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the carleton student engineering newspaper

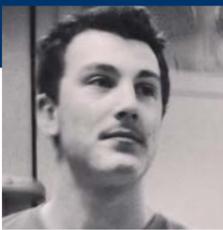
THE IRON TIMES

Who Celebrates the World!

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December 2015

Electric Buses not Cars... for now



Elliott Berg
- SREE B III -

The main advantage - aside from the environment - of the electric vehicle is that the operating costs are far lower than conventional vehicles. The disadvantages are charging time and range. Of course there are a host of other differences: initial cost; power; smoothness; safety; refueling/charging stations etc., but none of much significance.

Now, the logical way to use electric vehicle technology is to implement it in a situation that makes use of the advantages and reduces

the impact of the disadvantages. So, to take advantage of the low operating costs, one would implement the technology on a vehicle that is under high operation and typically requires a lot a fuel - a bus rather than a car. Now I understand that Elon Musk can provide a simple answer for nearly every situation an electric car could find itself in but the lack of charging stations, long charge times, and rather limited range still makes getting from A to B more difficult. This would not be an issue if the routes were planned; if it was the same route day after day no planning would be required. I hope you see where I'm going with this....

A bus system would never run into problems. Af-

ter a couple times through a route the bus would stop to charge and another takes over. The bus remains in the city so range isn't an issue, charging times can be solved by the system and charging stations can be built if necessary.

Now I realize that overhauling an entire city's bus system is pricy but when diesel city buses get only about 75 liters/100 km in the city, a case could certainly be made for electrification. Don't take this as a case against electric cars but as a logical argument in favour of shifting the focus to a more realistic goal of electrifying buses rather than cars.

Sorry Elon.



BENEATH THE COVERS

WHO YA GONNA CALL?
STRESS BUSTERS!

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YOU DON'T KNOW ME

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AND MUCH MORE!!!



WARNING: This publication may contain offensive material, and should not be read by anyone who is easily offended. All opinions expressed within are solely those of the writers and contributors, and do not reflect the views of the Carleton Student Engineering Society. This paper is 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: irontimes@cses.carleton.ca

EDITORIALS

One can always hope

FROM THE DESK OF THE EDITOR



Rebecca "Swallow" Feddema
- Arch Eng III -

So every year, since I was in high school and I actually started writing these exam things, there has been an issue. I do not know how to make myself study.

Quick disclaimer: I haven't actually failed any course yet, and sometimes I do get in a miniscule amount of study-esque time before an exam. The problem is I never get to the point where I feel totally ready and well-studied for a final.

Maybe This Will be the Year That I Study

Every year is the same, exam time rolls around and I end up dipping out of the whole study thing. Now its not that I don't know how to study. I have enough theoretical knowledge of studying to run a workshop about it. I get it, you read through your notes, you do practice problems, and you memorize important things. If anything this theory damages my chances of successfully studying even more. I know what I should be doing and I tell myself I don't really need to do it. I will sit down at a desk, with my notes, ready to get started studying, but I just don't. Instead I will stare off into space, I will refresh Facebook 20 times, I will use up every live I have on every game

on my phone and then download a new game. And even when I try to get rid of the distractions it doesn't work. I will spend forever making a beautiful title page for my notes, I will organize my writing utensils, I start developing the absolute perfect way to write out what I'm studying and then I just don't even start. Even when it is something super simple, like just making a crib sheet. I will spend an eternity trying to get my writing as small and legible as possible instead of actually writing out the freaking equations.

And let's not even start on my procrastination skills. Well actually, seeing as I could be doing school work right now might as well continue writing this editorial

instead. I procrastinate like it is my job, and half the time I procrastinate by doing my job. I work in residence and it is exceedingly easy to ignore my schooling and spend three hours making a pretty bulletin board instead. Or sometimes I will spend time filling out droves of forms and paperwork, that aren't due for a month, instead of studying. Anyway, my job makes it far too easy to not do those academic things I should. And I'm just honestly skilled at procrastinating. I am the best at telling myself I still have time.

The main reason, or really the only reason I have ever been able to come up with for this lack of focus is this instinct. Something inside me keeps say-



Ryan "Hell Boy" Waddell
- Arch Eng III -

December. The month full of holiday cheer, family, candy, chocolates, and presents! For the first years out there you're probably used to looking forward to the fantastic month at is December, but university has decided to mess that up for you... What was once a stress-free month, with minimal work and good cheer, is now a stress filled month, with too much work and terrible moods. Exams. They've ruined everything. Or at least that's how it feels, but let's make a list of positives and negatives. We'll start with the negatives to get them over with:

Negatives:

- Exams
- Studying for said exams
- Finishing up final assignments, tests, and quizzes
- Getting gifts for family members
- Getting gifts for significant others (Applicable to some people)

December Survival

- Getting gifts for friends (Completely optional)
- Thinking of gift ideas for all these people
- Planning your way of going home for the break (For those away from home)
- Figuring how on earth you can possibly bring those gifts home for your family (Again, for those away from home)
- Paying for your way of getting home (if your parents aren't able to pay for it)
- General lack of holiday spirit due to stress

So there are more than enough negatives to validate your stress. Now let's try the positives:

Positives:

- END OF FALL TERM!
- NO MORE WORK (After exams)
- Receiving presents
- Seeing the smiles and happiness in people when you give them the gift(s) you put so much thought into
- Seeing family (sometimes a positive sometimes a negative...)

- Holiday parties!
- New Year's Eve!
- Catching up on sleep
- Bingeing on shows/movies/books that you've been missing out on due to exams
- Satisfaction of getting through the first 1/8th of a VERY difficult degree (or 1/10th, or 1/12th, ...)

So, right now we have 11 negatives, and 10 positives. We can do better than this. One of the best ways to survive Exam Season is to change your outlook on what you're doing. How to turn some negatives into positives:

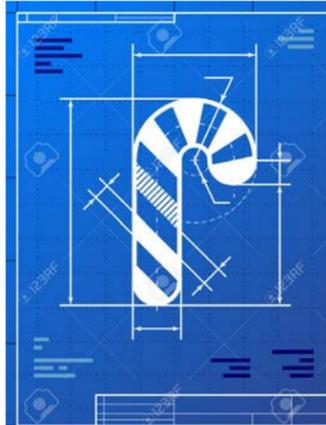
• **FINISHING ASSIGNMENTS/TEST/QUIZZES:** Once these are done you'll only have exams to stress about. **JUST DO IT.**

• **STUDYING FOR AND WRITING EXAMS:** hard to make this a positive, but it's just something that needs to be done.

• **FINDING GIFTS:** Okay, so yeah, maybe it can be difficult to think

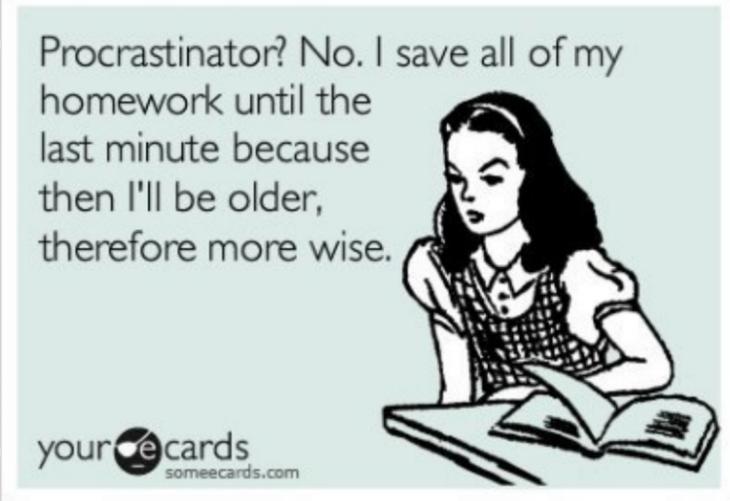
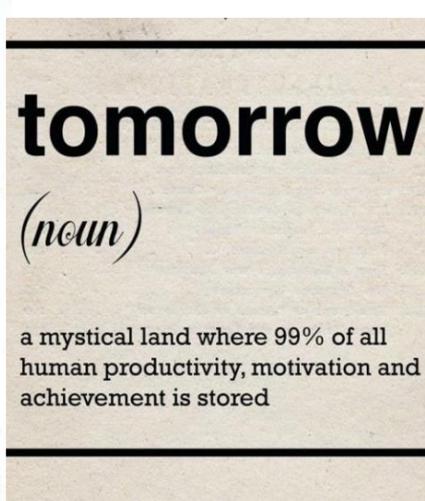
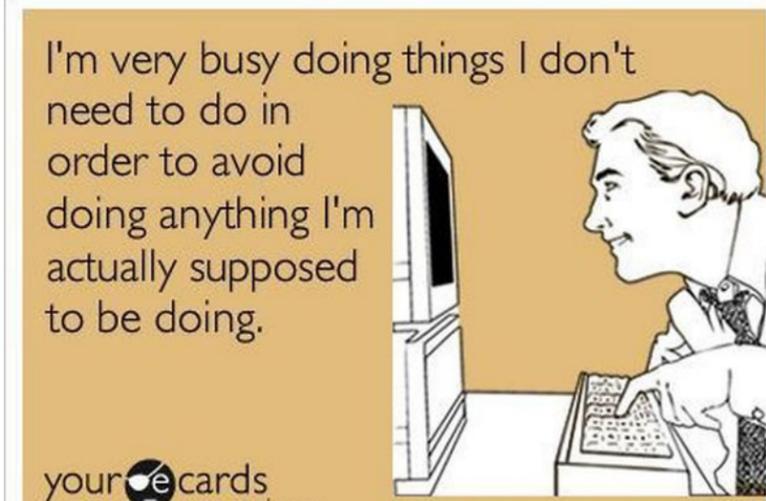
of a good gift for someone, but once you get the idea of what you want it'll be easy! It also gives you an excuse to get to

know someone better! They might like well-thought out gifts with lots of meaning, or something simple like a Tim's card, or even just a card with a thoughtful note. Thinking of a gift is pretty much as far away from anything engineering-related as you can get, so it makes for a good study break! One idea which lots of people go for is baked goods! A great idea where you can make a bunch of the same thing, to gift to multiple people, while still being appreciated, because who isn't going to appreciate fresh baked goods? And its not necessarily impossible in res, there are microwaves and Google recipes. And baking is even a study break on its own! Take break to find a recipe you like, then do some studying. Take a break to get all of the ingredients, then do



EDITORIALS

See I have skills, just not very useful ones



ing I will be able to get by without putting in studying effort and so far it has kind of worked. Since grade school I have learnt by simply paying attention to what the teacher was saying. I was able to remember most of the important things and therefore when time came to test me I would just think back and remember what was said in class. Now this worked marvellously for all of elementary school and when I went to high

school the same tactic worked. I sat at the front, listened to what was said, and sometimes even wrote things down. There is one problem with this tactic however. Eventually you get to a level where listening is not going to be enough. Now if that stage had come in first year, or even in the last bit of high school, I would have probably been able to learn some studying discipline. I was not that lucky.

