CIVE III

This year, I want to set aside more me-time
every week, be it for going to the gym or
relaxing and reading a book. It's important
to balance school responsibilities with self-
care, and I don't do enough of that.



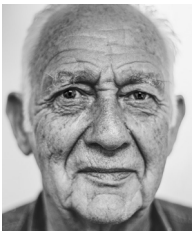
Jessica Mayenburg
BMED ELEC IV

Samuel Clarke
AERO A III



Researching quantum mechanics
and neuroscience during lectures.
Using the textbooks I purchase.

Move on with my alumni life and stop perusing Flightsuits
for dank Google Docs - let me know if you want this in a
separate article, you sassy, young-punk editor.



Allan Bassi, Ing. Jr
AERO D Alumnus (2017)

COLUMNS

SOME ENGINEERS CAN ENGLISH GOOD

“What is a myth that people believe about engineering students that you know to be false?”

People always think engineers are smart.



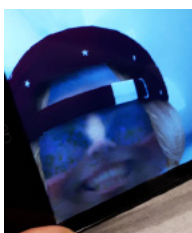
I hate the bad rap that engineering students get. We're not all drunks and snobs that think we have it the worst. A majority of people I know are a lot more humble. All students have hard courses, we're in it together!

Michael Lanning is a nice person.



Henri Cheung
COMP SYS V

Sucking at English.



Most people think eng students are smarter or something (lol).

We all ain't that smart... some of us, sure. But, like, half of us are just idiots that thought it'd be a lot easier than it is.



Poor social skills.

You don't have to be a book worm to be in engineering.



That if you are in a small/niche stream (Aero D, Biomed, EngPhys, ArchEng) you have to settle into a general job for years until you can practice your passion.

Chase those few opportunities to get a co-op/new-grad job in your field. Even if you have to work a general job to pay the bills. Network with universities, museums, recruiters... anything you can do to get on the radar. Everyone in these small fields know each other.

There are plenty of folks that sign up for Aero D and realize after 2 years that they just want to make aircraft seats... but don't be an Aero D that still loves space after 5 years and immediately gives up just because MDA isn't hiring.

That it's a perpetual uphill climb of failed courses towards your degree, it's hard but it's not this hyper-difficult supertask you have to do in 4 years. Take your time, join a club, enjoy what you learn and have a good time while you're around.

Myth: We spend all our money on books.
Truth: We spend all our money on everything *except* books.



That we're all complete nerds who have no other hobbies than school. Everyone is always surprised to hear that we have an engineering musical or that I enjoy drawing or dancing outside of school.

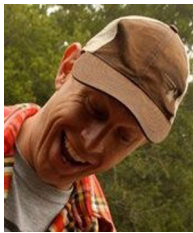




COLUMNS

SLEEP AND SOCIAL LIFE, SURE, BUT HAT ABOUT GOOD GRADES?

Some people say that we party a lot. That's actually more of a vocal minority. The people who are involved in the engineering student organizations are the same people who go to parties, but there are an incredibly large number of people who don't. You don't hear about them because they don't interact with the others. Bit of a shame, but to each their own.



A lot of people think that engineers and engineering students are antisocial or awkward (and sometimes we are) but the eng community at Carleton is so welcoming as a whole, which is something that you learn very quickly here.

It is possible to still have a good sleep schedule and social life while in engineering.



“What wisdom do you old folks want to share with incoming first years?”

Find a group on campus you like and get involved. It is an easy way to meeting people with similar interests and you get to spend fun times with them.



Daniel Zachrisson
SREE A IV



Do everything you can and don't let a minute go to waste!
Have fun and take care of yourself!



Dont a start studying the day before a test/midterm/exam.

Leo's Lounge has A&W root beer in bottles and cans. In terms of advertised volume and price, the cans are the better deal.



It's okay to fail! Welcome to the real world, not everything is handed to you on a silver plate with an A+ ribbon for effort. You're going to flunk that test. You're going to not finish that lab. You're going to be frustrated because nothing makes sense! That's alright. What's not okay is giving up.

Pass class, eat ass and sled fast in that order.



Go to class.



ONCE YOU GET TO SECOND YEAR, A LOT OF THINGS MAKE SENSE THAT DIDN'T BEFORE.



If you fail Linear Algebra, your adding an entire additional year to your program.



