

the carleton student engineering newspaper

THE IRON TIMES

the iron procrastination panic

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October 2020



Is Water Wet: A History

- A Concerned Citizen-

Life on Earth began many years ago, when water got hot enough to produce micro-organisms. These organisms evolved into fish, which then evolved to move around in areas that were not covered in water. This is widely considered a poor choice, as these amphibians (as they were then called) quickly forgot how to swim. As a result, conflict brewed between the land-dwelling species and the sea-faring beasts.

Fast forward to now, and that divide is most clearly represented by sushi, a delicacy made through the violation of innocent sea-faring creatures caught up in a war they never knew existed. But ever since humanity began to push back the forces of the depths, a more sinister war has been revealed. Without the proxy battles to hide their intentions, the illuminati's true plans have been brought to light. Today, I reveal to you the true cause of all world events: Is Water Wet?

Sounds silly? I thought so too. But in truth, the many sides of this debate have collectively caused all of human history. Let's take it back to ancient times. It all began with Ancient Egypt. The Ancient Egyptians were reliant on the Nile for survival, and thus water was an important part of daily life. It is said that the first Pharaoh, known as either Narmer or Menes, conquered lower Egypt by challenging their brightest mind to a battle of wits, wherein he asked if water was wet. This question utterly confounded everyone in lower Egypt, and even those in upper Egypt were completely baffled by the Pharaoh's question. And so Narmer united upper and lower Egypt for the first time. Recent documents reveal that he asked the question just to fuck with his opponents, but the debate had begun.

CONTINUED ON PG. 6

READ ON,
I DARE YOU

ANDY ANSWERS
QUESTIONS
PAGE 3

SOOPP FOR THE
C-ENG SOUL
PAGES 5

A WOMAN PUSHING
THE BOUNDARIES
PAGES 6

SMOOTH(ER) AIR
AHEAD
PAGE 7

C-ENG SPEAKS
PAGE 8-11

CSES EXEC UPDATES
PAGE 12

AND MUCH
MORE!



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EDITORIALS

i need to stop listening to the mountain goats

From the Desk of the (stressed) Editor



Owen Short
- AERO C II -

Lately I have filled quiet moments by listening to The Anthropocene Reviewed Podcast with author John Green. The basic context of the show is that every episode John reads two essays on random things that are facets of the human-centered planet. In the essays, he talks about the objects themselves and also tells stories and gives meaning to them, exploring the human condition along the way. Although I'm no John Green, I thought I'd take a crack and share them here (God knows I need the content). Anyway, here goes nothing.

Lemon And Paeroa

Lemon and Paeroa is a soft-serve drink popular in New Zealand. But if I'm being honest, calling it a soft serve drink is a bit of understatement. I mean, have you guys heard of Jesus? This stuff is basically on the same level. If you've ever had the thought "Man, sprite is so good. I wish there was a Sprite 2," then this shit is for you. Hell, this is Sprite 3. If it didn't take 50 dollars to ship to Canada, I would be devouring this heavenly elixir with every meal. The spring water around the town of Paeroa, NZ, was analyzed by one Arthur Wohlman in 1904. He said about the spring:

"The Paeroa spring is a large, warm, effervescing spring of similar nature to the Te Aroha spring, but contains 73 grains of magnesium bicarbonate to the gallon. It is good for dyspepsia and pleasant to drink and in older times had the reputation among the goldminers of the district as a Sunday morning drink after a Saturday night "burst". It can be beneficial for constipation"

Now, I don't really know what any of this means, but apparently it made for a delicious drink when mixed with lemon juice. The first person to start drawing water from the property and selling it as Lemon and Paeroa was one Robert Fewell. The drink quickly became popular around New Zealand and was eventually purchased by Coca-Cola. It is now manufactured in Auckland, where the Paeroa spring water is made artificially and added to a lemony syrup, just like any other soft drink. All that remains in Paeroa today is a giant 7-meterhigh, 1.3-meter diameter L&P Bottle.

L&P is insanely good; one sip of its glorious waters will leave even the most hardened soul crying with joy. But, the flavor isn't what makes it so memorable to me. In 2018, I had the fortunate opportunity to travel to New Zealand on the International Air Cadet Exchange. The trip was essentially one massive road trip around the South and North Islands with 14 other international cadets. Every stop, regardless of location, we drank L&P. Every host family drank it. It was everywhere. L&P's slogan is "World Famous in New Zealand." It's a sarcastically pretentious line that implies that the drink would be famous outside of New Zealand, if only it had come from a larger nation. I think to some extent this also applies to our own country. Smaller nations around the world have so much to give but are often drowned out in favour of the corporate products of America. Who knows how many L&P-like products are "World Famous" in their home countries?

I'm rambling again. To me, L&P represents the friendships, experiences and lessons I learned on that trip around New Zealand. It was the trip where I turned into the person I am today, and I think the main lesson I took from it is one that everyone can apply to their own lives. It is: "be mindful of the present." I know, I know, it sounds incredibly cliché. However, that shouldn't mean it's not just as meaningful and important. In a program as tough as engineering, it is easy to get swept away by the tide of your education and lose all the lit-

tle things. But those little things are crucial. In New Zealand, far away from the stresses and tribulations of home, every little thing was memorable and I can still picture most of the trip to this day. Why is that? Because I was PAYING ATTENTION. Every beach, every rock, every person and every bottle of L&P had my fullest attention, and my brain wasn't wandering off. It was a beautiful thing. The problem I have run into most during quarantine is a lack of Mental Landmarks. Endless schoolwork does not help, but the real problem is that I never really tried to cement any of the moments I did enjoy this summer in my head. My mind was always off thinking of the future, or what was coming up next on my To-Do List. I don't remember half the places I went to or things I did this summer. There were certainly no bottles of L&P. So, as you continue through quarantine, try and forget what might be coming in the future weeks and months, and take at least a few minutes per day to make some Memories. Pay attention, smile, and drink some (metaphorical) L&P.

I rate Lemon and Paeroa 9.5/10

The Dark

The dark has long fascinated and scared humanity. It is often perceived as nothingness, the emptiness into which light comes. Most religious creation stories involve the introduction of light and order to nothingness and darkness. However, the dark is simultaneously flooded with monsters, noises, and things that may wish to do us harm. Which is it? Is the dark an emptiness where only you exist, or is it full of terrorizing creatures? How can darkness simultaneously be lonely yet intimate, empty yet full, nothing yet everything?

I honestly do not think I understood how I feel about the dark until a recent conversation with a friend in a starlit field in Vincent Massey Park. I had just commented on how my brain kept interpreting a garbage can sitting in the black field as someone running towards me. Part of me has always hated being alone in the dark among trees, precisely because of the unknown quantity present. At

this moment, my friend turned to me and said, "I don't think I'm afraid of being alone in the dark, I think I'm afraid of not knowing if I'm alone in the dark." While this seems like such a trivial thing, it helped me separate the soft, intimate dark of my teenage years and the hard, scary dark I experienced as a young child trying to sleep.

Some of my greatest memories of my first year and summer in university took place in the dark. There were the late nights during EngFrosh, the stargazing with my closest friends, walking home from parties, the cozy moments in empty dark classrooms, and those summertime night rides. Here, the dark was secure. I knew that I really was alone with these people or myself, and hence the dark acted like an amplifier, closing off the surrounding area and focusing all my attention on the present. That is the power of darkness, locking you into what is right in front of you and putting it on a pedestal as the only thing in the world that matters. I don't think I'll ever forget some of the things that happened to me in the dark, simply because of how invested my senses were on the here and now.

