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AGRICULTURAL ENGINEERING

THE CARLETON STUDENT ENGINEERING NEWSPAPER

THE IRON TIMES

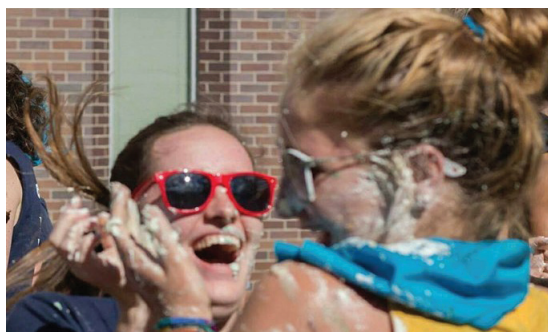
THE NOUVEAU IRON TIMES

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FEBRUARY 2018

DATING IN ENGINEERING CAN BE HARD, THAT'S WHY

we're here to help



Elspeth Cudmore & Rachael Machnée
- ENG PHYS IV - - AERO A IV -

@All you lonely souls, another V-day article coming your way. If you have no idea who we are, it's probably because we 100% don't go to Carleton. Just kidding - we've actually been damned to the hell that is out-of-province co-op. On the upside, being on co-op means we have unlimited time for extra curricular activities such as "dating,"* that's what co-op is for, right? So nice girls like us can find rich husbands?

We're here to bring you our best tips.

Dating in engineering can be hard, and that's why Elspeth and Rachael are here to help. Remember, the goods may be odd, but the odds are most definitely good (this statement only applies to those attracted to the male gender, sorry pals).

Now getting a date in the first place might seem a whole ridiculous/hopeless thing on its own, that's why... We wrote an article

about it last year!! Wow! So neat! If you missed it, sucks to suck.

Moving on- once you've got a date, you need to know how to survive the almost ensured awkwardness that's about to come (you're likely going on a date with an engineering student, after all). A first date can be broken up into three major parts 1. Awkwardly Greeting Each Other. 2. Awkwardly Getting to Know Each Other.** and 3. Awkwardly Saying Goodbye. CONTINUED ON PG. 4...

READ ON, I DARE YOU

HOW TO DATE IN ENGINEERING CONT'D

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AND MUCH MORE!



WARNING:

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

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



EDITORIALS

PROOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOCRASTINATION

From the Desk of the Editor



Gabriel Karam
- CIVE II -

A PROFESSIONAL'S THOUGHTS ON PROCRASTINATION:

Picture this: you're sitting at your computer at 4am on a week-day writing up a report that's due in less than 5 hours, wondering why the hell you only just started writing tonight. It's 6 now; you've finally finished and try to get a measly hour of sleep, cursing yourself and promising to start your work earlier next time.



Aaaaaand you find yourself in the exact same position, doing the exact thing you swore never to do again. Sound familiar? It's most likely something every student has experienced at least once- the unstoppable force known as procrastination. To the strong procrastinator, there's always "enough time" to do something later, and they can easily neutralize any nagging scrap of conscience that may remain. Deadlines seem to float right by them, but they never seem to miss anything fun! However, the question remains- why is it that procrastination is such a strong force, and that one never seems to learn from mistakes that were just recently made? Hopefully this article will give some insight into the startling nature of this epidemic (you're on the edge of your seat now, aren't you), and some useful self-help tips to help avoid death-by-sleep-deprivation.

In a 2006 study on procrastination conducted by the Harvard professors Todd Rogers and Max Bazerman, they determined that one of the major causes of procrastination was a disconnect between the present and future selves. Basically, when the present you doesn't want to deal with an unfavourable task/situation and pushes it off onto future you,

present you doesn't think about the future consequences and how things will most likely get worse as time goes by. And if you think about it, it's really a by-product of the desire for instant gratification. Why do something unpleasant now when there are so many more fun things to do? Especially in today's society where entertainment is always only a few taps away, it is very easy to start browsing Facebook when you should really be finishing up a project.

While the occasional bit of procrastination is a relatively harmless thing, it can become something much worse as time goes on. When we start putting off really important tasks (like starting a savings plan, or perhaps leaving a toxic work environment), that's when procrastination can start affecting our lives in a really detrimental way, and can even lead to serious mental health concerns.

Luckily, there are many ways to overcome procrastination! Follow these three tips outlined by the study and you should become a more motivated and disciplined individual (I sure as hell am going to try)!

1. Remove those procrastination devices. This is a pretty self-explanatory one; if you constantly find yourself watching cute cat videos, install an app that lim-

its the amount of time per day that you can use on YouTube. This can also be applied to your work environment- don't try and do work in your bed or on a couch when it's so easy to just relax or fall asleep. Instead, sit at your desk and promise yourself that you can go have a rest only once you've finished working.

2. Make thinking about the future more rewarding. Remember, procrastination is when you shove things to the future without thinking about the consequences. By making sure you know exactly what is in store for you if you put something off (like getting no sleep), doing it now may quickly seem like a better option. Granted, not everyone is great at visualization, so...

3. Make the consequences of procrastination more immediate. Kind of like #2, but a lot easier to do. Instead of thinking about the future, put measures in place that will help you make the right choices in the present. For example, if you're trying to go to the gym every other day, find a dedicated friend and make a workout plan with them. Now if you miss the gym, you will not only be an ass to yourself, but also to them.

