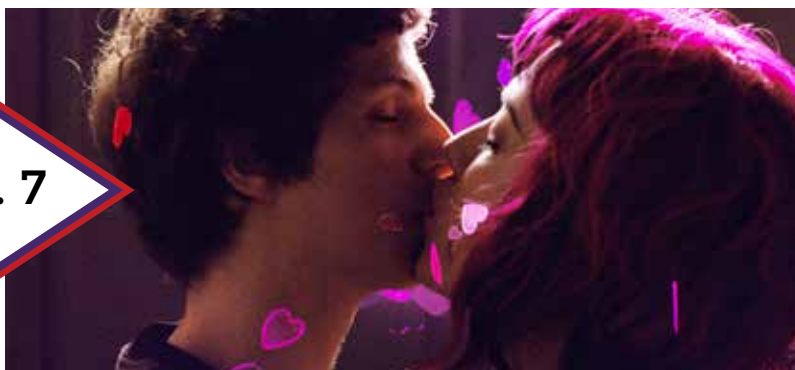


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THE CARLETON STUDENT ENGINEERING NEWSPAPER

THE IRON TIMES

LOVE IS IN THE HAIR

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FEBRUARY 2015

LOW IMPEDANCE PICKUP LINES

By Hung Ly

In the spirit of February, the month of love, a social experiment was conducted. Below are a small sample subject of an approximate 100 pickup lines that were field tested and proofed. The following were chosen to best represent the wide range of best, worst, and most interesting lines of the full selection. Writers are not responsible for any drinks thrown in the face, back-handed slaps, sack taps or general lowering of one's self esteem upon usage of the following pick-up lines. **User discretion is advised.**

"Hi, I'm Hung."

Success Rate: 60%

Pros: Makes one seem interesting, intellectual and desirable.

Cons: Have to be Hung.

"Hey, I think you're really cute and I was just wondering... Do you want to get dinner with me some time?"

Pros: Genuine. Kindof Realistic.

Cons: Unknown???

Success Rate: It's up to you to find out ;)

"Is that a keg in your pants? Cus I'd tap that"

Success Rate: 40% **Pros: Perfect for before/during/after all kegers**

Cons: Might be taken the wrong way ("You callin' my butt fat?")

"My buddies and I have a bet that I can't have a conversation with the most beautiful girl here. Wanna get drinks with their money?"

Success Rate: 80%

Pros: Free drinks!

Cons: Needs friends to make the bet in the first place. Need to be able to hold a conversation.

"Are you from Tennessee? Because you're the only ten I see."

Success Rate: 10%

Pros: A Classic. Never gets old.

Cons: A classic. Way too overtold.

"Are you an antiquer? Cause I have some junk that hasn't been touched in years."

Success Rate: 40% **Pros: Get's the guilt in there. Doesn't get her expectations too high.**

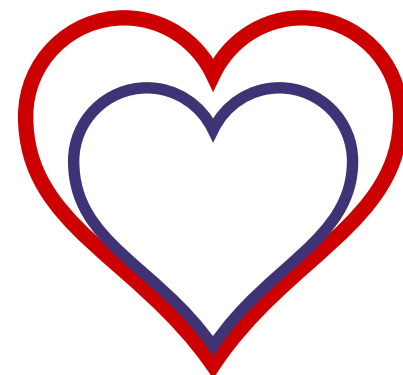
Cons: Dusty. Possibly for both sides...

"I am full scale living statue of Ryan Gosling made entirely out of pure milk chocolate. Would you like to come over to my place to watch the notebook, eat ice cream and talk about our feelings?"

Success Rate: 110% **Pros: Always Works.**

Cons: Need to be a chocolate Gosling of sex

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AND MUCH MORE !!



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EDITORIALS

LOVE DURING A RED SEA CAN BE ROUGH, YET EXCITING

FROM THE DESK OF THE EDITOR while(Love == TRUE)

{ cout << "Why an Engineer Might Love" >> }



Connor "Birdbath" Buott
- AERO III -

I was rather baffled by the nature of the nature of love as a kid, and I can't say I've made much progress since then.

Much of that confusion stems from our western definition of love: we tend to lump all variations of that emotion under the same name, with only one word being used to describe an incredibly broad aspect of human culture, with both enormous and subtle variations. With its usage being incredibly context-sensitive, no wonder many of us hesitate to use it in regular speech. How can a word be thrown around between drunken gals and bros at a party with nary a care, and yet if said while you're sneaking a quickie with a consenting partner in the back room, suddenly you've made one of society's most serious commitments (or faux-pas)?

To solve that problem, the ancient Greeks had love broken down into 4 words: *Agápe*, a mature love, used to describe brotherly love, goodwill towards others, benevolence, and a respectful love of one's spouse and children. *Éros*, the intimate love, of passion and eroticism. *Philia* is the affectionate regard, friendship, between equals. This is what best describes our "bro-mances" and our "grl-fraaiinds". Finally there's *Storge*, used to denote the love between parent and child, the natural, almost unbreakable affection for your offspring.

We've taken love apart,



but the Greek's didn't have much to offer as to how this powerful machine actually works.

Fortunately, for nearly a century evolutionary psychology, and more recently, neuroscience, has been working to answer these questions: how do our brains develop these emotional impulses, and why we generate them in the first place?

While there's still much research ongoing, what we do know is that love, like most other emotions, is generated by strong chemical reactions within the brain, specifically through the release of dopamine. You'll hear dopamine mentioned with regards to drug addiction and satisfaction, as it's the primary drug responsible for pleasure in everything you do, from finishing a 10k to finishing on your partner.

Evolutionally, it's thought that these strong reward-based chemical reactions were naturally selected for, because partners

who had a strong, permanent attraction to each other were more likely to stay together and raise their children together, producing stronger, more successful offspring. Those offspring carried those genes, and over time, it became a normal part of the human reproductive process.

Love for the purpose of paternity is not unique to humans, with many animals exhibiting a strong and singular partnership, particularly in species where the young must be raised in difficult environments through great sacrifice by the parents. A perfect example is the Emperor penguin, who's parents take turns sitting on the egg in harsh arctic weather while the other marches leagues to the sea in search of food.

So we know what love is, we know how and why we fall in love, and yet exactly what love is continues to allude us. As long as we have had spoken and writ-

ten word, every poet has written at length of the nature of love, as has every songwriter, author and screenwright. We have records going back as far as 2000 BC from every society and in every language, all bearing mention of the various natures of love. To some, it is simply an emotion, to others it is a commitment, and to some it means nothing, simply another emotion to be overcome in our ever-more rational world. We may go through the motions, follow the social conventions, presenting the appropriate gifts and signs of affection, while inside we turn our chemical switches on and off with ease.

I suppose as engineers, the best we can do is to continue to explore, to live, to mature. Like the model of an atom, we'll have to keep relearning how the brain works, and like most of the technology in our society, we'll continue to love without a clue of how it works.

CLOAKED ENGINEERS

Connor "Birdbath" Buott



Many of you may know that Bill Nye is a Mech-Eng, but did you know that all of these celebrities also have engineering degrees?