Go to class. Or if you go to class and realize a certain prof isn't going to be useful at teaching you what you need to know, set aside that time to work on that class and teach yourself. Otherwise you'll waste that time elsewhere *cough*Leo's*cough* and fall behind.



COLUMNS

THERE'S NOTHING UPPER YEARS LOVE MORE THAN GIVING ADVICE



STAY ON TOP OF YOUR SH**T. Like seriously, there's no bigger pain than falling behind and fighting the rest of the year to get caught up. Also parties don't "start" till late, get your work done first before going.



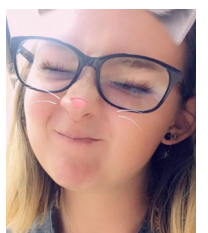
Get involved EARLY, don't just talk about it, do it!!

At first, you may feel like first year is a breeze, but keep up the effort! The better you do in your first year courses, the more your CGPA will thank you later.



Please please please try to get involved with the community. People talk a lot about getting involved but it's really just an atmosphere you need to experience. I promise it'll change your outlook on a lot of things. Just one party. Just one team or club. Just one volunteer shift. And if you're the type of person who'd rather try something new with a friend by your side, hit me up, fam. Or probably any other name on this page. No one here is going to turn you down.

Do your WorkSmart Campus right now. Do not fail ECOR 1010 just because you didn't do a few online modules.



Get to know your Facils and upper years! They have a lot of wisdom to share (and cheap textbooks to sell!)



If you're anything like me... every lazy bone in your body will tell you to sit in your room in residence and watch Netflix and eventually do homework and maaaybe have some apple juice with the pals.

But in retrospect, I pissed away a lot of first year when I should have taken advantage of the opportunities that each year of school presents. So I'm giving you (free of charge), my tips for each year:

FIRST YEAR - Be inquisitive, get out onto to campus, schmooze with upper-years (but listen, don't talk their ears off...). Get plastered in residence, and attend every Eng event you can. First year is for drunk walks back from Hull, and recognizing which upper years to emulate, and which to use as a lesson for how NOT to do engineering. Consider getting arrested for drunken buffoonery while you're still 18/19, because it'll do wonders for your street cred but with minimal lasting consequences. The consequences for getting arrested while peeing on the South Keys craft store are MUCH lighter when you're 18 than when you're 22 (ask Jake Lipohar).

SECOND YEAR - Get involved! Be social! DON'T FLUNK OUT.

THIRD YEAR - Get involved! Find a job! DON'T FLUNK OUT.

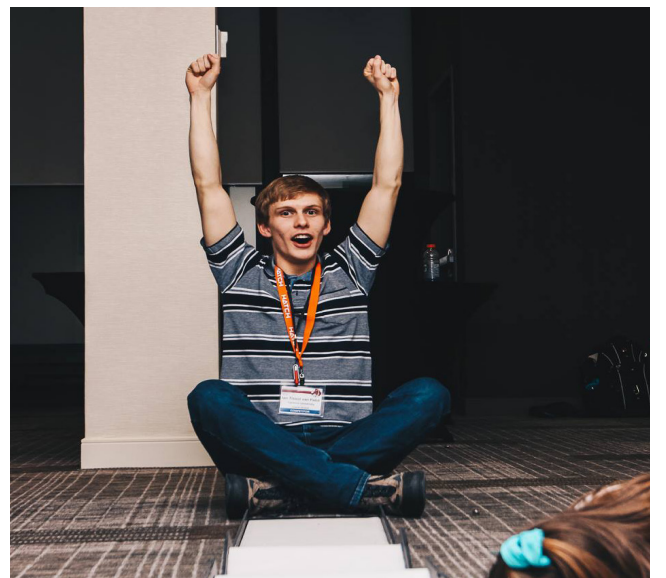
FOURTH YEAR - Crawl into a computer lab on campus for 8 hours a day and ace all your courses because if you apply for jobs with a C-minus average you will not get calls; don't believe that "Cs get degrees" means "Cs get your dream job."

WHAT ABOUT YEAR FIVE? OR SIX... OR SEVEN...?



GALLERY

A BLAST FROM THE PAST



GALLERY



SO MANY EVENTS, SO MANY PHOTOS



NEXT MONTH THIS COULD BE YOU!