Until next time~

RUNNING OUT OF WATER AND TIME



Logan "First Year" MacGillivray
- SOFT III -

One of United Nations' largest priorities is that everyone should have access to clean water. In India, work is being done to end open defecation, something practiced by over 40% of the population. And Carleton has its own clean wa-

ter project, From Buckets to Rain Barrels, which is working to bring clean water to Tanzania.

But in Cape Town, South Africa, things are a little different. The goal is not to try and build toilets or teach clean water practices; rather, people are trying to save what clean water that is already there. Cape Town is on the brink of being the first major city to lose water access. The past two years have been filled with severe drought. This has left the dams, the city's main source of water, at

roughly 28% capacity. For months, the city has been warning residents that in order to prevent the taps from being shut off, citizens would have to use less than 87 litres of water per day. However, this number has now dropped to 50 litres since most residents use more than their allowed share. Should the dams drop to 13.5% capacity, the city has declared that it will queue people for water rations, 25 litres of water per person per day. This day is being called Day Zero and has been forecasted to be April 21 this year. Vital

services, such as hospitals, will not have their water services cut.

As a contrast, each Canadian individual uses approximately 329 litres of water per day. Despite the fact that our water supply is one fifth of the world's fresh water and not running out any time soon, we should still look for ways to reduce our own water consumption.

Looking at a 2016 Global News report, Canadians use the most water in the washroom, where approximately 65% of their daily water is consumed. And this is where

EDITORIALS

I FEEL LIKE IF YOU READ ENOUGH OF THESE ARTICLES, YOU WILL REACH ENLIGHTENMENT



Cassidy "Next" Lang
- AERO C III -

It's got to be one of the biggest pet peeves of everyone who identifies as outgoing, as well as one of the biggest fears for everyone who identifies as more shy and reserved: bad conversationalists. Ironically, I've only ever met people who complain about bad conversationalists and never anyone who actually claims to be one.

It's difficult to know whether one can be considered a good conversationalist if the jury is still out on exactly what makes a good conversationalist. There's more to it than just being talkative or tactful.

A big part of what drives meaningful conversation seems to be the ability to ask good questions. In his book, "Ask More", American journalist Frank Sesno claims that asking a truly thought-provoking question can be as simple as thinking "what happens if I turn the period or exclamation mark at the end of the sentence into a question mark?"

Sesno believes that, as a society, we tend to "binge" on one type of questioning: asking to obtain answers, which is the confrontational questioning that we see so frequently portrayed in the media.

many changes to water consumption are coming. Everyone has seen the dual flush toilets, the ones with two buttons. The light flush option on toilets uses between one and three litres. This is down from the six litres that is required to normally flush a toilet. Showers, while not as noticeable, have also had some incredible changes. Most shower heads spray water at 7 to 8 litres per minute; however, some newer models are reducing the amount of water expelled by 1.5 litres/minute while still conserving the quality of the shower head.

While these practices might be good in Canada, things may be



Thinking About how to build conversational character

The other types of questioning that he perceives balance our question "diet" are asking to think strategically, asking to think creatively, and asking to think empathetically.

So, basically, it's important to ask questions that "stretch your thinking" in addition to those that pretty much demand an answer in some capacity. Being interrogated gets exhausting.

Of course, the other large component to meaningful dialogue is listening. Knowing how to really listen is a rare trait, and combined with asking the right questions, one can often deduce more from a response than an individual realizes they are disclosing.

(As an aside, if learning how to master the art of asking questions and listening for clues to decode the full extent of what is being disclosed interests you, I would highly recommend giving Frank

too late in Cape Town; however, there is still one practice that stands a good chance of saving the vacation spot. Grey water (water that has already been used) can be re-used for other purposes, such as watering plants or flushing toilettes where potable water is not a necessity.

While Cape Town may be down, they are certainly not out. Next month they will start with their 50-litre limit, which can save their city from losing free access to water. But another question comes: if we continue to abuse our access to fresh water, what city will lose access next?

ing to be an asshole. You always have a choice and sometimes that choice needs to be to shut the hell up. I also have to remind myself of this daily.

Dr. Susan David, who invented the concept of emotional agility, talks about a situation in which we may feel that a friend or coworker is in the wrong, and instructs us to think: "Who do I want to be in this situation? I might be right, but am I acting in a way that is consistent with who I want to be in the world?"

The issue with any sort of character building or self-improvement exercise is that there are a lot of people nowadays who will be quick to tell you to "be yourself" and not to change for anyone. They may think they are doing you a favour.

Character flaws are a part of being human, but the fact of the matter is, character flaws can be actively managed.

The human essence is malleable and the longer one attempts to reinforce a good habit, the greater likelihood that it will become ingrained into one's character over time. Bad habits will not unlearn themselves, because often, they are being reinforced every day.

I think we could all afford to take the advice of Dr. Susan David and ask ourselves "who do I want to be in this situation?" It's the consideration of one's self-image and how that is expressed in relation to one's current circumstances that allows this type of thinking to build more than just conversational character.