Dolph Lundgren
B.ENG and M.Sc
CHEM



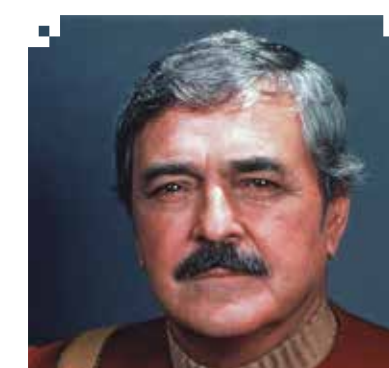
Rowan Atkinson
B.ENG and M.Sc
ELEC



Alfred Hitchcock
World War One
Military Engineer



President Jimmy Carter
Nuclear Engineer



James Doohan
WW2 Pilot
B.ENG (Honourary)



Michael Gambon
Toolmaker & Licenced
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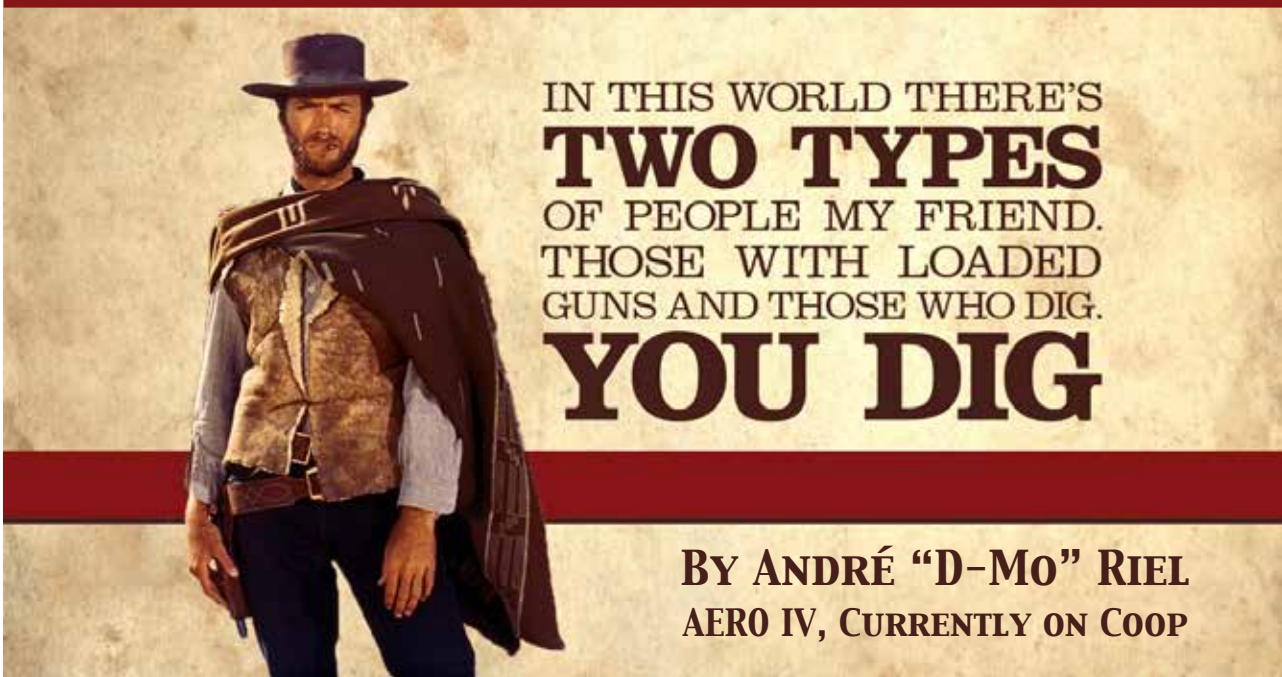
HOURS

24/7

EDITORIALS

THIS ISSUE HAS A LOT OF CLINT EASTWOOD. FOR VALENTINES, ANYWAY.

THE GOOD, THE BAD, AND COOP



Let's start with:

The Good

TL;DR: Co-op = SEEING AND DOING COOL SCH-TUFF + MO MONEY + MO TIME !!

Co-op is awesome. For those of you not in the know, co-op is short for Co-operative Education. This is where you work for a company in your field of study to get a feel for what it will be like in the working world when you graduate. Many professionals will tell you that once you graduate, most of the stuff you will have learned won't be looked at again. Furthermore, when you do run into particular things that you have forgotten, you will have your textbooks (or pdfs/lessons online that you can find easily) for reference. Therefore, your co-op experience could be the most rewarding and career-applicable part of your degree.

Why is co-op awesome? As I said before, you get to finally do some practical work with your degree. *Yawn* Oh, that's not cool enough? Ok then. Some of your co-op placements will have cool stuff. I work at the National Research Council in their Aerospace division, where they test engines daily. IS THAT COOL ENOUGH FOR YOU? AFTERBURNERS AT MAX RIGHT IN FRONT OF YOU WITH ONLY A PANE OF [very strong] GLASS BETWEEN THE TWO OF YOU WHILE DANGER ZONE BLARES IN THE ROOM. Also, when we do testing, we all have Sci-Fi

names for call signs; my closest co-worker is Red Leader. Yes, we're cool like that. And if you are more of a history buff than a sci-fi fiend, we have a compressor the size of a transport truck that once occupied a building in Germany before the end of WWII; part of the spoils of war apparently. No matter what field of engineering you are in, you will find really interesting things at your place of work.

Now you may be saying, "Come on André, I don't like super cool afterburning engines and stolen Nazi memorabilia, I'm just lame like that. Why else should I be in co-op?" It's the MONEY, Lebowski! You are going from either working part time to pay for school/just get some spending money or, if you're like I was, not working at all because school is hard enough for you. Well guess what, now you will be living off of a FULL-TIME job being paid more than minimum wage. You know what that means? It can mean a growing savings account to pay for your last year with ease, a new computer, and much more booze... AND not OR. As long as you don't start living like a Dubai Prince while on co-op, you should be doing quite well for yourself by the end.

You know what though, I know you people better than that. There is one thing you guys might love more than money when you're in school, time. When you are at school, what are your weekends for? Often times it's 100% for school. I didn't go out for 3 months other than for class in second semester of third year (Mech & Aero Labs + Aero Design + my slow working speed = R.I.P. my social life). You know what your weekends are for when you are working full-time? You, they are totally for

you. Even if you get a co-op in Ottawa and decide to take a night class, you're still only dealing with the equivalent of 10 extra hours of class and 1/5 or 1/6 of the homework to which you are accustomed. For me that meant more partying, going on dates, finding my love for video games again, and frankly just hanging around watching TV shows and YouTube. I'm committing the same amount of time to work as the average adult minus the time commitment of family. Life doesn't get better than this my friends. TAKE YOUR LIFE BACK FOR A YEAR, DO CO-OP!

The Bad, and the Ugly

TL;DR: Co-op = "Where did everybody go? :(" + "Come to this event that the Co-op Office is holding where you will learn nothing new and not get a job offer! :D " + "But mommy, I don't want to go back to school today. I want to stay home and bake cookies with youuuuuu!" + "DAMN working world, YOU SCARY!"

Co-op sucks. I know what you're saying, "But... you just said it was awesomesauce to be in co-op and that I should definitely do it. Why does it suck now?" Well you see friends, there are always two sides to every coin. University has some cool things about it and there are some shitty things about working, just ask enough adults about it and plenty of them miss school. Here's the negatives of being on co-op.

First, where you do your co-op makes a big difference on the biggest issue. If you are doing your co-op outside of the city, especially in a city where you don't know anyone, it can be very hard. Even if you have a car and can

drive to hang out with your Ottawa friends in a few hours, that will make for hard work weeks. Some people thrive in such situations better than others, but all people in a new place where they have no one are going to feel lonely for a few months. Just ask your exchange student friends how first year started off for them. Even just being at the other end of town like me can separate you from the community. Since I lived in residence for all of my university life so far, I had no reason to find a place near Carleton during my year in co-op, so I found a bachelor pad in Gloucester near work. Due to this (and my lack of that device we call a car), I miss all weekday events because it takes an hour for me to bus each way and I do not want to fall asleep at work. If I wanted to go to weekday events, I'd only be there for 30 minutes to an hour. Furthermore, just not being on campus at all leads to you losing touch with a lot of the C-Eng community. You have to make a real effort to chat and hang out with them often. Even those living on Sunnyside can lose touch with school friends and acquaintances a bit while on co-op.