STUDENT

SPICY BOI + MUFFIN + CHOCCY MILK = LUNCH OF CHAMPIONS



Kyra Bloomfield & Katie Miller
- Leo's General Managers -

Hiya friends!! WELCOME BACK and WELCOME FROSH-LINGS!!!

For those of you who don't know: Leo's Lounge is your local hangout with the cheapest food on campus, all in Mackenzie 3342!!

For those returning: time to reunite after a long summer with all your best Leo's buddies! Hopefully you didn't miss us too much with our weekly memes to brighten your Mondays.

In case you've forgotten what Leo's has to offer, or you haven't had the pleasure of our company yet, we've made a list here for you:

COFFEE - yes, you heard right. AND IT'S CHEAP.

Also **"COFFEE"** - a.k.a. french vanillas, hot chocolate and other fancy hot drinks.

FRIENDS - honestly we're all just avoiding class, but that's what brings people together, right?

MEMES <3

MUFFINS - Did I mention that we have a selection? (Just don't get Kyra started on the best kind.) (But we all know it's carrot.)

CARD GAMES - tbh we still need to be reminded of the rules every time we play but people are always nice so...

SAMMICHES - these bad bois are a great grab and go.

"STUDY" SPACE - sometimes

people "work" here in between classes.

DRINKS of all varieties - to keep you well hydrated while you cry during midterms & exams.

MILK - calcium helps you grow big and strong, plus we have the brown cow stuff too.

STICKERS - come on, who doesn't love stickers?

GAMING? That seems to be a new thing in the side room so come on by and watch people waste their lives on Fortnite.

CANDY BARS - what better way to complete your lab than on a sugar high?

MICROWAVES - we actually have three, but that doesn't mean you can set fire to ANY of them.

FRIENDS - We are literally always here? Pls come visit ussss.

CHIPS - boring lectures? Just bring a bag of chips along to crunch

on and drown out the droning.

Daily/hourly/minutely **POLLS** - come give us your take on the hot new topic of the day.

SAMOSAS AND NAAN - because some people can handle a bit of spice, JESSICA.

RAMEN - lifesaver in the life of a student, and we have hot water for 'em too!

POWERBARS - because who needs to talk face to face when you can charge your electronics for class

Hope to see you all soon! Leo's is cheap because we are completely volunteer run, so sign up for a weekly one hour shift and you too can become a part of the family! There is free food at training and we also host a volunteer appreciation party with CSES at the end of each semester!

Love,

Katie & Kyra (Leo's Lounge General Managers 2018-2019)



[CANTEEN & LOUNGE]

Leonardo's Lounge
3342 Mackenzie

Monday-Friday
8:30AM-5:30PM

Fall & Winter
Semester

LOOK, IT'S

LUNCH



| | |
|-----------------|--------|
| Sammich | \$5.25 |
| Naan | \$3.75 |
| Veggie Samosa | \$4.00 |
| Chicken Curry | \$4.25 |
| Pizza pops | \$2.00 |
| Clif Bar | \$1.50 |
| Instant Noodles | \$1.00 |

Misc.

Gum
Halls
Tic Tacs

\$1.25

Hot DRINKS

| | |
|------------------|---------|
| Coffee | \$1.00 |
| Specialty Coffee | \$1.25 |
| Tea | \$1.00 |
| Hot Chocolate | \$1.00 |
| Lug-a-Mug | -\$0.10 |

COLD Drinks

| | |
|----------------|--------|
| Bottled Water | \$1.00 |
| Bottled Soda | \$1.50 |
| Bottled Juice | \$1.75 |
| Pop/Juice Can | \$1.00 |
| Energy Drink | \$3.25 |
| Vitamin Water | \$2.00 |
| White Milk | \$1.75 |
| Chocolate Milk | \$1.75 |



Snacks

| | |
|----------------|--------|
| Cookies | \$0.50 |
| Muffins | \$0.75 |
| Chips | \$1.50 |
| Popcorn | \$1.00 |
| Chocolate Bars | \$1.50 |
| Cupcakes | \$1.50 |
| Pop Tarts | \$1.00 |
| Candy | \$1.25 |

Wow that's

FREE

Microwaves
Lounge Space
Games
Wireless Internet!

\$0

SERVICES

HEY, REMEMBER WHAT WE ALL SAID ABOUT GETTING INVOLVED?