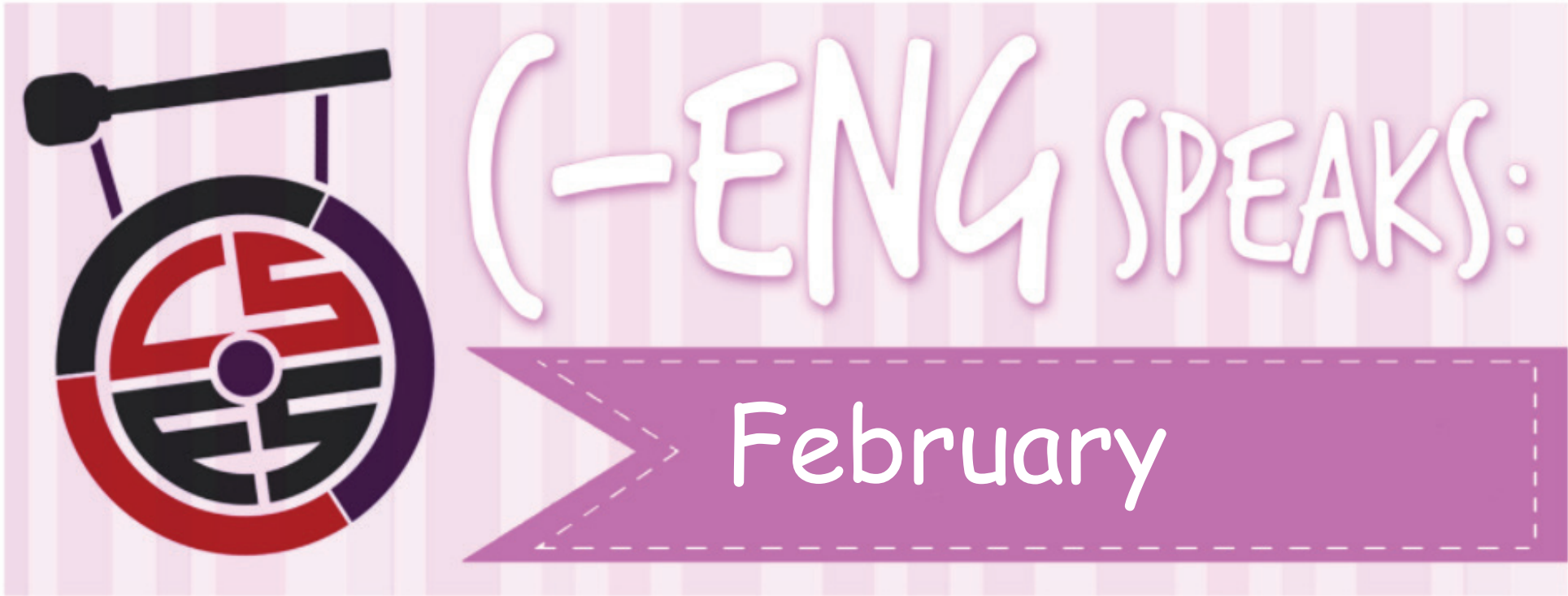
In colloquial English, when the going gets tough, the tough get going, and the tough aren't dicks about it.



THAT'S A DAMN PROBLEM, ISN'T IT

COLUMNS

DOES ANYONE ELSE THINK FEBRUARY IS SPELLED REALLY WEIRDLY???



“If you could get one winter-themed pet, what would it be?”

Saint Bernard (with the Whiskey Barrel Collar of course)!



Owen MacIntosh
BMED MECH III



Hannah Waye
BCoMS III

Polar bear. It'd be fun to snuggle with.



Talal Faddah
AERO I

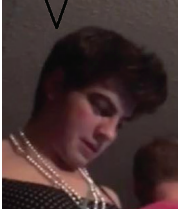
Santa ma bitch

Daniel Mutton
NOT ENG V




Winter doggo.

A motherfucking POLAR BEAR




Nikita Rudakov
MECH II



Michael Lanning
ELEC ???


An Alaskan Malamute.



Daniel Haycocks Tulli
ELEC II


A husky.

A narwhal.



Noah Pacheco
AERO D IV

A husky.



Cornelius Liburd
AERO I

A polar bear named Steve



Konstantin Fedotov
ELEC II



COLUMNS

GIANT SNOWBALL THINGIES SOUND PRETTY LIT TO ME

Lazar Milojevic
SOFT I



Bruce Willis

Devon Rudyk
ARCH ENG II



A wolf

Ahmed Abdalla
ENG PHYS II



A penguin
Noot Noot

Hannah Carton
ENVE III



Samoyed (they look like giant snowballs)

Rebecca Sondermeyer
ARCH III



A white pine marten

Dublin
AERO C II



Something fluffy that could keep me warm because it's been too damn cold.

OGGabe
MECH V



A winter-themed doggo

Teo Blidaru
BMED ELEC III



A husky.

Rafe Osborne
COMP SYS II



100% a Grey Wolf. Have loved them ever since I was a kid.

“Who's the best prof in the entire faculty of Engineering and Design?”

Steve Fucking Ulrich



Glenn 'See you all next year' McRae



Prof. John Gales



There is only one right answer, and if you don't know it, you probably didn't do worksmart campus.



Tom J. Smy



Glen McCraeCray the Bae



COLUMNS

...EVEN IF YOU CAN'T REALLY SPELL IT

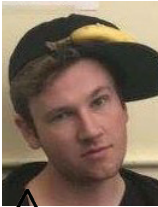
Henry Saari.



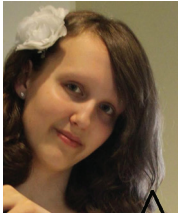
Do I look like I know the answer to that?



Glen Maccrey.



Ramy Gohary.



John Gales

I hear that position has been vacant for quite some time now...



Henry Saari (ಠ_ಠ)



Glenn McBae <3

Is it too late now to say Saari?



Glen McBae *insert heart eye emoji*



Glenn McRae



Glen McBae

McRae



GALLERY

IS IT EVEN LEGAL TO LOOK THAT COMFY?