That very same isolating power is also what makes the dark so damn scary. When you don't have the comfort of knowing that you are safe, the dark can take those feelings and amplify them to the max. Everything becomes fight or flight, and the brain goes into overdrive. As a child, the posters on the wall began to move, faces appeared on my popcorn ceiling, and every sound was a creature waiting patiently to get me. As an adult, the fear is still very real, but the monsters become the thoughts that turn into unsolvable, hopeless situations by a lonesome night. That pedestal of sense and experience becomes one of anxiety and fear.

I like to think that I have gotten better at dealing with the dark. I spend far more time sleeping or hanging out with friends at night these days than I do worrying about things. But I don't think the dark has anything to do with it. I think what really happened, and what happens to lots of people as they

EDITORIALS

Andy really is handy

age, is that I became less scared of and better at dealing with the unknown. As our experience in dealing with whatever jumps at us from the inner machinations of our minds grows, the dark turns from a feared mystery to an adventure waiting to happen.

I rate the dark 7/10.



It's Andy Curtis, the VP Publications!!!

Answering the Ever-Burning Questions of the C-Eng Community



Andy Curtis
- AERO C V -

Today, I'm gonna be answering some of the questions that you submitted to the Iron Times! I hope that all of you are as excited as I am! If you have any questions about my answers please feel free to take it up with the Dean. Hopefully, most of my answers won't be as vague and pointless as my course outlines for the fall semester.

What is your favourite food?

My favourite food is 2 grilled cheeses made in a panini press with a decent amount of ketchup. On the side are 2 Extra Garlic dill pickles and the drink is a Neapolitan milkshake.

What is your favourite Hamilton song?

I have had a lot of favourite Hamilton songs over the years. My current favourite is Non-Stop but Hurricane, My Shot, Alexander Hamilton, The Room Where it Happens, Guns and Ships and Wait For It have all been previous choices!

Why is winter the best season?

It isn't. Late summer is the best.

What are your thoughts on changing the president's title to "Gong Slapper"? (It sounds much more intimidating.)

I think that the issue is that the title would be too intimidating, as the president needs to be approachable.

If you were given the choice of being able to produce your own food for the rest of your life, but you would have to be green, would you take it?

I think I would because food is cool but also expensive, honestly depends on the kind of food I could produce if I was green. I know that Buster Biggs would take this offer.

Where do you store the other Andys? You need to sleep, but "Andy" doesn't...

In an undisclosed location called SkyJail. The Clone Wars were a harsh time for the Andys.

Where the fuck did he get a button up shirt with whales on it?

I honestly have no idea, I think I got that shirt when I went to Marshalls with Chandler and my Mom.

What's it like being one of the coolest dudes in C-Eng?

Awwwwwww thank you for thinking that! Ummmm, it's nice to have good friends and a community that cares. That's what it's like.

Are the Teletubbies Eldritch gods? Elaborate on why they are.

Unfortunately they don't appear to be according to any of the sites I found... But I definitely think that we should petition to have them added as I have seen them brainwash children and adults alike.

Why do you work like you're running out of time?

I work like I'm running out of time because I hope that history has its eyes on me and I don't intend on disappointing those who tell my story.

What is your biggest regret in life?

I tend to not regret many things in my life as I like to believe that if I am currently happy it is the product of those decisions that got me here regardless of how I felt at the time. With that being said, I regret going home for the summer after my first year at Carleton.

What is the correct amount of sleep to get each night?

I cannot stress this enough. Get the amount of sleep that you need to be happy and healthy. For some people that is not very much, for others it is a lot of sleep. It is important to do what is good for you.

How are you not dead with the amount of work you do???

Well I mean, it is one of the big 3 rules. I also really love everything I do. So working on it becomes a lot easier and less tiring!

And with that, all of your questions have been answered! I hope that all of you have a wonderful day! I'm thinking of doing another segment like this at some point. So if you read it and enjoyed it, let me know! Next month I will be rating cats on their cuteness and many other factors! Bye for now!

Lady Gaga Traumatized Beyoncé by Smoking 'Nine Joints' of Weed in Front of Her





COLUMNS

I love how much content there is this month



microwave madness

MUG CAKE OF THE PUMPKIN SPICE VARIETY



Alex Miller
- ARCH D IV -

And the inspiration for this month’s recipe! While you’re cutting up those jack-o-lanterns and avoiding all your responsibilities, whip up this bad boy to put you in the fall spirit. Since it’s still not the safest time to get your daily dose of Starbucks PSLs, this mug cake will hopefully do the trick! Plus, you can eat a whole cake and not feel guilty, so it’s pluses all around!

Ingredients

Batter

- 4 tbsp flour
- 1/2 tsp pumpkin pie spice or cinnamon
- 1/4 tsp baking powder
- 1/8 tsp salt
- 2 tbsp chopped nuts, (if you’re feeling nutty)
- 1/4 cup pumpkin puree
- 1/4 cup packed brown sugar
- 2 tablespoons vegetable oil
- 1/4 teaspoon pure vanilla extract

Glaze

- 1/4 cup powdered sugar
- 1/4 tsp pumpkin pie spice or cinnamon
- 1 tsp milk or water

Steps

- Get out your favourite microwave-safe mug/ramekin

-Combine all batter ingredients into the chosen vessel

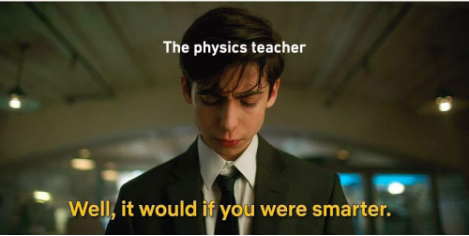
-Microwave on 50% power, 1 minute at a time, for 3-4 minutes, until a toothpick comes out clean or with a few moist crumbs. Better to under-than over-bake, especially since there are no eggs.

-Combine glaze ingredients and pour over the cake.

Enjoy sans guilt! (it is a vegetable-based dessert, after all)

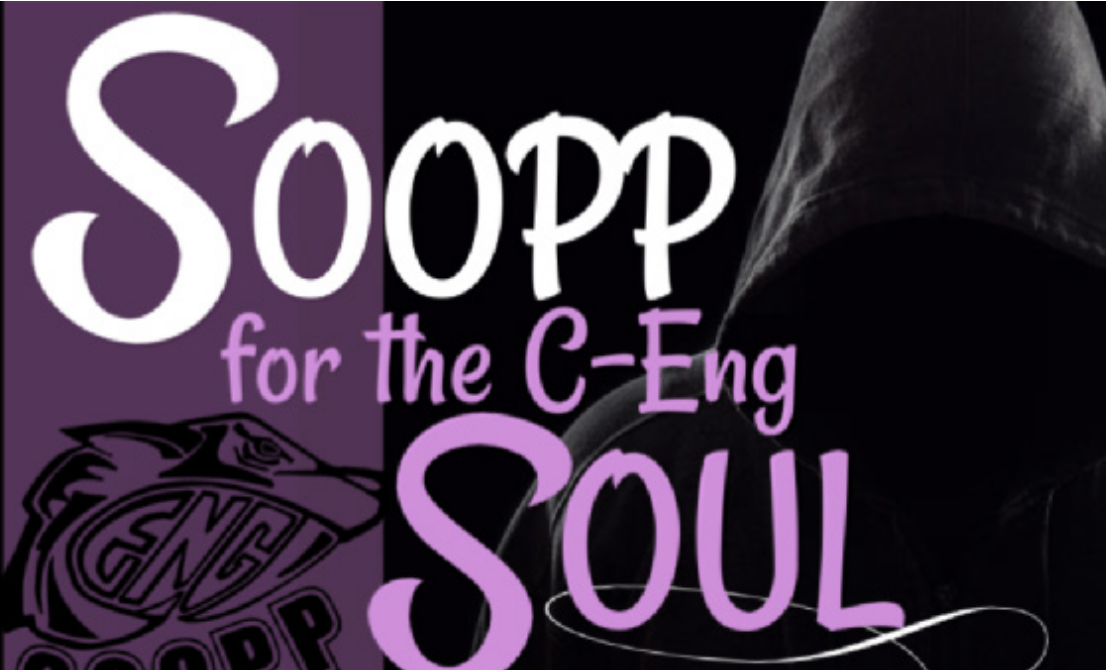
(acquired from www.lindsayannbakes.com)

- favorite things about fall:
- pretty leaves
 - pumpkins
 - not being a sweaty train wreck literally every time I leave the house



COLUMNS

SOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOPPPPPP



SOOPP for the CEng Soul is a monthly column written by the Brothas of the Secret Order Of the Purple Panthers. For those who don't know, the Brotherhood of SOOPP is an organization of former CEng Alumnus who've made significant contributions to the society. At the end of each year, a selected group of new graduates are asked to continue their support of CEng beyond their years. Those who accept are welcomed into the Brotherhood of SOOPP. As for SOOPP for the CEng Soul, our column writer changes every month and varies in theme/topic/formality. On behalf of the entire brotherhood, we hope you enjoy this month's article and have a great month.