Secondly, you have to find a job. The co-op office, bless their hearts, can seem quite um... distant in some ways to put it nicely. I mean, trust me, they are constantly emailing you. It's often about deadlines or that really sketchy sounding job in Hong Kong that pays less than what you'd expect for a company sending for you from the other side of the globe. However, when it comes down to it, being in the co-op program makes you feel like you are paying an extra \$1560 total during your school terms just to have access to a more exclusive job site. Frankly, that IS pretty much what you are paying for. There is NO GUAR-

ANTEE that you will get one of those jobs, so they are always encouraging you to search on your own as well. The application process can get pretty time consuming between tailoring résumés and going to interviews (I had 5 of them I had to trek out for, one of which I drove to Toronto for during Reading Week). One of the jobs that was posted was actually open to non-co-op students as well. My good friend who was not in co-op applied to it, worked really hard to make the cut, and ended up getting hired. It's kind of sad to think about the people who had spent all that co-op money and didn't get past the interview for that job (which was at the end of the semester meaning it was also probably their last chance to get a co-op job starting in May). I wouldn't suggest going the route my friend did because frankly she is absolutely brilliant, really wanted it, and had luck on her side. While YO-LOing it may seem enticing, you will have a much better chance with the co-op office than without it. And if you want the nice little co-op distinction on your degree you need to anyway.

Another problem is you get comfy in co-op. Yes, that is indeed a problem because you aren't done university yet. All of the great things about co-op I described before... they will go away. You still have at least one year to go (more if you're not on your last co-op stint and/or you didn't pass everything). When you get into the working lifestyle, going back to the grind-it-out-24/7 lifestyle of university is quite the struggle from what I hear from my predecessors. However, your one saving grace is that you aren't taking boring classes like ECOR 1010 anymore, you are taking courses specific to your program. You even get some choices in what courses

you can take. You can finally follow your interests through your engineering electives in fourth year. All in all, the break from the grind is probably worth the effort to get back into the groove after a year or more (assuming you have to do a 12 month stint or more like me).

The most serious issue you may very well run into in a co-op job is simple: WORK IS HARD! Depending on the job you get, your work can be really challenging. The coolest jobs doing the most interesting and influential work are often also the hardest work. The difference between challenging work at a job and challenging work at school is getting a C isn't a big deal at school. At work, on the other hand, you are expected to always do your best. You also hold yourself to a higher standard. You are being paid to do this work, so you feel obligated to do an A+ job. You know what though, for the first while, you might very well suck; I know I did. It may take you months to feel like you are anything more than a leech at your workplace. Remember though, the employers are hiring you knowing full well you are as much a pet project as you are another worker. Part of their job is to help you along the path to being a contributing part of the team and they get some enjoyment in seeing you improve as time goes on. Don't be discouraged by the CS:GO-esque learning curve of being in a workplace. Just enjoy your time off and don't take the stresses of work home with you. That was the only thing that kept me sane through the first few months. When I went home, I never thought about work; home time was my time. The feeling when you finally find yourself providing substantial input into the project you are working on is so extremely satisfying.

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I WONDER IF EASTWOOD CORRESPONDS WITH VALENTINES?

COLUMNS

HOLY CRAP, WES, 4 POINTS?? YOU'RE SCREWING WITH MY LAYOUT.

Different Universe

Engineering from an Artsy Point of View



Wesley "Pooping Panda" Chee
- CRIM III -

January was a solid month of just not giving any fuck's with events almost every weekend and every some during the weekday. January is one of the most packed of the school year since we had frost week events, Winter General Meeting for CSES members (I get to vote right?!), All-You-Can-Eat week or commonly also known as "Gain 20 pounds and cry about

it in the corner until you decide to drink your problems away". I wouldn't know from experience or anything: \$... Finally all the random parties people have and that is how you start off the New Year – bad life choices = 1 YOU = 0.

Frost week from what I heard was pretty much enjoyed by everyone who participated, I personally couldn't attend some events for co-op but its ok they weren't that fun anyways ;). I personally loved karaoke night back at my favourite place in Ottawa – O'Brien's Pub and Eatery (if you don't believe me, you can go to my Carleton University Criminology and Criminal Justice Society Page

and find me under "Executives" and that has been listed as my favourite place since 1st. I had many solid moments there and our little group even started our VAP tradition there by taking a picture and looking more retarded each time (key word in that whole sentence – "looking"). For those who survived from my horrible singing, you're welcome for not having your eardrums erupted and have blood flowing down your earhole. I don't even remember why I got pulled up for "Barbie Girl" but I rather enjoyed "Scotty doesn't know" with the Panda himself ;) I'm sorry SuperFrosh for missing out on our song; we will kill people next time with our singing!

COMING IN FEBRUARY



The shortest month of the year, the month of Love and the month this writer was born... YES, it's obviously the best month of the whole year. I will be the big 21 (Yes, I can count that high... surprising I know) ... If I didn't feel old better, I do now. Slightly off track with my own life story so here is what you should lookout for when February comes around:



First Year Event was one of the few events that I loved during my first year, I met some awesome people and got to build a toboggan with cardboard, cheaper and quicker version of GNCTR (change the C from Concrete to Cardboard). I advise all first years and even upper years to go and volunteer their time so that everyone has a great time!



February Feel Good Week – For those who know me, this is something pretty important to me so it would be awesome to see many people volunteer to help out and raise awareness to mental health by providing others with a free hug or some treats to simply brighten up their day. I volunteered last year for 3 days and it was a great feeling to see strangers smile because of the little things. Lots of people forget to enjoy the small things when their life is full of school, work or relationships.



Ottawa – February is a pretty solid time to be in our great capital city. The canal should be frozen so you're able to go on a romantic skate! Beavertails are a must when skating; there will be stations all along the canal. If skating isn't your thing then look out for Winterlude, it's the first 2 weeks of February and there are just fun booths and attractions to see. It's spread around Downtown Ottawa and Gatineau. The Ottawa side has many great ice sculpture's while across the border is the fun rides. OC transpo does shuttles so don't worry about rides... wait you should because it's OC transpo

NEWCiE 2014

Levelling the Playing Field: A Conference Report



Vanessa Lewis
- AERO III -

As one of the delegates for the National Conference for Women in Engineering this past year, I am fortunate to have been exposed to the various genres of diversity and workplace tactics shared throughout the conference weekend. The conference was held in Saskatoon, Saskatchewan with students attending from all over Canada.

The sessions were focused on the theme: "leveling the playing field", where I attended sessions on topics such as effective professional communication, negotiation tactics, visible vs. invisible minorities, and aboriginal engagement. The speakers for all the sessions I attended were very talented and amazing presenters. I was able to learn about aspects of diversity with respect to gender preference, sexuality, and the workplace, that I had previously never been aware of.

Over the conference weekend I met many delegates who shared their own experiences on how diversity affected their life and how they moved forward from it. The organizers also did a great job of bringing speakers who were able to further enforce the session content and had great advice to give. I was able to take away so much advice for the next years of my

education and for when I enter into the workforce, but most importantly to respect all types of diversity of my current/future peers and coworkers. It was definitely an amazing experience that I have taken a lot from.

One of the keynote speakers that I found very inspirational was Roger Garriock. He formerly worked with IBM and focused mainly in sales marketing and management as well as the company's re-invention during the 1990s. He is now the managing director of Canada Operations as he became very involved by sitting on various non-profit boards as a volunteer and now assists Desination ImaginNation Inc. after retirement. His goal is to launch this organization across Canada and he has been working with many educational leaders, senior officials, and Federal and Provincial Governments to do so. This organization is focused on teaching skills and approaches this in a diverse way for students to become the next great innovators. They offer multiple programs that are problem-based for students to become more creative and to expand their skills.

During this presentation Roger did not only focus on this organization and how it is a great program to teach young students using diverse methods, but also reflected on the path of his own children's education, their struggles, and their great achievements in school and work. Roger has two daughters who are very talented but both had to work hard to ac-

complish their goals. One of his daughters had to overcome a tremendous health hurdle and continues to do so everyday. His story not only inspired me to continue my efforts in school even when it gets overwhelming but also to appreciate how far I've come already with less odds against me than others have had. On the other hand, his second daughter has gone above and beyond the average person during their education, working her way up in the company she worked with in a considerably short amount of time. This inspired me in an entirely different way and proved that it's possible to achieve greatness regardless of gender. As long as you're determined, it doesn't matter what your gender is.