GALLERY

WHEN YOU START DOING FROSH CHANTS BUT REALIZE THERE ARE SMALL CHILDREN AROUND



REPORTS

BEING A FARMER SOUNDS PRETTY HARD, ACTUALLY



Audrey Kester
- CIVE III -



Engineering defined by dictionary.com is “the art or science of making practical application of the knowledge of pure sciences, as physics or chemistry, as in the construction of engines, bridges, buildings, mines, ships and chemical plants”. This is pretty self explanatory, but I believe this definition is still quite limited. There are so many more opportunities in engineering than what is defined above. In particular, the subject of agriculture is often glossed over, and many people don’t have an understanding of what is involved. The issue is, rural areas are decreasing, but the food demand is increasing, therefore the need for engineering to optimize production is also increasing. There are so many different aspects in agriculture that can be engineered to enhance crop production, for example, engineering the machinery used; larger capacity machines, GPS systems, sensor applications within machines, the list goes on. You can also engineer the seeds, fertilizers and pesticides to increase production. These are the obvious aspects, but what many people don’t know is what happens behind the scenes with regards to the soil and drainage required to optimize the crop production. This is a pairing between civil and environmental engineering in order to ensure proper drainage of land while maintaining the ecosystems in the surrounding environments.

I was lucky enough to attend the Drainage Engineers Conference in Guelph over reading week. While there, I learned about several aspects of drainage including The Drainage Act, tile drainage, and tested engineering practices that provide solutions to a specific problem. The Drainage Act is a

legislation put in place that clarifies the duties and responsibilities of municipalities, land owners, drainage superintendents and engineers. Tile drainage is a common practice to better the soil drainage and increase production of agricultural land. The Barefoot Box Culvert is an up and coming culvert that was designed to replace a degrading culvert. The new design had to ensure that the local habitats remained unaffected. All in all, the Drainage Engineers Conference in Guelph provided current and relevant information that applies to enhancing agriculture as well as providing guidance in engineering for rural communities.

The drainage act specifies and allocates duties of each party involved in issues with existing and upcoming drainage including the landowner, the municipality and the engineer. Landowners have the ability to petition for the construction of a new drainage work in “an area requiring drainage” with respect to a municipality drain. Any owner in the “area requiring drainage” has the ability to sign or decline the petition. If the council approves the petition and the engineer approves the work to be done, all landowners within the area requiring drainage are required to pay for the work done, whether the landowner signed the petition or refused. The Drainage Act report will be activated when a petition is presented by a simple majority of owners or when an owner possesses 60% or more of the area in the area requiring drainage, or finally, the road superintendent of the municipality is submitted. An engineer is appointed to the petitioned drain, has an on-site meeting and com-

pletes a report confirming whether or not the petition is sufficient. The engineer is required to perform a field survey, produce a design of the new drain, prepare a proposal and presentation, contract tendering, and supervise construction. The engineer finally must complete a fair assessment of the drain so that the cost is divided between the landowners based on the benefit of the drain for each property.

Tile drainage is an elusive topic that many people know of but don’t know much about. There are specific aspects of tile drainage that are very familiar (such as 10, 8, and 2 on the following list) but also some unfamiliar aspects as well. The following list was prepared and presented by Sid VanderVeen, P.Eng, of Ontario Ministry of Agriculture, Food and Rural Affairs:

Ten Things You Didn’t Know About Subsurface (Tile) Drainage

10. Subsurface drainage functions comparably to the holes in the bottom of a flower pot

9. Subsurface drainage dates back as early as the second century B.C.

Although in the 60’s and 70’s there was major increase in the installation of tile drainage, it actually originated with dugouts used to drain the soil as early as 234 -149 BC. There is also evidence of clay tiles used in the 1800’s.

8. Subsurface drainage reduces overland flow and the movement of settlement

Any time the soil is saturated above the tile line, the tile will be flowing, and therefore since the location of the tile is lower than the location of the surface, grav-

ity states that the water will run through the tile before it runs off the surface. With this in mind there is less movement of the soil because the amount of runoff is reduced.

7. Subsurface drainage only flows when water table raises to the bottom of pipe: AKA drained soil = agricultural storm water management

6. Subsurface drainage acts as a conduit for water – it does not pollute water

An example of this is roads don’t pollute the air, but cars, which use roads do. The idea is the same for subsurface drainage. Fertilizers and pesticides used on fields may contaminate the water, and may be transferred in the water running through the tile, but the tile itself does not pollute.

5. Subsurface drainage encourages crops to develop stronger root systems which help them in dry conditions

If a spring season is very wet and a field is not tiled, the roots of the crop will be short and weak because they have constant access to water. If this is followed by a dry summer and the free water level is low, the roots will not be able to access the water, where as roots in a tiled field grow to closer to the tile line since the water level drains to the tile line. This creates longer and stronger roots that are resistant to drought.

4. Ontario is one of the only jurisdictions in the world that requires tile drainage contractors to be licensed.

There are specific criteria and licences that a contractor must have to install a tile drain. This allows accountability to services and ensures that proper measures are being taken to correctly install the equipment.

3. There are benefits of subsurface drainage that extend beyond increased crop productivity.

A couple of these benefits include improved trafficability for machinery because the soil isn’t a mud puddle. Also, it improves disease and weed control, soil structure and increases soil temperature.

REPORTS

TRY SAYING THAT ONE TEN TIMES FAST

2. Subsurface drainage improves crop productivity which reduces pressure on land conversion and improves our ability to produce food for a growing population.

1. Jack Miner, the father of North American conservationism recognized that conservation goals can co-exist with agriculture and subsurface drainage.