Brotha Noah "SoundCloud" Pacheco
B. Eng, AERO D 2019

Hey CEng. Hope you've been keeping well during this totally 'sick' time. Welcome to the SOOPP Column! We've decided to give it another try this year. We could use a little bit of help, though. We want to know what you want to hear! Have any suggestions or questions for CEng's former graduates? Want to know how Katie managed everything during her busy years? Want to know what happened to Johan? Want to know the stories behind Andre's various callsigns? (I think he has more than one, no?) Submit your questions at QUESTIONS FOR SOOPP, link found here: <https://forms.gle/VJ5TyiW3NU25Svbw6>

Anywho, along with this month's Article! With the much welcome introduction to autumn, I thought I'd give a completely new and unbiased opinion on the famous "Starbucks Pumpkin Spice Laté"

Confession: Hi, my name is Noah and al-

though I consider myself a coffee person, I have never, ever, not even once tried the world famous pumpkin spice laté. I'm not sure if this is something I should be embarrassed about or as a wannabe hipster, be proud about. Regardless, on September 19th, 2020 I took a walk out to the nearest Starbucks to give it a try.

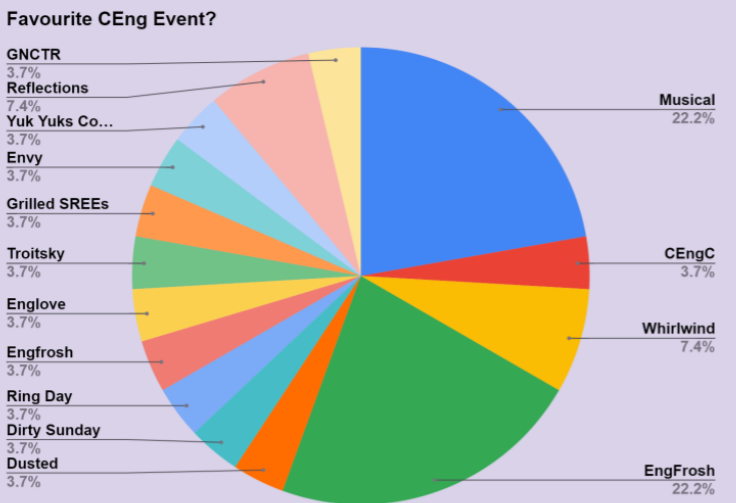
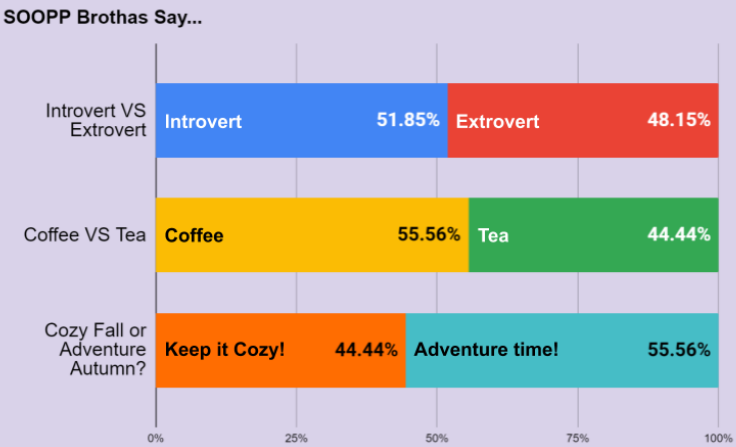
I walked into the store, ordered the drink (grandé seemed safest) and immediately made a visual analysis of the concoction. Looked nice. Nothing formidable. A simple laté with whip and some of what I can only assume were the "pumpkin spices."

I won't lie, upon first sip, I suddenly understood all the hype. The drink is good. Its calming, warm, not too sweet, a little cinnamon flavour. I can see how it could generate the entire fall fandom. I can picture the morning hikes through the orange leaved forest with this drink in hand. In terms of addictivity, I can see how it could be a "regular" drink to order but to assume that one could be a pumpkin spice laté addict might be a bit of a stretch.

All in all, I think my final conclusion comes down to this: if you haven't tried it and you like latés/milky coffee, try it once. If you try it once and love it, well then there you go. If its not for you, I'm sure you can at least appreciate the perspective from those who do love it.

It's sweater weather and crunchy leaves. It's spookiness and feasts. It's warm and its sweet. Its Autumn and we can all agree: Autumn is good. Until next time. Love, Noah.

"Is cereal soup?"



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SOOPP for the CEng Soul Questions: Questions for SOOPP

SSSSSOOOOOOOOOOOOOOPPPPPP



COLUMNS

i don't know how this person wrote over 1000 words on this...



CONTINUED FROM PG. 1:

Millennia later, a man named Pythagoras tried to interrupt Greek discussions on the wetness of water by instead discussing if beans were garbage. He also had stuff to say about math, but no one cared, so we won't go into detail here. The bean debate was not very popular, as most Greek philosophers believed that beans were fine. One Ronald Weasley even fervently defended beans, to the point where he constantly screamed about them for weeks. Pythagoras, realising that his bean plan was failing, suggested putting beans inside objects where beans should not be, as an attempt at a strawman argument. Unfortunately, his suggestions regarding where beans might be inserted were met with outrage, disgust, and violent rage. Pythagoras was eventually cornered near a bean field, which he refused to approach due to his deep-seated distrust of them. He was killed. Henceforth, the wetness of water reigned supreme as the highest form of philosophical discussion.

The Greeks could never agree on how wet water was, which angered the Persians, who believed that water was not wet. This led to the battle of Thermopylae, where 300 spartan warriors died to prove that water MIGHT be wet. Their king, Leonidas, is quoted in a graphic novel as having kicked a Persian messenger into a lake while screaming, "This. Is. Potentially wet!"

Rome was founded by Romulus, who killed his brother Remus because he thought water was wet. Romulus believed that water was on a wet spectrum, and that different types of water would be wetter or less wet. This explained the difference between fresh and saltwater, and so Rome flourished. The aqueducts were invented to prove the wetness of water, but ultimately failed in their purpose and were recycled into a drinking source.

Julius Caesar thought that water was consistently wet, a belief he developed through his war campaigns in Gaul and Egypt. When he attempted to sneak this into a law he was passing in March, he was assassinated. This led to the first Great Water War, where multiple parties attempted to assert their water belief as accurate. Rome never again had a consistent belief, with Emperors waffling between wetness, and so it ultimately fell.

Records from here on are scarce, as few leaders were willing to reveal their stance on water. Secretly, however, the war raged on. Napoleon is stated to have believed that water had never been wet, but could be wet given the proper governance. Nikola Tesla was ridiculed by Thomas Edison, who made an elephant wet with water before sending an AC current through it, which supposedly proved the wetness of water and the dangerousness of electricity, though in fact it proved neither.