The problem is that my brain is super convincing and easily able to persuade me into thinking that I know enough of the material to pass. I will look at practice problem, sneak a peek at the answer and tell myself I would have gotten it if I had tried. Or I will read over a review sheet of topics and my brain will bullshit some kind of "yeah I totally remember that thing" and I will move on thinking I am fine. The

problem is most of the time I'm not.

Anyway, every heard the saying the first step is to admit you have a problem. Well this is me admitting it. This year I'm going to try something else. Not sure what yet. Maybe I'll actually go to the library. Or maybe I'll rewrite out all my note. Either way I'm going to try. Perhaps this is it, the year I actually study!

more studying. Next day, do some studying, then take a break to put all the ingredients together and do all the prep work for the baking, then do some studying. After, put the prepped stuffs into your baking, set yourself a timer, and get back to studying! Once the timer goes off, do whatever the recipes instructs next, and then wrap them all up (might need to cool first), and get back to studying! You just got all your gifts out of the way, and did a bunch of studying at the same time! Talk about efficiency! If you want you could also personalize some of the goods for certain people, or add a card or some other small touch! Now, if you're not into baking then use those study breaks to think of something to get your peoples! Once you have your ideas, do some more studying, then find time to make breaks to go purchase (or make) whatever your gift is!

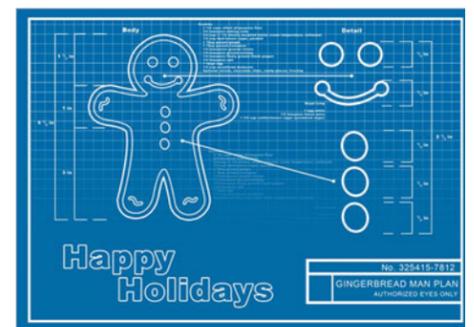
• **BRINGING GIFTS HOME:** This one could be tough... First thing first, think about this out before you start choosing what you'll be getting people, as this could impact what you choose as gifts. If you don't live too far away, you could look into finding friends

who are driving the same direction, and they might have space in their vehicles for the gifts. Another option would be to try to pack lightly so that you can fit the gifts in your bag(s). The best option though, would be to do your gift shopping/making once you get home. This one only really works if you finish all your exams REALLY early, or you're very good last minute gifting. If neither option works then I would recommend using that Amazon Prime student perk and hop on the online shopping bandwagon. You can purchase your gifts online, and have them shipped to your home address! Just don't forget to tell your parents you're expecting something, and they cannot open it, otherwise it'll ruin the surprise!

• **TRAVELLING HOME:** This part is completely dependent on your outlook. I mean, sure, getting things organized kind of sucks, but getting it done is absolutely worth it! (Disclaimer: I'm from Ottawa and have never actually had to organize this, so that statement was full of assump-

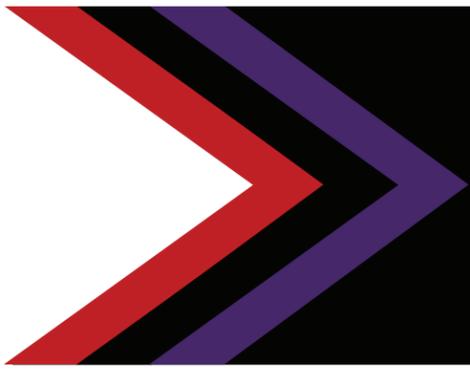
tions...I could be completely wrong in my assumptions, in which case I'm very sorry). Now, having to pay for your way home is a bit of a different story... Money is tight for pretty much any student, so this part is bound to be rough. But in the end, you'll be seeing your family for the holidays, getting home-cooked meals, and possibly even seeing your old friends! And that kind of quality time is priceless, so if you can get over the initial cost and keep in mind how much invaluable time, memories, and traditions with family and friends you'll be getting to partake in, then it really doesn't seem too terrible, does it?

• **GENERAL LACK OF HOLIDAY SPIRIT:** This tends to be due to a mix of exams, and lack of decorations. I always find I miss how excited everyone used to get for the holidays. Best way to fix this is to get yourself hyped! Go to the dollar store (10-15 minute walk from South Keys) and buy yourself some cheap decorations! Go for walk in the snow, have a snow ball fight, go tobogganing (gar-



bage bags will work as long as the hill isn't too icy for your knees; all this assuming we have snow by now), go look at all the lights on houses, wear some holiday colours, or a Santa hat (if Christmas is your holiday), or throw on an ugly sweater! Just because other people aren't excited doesn't mean you can't be! You could even get a group of friends to go out for a dinner, and get dressed up a little, go to a Swiss Chalet or St Hubert, and get some rotisserie chicken, do a family dinner style thing with your school family! (Because we all know we have that one group of friends who are basically your family away from home).

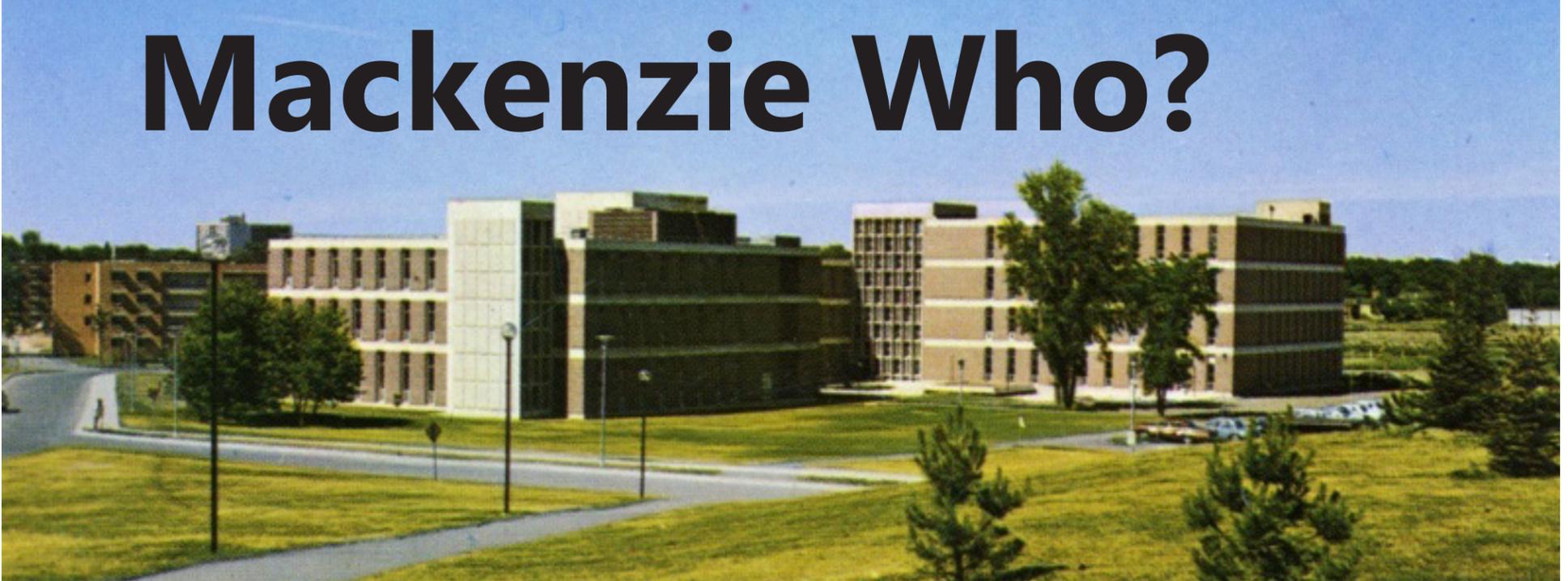
There we go! We just went from 11 negatives and 10 positives to 1 negative and 15 positives! So keep on keeping on C-Eng! We're almost done this semester!



EDITORIALS

The building looks so young and full of life

Mackenzie Who?



Maryn Marsland
- Computer Systems IV -

From those early days wandering hopelessly lost in first year (Is it floor then block, or block then floor??) to the hours spent in Leo's avoiding the pesky realities of impending midterms, you've doubtless spent countless hours your engineering education in the infamous blocks of Mackenzie Building. And who hasn't taken an emergency nap or two in the back

corner of McCoy's or honed their appreciation of art and beauty through deep reflections on the sculpture that so magnificently dominates the quad.

But, I ask, what do you really know of the story behind the namesake of this special engineering building that we all so dearly love? Not much you say? Well luckily I am here to educate.

The Mackenzie Building, opened in 1965, is named after Chalmers Jack Mackenzie, once chancellor of Carleton University - and always awesome. What exactly did this C. J. Mackenzie do? The real question is what didn't he. This man was non-stop.

First up, his role as Chancellor of the fine institution of Carleton ran from 1954-1968. This was a very important time for the school, as it went through its move to the current location and grew up from a little baby college to a full-fledged, independent-adult university, all under his direct guidance. During this time Mackenzie also advised the government on science

policy, worked with the National Research Council, and was involved in founding the Defence Research Board (amongst many other such casual pastimes). And all this in his so called 'retirement.' Before this super chill, relaxed period of his life, Mackenzie served many years as one of the frontrunners of the industrial, scientific, and engineering development of Canada through the twentieth century. So let's go back and see where the great man began, shall we?

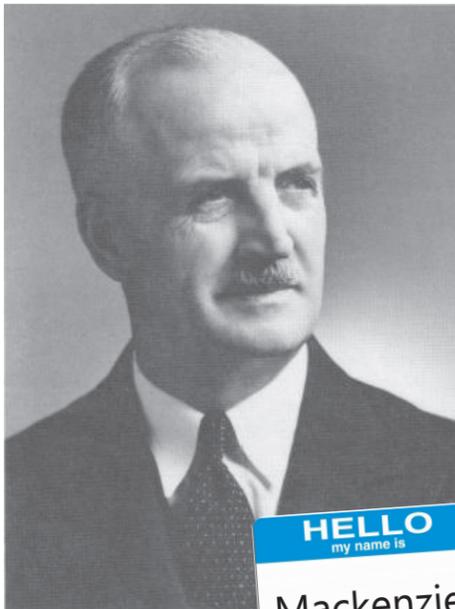
Mackenzie started out his #englife at Dalhousie University in 1905 at the fresh-faced young age of seventeen, graduating in 1909. He soon began working with the University of Saskatchewan, striving to bring engineering education to those prairie kids and helping the school hold its first engineering undergraduate class in 1912. Then First World War got in the way and he popped off to Harvard, as you do, to quickly grab a Masters in Civil Engineering before going to serve in France for the duration of the war, right up to and including the Armistice

Day, November 11, 1918.