Welcome back! CSCE Carleton is excited for another year of hosting events and helping students succeed. We are happy to announce our first event will be a Meet & Greet taking place at Oliver's on September 11th & 12th from 6-8pm. This event will give you the opportunity to meet and talk with current council members and other students in Civil, ACSE, and Environmental Engineering. Stop by to say hi and purchase your yearly membership. The membership costs \$10 and includes a quiet and comfortable study space, access to computers with 100 free prints, a textbook library, events to meet and establish a network with potential employers and professionals, and so much more! If you miss out on the Meet & Greet, don't worry, just stop by the CSCE Carleton office located in Mackenzie 3379 to pick up a membership. We will also be holding a Town Hall this month to fill the positions of two 1st Year Reps, 2nd Year Rep, 4th Year Rep and Environmental Rep for the 2018-2019 year. If you are interested in these positions, stay tuned as more details for this event will be posted closer to the date. CSCE Carleton can't wait to experience the 2018-2019 year with you!

Brianna Cobbe



CU InSpace is Carleton's rocket team! Our goal is to design and manufacture a rocket to launch at the annual Spaceport America Cup. If you are interested in design, problem solving or rockets, make sure to check us out! You can reach us at carletonuinspace@gmail.com or on our Facebook page at CU InSpace.

Cameron Euler
CU InSpace President



**CUBES - Carleton University
Biomedical Engineering Society**

THIS ISN'T EVEN ALL OF 'EM

b.com

BRAVE NEW ENG FROSH



Spirit



Planning



Caffeinerva



Chronos



Formanova



Hectate VII



Hiveling Prime



Imaginarius



Karraterra 24



Metalion



Panemora



CARLETON STUDENT ENGINEERING SOCIETY

3390 MACKENZIE BUILDING



/myCSES



@myCSES



@myCSES



myCSES.ca

WHAT IS CSES?

THE CARLETON STUDENT ENGINEERING SOCIETY HAS BEEN SERVING THE STUDENTS OF CARLETON ENGINEERING FOR MORE THAN 35 YEARS.

ITS GOAL IS TO PROVIDE ITS MEMBERS WITH ACADEMIC, PROFESSIONAL, AND SOCIAL RESOURCES TO HELP THEM MAKE THE MOST OF THEIR FOUR (OR MORE) YEARS AT CARLETON. IF YOU'RE AN UNDERGRADUATE STUDENT ENROLLED IN A STREAM OF ENGINEERING, YOU'RE A MEMBER OF CSES.



President
Tristan Durie

Hello Friends, hope you had a great summer! Welcome back to all of our returning members, and welcome first years to our CSES Family. Be sure to come out to Mackenzie Building 3390 and say hi! If you've seen people in nice red Engineering Leather Jackets and want one, keep your ears open for Jacket Fittings later this month. Check out what my fellow execs have in store for the rest of September in their blurbs. Good luck with the start of the school year!



VP Finance
Cyлина El-Bouchi

Hey C-Eng! My name is Cyлина El-Bouchi and I'll be your VP Finance this year! My role is to be in charge of CSES's financial tasks and affairs. This includes creating the budget, managing student group funding, allocating funding to events, handling corporate taxes, controlling business line of credit cards, steering sponsorship, and helping with many more things that you love and enjoy all year around! As VP Finance, my goals this year are to ensure accurate and complete financial records, boost financial transparency, create a sponsorship package/process, establish a business line of credit card process/procedures, and maximize student group funding while providing appropriate and fair allocations. Student Group Funding is something I'm very excited to get going on because it's great to give back to our members in engineering clubs and/or societies that are eager to get involved and enjoy their time here! Feel free to come by the CSES office or email me if you have questions about anything related to finance! I hope you have a great year!



VP Internal
Owen MacIntosh

Hey C-ENG, hope you had a great summer! I am your VP Internal for the 2018-2019 school year. To start things off right, keep an eye out for the First Year Conference (FYC) happening at the start of the year. Here, you will get a chance to see all of the wonderful clubs and societies, and we may even have some coming all the way from UOttawa! (What, we're friends with Gee Gees?). For those wanting to get involved, stay tuned for my Fall term directorship application - I have old positions as well as some new ones that are sure to pique your interest!. Please feel free to come and ask me questions about the inner workings of CSES either in person or by email: internal@cses.carleton.ca. Hope you have a fantastic start to the school year!