I took the most away from this speaker as it really opened my eyes to different aspects, on so many levels. Roger inspired the group on both ends of the spectrum, especially since he, as a father, watched both his children cope and experience different struggles and accomplishments.

Overall, I really enjoyed this conference and I'm extremely glad that I can come back to Carleton and share what I've learned with my peers. I think it's a type of conference that more students should experience. The topics covered on diversity are also discussed within our community, however not necessarily explained or relayed in a way the conference was able to do, which has allowed me to better appreciate it.

COLUMNS

AND YOU JUST KNOW HE SET ALL THOSE WATCHES TO VIBRATE

Raph's Record Corner



The Image of Pop

Why Justin Bieber Has a Fan-Base



Raphael "Bluebelly" Adams
- ACSE III -

This month I wanted to do something a bit different, because I'm sick of writing the same article over and over again, and you're probably sick of reading it. Only problem: I had no idea what to write about. What follows is a long-winded analysis of the current state of popular music, BS'd to completion over a peanut butter and nutella sandwich and Radiohead's "Kid A".

I know many people (hipster and non-hipster alike) who diss modern music as unimaginative, formulaic, overproduced piles of shit, and to some degree they're right. There are plenty of artists out there who can't play an instrument or carry a tune to save their lives, and I've often wondered how they made it big. Not too long ago, I figured it out: pop is less about the music and more about the image. This is not even new; it's been going on for years.

For example, take the Beatles. Four of the most fantastically talented musicians the world has ever known. Would they ever have gotten popular if they had not started out with the image they did? Songs written primarily for 15-year-old girls and a ton of promotion via cute photo shoots to make said girls go crazy over them. It worked! The attention from their target audience sparked the curiosity of others, and thus expanded their fan base enormously as people discovered the catchiness of their songs. I'm willing to bet that there were a great number of

guys who secretly liked the Beatles in their early days, before it was cool for a guy to be a Beatles fan. (I would have been one of them.)

Eventually, as many of you probably know, the overwhelming adoration led the Beatles to stop touring – it was just too stressful and the screaming fans were drowning out their concerts. They then concentrated on making records and went on to make the most complex music of their career (and in many people's opinion, the best). They only got MORE successful from there. In conclusion, you could say that the Beatles' amazing success and musical brilliance actually stemmed from their initial image as a catchy, pop-y boy band.

That's why I can't judge too harshly when modern artists, such as One Direction or Drake, use their images to sell records. I may not like One Direction's music, but they're a successful group so they're doing something right. While I personally don't understand Drake's appeal in terms of looks (go to drakesnewfriends.tumblr.com/ for some lolz), I guess some people must.

We know that the Beatles focused on an appealing image to start off their career, but they also pushed the boundaries of music as we know it. However these new artists, who also rely on their image, are all churning out the same mass-produced shit without trying anything new. The question then becomes this: why not judge them?

Here's my answer. Out of the twelve UK LP's that the Beatles released, seven of those were released while they were still touring; just over half of their albums were promoted by tours, and in some degree, by their image. If you look at pic-

tures of the Beatles up until Revolver, they all have the mop top haircuts and boyish good looks that their target audience adored. It wasn't until after deciding to stop touring that they dropped their image, grew beards, and made their most experimental music. (Of course, they had started experimenting already, but I'd argue that dropping their image gave them a whole new level of musical freedom.)

My point is that the true musicians of the modern era will eventually do the same. They'll stop trying to please their pop fans and focus on pushing music forward to make some truly great music that'll become part of history – way different from the generic pop they're doing right now. As for the stars that aren't talented, and rely ONLY on their image, will fade away just like every other celebrity. You can't deny that some big artists right now are actually talented, even if you're not a fan of their music – for example, Ariana Grande is a fantastic singer, and Taylor Swift is quite proficient both with piano and guitar. Hell even Big Sean is a skilled rapper, as mainstream-sounding as "IDFWU" is.

In many cases, it really helps to check out an artist's lesser-known songs – stuff from their albums that didn't get released as singles. Oftentimes these songs will really show an artist's true talent, since there isn't as much pressure from record labels to make them radio-friendly. That's the test: Do these lesser-known songs sound generic as well, or is there something more? If there is, then the artist might actually be a musician...so it doesn't hurt to give them a chance.

I hope that made sense.
Till next time, see ya!

SMART WATCHES CLASSIER THIS TIME



Harrison "Gingersnap" Knill
- CIVE III -

In addition to giving you the current time, you can now link your watch to your smartphone and receive all of your important notifications throughout the day such as emails, texts, phone calls etc.

These smartwatches are totally customizable as well, with plenty of skins available for download, as well as other apps, that help you create your own watch face. There has been a lot of controversy regarding the projected popularity and the usefulness of the product but many are slowly warming up to the idea of having everything at their wrist. Whether you're an iPhone or Android user, there are many options to choose from.

Pebble got this whole trend started by posting their idea to Kickstarter, and after asking for a \$100,000 goal in pledges, received an astonishing \$10,266,845. Now we have the Pebble smartwatch, a customizable watch that can track your day from cycling/running distances and speeds to weather updates and emails. Google immediately took interest in smart wear, and released an operating system of their own titled Android Wear

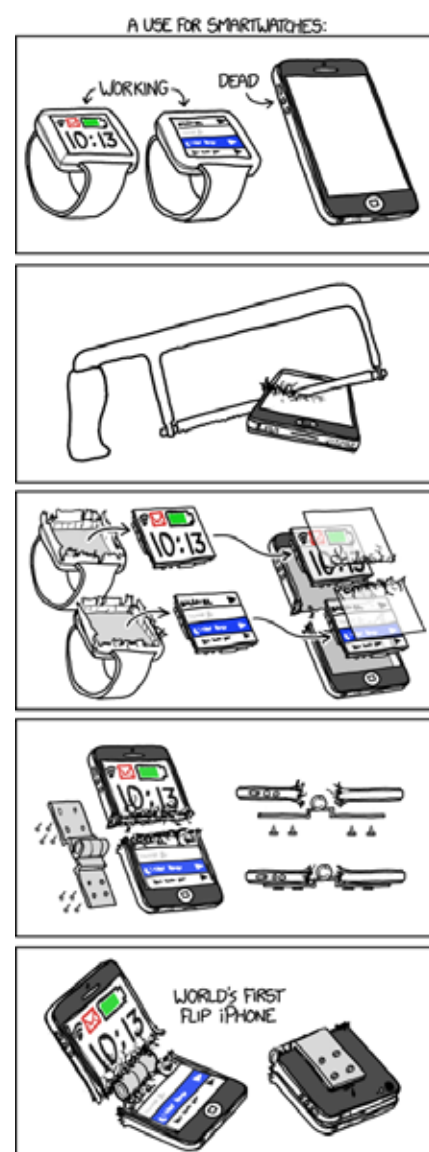
that adds a few "home-y" features for Android users. For any watch powered by Android (such as Moto 360, Samsung Gear S) you can say "OK Google" at any time and ask away, Google will spit the answer out on your wrist. Handy little bastard. Quite a few new smartwatches also have a pedometer and an optical heart rate monitor to track foot-steps and heart rate while you attempt to be athletic. The Google watches won't last as long as the Pebble will unfortunately, averaging 2 days of battery life compared to the 7-day battery life of the Pebble, thanks to its efficient e-paper screen, similarly feature in e-readers. The trade-off is the colours on-screen; Pebble gets black and white and Google gets everything in between (at a price). If you're tech savvy, the Google gear will suit you nicely.

One more cool technology used by these watches is the ingenious wireless charging method with a charging dock. This means no more frayed cables, no more fiddling to get the charger cable in the right way on the first try (never happens). Just set the watch on its dock before bed, and wake up to your fully

charged smartwatch in the morning, letting you know how cold it is outside.