Upon his return to Canada, Mackenzie resumed his work in Saskatoon, and when the small engineering department at the U of S became the College of Engineering, Mackenzie became the Dean of Engineering. Dean Mackenzie by the age of 25. These are the kind goals to strive for and inspiration to be gained from staring at the walls of Mackenzie Building, trying to stay awake in class. And our dear friend Mackenzie only went up from there.

Under his watch the engineering school grew from 6 students that very first year all the way up to almost 500 students in 1939. Just in time for the Second World War. When the war broke out, Mackenzie headed off to Ottawa and began his lifelong task of leading Canada in its wartime and postwar development.

Canada, and the world, developed in the fields of science and technology immensely during this time period. Wars tend to do that. And good old Mackenzie was right there to take the coun-



HELLO
my name is
Mackenzie

EDITORIALS

Where would we be without Mackenzie?



AECL
EACL



try's scientists and engineers where they needed to go. He had been involved with the National Research Council for a few years at this point, so when they needed a temporary president for the wartime Mackenzie was the top choice. And he rocked it.

As NRC president, one of his wartime tasks was to work on trying to develop icebergs to land planes on in the ocean. Sounds super fun, right?! British PM Churchill certainly thought so, and he specifically asked Canada to work on it (because when you need help with ice, where better to turn than Canada?). After some testing it was concluded that this was actually totally not going to work, and poor Mackenzie had the awkward job of telling Churchill that the plan he so loved was a bust. But Mackenzie got a trip to England out of it and got to hang out with the Prime Minister so don't feel too bad for him.

After the war Mackenzie continued to head the NRC for a while, working with and supporting many prominent scientists and engineers (do the names Steacie and Herzberg ring any bells?) and helping Canadian research and development to continue to grow and thrive. He also worked particularly in the emerging field of nu-

clear power production in Canada and spent the several years leading up to his retirement first as president of the Atomic Energy of Canada Ltd. and then of the Atomic Energy Control Board.

On top of all of these great achievements and contributions to Canada, he was also a father of three, received many awards, commendations, and honorary degrees, and was, by all accounts, a friendly, dedicated, optimistic, and all-around great guy.

Now you are free to continue on with your education and the days spent joyfully (surely) in the hallowed halls of Mackenzie Building, knowing the all about the life and times of the great man for which they are named. Which will undoubtedly make that next lab report much less painful.

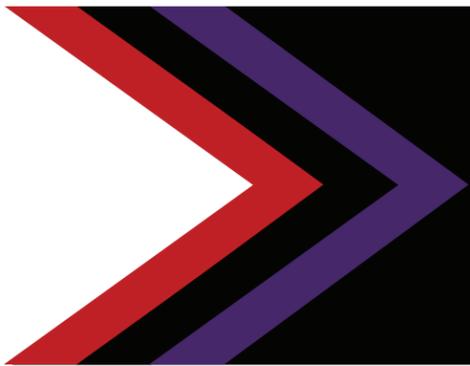


HELLO my name is Steacie



HELLO my name is Herzberg

<input type="radio"/>	<i>Want to write for us?</i>
	You know you do!
	The Iron Times is always looking for content from the wealth of talents that is the engineering community! Send us your stories, reports, pictures, or comics by emailing irontimes@ces.carleton.ca
	Did I mention it's a stamp?

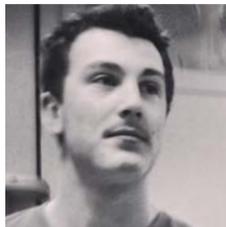


COLUMNS

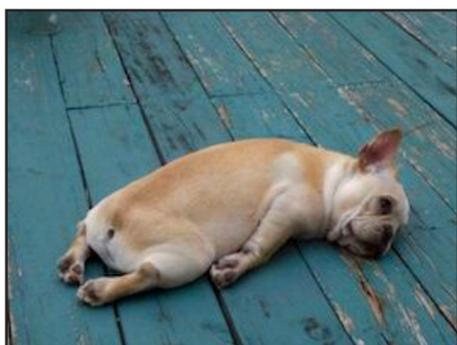
Though tipping only applies if you have money to buy things in the first place



Emma Maddock
- ELEC I -



Elliott Berg
- SREE B III -



THE STRUGGLE -a series of haikus-

It is four a.m.
Notes sitting untouched
on desk
What am I doing?

Trying to study
No, thinking about star
wars
What happened to Luke?

I should have studied
Swear I've seen this term
before
Jesus take the wheel

How bad can I do?
On this one final exam
In order to pass



Maybe I sound like a dick, but I'll bite the bullet and say that I despise tipping. Hopefully I can convince you why.

People might ramble on about how servers rely on tips and how quality service deserves a tip. True, it does - so make tipping mandatory. Just add 15%, or whatever the average tip value is, to the cost of the service. Assuming that service-people make the same amount of money, it is still an advantage because they now they can receive a more reliable paycheck.

Now, on to why tipping sucks:

I don't like the game of impressing the people around you with how much you tip. It is a false representation of a person's level of decency. For instance, I imagine that Donald Trump tips more than, say, Gandhi would have. In honest reality, tip size doesn't reflect service; a tip is some arbitrary amount, used to create a round number. The problem is that those around you will likely judge you based on this number. I also don't like how I feel after I tip; I keep questioning how much I should have tipped. It is rare that I actually feel content with the amount I have chosen. If I tipped too much, I feel ripped off and start to think about how the money could

\$ Tipping \$

have been used to feed poor children. And of course everyone feels bad for tipping an insufficient amount.

Furthermore, tips encourage face-to-face contact and I am not often a fan. Consequently, I feel compelled to provide a greater tip out of principle if the service person just left me alone - which I realize goes against the whole concept of tipping.

Luckily, there are some bright places in the world (as far as I know, confined mostly to northern Europe) where tipping is nearly not expected. The reason for this likely has to do with a more rational culture, individual cheapness, and a higher minimum wage. As a Canadi-

an society, we can realistically only change the minimum wage. I'd like to argue all about why that's a great idea, but for the purposes of this post all I want to do is stress that this can be used as yet another argument for a higher minimum wage.

Be a good human; don't tip. (Well, fight for higher wages, too.)

To business owners: please don't accept tips, you'll at least have my business.






COLUMNS

Because we aren't fools, right?

Foolproof STRESS BUSTERS

(or The Best Methods of Procrastination)



Katelynn
“Flying Dutchman”
Bolster
- Aero III -

As a fourth-year student (although it is only my third year in engineering), I feel that I am somewhat of an expert authority on the best ways to reduce your exam-time stress. Let me share with you some of my favourites.

Take a walk. I know it sounds silly, but it really does help. Think about the last time that you spent time outside, in the sunshine and fresh air – I'm looking at you, first-years



who live in the tunnels. It is a well-known fact that the lack of sunshine, and thereby vitamin D (I could throw in a dirty joke here, but I'm being serious), that people experience in the winter can lead to a decrease in overall mood and productivity, and an increase in stress levels. So get outside, take a walk, and enjoy your surroundings. Walk down to Mooney's Bay and sit on the swings for a while and pretend that you're 5 years old and have no worries. Even if it's raining or snowing, just get outside and stretch your legs. This one always works for me.

Have an impromptu dance party in your room, alone or with friends. Just crank up the music and let loose for a little bit. You know what they say: exercise releases endorphins, and endorphins make you happy, and happy people don't kill their husbands – they just don't! (Legally Blonde reference for anyone that didn't get that one.) Music also has an incredible effect on the brain and overall mood. Happy jams equal happy times.

Bake something yummy or cook a good meal for yourself. Eating properly is important, and taking the time to do so is not wasting time; your

body will surely thank you for it later on down the road. “Hold on, I don't know how to cook/bake,” or “But I live in residence and can't cook,” you say; well then, get a few friends together and go out somewhere for a treat. I know at this time of year money is tight, but isn't food the best thing to spend your last few dollars on? Besides, Christmas means there's a good chance that you've got more money coming in, either from student loans, scholarships, or family. Don't forego taking care of yourself to save a few bucks; trust me it is not worth it.

Go to the Ottawa Humane Society or a pet store and play with animals. I have never seen someone be sad while they are playing with a kitten or cuddling with a puppy. A fluffy play-date is a sure stress reliever – just

try not to get too attached and bring one home (whoops)!

Make time to see friends. An easy way to do this is to study with people, coordinate mealtimes (if you're in residence), or hold a potluck. Any of the above stress relievers can definitely be done with friends as well. And of course, don't forget to share your own stress-relieving activities with your friends.

Hopefully at least one of these tips will help you to get through your exams in one piece. See you on the other side, C-Eng!



Yes well wishing, from afar, without actual human interaction

I WISH YOU A HERMIT CHRISTMAS

Relationships from the Eyes of a Hermit



Julia "Teabag" Poinsettia
- ACSE III -

Well December is finally here and with it comes a very stressful time. No, I'm not talking about exams; I'm talking about the holidays. Sure, exams are tough but compared to navigating the mess of holiday parties, family reunions and secret Santa gift exchanges, they're a walk in the park.

First off, everyone goes home. For those of you from Ottawa, this isn't that big of a change (if any), but for all the out-of-towners it might be a big trek. This means comparing the cost of planes, trains and buses to the reliability of ride shares which is never a fun situation for anyone. This can be made even worse by freak storms and generally bad December weather which make it terrifying to travel no matter who's driving. Regardless of where you're from though, this means that you'll likely be a couple hours away from the majority of your new university friends (and possibly a significant other).

Not to worry. You came from this town and you're not the only one home for the holidays. A perfect time to catch up with high school friends! The only problem is, like any traumatic experience, university changes people. It's hard to realise just how strange you've gotten until you're immersed in a group of people that don't spend the majority of their waking hours in the Mackenzie building. Suddenly all of your inside jokes don't make sense and your new habits are super confusing. Now you're in the land where

1010 is just a number and there are definitely some adjustments to be made before you're fit to see normal humans.

If your high school friends aren't also engineering students you should refrain from talking exclusively about engineering culture. Math jokes are generally frowned upon and talking about the "engineering cult" can bring you strange looks.

On top of this social maze, you also have to decide who to buy gifts for. Are you close enough to your new university friends to get them something? How about your old high school friends? Ideally you would get everyone a gift but if you're already on the Mr Noodle budget this can be problematic.

Sometimes, instead of getting everyone a gift, you end up in a secret Santa exchange. This is better from a cost point of view but the gift buying stakes have never been higher. Each person only gets one gift so the pressure is on to come up with the perfect one. Of course you always end up picking the one person you don't have an idea for and end up having to try to stealthily ask them what they want without giving away the fact that you're their secret Santa.

This may be tedious but even more perilous than old friends are parents. When talking to your parents there's a fine line between talking too much about parties and talking too much about school work. If you mention one party too many your parents will assume you've forsaken

your school work for being a vagabond and a slacker. Don't talk about them enough though and they'll assume you haven't made any friends and just sit in your room studying 24/7 (Admittedly, for some parents this might be a good option but it might worry others).