VP External
Bay Ross

Hello everybody! I'm excited to serve you as your VP External for the 2018-2019 school year! As VP External I am in charge of representing Carleton engineering students to external bodies such as Professional Engineers of Ontario (PEO), Engineering Student Societies' Council of Ontario (ESSCO), Canadian Federation of Engineering Students (CFES), and many more. If you are interested in learning more, attending a conference or getting involved with groups outside of Carleton, come talk to me! I hope you all have a great start to the school year!!



VP Publications
Elizabeth Wilson

Hey Carleton Engineering friends! My name is Elizabeth and I'm your Carleton Student Engineering Society's VP Pubs for this year. I manage all of the CSES social media, the website, and this newspaper you're holding! My main project this year is the revival of the Gong Show, our Youtube "news" show (keep your eyes peeled for the first episode out soon!), but I also plan on redoing some of the website and bolstering out the Iron Times! So if you're interested in writing, coding, drawing, editing, photography, or organization, keep an eye out for my directorships!



VP Social
Kaylin Paquette

Hello my fellow engineers. While I hope you've all enjoyed your summer, I have done my best to begin planning your favourite engineering events. Soon enough, you will find yourself dancing the night away at this year's semi-formal, making up answers to our trivia night questions, painfully laughing at Absolute Comedy, and most importantly, enjoying yourselves between the heavy loads of school work. I look forward to seeing you come out and experience all that we can offer through our society!



VP Services
Logan McFadden

Hey all!! Welcome to C-Eng. I will be your VP Services for the upcoming 2018-2019 year. But what is it that the VP Services does? Well essentially, I run and oversee all the... services that CSES provides. This includes the textbook library, the textbook trade, all the merch that you can buy at CSES, and the bookable rooms (the SGRC and the CSES boardroom). We offer many different types of merch at CSES, ranging from sweaters and shirts to patches and stickers. Come check out the textbook trade, open from September 10th to September 28th, to get some cheap textbooks and say hi to your CSES council!!!



VP Academic
Ahmed Abdalla

Welcome back everyone! If you're a first year, welcome to Carleton Engineering! My name is Ahmed Abdalla and I am in my 3rd year of Engineering Physics. I hope your summers were as fun and eventful as mine. For 2018-19, I have exciting events planned all year long! The Carleton Engineering Competition will be the biggest ever! With the addition of Innovation and Re-Engineering, C-Eng-C this year will be hosted over 3 whole weekends!!! National Engineering Week -- I mean Month -- will be a celebration of Canadian engineering accomplishment filled with amazing events such as Science VS III and the K'NEX Competition! I also have various workshops, prof talks, and panels planned throughout the year. If you have any questions or any concerns please feel free to contact me via email academic@cses.carleton.ca or talk to me in person! I won't bite! Have a great year!

DON'T BE A STRANGER! ANYONE INVOLVED IN CSES WOULD BE HAPPY TO TALK TO YOU ABOUT ANYTHING FROM DIRECTORSHIPS AND EVENT PLANNING TO VOLUNTEERING AT LEO'S LOUNGE, OR JUST SHOWING UP TO EVENTS. IT ALL PLAYS AN IMPORTANT ROLE IN MAKING ENGINEERING YOUR FAMILY AWAY FROM HOME. REMEMBER... EVERYTHING COUNTS FOR FLIGHTSUIT STAMPS.

DISTRACTIONS

MMM THAT COMIC SANS

Find all 13
of Carleton's
engineering
streams

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|
| G | C | X | S | S | G | E | O | S | W | F | N | S | J | R | L | F | Y | Y | L | AEROSPACE |
| P | M | C | S | Y | K | R | R | S | C | X | Z | R | V | D | Z | X | D | A | S | ARCHENG |
| G | B | D | Z | N | H | C | S | U | S | C | R | V | R | V | Q | M | T | O | B | BIOMEDELEC |
| W | A | J | A | Q | O | P | O | Y | J | H | X | P | S | V | Q | N | F | N | I | BIOMEDMECH |
| W | M | W | L | R | G | I | G | B | S | J | N | C | V | K | E | T | A | E | O | CIVIL |
| V | W | M | I | L | H | K | T | N | I | P | C | P | F | M | W | A | X | C | M | COMMUNICATIONS |
| O | W | A | V | U | R | C | V | A | E | O | M | N | N | A | V | X | P | A | E | COMPSYS |
| X | L | W | I | X | C | U | G | M | C | K | M | O | R | X | A | R | B | P | D | ELECTRICAL |
| E | L | E | C | T | R | I | C | A | L | I | R | E | C | R | U | F | R | S | E | ENGPHYS |
| O | D | S | C | B | F | B | A | C | J | I | N | A | D | Z | V | P | J | O | L | ENVIRONMENTAL |
| E | I | K | H | Q | M | N | T | K | V | F | N | U | D | M | D | D | K | R | E | MECHANICAL |
| H | E | T | N | F | O | X | E | N | X | L | B | A | M | L | E | K | B | E | C | SOFTWARE |
| O | I | Z | L | N | L | E | E | N | L | M | Y | R | W | M | Q | C | M | A | J | SREE |
| G | N | E | H | C | R | A | V | P | X | M | P | L | T | M | O | F | H | S | R | |
| D | A | E | J | S | M | E | C | H | A | N | I | C | A | L | O | C | I | E | J | |