"OK Google, weather."
"It's cold as balls outside in
Ottawa, Ontario."
"Thanks, Google!"

And if you're an iPhone user that really wants that Apple watch to match, don't you worry, the Apple watch is on its way! In 3 different models: watch classic (stainless steel), watch fitness (lightweight aluminum with colourful elastomer band) and watch edition (18-karat gold, polished sapphire crystal screen).



DO YOU WANT TO WRITE?

The Iron Times is always happy to accept new content from talented (or even sub-par) writers! What you write is up to you, but if creativity isn't your jam, we always have stories that need to be covered. Photojournalists welcome!

Just send all content to:
publications@cses.carleton.ca

COLUMNS

SOME ENGINEERS MY COMBUST UPON ENTRY

KNOW YOUR CITY



NOTRE DAME CATHEDRAL BASILICA



Holly Parrinello
- ARCH III -

Sitting across from the National Gallery of Canada on the corner of Sussex Drive and St Patrick Street, Notre Dame Cathedral Basilica looms over the city. The church is situated in Lowertown West, an older area of Ottawa, then Bytown, characterised by its large number of Roman Catholic buildings. The cathedral is the oldest surviving church in the city. Notre Dame is the head church of the Roman Catholic Archdiocese of Ottawa, and was formally recognized as a historic site in 1978 under Part IV of the Ontario Heritage Act. The basilica is considered both the city's and the county's most magnificent churches.

Notre Dame Cathedral Basilica was begun in 1841, built on the former site of St. Jacques Church, a wooden structure built in 1832. St. Jacques Church was the first Catholic chapel open to both Anglophones and Francophones of Bytown. Notre Dame, founded by Irish and French settlers, was one of the first cathedrals to offer mass in both English and French, continuing what St. Jacques Church started. The oldest plans for the church date back to 1839, two years before con-

struction began. When ground was broken, the shape and style was modeled after the Neoclassical St. Patrick's Church in Quebec City. This resulted in a rectangular form with an elliptical apse, a flat symmetrical facade, and round arch doors at the main entrance. The church faced many alterations throughout its construction, including the switch to a completely different style. In 1844, the switch was made to the popular Gothic Revival style. Both the windows and the vaults that had been constructed were demolished, but the walls, doors, and part of the facade were kept, reflecting the neoclassical roots. The towers with traditional French-Canadian tin cloches did not receive their 55-foot steeples until 1858. In 1853, the structure of the church was complete and in 1865, continuing in an interpretation Gothic Revival style. In 1847, before the church was finished, the church was prematurely transformed into a cathedral, and the seat of the first Bishop of Bytown, Most Reverend Joseph-Eugene-Bruno Guiges. Though the interior of the church was not yet complete, because of its historical and architectural significance Notre Dame Cathedral was elevated to the status of a basilica in 1879, an honour bestowed by the Vatican. The diocese experienced major growth under Most Reverend Thomas Duhamel, the second Bishop of Bytown, and with the appointment of artist Canon Georges Bouillon, the cathedral

was completed in 1885.

Neoclassical architecture describes style based on Greek and Roman architecture and orders. Some characteristics of the style include buildings that are generally symmetrical in both plan and elevations and of monumental proportions. The stone buildings are usually finished with a polished or smooth surface. Rounded arches are also a major feature of Neoclassical buildings. The character-defining elements that mark the early Neoclassical design of Notre-Dame Cathedral Basilica are the smooth ashlar of the facade, its basilican rectangular plan, and the symmetry of the facade. The round arches of the doorways are a major identifier of the Neoclassical roots of the church, and even the steeples of the towers, though very Gothic in ornament, are symmetrical like Neoclassical facades.

The Gothic Revival style is characterised by an asymmetrical plan and facade, towers with tall spires, and pointed arches and vaults. Gothic Revival architecture is also characterised by highly ornamented and sculptural interiors and sometimes exteriors, and stained glass, particularly telling biblical stories in churches or cathedrals. Gothic Revival style also features a tall nave with arcades and pointed arches that divide the aisles. Because Notre Dame Cathedral Basilica was founded in part by French settlers, it may reflect more of a Gothic Revival style

rooted in French Gothic, which is characterised by very tall ceilings, and an ornate rose window puncturing the facade, and large expanses of stained glass. The Gothic Revival features of Notre Dame are the high central nave flanked by a rhythm of pointed arches, pointed arch windows filled with panes of stained glass, and towers with spires. While the facade has rose windows on the towers, there is a large arched window that lets in light to the nave. The spires that top the square towers are a vernacular take on the Gothic spire, using tin instead of copper. Most notable of the Gothic Revival features is the entirety of the church's interior, fully constructed after the style switch was made.

There is no doubt that the interior of Notre Dame Cathedral Basilica is of the Gothic Revival style. The interior greatly contrasts with the smooth, symmetrical Neoclassical facade. A pointed vault ceiling, side galleries, extensive woodwork, and slender columns, all with ornate decoration, featured on the interior. Slender columns divide the nave from the aisles, which are covered with terraced galleries. Above these galleries sits a blind arcade, and above each segment of the arcade sits a high window that illuminates the nave. The sanctuary is the main focus of the interior, sitting at the end of the nave, highly adorned with decoration and its iconographic sculptural program. Created by Canadian sculptor Philippe Hebert, the sanctuary and the interior as a whole feature carved altars and 30 life-sized carved figures, and other wood sculptures. The figures include the apostles, the Virgin Mary for which the church is named, and St. Joseph, the patron saint of Canada, which are located above the altar on either side of Christ. Accompanying these figures are carved motifs executed by cabinetmaker Philippe Paireau, the most notable being the shamrock and the fleur-de-lis, symbolic of the cathedral's origins. He did much of the ornamentation that was not iconographic, and the only artist in the church to sign his work. The entry to the sanctuary is the two lateral rows of columns joining the nave's side aisles, and at this point have been erected secondary altars. The altars are of sculpted wood and covered in gold leaf and precious



stones, one dedicated to the Sacred Heart and the other to the Virgin Mary. The main altar includes five decorative reliefs that illustrate the Resurrection, the Nativity, and Christ teaching, an important character-defining element relating to the Gothic Revival style of Notre Dame in the stained glass. The first series of stained glass was installed in 1879 by the English glassmaker Horwood. The windows consist of geometric motifs with vivid colours. Most of these windows were replaced between 1956 and 1961 with 17 windows telling the mysteries of Christ's life. Arguably the most prominent of the stained glass in Notre Dame Cathedral Basilica is the large pointed window that punctures the facade. The figures painted represent St. Patrick, the Virgin Mary, St. John the Baptist, and others. The pointed arches, stained glass, carved ornamentation and the wooden sculpture truly make the interior of Notre Dame magnificent, and exemplify the Gothic Revival style.

In 1999, Notre Dame Cathedral Basilica underwent a yearlong restoration project, with the intention to restore, preserve, and maintain the existing materials and life of the building. Studies done on the church showed the deterioration of walls and other parts of the church, which prompted a \$10 million restoration done by Edward J Cuhaci and Associates. The structure was stabilized and much of the interior work was renewed, but none of the character-defining elements were altered, and were restored to internationally recognized heritage standards. The old tin finish of the steeples was replaced with stainless steel, as well as

the cornices at the entrances. Critical masonry repairs were made to reverse the deterioration of the walls, and some buttresses were rebuilt, and all the masonry was stabilized, as well as the wood structure. Seismic reinforcement was also added to the structure. The wood windows were refurbished and reglazed, and the stained glass windows were repaired based on individual assessment. On the interior, the original ceiling colour and the gold leaf were restored, and layers of varnish that had yellowed over time on the columns were removed. All of the wood and plaster on the interior was stabilized and restored, and the vaulted ceiling was repaired. All of the wood and plaster sculptures of the sanctuary were removed, repaired if need be, cleaned, and returned to their original positions. The mechanical and electrical systems were upgraded, such as the sprinkler systems full electrical, and the building was upgraded to the accessibility standards of the building code.