Barefoot Box Culvert was designed to replace a specific culvert in the Pine River in Melancthon Township flowing into Nottwasaga River. A notable fact about the area is that the river supports all life stages of Brook Trout, an endangered species. A replacement was required in order to allow local agriculture equipment and machinery to pass over the structure while maintaining the integrity of the ecosystem and ensuring safety. The contract included demolition and removal of the original structure; the project itself was estimated \$300,000 which covered numerous things such as bridge structure assessment, design and engineering, and aquatic assessment and permitting.

The design was based on the sensitivity of the site, specifically supporting Brook Trout, and therefore a precast concrete “Barefoot Box Culvert™” was designed using a system that replicated the form and function of the watercourse. Notable aspects of the project included the preformed holes in the base slab for groundwater discharge and embedded to allow for a meandering low flow channel with natural substrates. The design met all standards in respect to safety, geometry, road grades and load capacity.

The amount of agricultural land is continually declining while the world population is increasing, resulting in an increase in food demand. Engineering is about improving and inventing ways to increase productivity. In the case of agriculture, the yield is always going to need to be maximized. I believe the opportunities are not limited. Engineering in agriculture is not limited to one specific stream of engineering; every discipline of engineering is represented in some form of agricultural productivity

enhancement. For example, electrical engineering can enhance the systems within the machinery, mechanical engineering can be used to improve machinery, software engineers can be used to program and enhance GPS systems, environmental engineers are needed to ensure the habitats are not compromised, geotechnical engineers can test and manipulate the soil, while structural engineers are maintaining the culverts to ensure machinery can get from place to place, drainage engineers to maintain the drains, the list goes on. Although I only addressed the topics discussed in the Drainage Engineers Conference, the opportunities in agriculture are ever-present. Just food for thought.



CSCE FEBRUARY UPDATE

CSCE is offering a discounted membership price of \$5 for the rest of the semester. The membership still includes a print card and access to all equipment in the office. We are excited to announce that CSCE will be selling K-cups for 75 cents to members for the Keurig- please bring your own mug as well (members are still welcome to bring their own pods). On February 6th, CSCE will be hosting an Industry Night with companies such as Tomlinson, Pomerleau, DST Consulting Engineers and more. Tickets will be sold for \$20 for members, \$30 for non-members and \$5 if you only want to submit your resume. The ticket includes access to the evening, as well as you may submit your resume beforehand and it will be given to every company at the end of the evening. CSCE will be hosting a General Meeting in March, so stay tuned for details. Happy February!



Gaby Hubert
- SOFT III -

SCESoc GOES TO CUSEC '18

It's February, meaning that another successful Canadian University Software Engineering Conference (CUSEC) in Montreal has come and gone. Your friendly local Systems and Computer Engineering Society (SCESoc) and their delegation were in attendance this year, along with 500 other students and dozens of professionals. Since too much cool stuff happened during the conference to fit into a single article, I will outline the most important factors one would expect to experience while attending CUSEC:

- Lots of nerds. Not just any kind of nerds though, really smart and important ones. Some of them even have Wikipedia pages of significant length. And they were there for the whole conference, intermingling with us during breakfast and whatnot. Super cool.
- An overwhelming amount of networking opportunities. I wasn't even planning on networking, but inadvertently ended up talking to three recruiters while trying to snag a free branded fidget cube from a booth. My LinkedIn blew up that weekend.
- Lack of sleep. Your days are packed. Although the amount of sleep I got was comparable to midterm season, and I desperately needed to nap 100% of the time, I still wanted to go to every workshop/speaker/event. FOMO was strong.
- Friends! Going to CUSEC, sure that's fun. But going with SCESoc? That's a whole other experience. We were notorious for suiting up, sticking together, and showing up to restaurants with 15+ people without reservations.

Personally, CUSEC was an incredibly worth-it experience. Being a student, you can often feel in a rut, learning the same predictable subjects so many other students have struggled through in years prior. Attending CUSEC can open your eyes to new technologies and ideas in the ever-changing world of software engineering, and leave you with newfound motivation and a sense of pride in your program. I know it did for me.



WHOOAA, THEY EVEN HAD A POOL



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FEBRUARY

2018

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
29	30	31	1 Winter General Meeting	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
February Feel-Good Week (FGW)						
		Valentine's Day!				
19	20	21	22	23	24	25
Winter Reading Week (NO CLASS!)						
26	27	28	1	2	3	4
5	6	7	8	9	10	11
National Engineering Week						



CARLETON STUDENT ENGINEERING SOCIETY

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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
Sasha Christie

Hey C-Eng! As I am sure many of you are aware, it has been an eventful past month for CSES. We are still actively working on the tax situation and are doing our best to resolve it! In other news, I hope you are all as excited as I am for February Feel Good Week! We've got an amazing schedule planned this year with plenty of fun and useful events. Make sure to check out our Facebook page to keep up to date with everything going on!



VP Internal
Tristan Durie

Hello friends, hope you have had a good break and first month back to school! Make sure to keep a look out for Elections Nominations for next year's Exec and Council, it's excellence leadership experience and a great way to get involved and make a difference! Also remember to nominate people, for our year end awards! Finally, for graduates, don't forget to apply for your pewter mugs, it's our gift to you!! Finally Have a good semester!



VP External
Johan Prent

Hey C-Eng, I hope your break was filled with rest and hot cocoa! Coming up is the First Year Integration Conference, run by ESSCO! If you missed applying, or didn't get selected, fear not! The next conference is ESSCO AGM and applications will be released towards the end of the year! On an unrelated note, International Engineering Competitions will be a thing! Look forward to 2020 as that's when the first one is slated to run!