At the same time you have to consider who to introduce to your parents. From your limited selection of friends that will be in your area over the holidays, which ones will make your parents the least afraid to send you back to school in January? We all have that one friend that has no verbal filter whatsoever. They may be fun to hang out with but they can be an interesting choice to have meet your parents over the holidays.

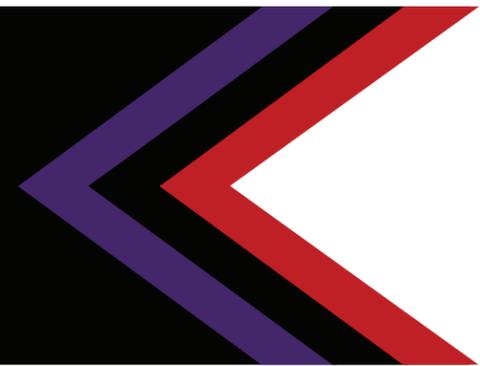
While we're on the topic of meeting parents, there's those funny people I like to call significant others. I may not have much relationship experience but I do know that meeting a boyfriend's

or girlfriend's parents can be a big deal. With the holidays coming up, December is the time when many people have to decide just how serious their relationships are. Holidays mean family gatherings and family gatherings mean interrogations about how life is progressing. Do you tell them you're single, or have you been dating long enough to call it a relationship? Do you just tell them that you're dating someone, or are you ready to introduce them to your family? Some of you may have already done this over reading week but if not it has been an extra two months of dating and it might be time to spill the beans.

There are so many rules about the holidays and there's always pressure to make the season perfect. With all that going on it can be tempting to just hide out and avoid it all. So this holiday season, I wish you all a hermit Christmas /Hanukah/Kwanzaa or whatever holiday you celebrate.



COLUMNS



Ruining all those innocent Christmas songs



Gabriel Wong
- MECH III -

Rodney the Raven

A Parody of Frosty the Snowman



Rodney the Raven met an engineer one day
With an Iron Ring and a sweater gray
He was taught by Glen McCrae
Rodney the Raven heard the tale of Engineers
That they made it through, through the sweat and tears
In the end devoid of fears

There must have been some magic in that fluids lab one day
'Cause even though they wrote so bad the TA gave an "A"

Oh
Rodney the Raven, knew the engineer was stressed
So he went and asked,
"Do you have a test? Why don't you go get some rest?"

WD-40! WD-40! Need some for my brain
WD-40! WD-40! Eng-life is a pain!

Rodney the Raven knew the engineer was tired
So he went to Tim's for an extra-large so his friend could be re-wired
Right past the chem lab, to the coffee shop he went
Grabbed the extra-large and a bagel too, toonie-fifty was well spent

Across the campus he did walk and saw some ARCHs and MECHs
And saw the engineer with friends, a bunch of great ELECs
Rodney the Raven, had to leave his friend so dear
But he re-assured, saying don't you fear
You're the greatest engineer!

WD-40! WD-40! Finals soon will end!
WD-40! WD-40! C-Eng for the win!



COLUMNS

Food meets food to make better food

EAST MEETS WEST



Don Jackson
- CIVE III -

Just when you thought you were free, having managed to crawl out from under that huge load dumped on you during October; here comes December. No I'm not talking exams, or term papers, I'm talking something far more insidious. Something that will slow your progress; it will bog you down physically as it bogs you down mentally; all the while numbing your soul as it numbs your taste buds. Yes I'm talking TURKEY LEFT-OVERS. But take heart, no more endless turkey sandwiches or turkey soup or pureed turkey smoothies. I'm talking turkey sushi!!!

What you are going to need;

- turkey leftovers (probably not an issue)
- bacon (maple flavour works wonders)
- leftover dressing
- leftover yam (cut Julienne style not mashed)
- cranberries (preferably whole, not just the jelly)
- 1 egg
- mashed potatoes (or left-over boiled potatoes that can be mashed)
- wasabi sauce (trust me)
- other turkey traditional food like cream corn, gravy, etc)

Pre-heat the oven to 400 degrees.

First, lay down some tinfoil. (I wrapped a traditional bamboo sushi roller with tinfoil, but tinfoil alone will work). Begin by placing your bacon on the tinfoil and weave it into a mat. (fig. 1)



FIGURE 1 NOTHING MORE WELCOMING THAN A BACON MAT

Second, take a little dressing and mix a raw egg into it. The egg will hold things together better when everything is cooked. Once you have the egg and dressing well mixed, place a thin layer of the mixture over the bacon mat. Third, place thin strips of turkey, cranberries and the julienne yams down the length, about a 1 1/2" to 2" from the edge. (fig. 2)

Finally, carefully grip the edge of the tinfoil under the bacon mat (I place my palms

under the tinfoil with my fingers curling up and over the bacon) and carefully roll the mixture together. Carefully give the roll a firm squeeze when the edge of the tinfoil mat begins to meet the mixture, then begin pulling the tinfoil away as you continue to roll your turkey sushi. (fig. 3)

Place your roll on a cooking sheet and in the oven for 25 - 30 mins or until the bacon looks done.

While, the roll is cooking it is time to prepare the sides to go with it. Basic cream corn, cranberry sauce, gravy etc work well as a side. But for a truly interesting East meets West flavouring, try this twist. Reheat your mashed potatoes, or mash the boiled left over potatoes as the case may be. Separate out approximately half a cup of mashed potatoes per person, and begin mixing in some wasabi sauce.



FIGURE 4 LEFTOVERS WILL NEVER BE THE SAME

Mix until the potatoes have a very slight green hue, or until they meet your taste levels for wasabi. You want a slight hint of wasabi not an overpowering one. Place dabs of your chosen side dishes on a plate, along with the sliced up turkey sushi and serve with chopsticks. (Honestly these are pretty big rolls, so unless you use the ends off of some novelty wooden spoons, the chopsticks are decorative only).



FIGURE 2 TURKEY SUSHI FILLING



FIGURE 3 READY FOR THE OVEN

COLUMNS

Yes learn the things!

IEEE EMBS International Student Conference (ISC) 2016

You are invited to the IEEE Engineering in Medicine and Biology Society (EMBS) International Student Conference (ISC) 2016. The ISC 2016 will be hosted at Carleton University located in Ottawa, Canada from May 29, 2016 to May 31, 2016 with an overarching theme of 'Expanding the Boundaries of Biomedical Engineering and Healthcare'.

If you are passionate about life saving technologies, then this conference is for you! This is a unique conference and it will be like no other you have attended.

- Present your research, hone your public speaking skills, get published in IEEE Xplore and get a chance at winning the best paper award
- Bring out the innovation in you by submitting an entry to the design competition and get a chance at winning the best design award
- Improve your technical and soft skills by participating in the various workshops led by industry and academic leaders
- Expand your professional network through dedicated networking and exhibition time with students, industry and academic leaders

For more information, please visit the ISC 2016 website at <http://sites.ieee.org/embs-isc-2016/> and subscribe to receive updates!



IEEE EMBS ISC 2016

Expanding the Boundaries of Biomedical Engineers and Healthcare

May 29th - May 31st 2016

Ottawa, Canada

Technical Sessions

Present your research, hone your public speaking skills, get published in IEEE Xplore and get a chance at winning the best paper award

Design Competition

Bring out the innovation in you by submitting an entry to the design competition and get a chance at winning the best design award

Workshops

Improve your technical and soft skills by participating in the various workshops led by industry and academic leaders

Networking

Expand your professional network through dedicated networking and exhibition time with students, industry and academic leaders

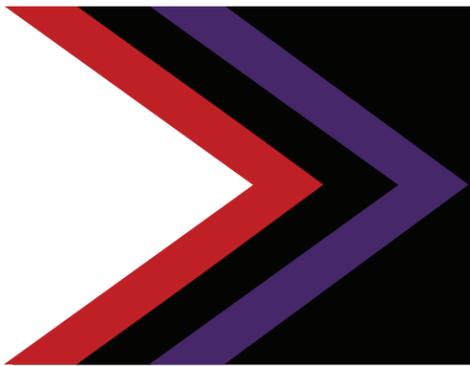
For more information, please visit the ISC 2016 website at <http://sites.ieee.org/embs-isc-2016/>



Website

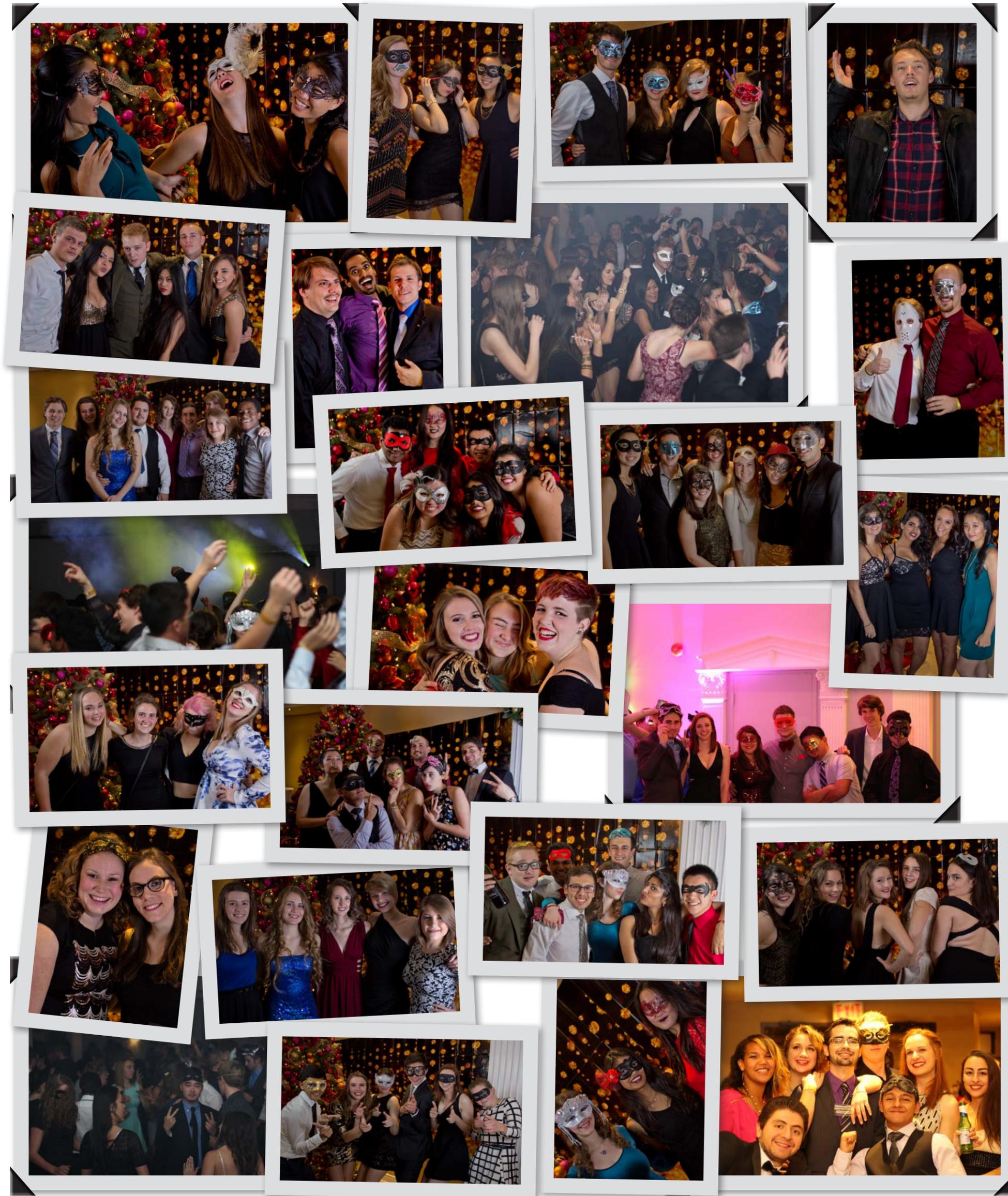
Expanding the Boundaries of Biomedical Engineering and Healthcare