Words may be found
forwards, backwards,
up/down, left/right,
diagonal

HOROSCOPES

ARIES

You're strong and outgoing, Aries, so don't be afraid to be assertive. You see a firstie in Leo's, you use them as a pillow. This is the natural order of things and they have to accept it.

TAURUS

Beware the shitty lab partner, Taurus. One wrong choice and you'll be stuck writing an entire design report while your team members slink off to hull the night before it's due.

GEMINI

This is the year that all your dreams come true, Gemini! The stars look favourably upon you. Don't be a dick about it, okay? The rest of us are jealous.

CANCER

Take every day as a new opportunity to see a good pupper. Beauty lies around every corner, and it's just waiting for you to pet it.

LEO

The stars insist you buy a salt lamp. It'll do wonders for your chakras, apparently. The stars are going through this health phase and they're being super obnoxious about it.

VIRGO

Did you heard of the tragedy that reach the man? I think to be too is not. I think that the hopeless situation elder also can't. That is a legend. (Backstroke of the West)

LIBRA

Be thoughtful with your spending. For example, buying that "mandatory" textbook may seem like a smart purchase at the time, but do you really need it? Nahhhh.

SCORPIO

Beware answering McRae's pop quiz questions in Ecor 1010. Better to be safe than "absolutely... wrong."

SAGITTARIUS

Happy birthday, Sagittarius! Make sure you get all your partying in ASAP. Your friends won't come out to celebrate once homework takes over their lives!

CAPRICORN

You've prayed for your love life to take off, and the stars have heard you! Unfortunately, they're just not interested. It's not you, it's them. Better luck in the next moon phase.

AQUARIUS

Put your sunglasses on. Now look in the mirror and make finger guns while flashing your best cool guy grin. Good job! Channel this energy all year long.

PISCES

Time to revamp your lifestyle by finally drinking enough water every day. No, iced coffee does not count as hydration.

DISTRACTIONS

CARLETON: WHERE THE "K" STANDS FOR QUALITY

Rocket science

Space engineering

Aerospace engineering

Department of Mechanical and Aerospace Engineering

WHAT IF I TOLD YOU

BEING IN SCHOOL IS MUCH BETTER THAN WORKING EVERYDAY AND HAVING ADULT RESPONSIBILITIES

Concrete

Non Civil Engineering Students

Is this Cement?

C'mon man, it's time to go.

I can't.

Why not?

I can't get up.

What?

It's as if some mysterious force is pulling me toward the ground, restricting the freedom of my movement.

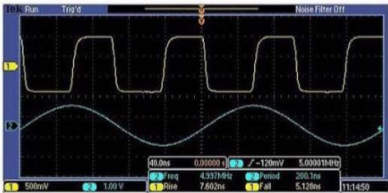
Gravity?

Laziness.

How normal people wave



How engineers wave



UNIVERSITY PHYSICS

Calculus Problems

CALCULUS

Freshmen Engineering Student Starter Pack

"Liberal arts majors have it so easy"

"Why do I need to take a writing class anyways? I'm a engineer!"

Full Throttle

Red Bull

NOB

I'm an Engineer

I'm an Engineer

I'm an Engineer

I'm good with math

MATLAB

The Language of Technical Computing

"Oh you had to pull an all-nighter? Well I had to pull 12 all nighters in the past week!"