Notre Dame Cathedral Basilica is a truly unique church, with roots in Neoclassical characteristics and the Gothic Revival style. As the head church of the Roman Catholic Archdiocese of Ottawa, Notre Dame's primary goal is to serve its parish. After the 1999 restoration, the church was brought back to original glory with its masonry exterior and beautifully ornamented interior. As a historic site, and a pristine example of the Gothic Revival style, the Notre Dame Cathedral Basilica will continue to be one of the most magnificent churches in the city and the country.

COLUMNS

PLEASE DON'T ACTUALLY STUFF WITH FIBREGLASS. YOU MAY FEEL A TINGLING SENSATION.



RETRO REVIEW



Don Jackson
- CIVE II -

BRACE YOURSELVES!!!
The moment has come, that frightfully fear filled February of feelings. The constant holding of hands, the sickeningly sweet terms of endearment, tear filled tissues, and endless chocolate bonbon after chocolate bonbon. But don't worry ladies, your man will soon be back to his normal beer swilling, wing eating belly scratching self. So in the meantime to help you survive, here are some movies that may save you from another showing of Titanic.

Flakes released in 2007 (I know, not very retro), is an interesting love comedy starring Zoey Deschanel, Aaron Stanford and Christopher Lloyd focuses on an aspiring musician hiding from the fear of striking out on his own until challenged to do so by his girlfriend. What is so interesting about the movie? It takes place in a speciality store/restaurant that has the unique niche market of buying and selling of classic breakfast cereals. The most memorable quote from this film (and quite possible movie history) comes from Ashton when he remarks, "Having an I.Q. of 300 is kind of like having a twenty-inch dick. I mean it's real impressive, but when you get down to it there's not a whole lot you can actually use."

Now William Shakespeare may have brought us the concept of star-crossed lovers, but what about lovers that crossed the stars? In Earth Girls are Easy (1988), on the cusp of a failed engagement/break up

Valerie (played by Geena Davis) finds her true love the 1.94m tall smooth talking Mac (played by Jeff Goldblum); oh, and he is covered in blue fur. The movie has an interesting cast with Jim Carrey and Damon Wayans, and plays to the self centered, pleasure seeking California life style of the 80's. The film is filled with clichés and situational comedy, but honestly the funniest part is a musical number starring Julie Brown singing "Cause I'm a blonde". Why is the song so funny well one line goes "I took an IQ test and I flunked it, of course/ I can't spell VW, but I got a Porsche."

Perhaps our next film has some outer space phenomenon to explain it, but our intrepid hero never leaves the space that is Punxsutawney. So what does one do when you find yourself repeating the same day over and over in an endless loop? You discover who you are and spend the rest of time trying to win over the girl. Groundhog Day released in 1993, finds Phil our tormented time trapped weatherman (played by Bill Murray) in exactly that situation. Proof that repetition makes perfect. Phil is taken from a self-centred sarcastic individual, pushed until he breaks than reinvented as a loveable individual as he himself discovers a new love of life. Groundhog Day provides the audience with an interesting lesson on taking life too seriously, with examples simply too funny. After kidnapping the groundhog Punxsutawney Phil and driving way in a stolen truck with the groundhog at the wheel, Phil (the weatherman not the groundhog) remarks, "Don't drive angry. Don't drive angry." Possibly the most tormenting thing Phil experiences is waking up every morning to Sonny and Cher singing I've Got You Baby.

Our next selection is truly a classic timeless tale suitable

for all ages, The Princess Bride (1987). The movie has everything from pirates, sword fights, to monsters and magic. If you haven't seen it yet the question is "Why not" and if you have seen it the question is "Why not see it again." As with true classics, this film is filled to the brim with quotable quotes;

(After Vizzini says inconceivable for the umpteenth time)

Inigo Montoya: You keep using that word. I do not think it means what you think it means.

(Vizzini bragging about his smarts)

Vizzini: Let me put it this way. Have you ever heard of Plato, Aristotle, Socrates?

Man in Black: Yes.

Vizzini: Morons.

This month I will end with two special mentions worth watching. First special mention goes to the movie When Harry Met Sally (1989) two long-time friends that spend the film bantering about the difficulties of relationships. This movie was made famous for one single scene where Sally Albright (played by Meg Ryan) fakes a very vocal orgasm in the middle of the restaurant leaving everyone speechless save for one lady at the counter who says to the waiter, "I'll have what she's having." The final special mention goes to a recent movie released in 2010, Scott Pilgrim vs. the World. Notorious for jumping between relationships, having just been dumped and currently dating a girl five years his younger our hero Scott falls for a mysterious new girl. While still fresh, this movie has the making of a long time classic. What makes the film a guilty pleasure to watch is its geek level, with a tip of the hat to classic video games, foreign films, and comic books at every turn.

Penis Be My Valentine?



Zoe Crowston
- ACSE III -

THINGS YOU WILL NEED



YARN



SCISSORS



PLASTIC
NEEDLE



CROCHET
NEEDLE



STUFFING

February is the month of love (and groundhog day). I've come up with a craft that is great if you're single or in a relationship. Give yourself a lovely woolen toy for the lonely valentine night leading into reading week (or watching House of Cards if politics gets you off). Or spice up your relationship. I don't really care, I thought a crocheted penis would be hilarious...

- 1) Magic Circle 6 sc. (if you don't know how to make a magic circle, YouTube is great for that)
- 2) 2 sc into each sc of the round (12)
- 3) *2 sc into 1 sc, sc* (18)
- 4) Sc all around (18)
- 5) Add some stuffing to the tip
- 6) *2 sc into 1 sc, 2sc* (24)
- 7) Sc all around for 3 rounds (24)
- 8) 1 sc into 2sc to decrease (12)
- 9) Sc for as many rounds to get the length you want
- 10) More stuffing
- 11) 1 sc into 2sc to decrease (6)
- 12) With the plastic needle, weave the ends in.
- 13) For the balls (make 2), magic circle 6sc
- 14) 2 sc into each sc of the round (12)
- 15) *2 sc into 1 sc, sc* (18)
- 16) Stuff it
- 17) Sc all around (18)
- 18) 1 sc into 2sc to decrease (12)
- 19) 1 sc into 2sc to decrease (6)
- 20) Weave together, weave the balls to the bottom of the shaft and weave in the extra yarn in
- 21) Have fun?

PLEASE CONSIDER ME AS AN ALTERNATIVE TO SUICIDE.

COLUMNS

REBECCA FORGOT FEB 15TH: SWEEP UP THE SHARDS OF ROMANCE DAY

What's so Good about Love, Anyway?

A February Survival Guide



Rebecca Feddema
- ACSE II -

So as I'm sure you all know, February can be a particularly depressing month of the year, at least if you're a single university student like me. First, there's Valentine's Day, or as I see it, Singles Awareness Day, because if there's one day a year that people can easily draw the conclusion that you don't have a love life, this is that day. A day where couples rub the fact that they are so happy and in love in everyone's faces while

us singles sit counting down the hours until all the holiday chocolates go on sale. Talk about disheartening. Then, as if that wasn't bad enough, two measly days later is Family Day. Now, don't get me wrong, I love my family and I was quite impressed back in 2008 when we got a free day off of school, but I don't really see the benefit now. Sure, there's no classes, but the university is smushing family day in with the winter reading week so we're not gaining any more days off. Also, if you're a poor student like me, you don't have the budget or time to travel back home for reading week. So you're stuck where you are, with no relatives, no home cooked meals, and most of your friends leaving to go

spend quality time with their families. Oh, and I almost forgot, everything is grey and cold and wet and miserable to top it all off. Basically, to sum it up, the perfect recipe for Seasonal Affective Disorder (SAD, it's a thing, look it up).

So with this in mind I motion that we all start celebrating some of the quirkier holidays in February. We don't need family or loved ones around to enjoy February! Spend fifteen minutes on the internet and you can find some awesomely strange holidays in February that deserve to be celebrated. Here are some suggestions to get you going, and an easy search on Google will supply you with at least a month's worth of holidays.