Ultimately, the diverse beliefs on the wetness of water divided Europe into such a huge mess of countries that war was inevitable. A controversial water bill was decreed by Archduke Franz Ferdinand, which, in an echo of Caesar's demise, led to his assassination. This event led to the war without water, also known as WW1. It was a terrible time, and few people got to see water during it. There was, however, a lot of dirt.

Many thought that the Treaty of Versailles would end the debate once and for all, but it got worse. Then a painter began to suggest that paint was wetter than water. It didn't make a lot of sense, but he was passionate, so people fought a second world war. Fortunately, there was much more water in this one.

Once again, the war solved nothing. The Russians, who had always had a belief in ice as the answer to the question, began a cold war with America, who refused to even publicly discuss the issue. Eventually, the ice melted, and the Russians hadn't been paying attention, so they didn't get an answer. The Americans had gotten fat.

And now here we are. The world seems fine at a glance - but look below the surface, and you'll find companies exporting oil, also known as fool's water, into and out of countries in order to maintain a regime of secrecy and lies. The world puts on a watersport display to keep the war running beneath our sight. Do not trust anyone, my friends. Is water wet? State your answer softly, away from your screens - for not everyone will be happy to hear your answer, and for some, the question itself is too dangerous to be uttered.

Hail hydrate,

~A Concerned Citizen



A Woman Pushing The Boundaries



Ruth Bader Ginsburg, swearing in to Supreme Court in 1993
Author: Sarah Hillcock

Thinking of life today, a woman in a position of power is common, though not as common as one might want

it to be. It's not unheard of to think a woman can do anything she puts her mind to if she works hard. But this has not always been the case. It's actually a more recent mindset than someone today might want to believe. The strongest and one of the most inspiring representations of this in history is the story of Ruth Bader Ginsburg, an iconic woman in history who will be missed. Born in 1933, she pushed boundaries and changed the path for women everywhere. Studying at Cornell University for her undergraduate bachelor's degree, then attending Harvard to start law school, Ginsburg was one of a handful of women in law school in a primarily male-dominated field. After transferring to Columbia, she graduated first in her class, then switched into academics as a professor at Columbia and Rutgers law school. Remaining as one of the few women in her field, little did anyone know she would soon be making history.

Practicing as a lawyer with a focus on gender equality and women's rights, Ginsburg worked her way up, defying the odds and forever changing history. In 1993 she became the second female justice and the first Jewish female justice to have a place on the United States Supreme Court. Though her position is most notable, she also had many other achievements: in 1972 Ginsburg co-founded the Women's Rights Project at the American Civil Liberties Union (ACLU), and her groundbreaking briefing on Reed v. Reed was one of her six cases brought to trial before the Supreme Court, five of which she won.

Ginsburg not only did all of this but also raised a family and took on lower income cases to support her community with a focus on the rights movements of the time. Ginsburg had been diagnosed with cancer five times, the last being pancreatic, which is what ended her time with us. Her resilience of working, having a family and facing multiple cancer diagnoses is truly inspirational. No one woman should have faced inequality in their field of study and in their journey through life. Ginsburg worked hard to create the pleasant reality we now know and take for granted each day, and to honour her memory donations from this year's CSES Boobies campaign will be donated to Breast Cancer Action Ottawa (BCAO). This local organization aids people with their breast cancer diagnosis through locating resources, treatment and counseling services.

Now take a moment, think about your goals, think about what inspires you and how those who came before you made their own path. Now get started on creating your own path and bettering the path for those who follow you; follow the inspiration and push boundaries.



COLUMNS



this could be yikes

Smooth(er) Air Ahead



Author: "Birdbath" - AERO, Graduated

2020 has been a bumpy ride for most, but for those of us who managed to graduate and put our Aerospace degrees to their intended uses, it's felt more like a nose-dive.

Compared to a record year of profits and production in 2019, almost all corners of the commercial aviation industry are now freezing investment, development, and enacting massive layoffs. Passenger travel, the core of the industry, has been crushed, and the majority of the world's aircraft are still parked despite the recovering economy and easing of travel restrictions. It is, without a doubt, a terrible time to be looking for your first job in the aerospace industry.

But do not despair, for there is light on the horizon. I am fortunate to be in a position that closely tracks the aerospace industry and I've spent the last 6 months monitoring the performance of manufacturers, airlines, suppliers, and just about anything else that flies and burns fuel. My aim, in responding to Owen's desperate call for articles, is to give some hope to those AERO IV, V... VIIIs grinding to join this wonderful industry, and to give you some guidance on where to look for work in the spring.

First, the bad news. Just about every top-tier manufacturer – Airbus, Boeing, GE, Pratt & Whitney Canada, Raytheon/UTC/Collins, etc. – are laying off roughly 20% of their workforce. Aircraft production and support, the cash-cow of the aerospace industry, has been set back roughly five years. Most of these companies have a hiring freeze on, and jobs for the next few years with these companies will be sparse. Passenger air travel isn't expected to reach 2019 levels until 2023-2025, as waves of COVID and closed borders keep international travel to a minimum. Likewise, investment in taxpayer-funded aerospace projects – defense, earth observation, space exploration – will be put on the backburner as governments struggle with the economic fallout of COVID, and attempt to avoid a prolonged recession.

But. And there is a 'But'. If I were looking for a job in the spring (and odds are currently one in five that I will be), here's where I would start.

Planes may be collecting rust all over the world, but there is good money in cleaning that rust off. MROs (Maintenance, Repair & Overhaul) businesses remain profitable, as planes need maintenance whether they fly or not. Some MROs, like KF Aerospace out in BC, also deal with converting aircraft into freighters – and freight air travel is booming, with many airlines tem-

porarily or permanently converting passenger jets into cargo haulers. Engine shops, similar to MROs, will also pick up before aircraft manufacturing, as airlines take advantage of the downturn to perform time-consuming engine teardowns and maintenance.

Manufacturing in the defense sector, despite the reduction in government spending, has largely weathered this downturn, and opportunities should appear as companies finish redistributing their employees between divisions as part of the layoffs over the next six months. Boeing, notably, despite being drained of cash by the 737 MAX grounding and challenged on the 787 line, has kept the lights on thanks to the decades-long contracts funding their defense branch. Canada has a wealth of smaller companies funded by defense spending, like L3, Magellan, MDA, that supply critical or niche components to both the commercial and defense industries.

Likewise, commercial space ventures have stayed relatively active and continue to recruit. The necessity of remote work and closed borders has highlighted the inequalities in global internet access – a need that projects like SpaceX's Starlink, or OneWeb, are banking on. Canada has also committed to the NASA-led Lunar Gateway project, and both the Canadian Space Agency and suppliers are recruiting as contracts are allocated and money begins to flow.