IEEE EMBS International Student Conference 2016

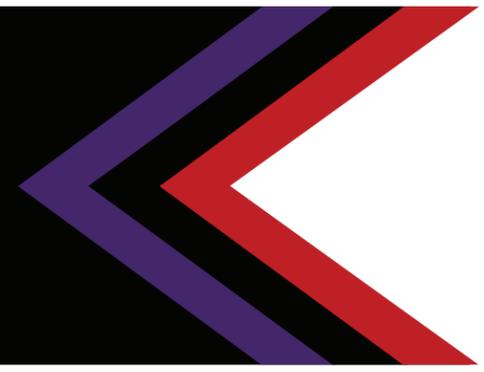


GALLERY

Like where's Waldo, but fancier, and with masks



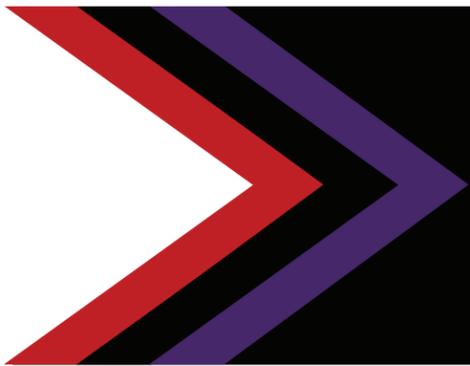
GALLERY



Turns out using cheese was a better idea than grilling the SREEs



Arch Eng: amping up the participation until we take over everything



REPORTS

Always be cautious when reading, it can be dangerous

Instant Motivation:

READ ONLY IN CASE OF EMERGENCY



Noah "SoundCloud" Pacheco
- AERO II -

swear at you too. Desperate times. Here's your warning. Intro paragraph done. You get the gist of what this is gonna be like. Let's roll.

STEP 1: DON'T BE A WHINING WANKER.

I get it. You're tired. We're all tired. We don't give a fuck. Count how many times you've said you're tired within the past week. Now multiply that by the 3.7 billion other homies on this planet. WE ALL GET IT. But whining about your problems isn't going to make the problem go away. Get your shit together. The only acceptable time to whine is if your f*#king dad chops off your hand, find out your girlfriend's actually your sister and have an ugly ass Bieber flick. Luke Skywalker shit. Actually no. I take that back. Shut up Luke. You're an actu-

al Jedi. Check your privilege.

STEP 2: QUIT PROCRASTINATING YO!

Seriously? You gonna wait to do that? That thing that is so important? You know you should just do it now. I know you should just do it now. But no. You won't do it now. Because you don't have any immediate gratification. But what if I were to create a sort of false sense of that? Here. Look! You've already done the first one. Check that shit off.

- Step 1: Confirmed. Not a wanker.
- Step 2: Started checklist. Goals f*#king set, son.
- Step 3: Distractions away
- Step 4: Reppin that zennn for dayzzz
- Step 5: DO IT.
- Step 6: DO IT SOME MORE.

- Step 7: FINISH IT
- Step 8: ???
- Step 9: Profit?

Feels good, right? Don't forget to come back and check these other boxes off once you get through it.

STEP 3: TURN OFF THE INTERNET. SHUT EVERYTHING DOWN.

LOOK. If you wanna get shit done, you gotta go FULL HAM MODE. We don't take anything half assed. We're gonna f*#k this shit up TO THE MAXIMUM OF LEVELS. That means, cell phones, TVs, beepers, tamagotchis, laptops, doohickeys, social media: Put it all away. And I mean all of it. If you leave anything left standing, you're gonna jump on it like an elephant on a pumpkin.

Avoiding distractions also means prepping to

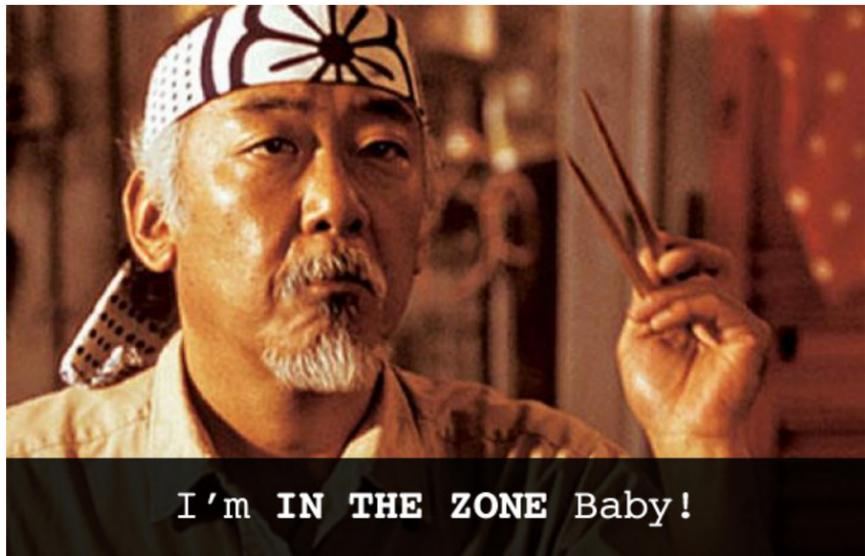
Breathe, homie. Breathe. First step in anything- hell, the first step to everything is to breathe. Just breathe. You been breathing your entire life. It's literally one of the first things you've ever done. You breathing? Good. Main crisis averted. Problem solving time.

What's going on? Relationship problems? Got a job interview? Exam time? Ah. Exam time. Alright, brace yourself. This is gonna get intense. You came here in the case of emergency so it must be pretty bad. I might



REPORTS

Don't ask about the detail of doing the thing, no one knows those



avoid other distractions. If you haven't eaten in awhile, put some food in you before you go full throttle. Same goes for thirst. And if you haven't drank anything in awhile, that too. Get that coffee going. Sleep is for the weak. Get rid of all possible distractions. Ouh rah.

STEP 4: GET IN THE ZONE

Okay. It's time for hype time. Stand the f*#k up. Get your blood pumping. This is it, homie. You got eye of the tiger playing in the back of your head? Whatever works. You got this. You've always had this. You go, you spring-loaded fully jacked first out the gate sperm cell swimming mother f*#ker. If you and The Rock did a staring contest to the death, he would break down, cry and shudder. Because you're tougher. I get it. You've got the doubts and depression

and the anxiety hitching a ride, claws digging into your bareback for as far back as you can recall. Yet you're still moving forward, dragging yourself in a crawl. YOU'RE A BEAST. A freak of nature. Inhumanely insane, you're not a beggar, you're a taker. And takers can be choosers and you're choosing to finally give a fuck. Hyped up? Good. And good luck.

STEP 5: DO THE THING

SO. You've got a problem? A thing that needs doing? JUST DO IT. Listen to what the swoosh said. Shia's got its back, too. And now, I'm saying it. JUST DO IT, HOMIE.

You want to get some shit done? THEN YOU GOTTA DO SOME SHIT. That shit ain't gonna do itself. Shit. Doesn't. Do. Shit. That's just logic.



Go, my padawan. Go. I'll see you on the other side.

STEP 6: KEEP ON KEEPING ON.

WHAT ARE YOU DOING HERE READING THIS? YOU SHOULD BE DOING THE THING. GO DO THE THING. GO. DON'T COME BACK 'TILL YOU'RE DONE.

STEP 7: FINISH OFF

Almost there homie. Things looking good? Now's not the time to rush it. Finishing touches. Sign that shit. Proof read. Wrap up the conversation.

STEP 8: ????

You good...? Breathe, remember? You did it, I think. Evaluate while you take a break. No ragrets? If there was, tweak the method. The worst is over now.

STEP 9: VICTORRRYYYY SCREEEEECH

You. Brilliant. Son of a bitch. You did it. You did the thing. You feel that? That calm? That release of endorphins flying through your body? Remember that feeling. That feeling, right there, that feeling of accomplishment, is one of the biggest motivators of all. If you can harness it, remember what it feels like and become addicted to it? Oh, shit, homie. You're a force to be reckoned with. A badass mother f*#ker addicted to accomplishment. I'm getting chills.

But for now? Up to you. Go ape shit. Throw desks. Party. The world's yours.