FEB
2



Groundhog Day, February 2nd. You can watch the Bill Murray movie and pile all your hopes of an early spring on the shoulders of an oddly named rodent. Come on Wiarton Wille, we're all counting on you! Plus, when you go to school at Carleton you develop a stronger appreciation for the little critters who litter our campus. If they can survive winter term, so can we.

FEB
7



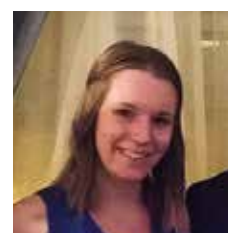
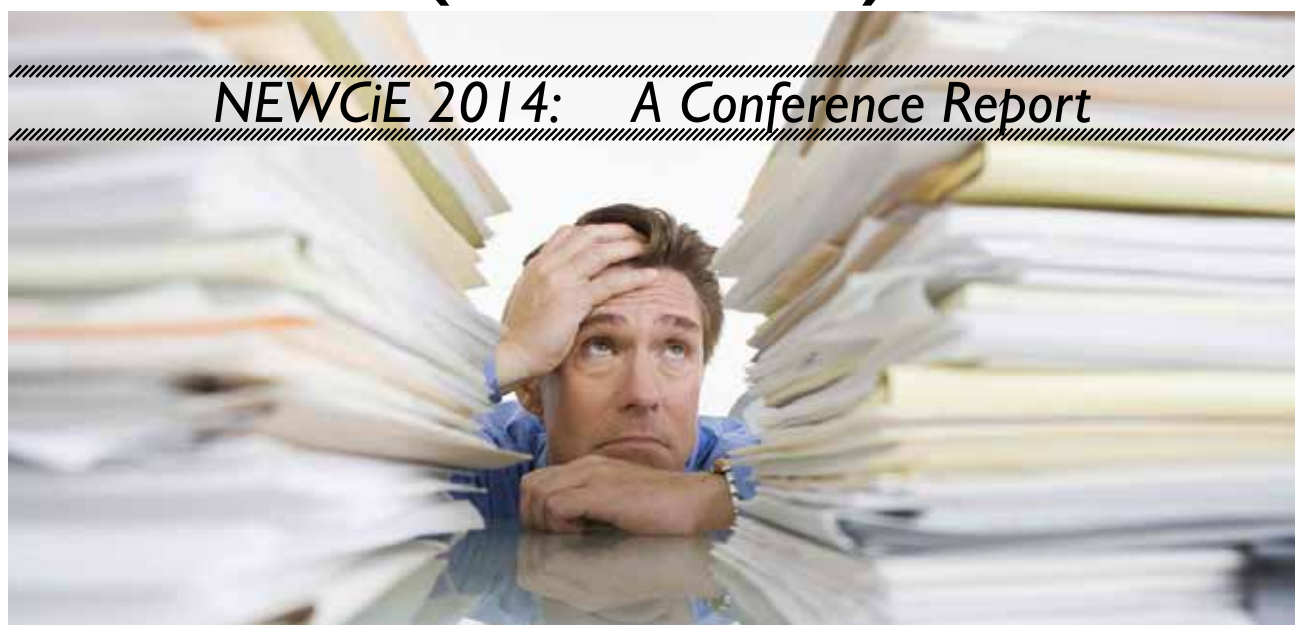
Eat Ice-cream for Breakfast day! February 7th, or the first Saturday in February. Sounds legit. Apparently some mom created the day to lift the spirit of her kids back in the 1960s, and isn't that what we are all looking for in winter, a little pick me up. Anyway, you might as well try it, a little morning brain freeze could be just what you need to wake up.

FEB
13



Finally, there's Friday the 13th a lovely and rare occasion to begin believing in superstitions. You could even use it in your favour, for example: "Sorry prof, I can't come to the lab on Friday, I stepped on a crack and saw a black cat and broke my mirror this morning. I wish there was some way but it's just impossible." Also, one website insists that the first Friday the 13th of the year is "Blame Someone Else day" where you are allowed to get away with almost anything by blaming someone else, so how can you say no to that? Or, you know, you could just binge on some horror movies, whatever floats your boat.

COOP 1000 WAS (MOSTLY) A LIE



Kelsey Doerksen
- AERO III -

During this workshop I found that a lot of the tips given were very different to those I learned in COOP 1000 and were very useful to helping me improve my already existing resume. I have broken down into the topics covered the tips and tricks for building a successful resume that is the first step to getting the job.

Communication

There are three components to any communication situation that one must identify in order to be successful:

1. **The Problem** – i.e. the employer's problem

2. **Audience** – you need to find out as much as you can about the audience, i.e. the place of employment you are applying to – go to their website, go to job fairs, meet people in the industry. Rely on your own instincts and think about who is going to be reading the resume – who they are, what they need, do they have time to read all of the things I put on my resume? Some employers use computers to identify key words and won't look at your resume unless those words are found via computer software, so it is your job as the applicant to make sure the most relevant and important information is on your resume.

3. **Constraints** – You do not want your resume and cover letter to be too long or too short. Think about time, specifically your employer's time, they cannot read each resume they receive carefully.

Format

The formatting of a resume is very important – if it doesn't look good, the employer will not want to read it. Resumes must be brief, eye catching, have a good effective use of white space, need to have a border, and of course, DO NOT change your font to be as small as possible to fit more information in – your resume must be readable!

If this isn't already obvious – your resume must be truthful. Not only because it is the ethical thing to do – but employers will test you on what you have written on your resume – you must be able to fully explain any questions employers will have about your resume!

Try your best to make your resume stand out!

Reading a Job Ad

Properly reading a job ad is crucial to be able to build your resume according to that specific job. You absolutely should not send the same resume for different jobs – have different versions of your resume according to the job description and requirements.

A job ad will contain key words about the company that you may want to include in your cover letter. An example that was used during the work-

shop was the following:

"Cargill is a unique place to grow your career, your experience and your abilities. Every day, we grow our reputation as a leading international producer of food, agricultural, financial and industrial products and services. We take pride in our global reach, ability to contribute, and strong work ethics and values. Founded in 1865, Cargill is a privately held company and employs 139,000 people in 65 countries. Through innovation, creativity, and teamwork, we are transforming entire markets and people's lives worldwide, and we can have the same impact on your career."

Reading this example, you could extract the following:

- > How are you a leader?
- > What is your ability to contribute, do you possess strong work ethic and values?
- > Are you innovative? How?

Keywords

As previously talked about – employers are looking for keywords. This includes keywords to use AND avoid. A brief list was talked about for each case. Avoid: risk-taking, creativity, strategic planning. Use: teamwork, problem-solving, verbal communication, analytical skills, strong work ethic

Resume Tips Summary

The following is a summary of the tips talked about during the workshop that will be helpful in creating the best possible resume.

Resumes should be a kind of biographical summary of yourself and should be a way

COLUMNS

ALLAN WAS MADE TO BE A RES FELLOW

COOP 1000 (Cont.)

to establish a professional relationship. They are designed to get an interview – and it is important to remember that they are never read in isolation – you may be 1 of 100 applicants to this job so make sure your resume is memorable. This means that using templates should be avoided – the more similar you sound to other people the less you will stand out.

Resumes ...

- > Need to balance what is recent and relevant
- > Must have strong visual appeal
- > Relevance over chronological
- > targeted and analytical
- > Must be easily “scannable” for key info; bolding, indentation, bullet points
- > Must include evidence for your claims

An example resume was discussed and points were given on what was important and should be included and what should be excluded:

- > High school is no longer important
- > More interested in the program you are in than the school
- > If you have mediocre marks, don't include – only include marks if outstanding or specifically asked for by the employer
- > Draw attention to your successes
- > Use words on resume from the job ad
- > Can separate skills any way that you want
- > Any effective communication thinks about the audiences needs
- > Don't count out your own experiences
- > Employers love the word “prioritizes”
- > Include your positions in professional students' society
- > Include references if asked and take them with you to the job interview – your references should be professional who can comment on your work ethic; employer, coach, professor etc. It needs to be someone that has actually seen you work

Cover Letters

The cover letter will be the first thing that the employer reads. It should provide evidence for your claims made within your resume. This includes using stories and specific descriptions of

past experiences. This is also an opportunity to demonstrate how your skills and experiences has prepared you for this job.