Starterpackcreator.com

COFFEE, YOU'RE MY ONLY FRIEND

you're going to fail in fluid mechanics

HMM, TOO DARK

your friends will repeat fluid mechanics with you next sem

PERFECT

ooo! AN ARTIST!

WOW

I WONDER WHAT HE'S DRAWING

IS HE DRAWING ME??

$$f(x) = \frac{1}{2} a_0 + \sum_{n=1}^{\infty} a_n \cos(n x) + \sum_{n=1}^{\infty} b_n \sin(n x)$$
$$a_0 = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) dx$$
$$a_n = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \cos(n x) dx$$
$$b_n = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \sin(n x) dx$$

Hey.. Are you sleeping?

Yes. What?

The Calculator was on Radian

FEAST YOUR EYES ON THESE MEMES

LAST CALL

LET'S ALL BE ASTROPHYSICISTS

THE IRON MAN HUNG "WOLFMAN" LY - AERO D V -



C-Eng Involvement:
C-Eng Musical x3
(Stage Crew, Stage Manager)
Aerospace Councillor
CSES Technical Director
C-Eng-C Chair
CFES IT Commissioner

Hailing from: Ottawa, ON
Song that is the anthem of your life:
Shut Up and Dance - Walk The Moon
If you weren't in engineering, what would you be pursuing?
Astronomy and astrophysics.
Weirdest thing you've ever purchased:
A pomegranate on my way to Whirlwind.
Memory that you never want to forget:
Taking first place in boat races as a frosh.
Most private thing you're willing to admit:
The longest friendship I've ever had is around four years.
Most useless talent:
I have a chainsaw certification.
If you could have any super power, what would it be and why?
Be able to cheer anyone up/make anyone laugh.
Gimme your smoothest pick-up line:
Hi, I'm Hung :)
If there is a god/creator of the universe and you could ask it one question, what would it be?
What else belongs on pizza beside pineapple?
Hit me with your best six-word horror story:
Where were you? Exam was yesterday.



USES FOR THE CHARLATAN

- > Cut into strips and crochet into a quilt
- > Use as bedsheets so you don't get your good sheets purple
- > Make a papier mâché bust of Glenn McRae
- > Challenge your civil friend to build a tower out of it
- > Challenge your aero friend to build a plane out of it
- > Take notes in it when you inevitably forget your notebook
- > Fold into a paper fan to beat the heat on Beach Day
- > See how many you can stack on your cat's head before they run away
- > Make a big ol' bonfire
- > You could read it

THE IRON LADY CAROLINE "LIFE OF PIE" DELUCE - ENG PHYS III -



C-Eng Involvement:
CEPS First Year Rep
Engineering Physics Councillor
Pi Day Director
CSES VP Academic
CUE President x2

Hailing from: Milton, ON
Song that is the anthem of your life:
Come on Eileen by Dexys Midnight Runners
If you weren't in engineering, what would you be pursuing?
Owning a cat farm sounds nice, like a farm for homeless cats. Also maybe a park ranger, or an astrophysicist.
Weirdest thing you've ever purchased:
A life-sized cardboard cut out of Emilia Clarke.
Memory that you never want to forget:
The day I found out that I was going to be an aunt.
Most private thing you're willing to admit:
I'm not as butch as I think I am....
Most useless talent:
Unfortunately I have extensive knowledge of how to be entertaining in various animal costumes from my previous job.
If you could have any super power, what would it be and why?
Shapeshifting because it's LITTTT (plus I could be a cat and that's cool).
Gimme your smoothest pick-up line:
Hey baby, we should convert our potential energy to kinetic energy ;)
If there is a god/creator of the universe and you could ask it one question, what would it be?
I have like a million questions about space, time, and reality!!! But if I only had to pick one, I'd probably ask if a hot dog is a sandwich.
Hit me with your best six-word horror story:
Caroline eats mayonnaise with a spoon.

Editor-in-Chief

Caroline Lenarcic

VP Publications

Elizabeth Wilson

Special Thanks To:

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- Footnotes -

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3 free 7-day trials of Photoshop
2 nostalgia trips on Ned's Declassified School Survival Guide
16 past issues of the Iron Times, for reference

Last Words:

"Aerospace propulsion, aerospace non-propulsion, biomed, and astronauts."
- My mom, on the 4 streams of aerospace



LOOK OUT FOR NEXT MONTH'S SPOOKTACULAR ISSUE!