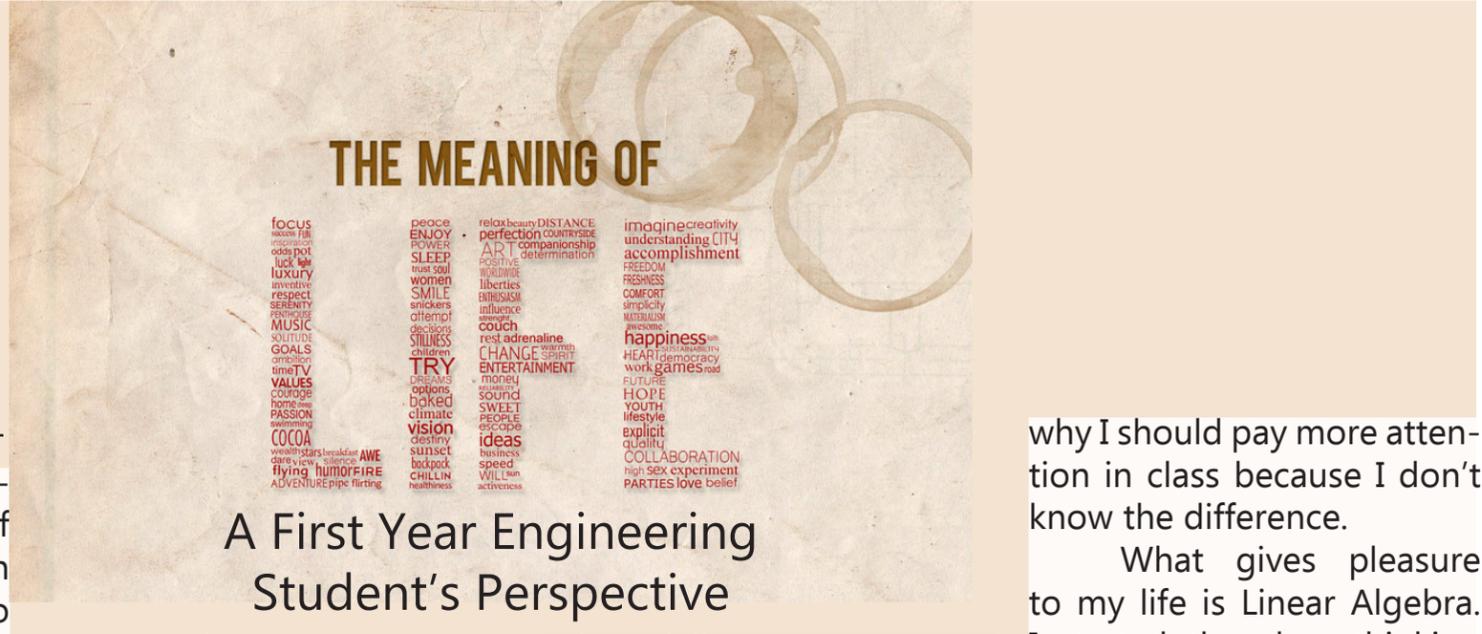
Then victory drink, the natural order of things

REPORTS

The meaning of life is passing ECOR 1010



Alec Sleeth
- CIVIL I -



A First Year Engineering Student's Perspective

Transcendent

Transcendence, otherwise known as the religious view on life, relies on God giving meaning to our lives and that he has given each of us a goal and a purpose. This applies to all religions regardless if they have a God or not.

My professor believes that some of these views could be outdated, but nothing could be as outdated as IntelliCAD. This cutting-edge software was released in 1998, a year after I graced this world with my presence. While the instructions on how to do the labs with IntelliCAD are in the ECOR 1010 textbook (pretty sure you can find pictures of dinosaurs reading that book), this lab is still very complicated if you have no CAD experience like me. But thank goodness my TA let me use AutoCAD and I could get it done by watching YouTube videos because that software is still relevant.

Existentialism

The existentialism belief was the third topic of the course. I believe it is that we must create our own meaning in life, but I am unsure because I was still trying to figure out what a while-loop is. The essence of this philosophy is that a happy and successful life is a meaningful life.

A successful and a meaningful life to me is having a flight suit. Having a flight suit is the most prestigious and baller thing at CENG. To earn a flight suit, you give meaning to your degree by getting involved, earning a call sign and giving back to CENG.

Hedonism

According to my professor this topic means that pleasure is what gives meaning to life. To me this seems like the same thing as Existentialism and maybe that's

why I should pay more attention in class because I don't know the difference.

What gives pleasure to my life is Linear Algebra. I started the class thinking the plural of a matrix is matrixes, however now I can do everything under the sun to a matrix. It gives me so much joy when I finally do something right in that class because the only way I seem to learn is by being in The Elsie Macill Learning Center every hour it is open. That place is amazing, and I guess you can call me a Hedonist because that place gives pleasure to my life knowing I won't get kicked out of Engineering this year. There's always next year. (I hope not)

Death

The philosophy we are studying now is death and whether it is good that we die someday or would it be better to live forever.

Oh that reminds me. That's what my thesis is for my term paper so I should probably go do that. LOL thanks for reading, LATER SKATER

As a first year civil student, I had the privilege of taking a glorious elective in my first semester. Thanks to my inexperience in picking university electives, I decided to choose The Meaning of Life (PHIL 1200). Here is what I think of this course sent from the heavens.

Nihilism

My professor decided to open this course with the most dark and negative point of view on life. Nihilism is the belief that there is no meaning to life and that suicide is the only option. In addition, the main thought is why live life when there is no point to it.

While I sit in class and wonder what else is pointless that I must learn, and with barely any thought, I realize that C++ fits the bill. I still do not understand why I must learn how to code when I want to build bridges because I like concrete. But I did include that I know C++ on my résumé even though I don't know what a while-loop is. Hire me.



COLUMNS

BAE: Butter Answers Everything. Seriously, just add more butter

Welcome back. I hope Movember went well. It's time to shave that mustache so you can take the shortcut through the school playground once more without the cops being called. December is just around the corner so it's time to learn how to bake Christmas cookies so delicious your parents forgive that D- average. You're a special Christmas snowflake, we promise.

Christmas (sorry) Gingerbread Cookies:

Ingredients

- ½ cup butter (sounds weird like butta with a hard R)
- ½ cup sugar (sounds weird like sugga with a hard R)
- ½ cup molasses
- 1 egg yolk
- 2 cups of sifted all-purpose flour (may be substituted with gluten free flower but don't because it tastes bad)
- ½ teaspoon of salt (may be obtained through desalination of the tears from last night's conquest)
- ½ teaspoon baking powder
- ½ teaspoon baking soda
- ½ teaspoon of ground cinnamon
- 1 teaspoon of ground cloves
- 1 teaspoon of ginger (We're gonna take the high road here and not make a ginger joke)
- ½ teaspoon of ground nutmeg

BAE-king

Directions:

- Step one, in a large bowl, cream together the butta and sugar until smooth.
- Step two, buy a canoe.
- Stir in molasses and egg yolk. Combine the flour, salt, baking powder, baking soda, cinnamon, cloves, ginger, and nutmeg; blend into the molasses mixture until smooth. Cover, and chill for at least one hour until it's as cold as that dumb bitch Elsa. Seriously, Let It Go? Let the clothes go.
- Preheat the oven to 350 degrees F (175 degrees Canadian).
- On a lightly floured surface, roll the dough out to 1/4 inch thickness. Cut into desired shapes with cookie cutters. Thin, average, fat with a ph, or "curvy". Place cookies 2 inches apart on ungreased cookie sheets.
- Bake for 8 to 10 minutes in the preheated oven, until firm. Remove from cookie sheets to cool on wire racks. Frost or decorate with your broken dreams when cool.
- For extra special cookies use Cinnabutter in place of butta and cinnamon

Cinnabutter:

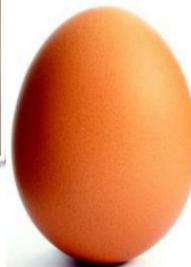
- Melt butter in a small saucepan on the stove's lowest temperature.
- Add ground cinnamon to butter and let simmer for a few hours.
- Step three, live multi-culturally
- Keep the temperature low to not burn the cinnamon but keep it on heat to break down the cinnamon.
- If there is a strong popcorn smell you are burning the cinnamon so turn down (for what) temperature you dumb bitch.
- In a fine metal strainer or cheesecloth drain the butter from the ground cinnamon. Be sure to squeeze the grinds to get all of the butter out.

This butter can now be used immediately in a recipe that calls for melted butter or placed in the fridge for later use.

Rule of thumb is roughly an ounce of cinnamon to a pound of butter.

Alternatively:

There are no alternatives for it's truth or bust. I shall not compromise on censorship.



COLUMNS

Writing in the stalls, where everyone will judge you



A good old fashioned rant from That Drunk White Girl

Have you ever been feeling really shitty (of course you have, you just got your midterm marks back!) and had a friend or family member start spouting some what-doesn't-kill-you-makes-you-stronger Kelly Clarkson level bullshit that just makes you want to rip their fucking head off?! Well that's how I've been feeling lately every time I use a public bathroom. Whether it's "Be strong your almost there!", "You're loved!" or my personal favourite "It's not as bad as you think it is!", there is always a little more shit than there should be in public bathrooms, and you know what? This drunk white girl is going to get the frustration that she's feeling off

her chest in the only way she knows how: a good 'ole fashion rant. People who write in stalls better listen the fuck up!

Hi, I'm that drunk white girl, nice to meet you. I'd like to remind you that we have never met before! Take a step back and consider that you don't know anything about my situation or my life! So maybe there's a chance you're not the most qualified person to be 'solving my problems'. Sometimes stuff doesn't get better! Maybe it is as bad as I think it is! The point is, you don't know! So don't think that some stupid, over used saying that you saw on tumblr is going to solve all of my problems! Also, let's not forget the in-

sane level of irony here. Your attempt to make someone's day better will as a result be ruining someone else's: the cleaning staff that has to paint over your mess! That's right you're not saving the world, you are just ruining the day of some poor janitor. Proud of yourself?

Let's just remember that the person writing this is the kind of person who takes a marker into the bathroom! They apparently have no one in their lives who can tolerate them so they have resorted to THE BATHROOM to get someone to listen to their bullshit. These pathetic individuals have watched one too many of Oprah's Super Soul Sunday's and are now under the impression that

they have the positive energy required to fix the world. These are the people that don't vaccinate their children. These are the people who swear by their personal psychics. These are the people who have Instagram accounts for their disgusting rat dogs. These are the people that write the awful self-help books that your lonely aunt keeps next to the wine fridge in her bedroom. (No, I'm not generalizing at all) They must be stopped at all costs! So this holiday season give the gift of not being an asshole and keep your stupid thoughts to yourself! That is all.

XOXO
-That drunk white girl.

REPORTS

Beware the lab buildings. Dun dun dun dunnnnn!

How I Got Lost In Herzberg



Brent Ehlers
- ACSE IV -

After reviewing my CHEM 1101 midterm I found I had made a mistake with sig figs but I couldn't figure out where I went wrong, so I set off for my prof's office hours in Herzberg.

The only other time I had been in Herzberg it was quite confusing and I seemed to walk forever. The first problem is how to get there from rez? The most direct route is right through Mackenzie, the Architecture building, and UC. I can't fly (yet), so that's out. My only options now are to go around Minto along Campus Avenue and then cut in by Steacie or go along Library Road and go under UC. I chose to go under UC.

As I emerged from the smoky gloom of the loading zone under UC, my destination loomed ahead of me. Herzberg. I nonchalantly walked in the entrance in front of me. My

destination was 4432, the office of my chemistry prof, Pamela Wolff. Since I entered on the second floor, I had to go up one floor. On the third floor, I glanced at the fire floor plan of the floor to see if I could get any clue as to where my destination was. It just showed rooms, no numbers. The signs around pointed to 100s, 200s and 300s but no 400s. I realized I had to head under the huge banner-like sign that read "Department of Mathematics and Statistics" to get to the 400 wing. It seemed like a very imposing entrance.

I plunged into the unknown. Luckily, it was a reasonably straightforward walk to the 400 wing. As I walked into the 400 wing I noticed the rooms were in the 460s, so I turned right at the hallway intersection. The numbers were, logically, going down. I thought I was almost there when I saw 4436. Next room, right? Well, it didn't appear to be. I walked around the corner and all I saw was windows and sky – no more offices, just a study area and windows while, on my left, appeared to be a meeting room of some sort. I walked around

the next corner and the numbers were too low. What else could I do? I turned around, went back round the corner, and there was an office I hadn't seen right in front of me with its door open (it was tucked in a bit of an alcove). It was 4432! The plaque by the door even said something helpfully about the chemistry department and P. Wolff.