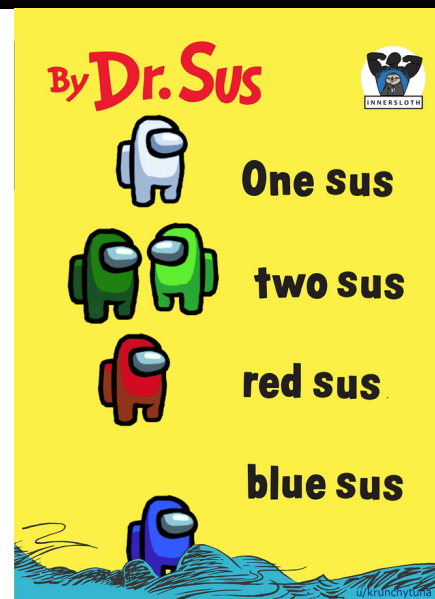
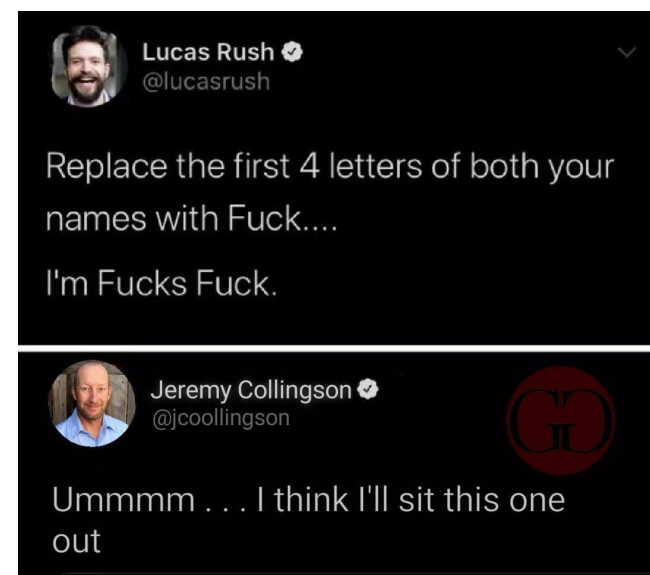
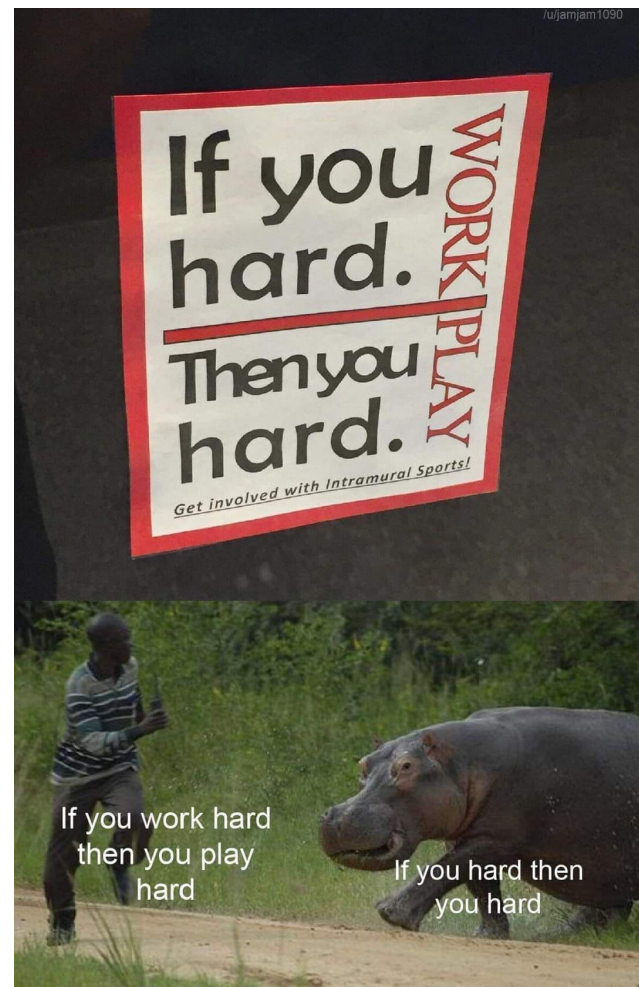
Business jet manufacturers, like Gulfstream, Cessna, and even Bombardier have in-demand products that will sell as the economy recovers – the current restrictions on commercial travel have already pushed companies and wealthy individuals back into private jets, reversing a trend that had seen business jets losing out to more financially reasonable first-class tickets. Keep an eye out for opportunities as Bombardier ramps up its Global 7500/8500 and transfers that production from Downsview to Toronto Pearson.

Finally, environmentally conscious aerospace projects continue to see investment around the world. While "green" is far from a priority south of the border, the UK, France, Germany and Japan have all committed billions to the development of "Green" aircraft, as a form of COVID-support for aircraft manufacturers. Companies in Europe are recruiting engineers across all disciplines with a focus on hydrogen, hybrid and electric aircraft technologies, and major manufacturers like Airbus are shifting gears to make large-scale zero-emissions aircraft a reality before the end of the decade. The opportunities are not just to be found in the design of these aircraft- regulators like Transport Canada will need to recruit and invest to adapt aviation regulations to these new technologies.

If you've made it this far through my tortured prose, I salute you. You're going to be just fine. Finding a job in the aerospace industry has always been a grind, relying more on luck than grades and skill. But aerospace companies are not stupid, and neither they nor governments are willing to let an entire generation of engineers go to waste. Stay passionate about aviation, cast your net as wide as you can and don't give up any opportunity to get your foot in the door, even if it wasn't the quite the door you had in mind. Jobs like Procurement, Quality Control and Sales & Marketing all rely on the soft skills you've learned throughout your time at Carleton Flight-suit kegers.

I wish all my AERO brethren the best of luck, and I'll see you in the field.

P.S. if you're worried I'm leaving out the other streams, for my next article, I'll be briefing CIVE on how they're about to be screwed by the housing bubble.



wait a second... I'm in aero... fuck.



COLUMNS

To all my close friends who didn't fill out the form, i hate you.



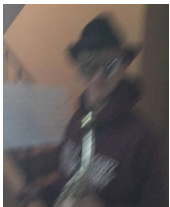
Which pokemon are you least like and why?



Nathan Tobin
ELEC II

Lopunny, be-
cause I can never
be that Thicc

Chandler Aitken
ENG PHYS V



"Chandelure", despite
the similar name I am
not a sentient light
fixture



Lachlan Alexander
BMED MECH II

I am least like Cater-
pie. Caterpie is small
and ugly and I am



Julianna Clarke
BIT IMD V



Micheal Loh
ENG PHYS III

Pikachu cuz nobody
knows what an eng
phys is

Janice Tagak
COMP SYSC I



pinkacho because i can't
make lightning idk I never
played the game

Idk but I'm most like
squirtle because I
stay hydrated

Nikita Yovchev
BMED ELEC II



Machamp because he has
like 4 hands and I only
have 2 and that's pretty
whacky imo



Nick Butler
MECH III

Snorlax I have trou-
ble sleeping for 7
hours a day.



Caroline Lenarcic
AERO C V

Ash Ketchum....oh....you don't
think he's a Pokémon? Be-
cause it seems Professor Oak
chose him and trained him....
sounds like a Pokémon to me.



Daniel Shifman
CS V

I am least like smoo-
chum, because reasons



Andy Curtis
AERO SEE V



Alex Miller
ARCH D IV

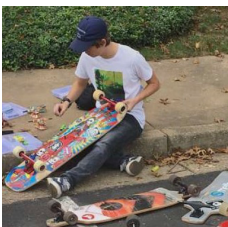
Charizard because I
am not scary enough
to breathe fire, also I
can't fly and don't look
good in orange

Ludicolo, I can't dance
for shit

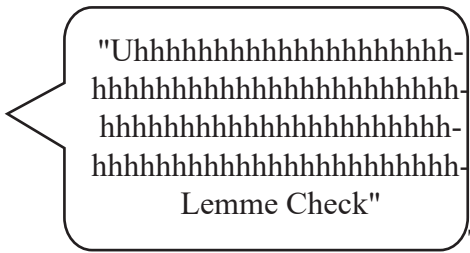


Zeyad Bakr
ELEC II

Scraggy because he looks
like a bitch



Kole Tromp
ID I



ter Magnemite because look at this little fuck what is he magnets, little magnet boy whats he gonna do? attract metal lmfao. cmon man hes got zero % of the same dna as me. Like even bananas have 60% similar genetic similarity and this guy? probably like 0.1% because of me breathing in the

Gyarados because I cannot fly and am not a giant blue dragon

Feraligator. Mainly because I love his previous evolutions, but he's just terrible. And not in the terrible but lovable Dragonite dumb Barney dragon evolution, feraligator is just an ugly hunchback crackodile.