VP Publications
Cassidy Lang

Hey, C-Eng! Hope the new year has been treating you well. I will be working hard over the next few months with the new yearbook committee to bring you the first C-Eng yearbook since 2010! Keep your eyes and ears peeled for pre-orders, which will be set to open just as soon as we have some finalized designs to show you! As well, I would be more than willing to field any questions that you may have on the subject. Until next month!



VP Social
Julia Ferri

Hey C-Eng! I hope you're looking forward to another month of events. During February Feel Good Week, we will be hosting our semi-annual comedy night at Absolute Comedy, yet another Trivia Night at Ollie's, as well as Valentine's Day Pub Night. Take a break from all that hard work to relax and enjoy these events with us. Hope to see you there!



VP Services
Michael Lanning

Hey C-ENG! This month is gonna be a cold one, and maybe also a hot one, so be prepared by getting your C-Eng Hoodies! They open on the 29th, and will go until reading week! Our C-Eng toques will also be arriving soon, so keep an eye out for them! Otherwise, make sure you swing by the office and pick up some Waterloo EngSoc Patches, while they last! There are only 30 of them in stock so act fast!



VP Academic
Caroline Deluce

Hi C-Eng! Welcome back and happy February! I hope you have all had a good start to the semester. So far 2018 has been a hit!!! Our Jr. Design, Sr. Design, Consulting, and Debate teams all came 3rd place in the Ontario Engineering Competition (woo!). All the teams did a marvellous job and I couldn't be more proud. Upcoming in the first week of March is National Engineering Week. There will be events such as movie nights, speakers from the industry, non-Newtonian fluid demonstration and more. stay tuned for all the activities!!! Have a wonderful February and happy Valentine's Day.

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

CONT'D FROM LAST YEAR

Richard	STETCHEDONE	KENNEDY CENTER	THODEEPUGHT
NNNN CURRENCY	TOYLBABESAND	BB OR NOT BB	<div>LB LB LB LB LB</div> <div>WEIGHT</div>

HOROSCOPES



ARIES

IF YOU'RE EVER BORED AND WANT TO PICK A FIGHT WITH SOMEONE, JUST SHOUT "CAN YOU HEAR ME FROM THE BACK" AT THEM. WORKS EVERY TIME.



TAURUS

THIS IS THE BEST TIME OF YEAR FOR YOU, TAURUS. BECAUSE OF THE TWO SUPER-MOONS, YOU WILL BE GRANTED POWER BEYOND YOUR WILDEST DREAMS (LIKE ALWAYS BEING ABLE TO GET TO SCHOOL ON TIME)!



GEMINI

IT'S FEBRUARY AGAIN, AND IN THESE TIMES OF ROMANTIC UNCERTAINTY, ONE MUST LOOK TO THE PLANET VENUS FOR GUID-ANCE. OR DON'T, NOT SURE IT MATTERS EITHER WAY...



CANCER

A PERIOD OF CHANGE AND GROWTH WILL COME INTO YOUR LIFE THIS MONTH. MAKE THE BEST OF IT AND YOU WILL FIND THAT THINGS WILL WORK TO YOUR ADVANTAGE!



LEO

BE BOLD THIS MONTH, LEO! WHY JUST WALK FROM PLACE TO PLACE, WHEN YOU CAN STRUT WITH STYLE?



VIRGO

IF YOU'RE SOMEHOW STILL SINGLE BY THE END OF THE 14TH, VISIT YOUR CRUSH AT 3:00AM THE FOLLOWING MORNING AND THEY WILL BE SEIZED BY A SUDDEN DESIRE FOR YOU (OR TO CALL THE COPS- DEPENDING ON YOUR EXECUTION OF THE SITUATION, IT MIGHT JUST RESULT IN YOUR EXECUTION).



LIBRA

IF YOU'RE EVER FEELING STRANGELY TIRED OR LACKING ENERGY THIS MONTH, TAKE SOME VITAMIN D SUPPLIMENTS! PRAISE THE SUN!



SCORPIO

UPON THE RISE OF THE SECOND SUPERMOON, THE PLANETS WILL COME INTO ALIGNMENT AND A PORTAL TO THE UNDERWORLD WILL BE OPEN. IF YOU DRAW A PENTAGRAM ON THE THIRD FLOOR OF HERTZBERG, YOU MAY JUST BE ABLE TO SMON THE DEMON OF THE APOCALYPSE.



SAGITTARIUS

CELEBRATE YOUR LONLINESS ON THE 14TH WITH CAKE AND FIREWORKS! WHO SAYS BEING SINGLE CAN'T BE LIT AF? JK, YOU'LL PROBABLY BE CRYING IN A CORNER SOME-WHERE.



CAPRICORN

THIS MONTH, YOU MAY FIND A STRANGE OLD BOOK SIGNED "THIS IS THE PROPERTY OF THE HALF-BLOOD PRINCE" WITH A SECRET LOVE POTION RECIPE. USE WITH CAUTION, OR JUST GIVE A LITTLE BIT TO EVERYONE AND CHILL W/ POPCORN.



AQUARIUS

THE WATER CALLS TO YOU, AQUARIUS, AND SO DOES THE AIR. IF YOU PICK UP A FEW ROCKS AND A LIGHTER, YOU COULD PRETTY MUCH BECOME THE NEXT F*CKING AVATER.