I went in and got my sig fig question answered in about a minute: just a simple subtraction I had overlooked.

Now how do I get out? Going back the way I came in seemed like the long way around. Earlier, when I walked right past the office, I had stopped right in front of a staircase. I took that staircase. I took that staircase down a floor to the second floor. Now I had to figure out how to get back to an entrance, or in my case, exit. Another floor plan chart kind of showed me how. I walked around the rectangle of hallway and almost bumped into two other men, probably Profs wondering where the bumbling first year was headed. I followed the overhead exit signs, but they took me back to

of the stairs any more. I figured I was heading into the tunnel level. This flight of stairs went further down than any of the others. I wondered what scary things lurked in the windowless depths of lab buildings. There were some windows at the bottom of the stairs, though.

There were two men standing, chatting at the bottom of the stairs. As I turned the corner to go in the door on my left, I noticed that it was emblazoned "Danger Radioactive Material" and it had two of the yellow radioactive signs on it! One of the guys that had been chatting told me something to the extent of, "Don't go in there". By this time I was thoroughly confused; where is the exit? I asked the guy, "How do I get out of here?" He pointed right behind me to where there was a clear glass door in the column of windows. I thanked him and walked into the fresh air. I was now on the wrong side of Herzberg. Oh well, I needed the extra walk. I hope no one starts circulating rumours of someone trying to steal radioactive material!

Remember, Remember - the hairs of Movember



Jake "Tree Hugger" Lipohar
- ACSE πφ -

collected over the past sixteen days. And I am blown away.

Movember started off for me as a test of my manhood in high school. But for the past two years, I have worked under the VP External portfolio as Organizer of the CSES Movember Campaign. I had never truly participated in the campaign before, but with some new event ideas and enthusiasm from Erin Hemm and myself, the whole thing really started to fly.

You came out to the beard auction when it was already dark out at 5:30. You

came out to bake and purchase delicious goods that made my taste buds cry with joy. Last year, you came out to support Scott Dutrisac's Kickstarter campaign that raised \$1000 before the month even started. And this year, you came out to what was probably the most successful Patch Auction that the world has ever seen!

You made this happen, C-Eng. You have demonstrated that you care – about having fun, about raising awareness, and about doing something to help mankind. Men and women alike have stood up and shouted that

they will fight against cancer, and that they will fight against inadequate mental health treatments (or lack thereof). You have shown that you care about the 510,000 men that die from suicide every year, that you care about our family members suffering from prostate cancer, and that you care about testicular cancer being the most common form of cancer in men aged 15-29.

These are horrors that no one should have to face – and you've proven that you care. Thank you for everything you've done C-Eng, you make this salty, old fourth year proud.

As I write this article, I am sitting beside exactly Four Hundred and Thirty-Five dollars that will be deposited into the bank tomorrow afternoon, and sent off to the Movember Foundation. This will be added to our current One Thousand, Three Hundred and Forty-Eight dollars





CARLETON STUDENT ENGINEERING SOCIETY



Alexander's Office
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www.cses.carleton.ca

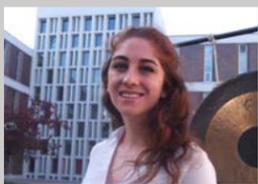


@MyCSES

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
Jasmine Shaw

"Happy Exam Season, C-Eng! I hope that you're all ready for everyone's (not-so) favourite time of the year. Some things to keep an eye out for are STUDY SNACKS - there will be free snacks in the UC Atrium all exam period long to keep you going. If you ordered a leather jacket, expect to see those arrive during the exam period or early January. Good luck, study hard, and we will see you on the other side - get ready for another jam-packed semester full of sweet events & services! And stay tuned for our referendum to raise membership fees so we can keep bringing you all those awesome events & services you love so much."



VP Social
Erin Hemm

"As this semester is coming to a close I hope you had a chance to come out to some events, make some new friends, and appreciate the strong community we have here within C-Eng. Thank you all for making my first term as VP Social so incredible. Good luck with exams and final projects and enjoy your winter break and holiday season. I'm looking forward to everything next semester has to offer, and as always if you have any questions or concerns, don't hesitate to send me an email or visit during my office hours."



VP Finance
Justine Godin

"November meant back to the boring behind the scenes life for finances. Just a reminder to student groups who were allocated money to bring receipts to the CSES office in order to be reimbursed! Networking event sponsorship is now open and the deadline will be January 15th."



VP Internal
Julia Dalphy

"Hey, C-Eng! This month, I've been busy implementing Effective Highlighting features in the eNewsletter, and getting up to date with our Minutes on the website (pewh!). Also, I ordered the Fall Pewter mugs and planned the Fall Ring Day After party for our grads this term. I've also continued my usual Admin work, and have begun planning FYE with our new First Year Reps! Best of luck on exams, C-Eng!"



VP Publications
Ryan Waddell

"Hi C-Eng! Hope you're all not too swamped with exams and final projects and such! Michael and I have been busy getting EngSwag designs figured out, so keep your eyes out! The Media Team and Social Media Directors have all been busy working away with getting coverage, and creating videos for us, so I hope you've all enjoyed what we have to offer! Lastly, I hope you're enjoying this wonderful December Issue of the Iron Times, and hopefully we've managed to give you a few laughs during this stressful season, but hang in there, we're almost done for now!"



VP Services
Michael Lanning

"November went by too quickly! We're in exam season now! We sold 96 sweaters this semester, which is awesome! I can't wait for them to arrive and have even more people wearing C-ENG pride! Be on the lookout for the winter swag that will be coming soon!"



VP External
Sasha Christie

"Hey CSES! I'd like to start with a big thank you for everyone who participated in Movember events and helped out by donating to the cause! We had an excellent month and the support was astounding to see! I wish everyone the best of luck with their exams and happy holidays!"



VP Academic
Ben Vine

"Hello everyone, Ben here as your VP Academic with some updates on what's going on. Sorry for the lack of workshops this month, but I am planning a bunch in the second semester so get ready to gain some new knowledge. National Engineering Week Chairs' and I are still looking for some directors to help us out, so if you are interested you can contact me or find the applications on the CSES website. Ontario Engineering Competition is creeping up on us and our competitors are training hard. If you have any questions or suggestions, feel free to let me know!"

JUST TALK TO ANYONE INVOLVED IN CSES, OR FIRE OFF A MESSAGE! EVERYTHING FROM DIRECTORSHIPS, TO EVENT PLANNING, 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, AND EVEN MORE IMPORTANT THAN FAMILY: EVERYTHING COUNTS FOR FLIGHTSUIT STAMPS.

PROCRASTINATION

It's So FESTIVE!!!!!!

Word Search



Software © 2013 crossword-compiler.com

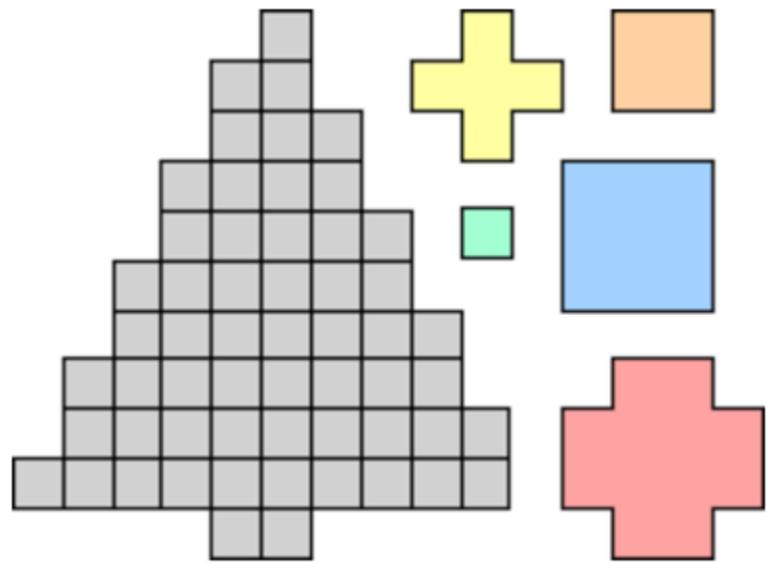
- | | | |
|-------------|-----------|---------|
| Adapter | Eccentric | Screw |
| Alternator | Energy | Sleeve |
| Axle | Laser | Solder |
| Balance | Lever | Spindle |
| Bearing | Pneumatic | Switch |
| Coil | Power | Turbine |
| Compression | Pressure | Voltage |
| Dynamo | Prototype | Wheel |

Christmas Sodoku

We realize it may not be the most inclusive thing, but the word Christmas has nine letters so it was too good of an opportunity to pass up.



Decorate the tree below with the 5 different sizes of ornaments shown. The ornaments should cover the entire tree and not overlap. You should use only 17 ornaments, including at least one of every size, and no yellow ornament should touch a blue ornament.



Horoscopes



Aries

NOW THAT YOU ARE DONE EXAMS YOUR IMMUNE SYSTEM GOES ON VACATION, YOU SHOULD GET OVER THAT COLD BY APRIL... MAYBE



Taurus

THE ECOR 1010 GODS HAVE BLESSED YOU, UNFORTUNATELY YOU ARE NOW KNOWN AS THE CURVE WRECKER AND THERE IS A PRICE ON YOUR HEAD



Gemini

SOMEHOW YOU STILL HAVE ENERGY AFTER WRITING FIVE EXAMS. TOO BAD NONE OF IT WILL LAST FOR SECOND SEMESTER.



Cancer

MAYBE YOU SHOULD WORRY LESS ABOUT THE CHRISTMAS SWEATERS. THEN AGAIN DOESN'T EVERYONE DO POORLY ON THEIR FIRST UNIVERSITY EXAMS?



Leo

YOUR PROCRASTINATION HAS REACHED A NEW HIGH, WHY STUDY WHEN YOU CAN BE MAKING ALL YOUR CHRISTMAS GIFTS FROM SCRATCH?



Virgo

YOU PICK UP YOUR TEXTBOOKS FOR THE FIRST TIME THIS SEMESTER, JUST TO USE THEM FOR WEIGHTED SQUATS



Libra

YOU STUDIED HOW TO GIVE 16 DIFFERENT APPROPRIATE HOLIDAY GREETINGS. TOO BAD YOU DIDN'T STUDY MORE FOR THAT LAST EXAM



Scorpio

IF YOU'RE NOT A FOUNDATION, A ROOF, OR A FLOOR, YOU ARE A WALL



Sagittarius

YOU HAVE BEEN BLESSED WITH AN EXAM ON YOUR BIRTHDAY, DON'T THINK THAT WILL MEAN IT WILL BE MARK EASILY THOUGH.