I am least like Uxie, "the being of knowledge". This is because especially when it involves pokemon, I don't know anything.

Eric Lacey
BIT IMD ???

////////////////////////////////////



a healthy dose of
cognitive disso-
nance



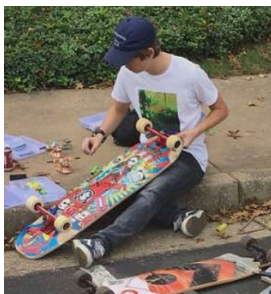
OREOS



Have you considered don't?



I don't like to



I can't, but he can.



Pet a puppy?

Embrace it. Become
it. Spread it like the
plague it is.



Did you know? You are actually under no obligation to suffer through existential dread indefinitely! You can take concrete steps such as practicing self care and attending therapy to mitigate the effects of the pain of being alive! Yes, even you! Even me!

ignore it and bottle it up, put that bottle inside a bottle, then that bottle inside another bottle and that bottle inside another bottle, put that bottle inside a bottle, then that bottle inside another bottle and that bottle inside another bottle, put that bottle inside a bottle, then that bottle inside another bottle.



By starring into
the yawning abyss
that is CULearn

By trying to ignore
it :)

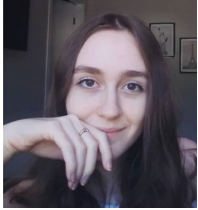
I escape by bringing all of my houseplants together around me like I'm a jungle explorer






COLUMNS


Some of you really need to read Caroline's answer



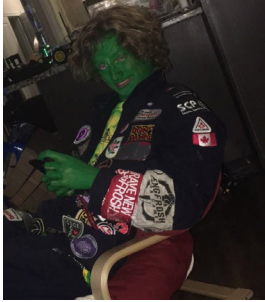
You guys deal with it?




Stair it in the face and just deal with it.




Ignore and repress and drown myself in Netflix




Nah B I let existential horror treat me right



I lost the ability to feel fear of anything that isn't physical danger after seeing Jaws




I don't. It consumes me.




Happy videos and funny memes go brrr


What is the best Halloween costume you ever made?




Minecraft Steve, but it was just a box I was wearing on my head




Dr. Peter Graves.




When I was 13 I dressed as one of my friends for Halloween because I thought her style was distinctive enough to make it easy to recreate... Imagine being so iconic that your friend cosplays as you.



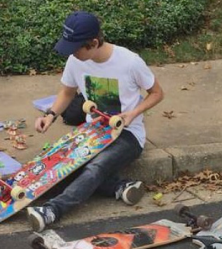
I went as Evan Hansen from Dear Evan Hansen



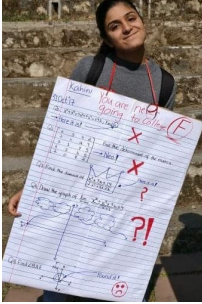
Qallupilluk, a mythical creature that steals



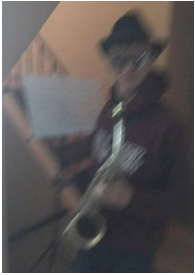
Canadian Lumberjack man




A hooker



A failed exam paper !!!!!!!




Either when I went as a playing card from Alice in Wonderland or when I went as Alice herself




That one that I saw that one time was pretty good.



Gonna be honest I'm not a very creative person, I'm choosing the priest costume I had a couple years back because people seemed to like it. They would say, "Thies the priest!" and then laugh a lot about it idk.



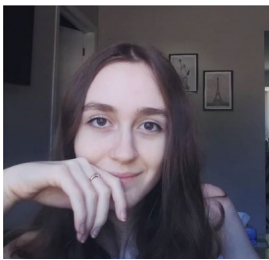
Realistically, my cubone cosplay for fsk2 that has worked for me at every con I've gone to since. But REALLY it's my Misty fsk2 costume that used the short shorts from my Ash Ketchum pornstar costume.



Best friend joint costume as Piglet and Pooh

POETRY

C-Eng really did speak this month



My friends and I dressed up as our d&d characters - I was a druid so I got to cover myself in flowers

Cactus



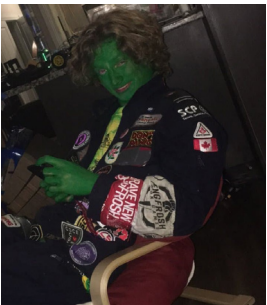
A delicious risotto prepared with the finest ingredience that ended up all over me after a per-ilous and misguided



That rug really tied the room together man.



Two Guys in A Trenchcoat



Gabe Karam
CIVE V

One year my friend made a faithful replica of an easter island head and wore it the entire night through a snow-storm. I was just the sidekick



My parents had a Tupperware bin filled with 4 kids worth of Hal-loween costumes, which lead to some interesting mashups

Iron Times Poetry

From C-Eng Poetry Night

Author: Артём

Time seems so vast.
I'm standing still, but never stop moving.
Days of struggle turn to reminisce.
Who am I, if not the bystander.
The tide marches on.
Footprints of fervor.
Leaving ephemeral ambition.

Author: d.deLyon

I remember how it felt when you told me
I'd changed
as an acknowledgement of my intentions
and a validation of my efforts
In that moment, I was seen

I remember how it felt when you told me
I'd changed
as an accusation of hypocrisy
and a warning I had strayed
In that moment, I was lost

In every attempt to project the dimensions of my authentic
self
onto a plane which others may perceive
there is clarity lost
obscuring the message
and distorting the truth

And as for us?

Every tick of the clock is a roll of the dice
A harbinger of uncertainty
Change is the law of the universe
Will it bring us closer together
or will it drive us apart?



CARLETON STUDENT ENGINEERING SOCIETY

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OCTOBER


2020

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|------------------|------------------------|--------------------------|-----------|----------|-------------------|-----------------------|
| 27 | 28 | 29 | 30 | 1 | 2 | 3 |
| CSES Fall Hiring | | | | | | |
| | FYIC Applications Open | | | | | C-Eng-C Day 1 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| CSES Fall Hiring | | | | | Boob-lesque 6pm | |
| C-Eng-C Day 1 | | CSES General Meeting 6pm | | | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | | | | EWB Run 2 End Poverty |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | | | | | Body and Pole 6pm | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| | | | | | | |

 Alexander's Office
3390 Mackenzie

 613-520-3616

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

 Open Fall & Winter
Academic Terms



CARLETON STUDENT ENGINEERING SOCIETY

3390 MACKENZIE BUILDING

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President
Logan McFadden

Hello friends! I hope the first month of school has treated you well and that you're starting to settle into a routine. We've got lots of cool stuff coming up this October so be sure to check out our Monthly Calendar on our website at mycses.ca. A lot of you have been wondering about our Engineering Jackets that typically start around now. Due to concerns about fittings on campus, the Jacket fittings are being moved to January; stay tuned for more details.



Finance Director
Dency Amalraj

Hey C-Eng, hope your month is busy because mine sure is! September is a busy month for finances as we're getting SGF ready to roll. Get ready to ask us for \$\$\$ for your societies and clubs. Can't wait to see your beautiful finance faces virtually!

"A man works hard all week to keep his pants off all weekend." - Mr. Krabs



VP Internal
Ahmed Abdalla

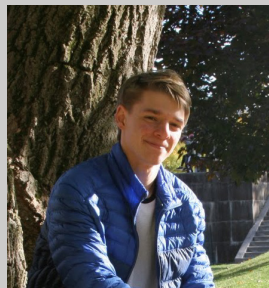
Brace yourselves. Elections are coming.