PISCES

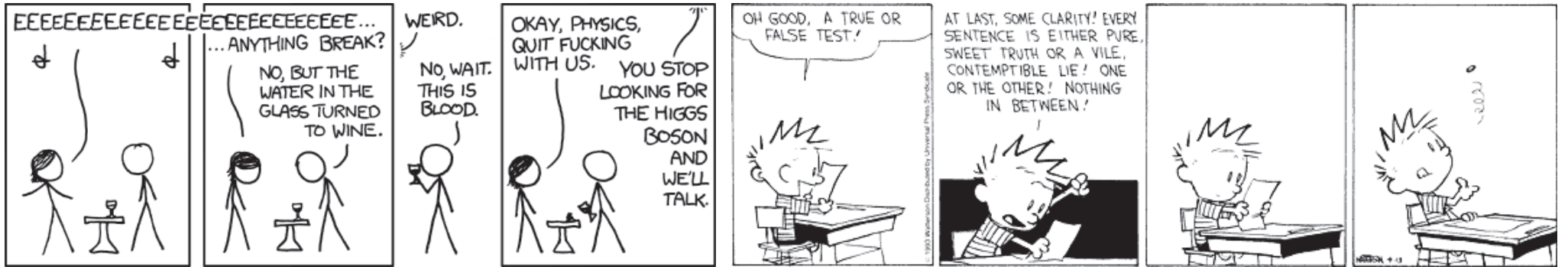
IF YOU EVER DECIDE TO GO INTO WORLD DOMINATION, CONSIDER CONTROLLING THE WIFI. PEOPLE CAN LAST UP TO 3 DAYS WITH-OUT WATER, BUT THEY SURE AS HELL CAN'T LAST THAT LONG WITHOUT THE INTERNET.

14

SOLID ADVICE ALL AROUND.

DISTRACTIONS

HAS ANYONE ELSE DONE "EENIE MEENIE MINEY MO" ON A MC EXAM?



Electrical Engineer



What my friends think I do



What my mom thinks I do



What society thinks I do



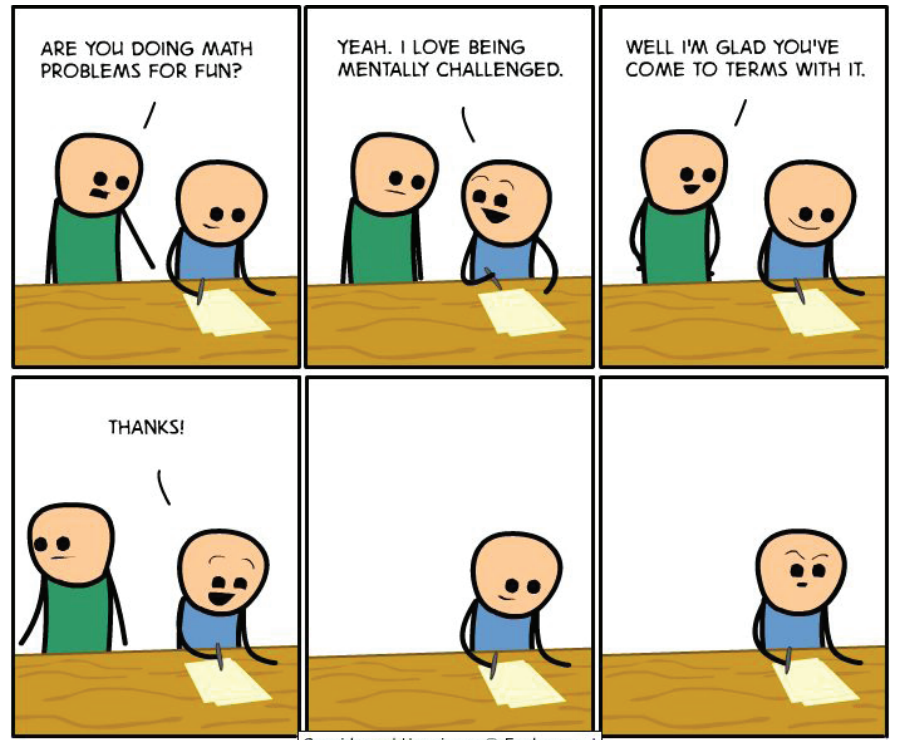
What my boss thinks I do



What I think I do



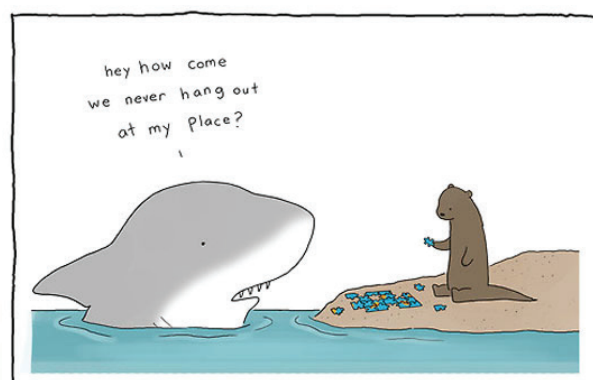
What I actually do



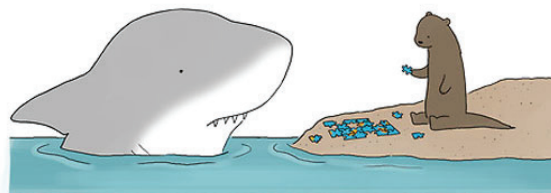
Cyanide and Happiness © Explosm.net

$$(\sqrt{-shit})^2$$

SHIT JUST GOT REAL



because I can't breathe under water and your Parents keep trying to eat me.