Capricorn

YOU GET TO CELEBRATE YOUR BIRTHDAY AFTER EXAMS, SHOULD BE FUN IF YOU CAN RECOVER FROM THE PTSD



Aquarius

ONCE AGAIN YOUR PARENTS ARE EASILY EXCITED BY THE PROSPECTS OF GOOD GRADES, LOOKS LIKE THIS CHRISTMAS WILL BE A SAD ONE FOR THEM

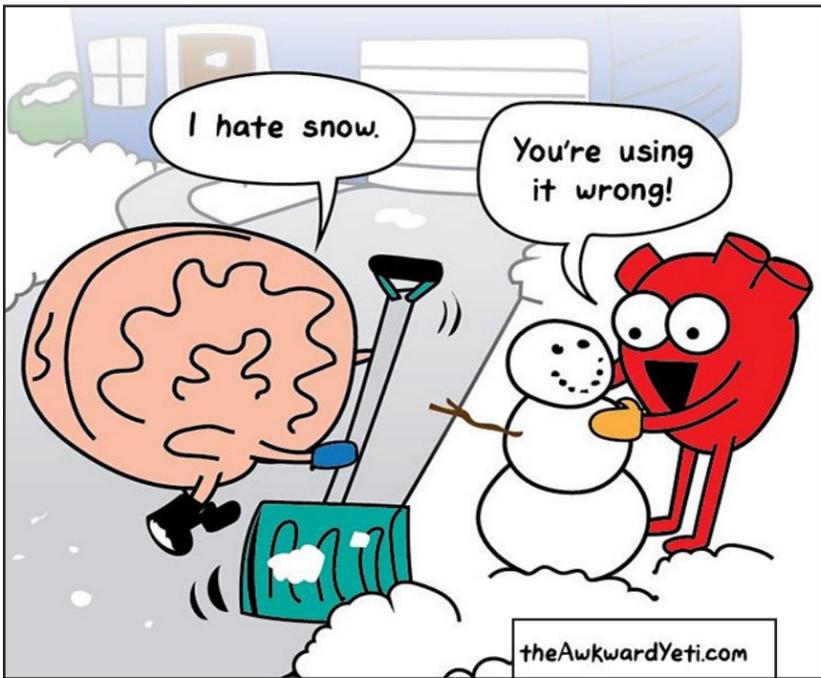
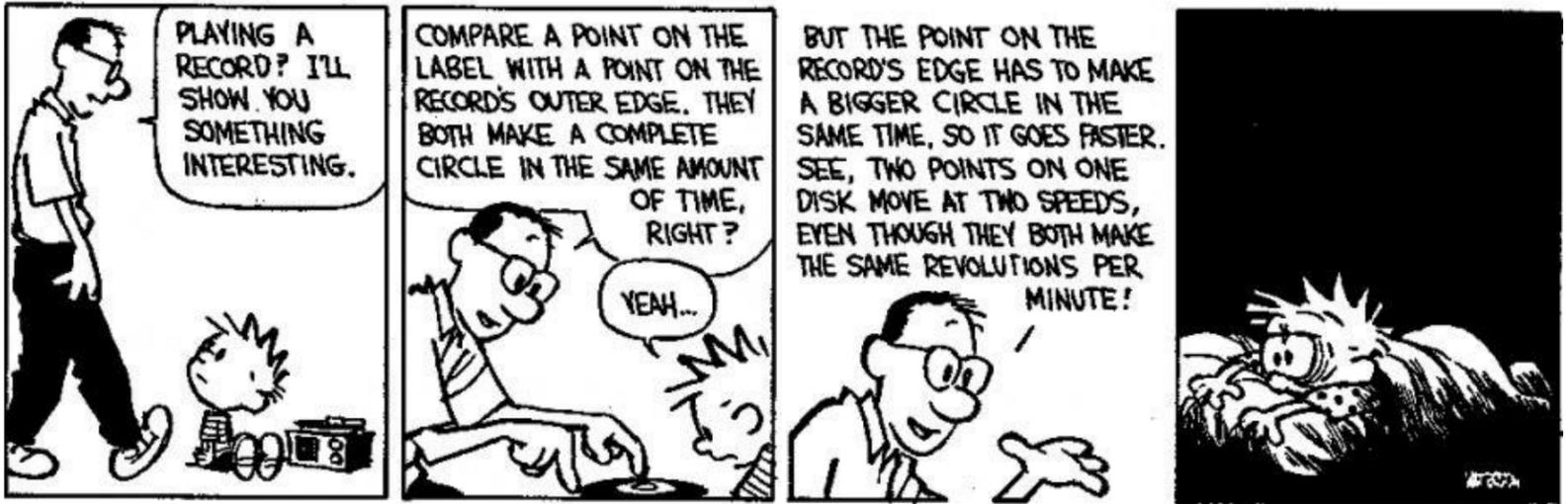


Pisces

YOU ARE SERIOUSLY CONSIDERING SENDING YOUR LITTLE SISTER BACK TO CARLETON IN YOUR PLACE AFTER CHRISTMAS BREAK

CENTRAL

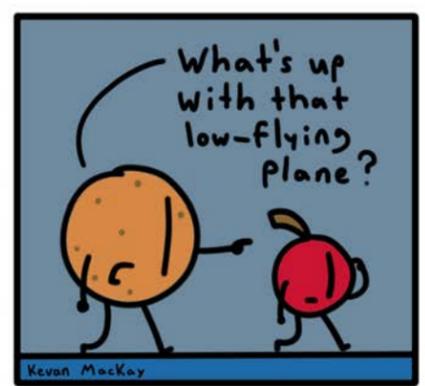
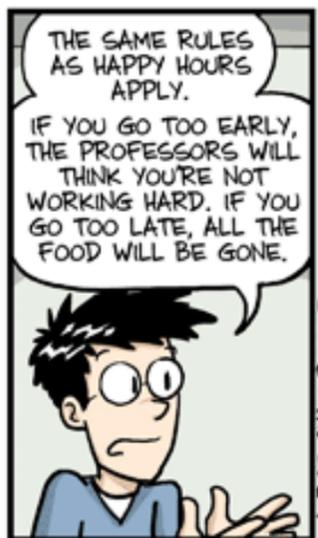
Ah the spread of intelligence, what a cursed thing.



PROCRASTINATION



(c) Sarah Andersen



WWW.PHDCOMICS.COM

Waiiiit for it...

LAST CALL

Bask in the glory

Hometown: Ottawa (Orleans)

C-ENG Involvement: EngFrosh: Frosh, Facil, Head, Facil, CSES: Arch Eng Rep, VP External, Movember Director, CSCE: First Year Rep, Arch Eng Rep, Leo's Volunteer, Student Ambassador

Favourite Supervillain: Edward Rooney in Ferris Bueller's Day Off

If you could eat only one food for the rest of your life what would you chose: Baton Rouge Ribs

If you were trapped in an elevator who would you choose to be trapped with: Master Jedi Obi-Wan Kenobi

If you were an ice cream flavour, what would you be: Butter-scotch Ripple

If you were granted three wishes what would they be:

A kitchen that doesn't ever need to be cleaned, a comfy couch and a big screen TV, and a free airline pass to travel the world.

Would you rather be able to fly or breathe underwater: Fly, hands down. (Hands up?)

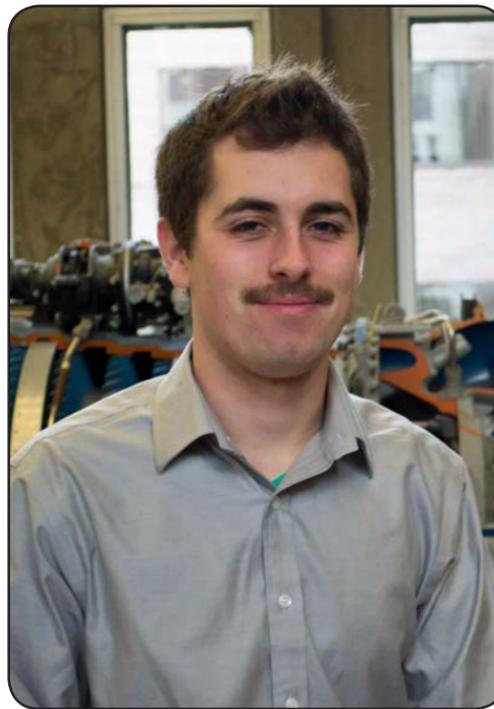
Steel, concrete, or wood: Wood, all the way.

Favourite thing about CENG: How much we genuinely care about each other and this community.

The Iron Man

Jake 'TreeHugger' Lipohar

- ACSE IV -



USES for the CHARLATAN

- > Use a few copies as a door mat for your snowy boots
- > Use a few more copies as a bath mat
- > Basically replace all mats
- > Throw on the floor of the bus to reduce the mighty tidal waves of melted slush
- > Craft small boats to race on the might tidal waves on the bus
- > Grilled cheese napkin, people will ignore the grey ink smudges on your face don't worry
- > Bunny bedding!
- > Cover boots and use as protective layer against salt stains
- > Use as packing insulation for those gift you must send by mail
- > Wrap those Christmas gifts!
- > Crumple and as insulation layer between your sheets
- > You could read it

The Iron Lady

Kelsey "Stop and Go" Doerksen

- AERO IV -



Hometown: Whitby, Ontario

C-ENG Involvement: Engfrosh facil (x3), CMAS Pubs, CMAS VP External, CPRT VP Outreach, CPRT President (x2), NEW Spirit Director, Charity LAN Director, proud member of SUPERCULT

Describe yourself in three words: cats, space, platters

Favourite Supervillain: Michael Fassbender as Magneto <3

If you could eat only one food for the rest of your life what would you chose: GUACAMOLE

If you were trapped in an elevator who would you choose to be trapped with: Chris Hadfield

If you were an ice cream flavour, what would you be: Pistachio

If you were granted three wishes what would they be:

1. Become an astronaut
2. Win a billion dollars
3. Go to Mars

Would you rather be able to fly or breathe underwater: fly!

Steel, concrete, or wood: More likely to make a spaceship out of steel than concrete or wood... So steel.

Favourite thing about CENG: The support system – you have so many people to rely on if you need help with anything.

Editor -in-Chief
Rebecca Feddema

VP Publications
Ryan Waddell

Thanks To:

All of the fantastic writers, columnists, photographers, and the like who filled these pages with their wonderful nonsense.

- Footnotes -

This Issue Brought to you By:

- completely ignoring 4 projects
- 6 sporadic Christmas shopping trips
- A river of tears for all the lost facial hair from Movember
- 12 spats of rage teacher evaluating - the only study break
- AND only 50 google searches

Apologies:

Maybe our new year's resolution will be to start appologizing



COUNTING THE DAYS UNTIL WE'RE BACK IN DECEMBER