Hello! I hope you all enjoyed a fully virtual first month of school! We've got some big things coming down the pipeline! First: ELECTIONS! Nomination period starts on Monday, October 5th and ends on Friday, October 9th! If you are in: **BIOMEDICAL MECH, COMP SYS, COMMUNICATIONS, MECHANICAL, SREE A, SREE B** and/or if you are **A FIRST YEAR** or interested in being **VP FINANCE, RUN FOR COUNCIL!** CSES Fall General Meeting will be on Tuesday, October 6th! Come join us on bbb.mycses.ca and find out what CSES has been up



VP External
Megan Suchon

Spooky Salutations C-Eng! October in addition to being real spook hours is Breast Cancer Awareness Month! The Boobies Directors have lots of fun events planned (such as Boob-lesque and so much more) so come out to support! Conferences coming up this month are the CFES Conference on Diversity in Engineering and the ESSCO First Year Integration Conference! Also,



VP Publications
Andy Curtis

Hello C-Eng and Welcome to... wait... is it October? How are we already here? Anyway, we at CSES hope that you are all having a great semester so far. This month is breast cancer awareness month! Keep an eye on our social media @mycses for more updates on what is going on! Also, the e-Newsletter is live! To make sure that you aren't missing anything, make sure you sign up by going to <https://www.mycses.ca/publications>, clicking "eNewsletter" and entering your email address at the bottom of the page. Good luck with anything and everything you have coming up!

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.

Happy Spooktober C-Eng! Here on the Social side of CSES we have a special event planned for October. CSES is joining forces with your Carleton Engineering Stream Societies to bring you the Stream Society Trivia Night. On October 8th, you can team up with other members of your stream society to win some awesome prizes! Stay tuned to CSES's social media for more information about this super fun event!

Cool Fact: Did you know that this year, CSES is running bi-weekly online events?! These events will be starting October 1st and will continue on a bi-weekly basis. Be sure to check CSES's social media and website events calendar (mycses.ca/events) for more information about these events!

Hey C-Eng! October is here so get your pumpkin spice ready! I have been super busy organizing a 3300 Block Discord for the membership to use. If you have not joined the server yet, I suggest you do. This will allow you to keep up with all affiliated groups' events as well as ask general questions. The link can be found here: <https://discord.gg/7WuJMgP>

I decided to move the FED long sleeve design contest to the next semester as new swag will be going live this term. The Carleton Engineering sweater orders have opened up and are now live on our third party website (www.shopaccentlogos.com). Also on the website are some cool C-Eng face masks! Now you can rep C-Eng while staying safe! I have also polled the memberships interest for C-Eng Nalgene bottles. I am happy to say will we be going through with the order, so stay tuned!

Boo! Well, October is a super swanky time of year, and it's not just because of Halloween. It's mostly because of C-Eng-C! C-Eng-C (the Carleton Engineering Competition) is an annual competition hosted by CSES. It's an opportunity to compete with your peers, meet some incredible judges, and win some awesome prizes! Round 1 is taking place on October 3rd and 4th, and we have 27 teams registered to compete. That's a lot of teams! Thank you to everyone participating!

Did you miss your chance to register for this round? Don't worry too much because you still have another chance! Round 2 is coming up, so stay tuned for registration details! That's all from me for now, and I'll catch you on the flippity flip!



VP Social
Davis Moore



VP Services
Kristen Johnson



VP Academic
Macie Orrell

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

Guess i gotta start ordering chicken nuggets

Spookyscopes

Written By: Daniel Haycocks-Tulli

Aries

THIS IS THE MONTH YOU GET LEFT ON READ BY GOD.

Taurus

YOU WILL ORDER WHAT COULD BE CONSIDERED BY MOST MORTALS TO BE AN ABSURD AMOUNT OF CHICKEN NUGGIES (50) AND FINISH THEM AGAINST ALL ODDS. YOU WILL NOT FEEL HUNGRY UNTIL TWO DAYS AFTER DUE TO THE SEVERE QUANTITY OF NUGGIES YOU HAVE CONSUMED WHEREBY YOU DO IT ALL OVER AGAIN. FOREVER.

Gemini

YOUR GROUPMATES MIGHT BE DISAPPOINTING THIS MONTH, BUT THEY COULD NEVER DISAPPOINT YOU AS MUCH AS YOU DISAPPOINT YOUR PARENTS. GET BACK TO WORK, LAZYBONES!

Cancer

IT'S GETTING COLD OUT- THAT MEANS IT'S TIME TO GET WARM AND COZY. COUPLE UP WITH SOMEONE FOR A FEW MONTHS SO THAT THEY CAN USE YOU FOR BOTH WARMTH AND CHARACTER DEVELOPMENT. GOOD LUCK :)

Leo

YOUR MIGHT BE ACTING LIKE A LIL' BITCH RIGHT NOW BUT JUST KNOW THIS: YOU WILL NEVER BE AS MUCH OF A LIL' BITCH NUGGET AS SHINJI IKARI! YOU CAN DO THE THING, YOU CHAMPION (YOU JUST HAVE TO BE LESS OF A LITTLE BITCH

Virgo

THIS IS THE MONTH YOU GET REALLY INTO QUEEN, ONLY TO REALIZE YOU WILL NEVER BE ABLE TO SING LIKE FREDDY. BUT THAT'S OKAY! IT'S NOT ABOUT SINGING LIKE HIM; IT'S ABOUT RADIATING A FRACTION OF THE POWER HE ONCE DID. THAT, AND TRYING TO SING 'WE ARE THE

Libra

OCTOBER IS THE SP00KYEST MONTH OF THE YEAR WHICH MEANS YOU WILL BE SEEING A LOT OF GHOSTS. NOT ACTUAL GHOSTS THOUGH, JUST PEOPLE WHO GHOSTED YOU BUT IRL. REST ASSURED IN THE FACT THAT YOU HAVE GHOSTED JUST AS MANY PEOPLE AND THAT HUMANS ARE FUNDAMENTALLY ALONE IN THEIR EXISTENCE AND NOTHING CAN EVER FILL THE VOID OF LONGING WE ALL EXPERIENCE. EXCEPT OF COURSE FOR SHAWARMA, WHICH CAN FILL THE VOID IN ANYONE'S HEART WITH MEATY, GARLIC-Y GOODNESS.

Scorpio

YOU MIGHT HAVE 3 PROJECTS, 5 ASSIGNMENTS AND 7 PROBLEM SETS TO FINISH, BUT THAT'S NOT GOING TO STOP YOU FROM DOING AN ABSURDLY POWERFUL EDIBLE THE DAY BEFORE THE ALL THE DEADLINES CONVERGE! ASCENSION IS YOURS AND YOURS ALONE, AND THAT EDIBLE WILL GIVE YOU THE POWER TO COMPLETE YOUR SCHOOLWORK EVEN IF YOU DON'T KNOW IT'S HAPPENING.

Sagittarius

YOU WILL SPEND THIS MONTH TRYING TO SQUEEZE THE BEST DEAL POSSIBLE OUT OF BIG TELECOM COMPANIES BY BLUFFING THEM INTO DEALS WITH RAZOR-THIN MARGINS USING 6-D CHESS BIG BRAIN STRATEGIES.

Capricorn

YOU WILL GET GASLIT BY A PANINI PRESS BECAUSE, EVEN THOUGH IT WILL CLOSE, IT STILL LEAKS MELTED CHEESE ALL OVER THE GODDAMN COUNTER EVERY TIME, NO MATTER HOW MUCH SHIT YOU PUT IN IT.