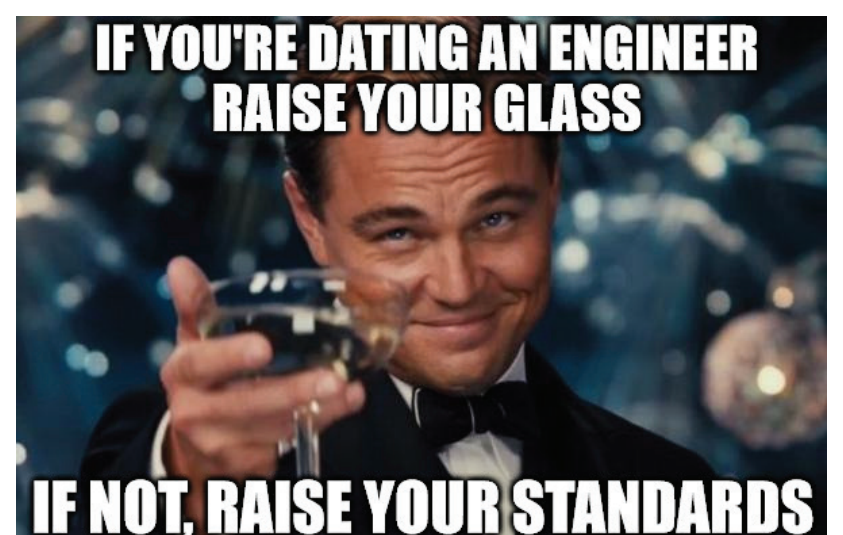
Sombdy toucha my spaghetti



Someone has come in contact with my Italian pasta



A person that is unspecified in their identity has presumably been in close quarters upon an Italian dish in which I, the rightful possessor, have longed to consume once I have returned to my residence, but instead have provoked a dire situation in which I can no longer partake in such event.



LAST CALL

CHEERS TO NEXT YEAR'S ENGFROSH!

THE IRON MAN ADAM "JELLO TITS" STAPLES - SOFT IV -



Hailing from: Most recently Barrie Ontario, most notably Queensland Australia.

Delicious Dish of your choice:
Crème brulee... that's the good stuff.

What would be your dream job and why?
Professional podcaster... it's like the radio but without ever having to worry about screwing up live and I can talk about whatever I want... kinda.

Most Magical Moment:
Driving through the Rockies in a blizzard! Not only looked beautiful but I survived which is even more magical!

If you could travel anywhere, where would you go?
Greece! Been on the top of my list for a while now.

Favourite song/band/genre of music:
Nose Bleed Section by the Hilltop Hoods.

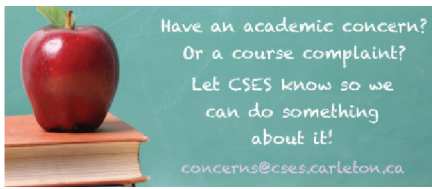
If you had one day left on earth, how would you spend it?
Doing absolutely nothing... if I could, lie in the sun maybe with some tunes on, just relaxing.

One quote that really resonated with you:
"Time may change me. But I can't trace time." – David Bowie

Would you rather be unable to speak, or unable to use any electronic devices (for one day)?
Unable to speak. Turns out it's super easy to get electronic devices to talk for you.

What holds the top spot on your bucket list?
Finish dis degree. Then own a nice little cabin by a lake.

Hit me with your best six-word horror story:
No grades found... Loading in progress.



USES FOR THE CHARLATAN

- > Clip out the letters and send an anonymous ransom note.
- > Cut into a heart shape for Valentine's day (not advised if you want to get anywhere though).
- > Cover things to make them waterproof. In fact, it is said that their articles are so dense, even the smallest bits of information cannot pass through.
- > Stuff into your sleeves and pants to impress people with your muscles.
- > Substitute for raisin bran in the morning. They both taste like cardboard anyways.
- > Cover your furniture with the pages while painting.
- > Just flush it.
- > You could read it

THE IRON LADY SYDNEY VAN BAKEL - ARCH ENG IV -



Hailing from: Hamilton, Ontario. #hamONT.

Delicious Dish of your choice:
I'm all about the chocolate.

What would be your dream job and why?
Professional Synchronized Swimmer to stay fit and make cash monies.

Most Magical Moment:
Holding my baby sister for the first time.

If you could travel anywhere, where would you go?
Bakel, Netherlands – the town of my people.

Favourite song/band/genre of music:
Anything that can be performed while driving.

If you had one day left on earth, how would you spend it?
With my favorite people somewhere with the sun, the ocean and a beach.

One quote that really resonated with you:
"Ever tried. Ever failed. No matter. Try again. Fail again. Fail better." - Samuel Beckett

Would you rather be unable to speak, or unable to use any electronic devices (for one day)?
Unable to use any electronic devices; I like being a social butterfly.

What holds the top spot on your bucket list?
Write a bucket list.

Hit me with your best six-word horror story:
4th year is impossible after co-op.

Editor-in-Chief

Gabriel Karam

VP Publications

Cassidy Lang

Special Thanks To:

Everyone who picked Glenn McRae as the best prof

- Footnotes -

Issue Made Possible By:

Microsoft Word Spellcheck
A new laptop charging cord
53 Perogies with bacon
At least 100 bowls of noods

Last Words:

They're actually tuning the piano in Minto!!!!



STAY TUNED FOR MARCH!