Aquarius

EMOTIONAL SUPPORT KETTLEMAN'S: [HTTPS://WWW.KETTLEMANSBAGELS.CA/MENU/](https://www.kettlemansbagels.ca/menu/)

Pisces

THIS IS THE MONTH YOU GO MICRO-WAVE SHOPPING FOR THE FIRST TIME. YOU CERTAINLY KNEW THAT YOUR MICROWAVE COULD HANDLE WARMING UP SOME MASHED POTATOES BUT YOU DIDN'T KNOW THAT IT COULDN'T HANDLE WARMING UP THE SPOON THAT YOU ACCIDENTLY LEFT INSIDE THE BOWL. PERHAPS YOU WILL BE MORE CAREFUL NEXT TIME, OR PERHAPS YOU WILL BUY A BACKUP-MICROWAVE™.

DISTRACTIONS

thanks daniel and caroline for most of these



Nobody:
Lizards in summer:



True Facts about the Agama lizard:

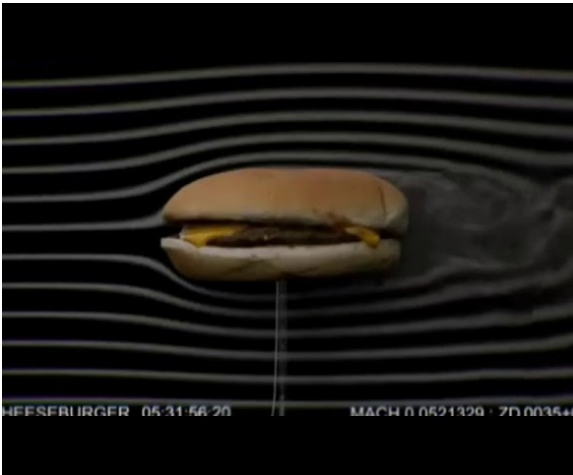
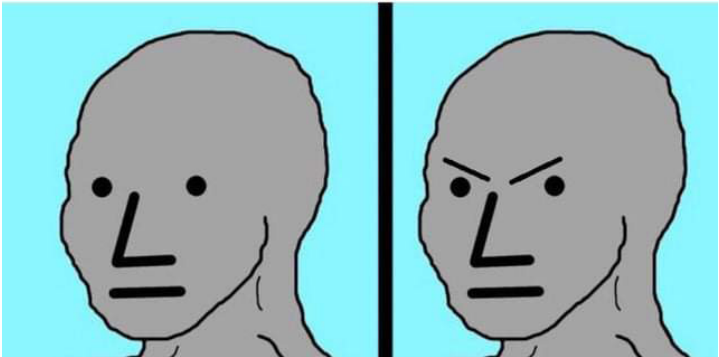
- The Agama lizard works out
- The Agama lizard is king of the gym
- The Agama lizard is certain he can out-bench you
- The Agama lizard is not only buff as hell, but stylish; your leggings are far less fabulous than his, and your tops lack the confident, bold splashes of color he drapes himself in. Learn from his example.
- The Agama lizard never skipped a leg day in his life and it shows.
- The Agama lizard is so swole he gets stretch marks when he flexes.
- The Agama lizard is so ripped that his bodyweight squats are more weight than most people's max.
- The Agama lizard knows you're thirsty for him
- The Agama lizard doesn't give a fuck

it's just me and my emotional support cigarette summoning the will to live every goddamn morning



Some river in the woods: *has running water

Beavers:

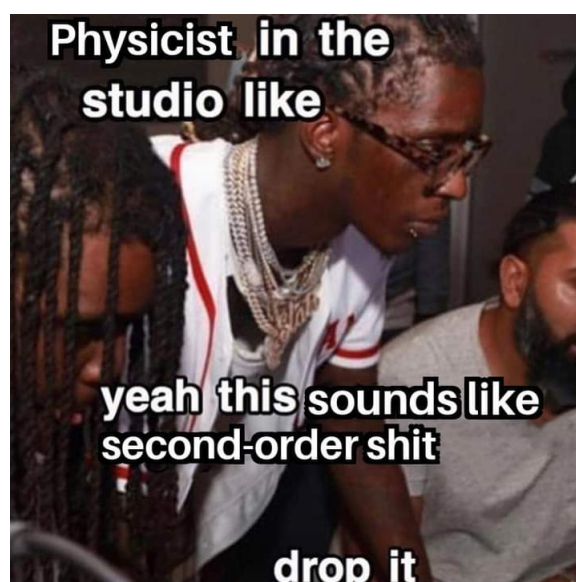
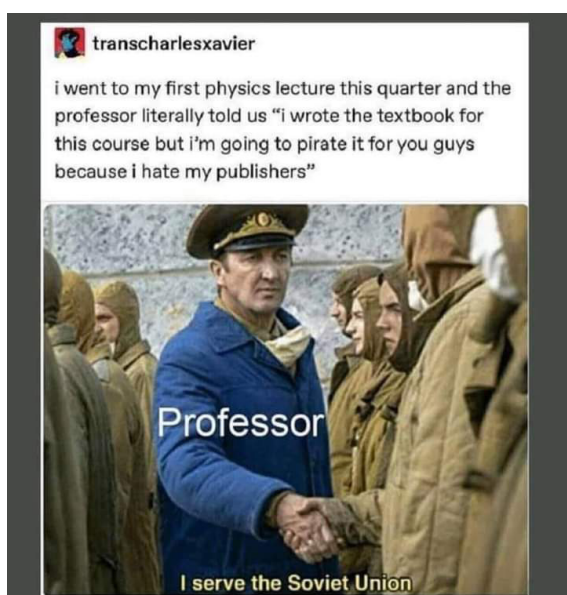


When you use the wrong formula to solve the problem, but somehow get the right answer



DISTRACTIONS

why was the Leo's discord full of cow memes right now



DISTRACTIONS

Print it and try!



The guy who got the perfect design for 2020 logo and it gets moved to 2021



Getty Images | Boston Globe

Schools Are Removing Analogue Clocks Because Students Can't Read Them



"Describe Americans using a single picture"



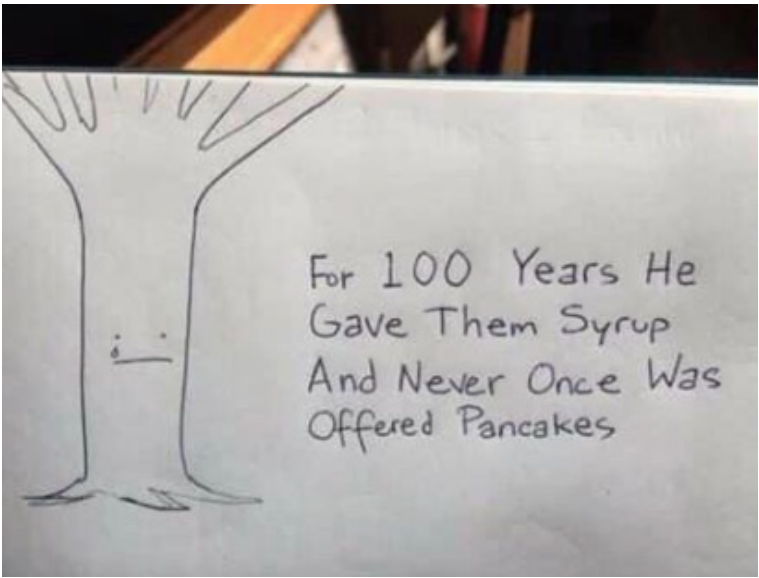
Get rid of Glocks in the classroom

Get rid of clocks in the classroom

When one of your classmates suggests doing a sit-up every time the online professor posts a lecture late:



Me:



Parents, just because your kid is looking at their phone and smiling doesn't mean that they have a bf/gf. It might be because they are looking at pictures of sustainable architecture



A portrait of a man with glasses and a mustache, smiling at the camera. He is wearing a dark blue jacket with a Canadian flag patch on the left sleeve and a baseball cap with 'ENG FROSH' text. He is outdoors in front of a building and trees.



```
> read it
```