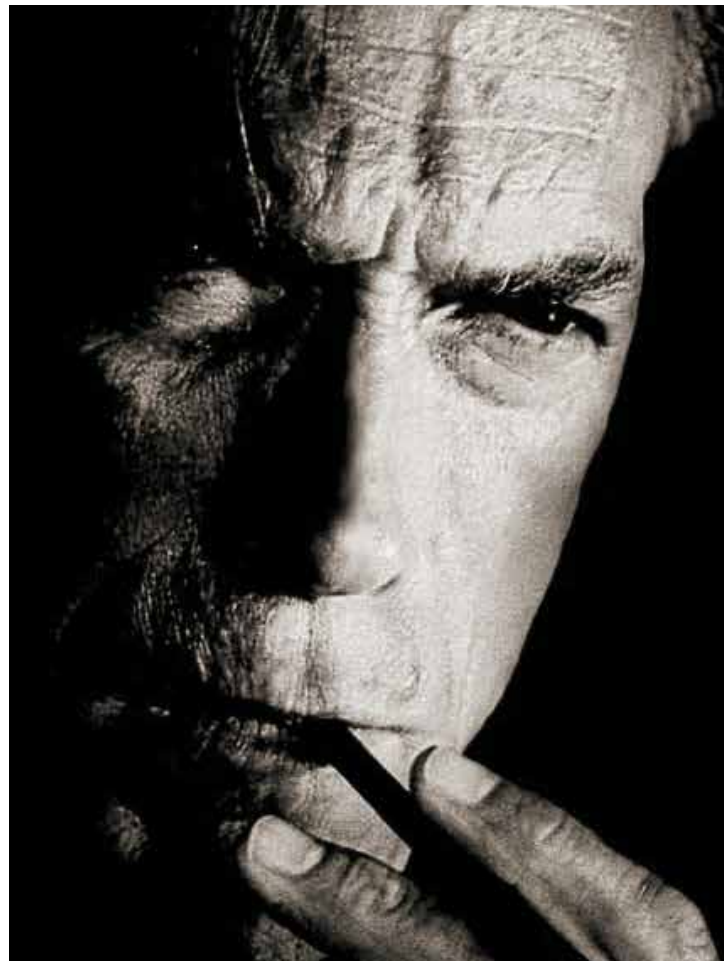
It is especially important in a cover letter to demonstrate an understanding of the company and how your contributions could benefit them – i.e. how you're the “solution” to their “problem”. This can be done by showing you have reflected on this position, and crafting your cover letter and resume to the specific job.

Using a strong opening statement is an effective way to immediately catch the employers' attention. The first sentence should provide a survey of your key statements and should immediately set you apart from others. Your cover letter should be a way to highlight specific skills and experiences that you have that are required for the position you are applying for.

One thing that was especially noted in this workshop was: don't say “please find attached...” as first sentence, and to avoid self-centred sentences – “I believe I...”.

Editing and proofreading your cover letter is crucial. Spelling and grammar must be perfect or you will not be seeing an interview. A cover letter can be seen as a way to showcase your writing skills to employers and may be the only personal introduction you have with them. You should avoid using superlatives – i.e. “I'm the best candidate because” and generic objectives – i.e. “this summer I am looking forward to applying my skills to the oil and gas sector”. Oddly enough –these things were not discussed in COOP 1000 – or they were encouraged!

me, the resume and cover letter building workshop was extremely helpful to re-vamp my existing resume. I learned a lot about what employers are looking for and was very shocked to learn about so many contradicting things to COOP 1000. Being able to refer back to the things I learned in the workshop will always be useful to me and I feel that this will help me to cater my resume to the different jobs I will be applying to.



LOOK AT ALL THESE GOD DAMNED YOUTHS



Allan “Bass” Bassi
- AERO III -

Look at all these goddamn youths, or: How I'm trying to avoid becoming the jaded, asshole upper-year that I loathed when I was new to Carleton

You're standing there at a party I'm at. You are talking to someone, beer in hand, but I say nothing. You're not aware that I'm watching you – hating you more and more every second – but I am. You're rambling about some inane joke you thought up five minutes ago waiting for the keg. I'm sipping my Grower's cider, and finding some comfort in the idea that every breath you draw in is one more closer to your last.

Holy shit, how did I become this? It wasn't that long ago that I was carrying my clean laundry up from the Glengarry basement, thinking of which outfit I could wear to the FSK that night so I'd fit in and make friends. I remember the devastating blow to my self-esteem when some higher-than-thou fourth-year took out their frustration on my Hawaiian shirt.

And yet here you are, wearing a fucking fedora like you're recovering an Aztec idol from a temple. Oh, what does your crew-necked shirt say? “Keep Calm, I'm An Engineer”. Oh, are you, you little shit? You get a B- in ECOR 1010 and

suddenly you're a regular Werner Von Braun, eh? The closest you're getting to the moon is the craters on your nose, you little Spectrogeel scrub.

Jesus Rollerskating Christ, what changed in my life to make me forget the respect I felt for the older students around me – regardless of their indifference to me. Adjusting to university life is difficult, and then engineering classes happen. You know you came here to learn how to get a job, but every course seems to be unrelated, unrealistic, and uninteresting. In first year, I recall giving a friendly smile to one of my Frosh Heads on the bus to Yuk Yuks II. They turned away awkwardly, and I swore I'd never make the unspoken promise of mentorship that being a Head implies, only to turn away when the contract ended. I hope my Frosh feel they can testify.

But now you're starting to wobble, not quite knowing how to hold your beer, and I can tell you're getting pretty uncomfortable. Oh man, don't go back to the keg – shit bud, you're done. The wiseguys manning the booze dispenser think your drunkenness is pretty funny, and they're not wrong.

You need to learn how to drink, padawan.

I remember cracking one – or six – too many Bud Lights at one of my first year bonanzas. You're the man of the hour... until you're not, then you're just an idiot moistening the floor with each Dexterity point lost. At this point, the apathetic upper-years can start to shift their attention to you for the worse, with every “Ohhh, Party Foul!” and “Yo, you good buddy?” making you a little more aware that you're in too deep. All it took was a single experienced person to take me aside and say “Hey man, you should probably have some water” to stop a bad time from becoming a bad call-sign.

I think about that upper-year buddy as I watch you stumble to the bathroom. Respect for that, not everybody realizes they're gonna buck until it's already on the floor. I don't shout about the froshie who's yacking, I don't draw attention to your problem, but I go to the kitchen and grab a glass of water. You're pretty rough by the time I reach you, but better in than out, amirite? You apologize profusely – like that'll make you're projectile lunch

smell any better – but it's really no big deal. You'll make it back to Lennox and Addington, even if I have to bus there with you, and don't worry, I won't let you forget your phone.

Tomorrow I'll still be pissed off that my AERO 3002 concept sketches are shit, I don't have a co-op interview yet, and my housemates aren't renewing my lease (requiring me to spend precious time on house-hunting). Tomorrow you'll wake up at 1:00pm with a minor hangover, six text messages from your mom, and not a care in the world. I'll go back to stressing about my design projects, resume, girlfriend, rent money, hairline, and beer gut, and you'll go back to jerking off when your podmates leave and playing League of Legends when you should be studying for ECOR 1101.

So when I see you next year, watching the first-years be drunk assholes while we sip our cider unimpressed, maybe we'll share a knowing nod and shoot the shit for a bit. Until then, enjoy yourself while the workload is light, and know that I'll take care of you if you're tripping balls. Dumbass.

DO YOU WANT TO WRITE?

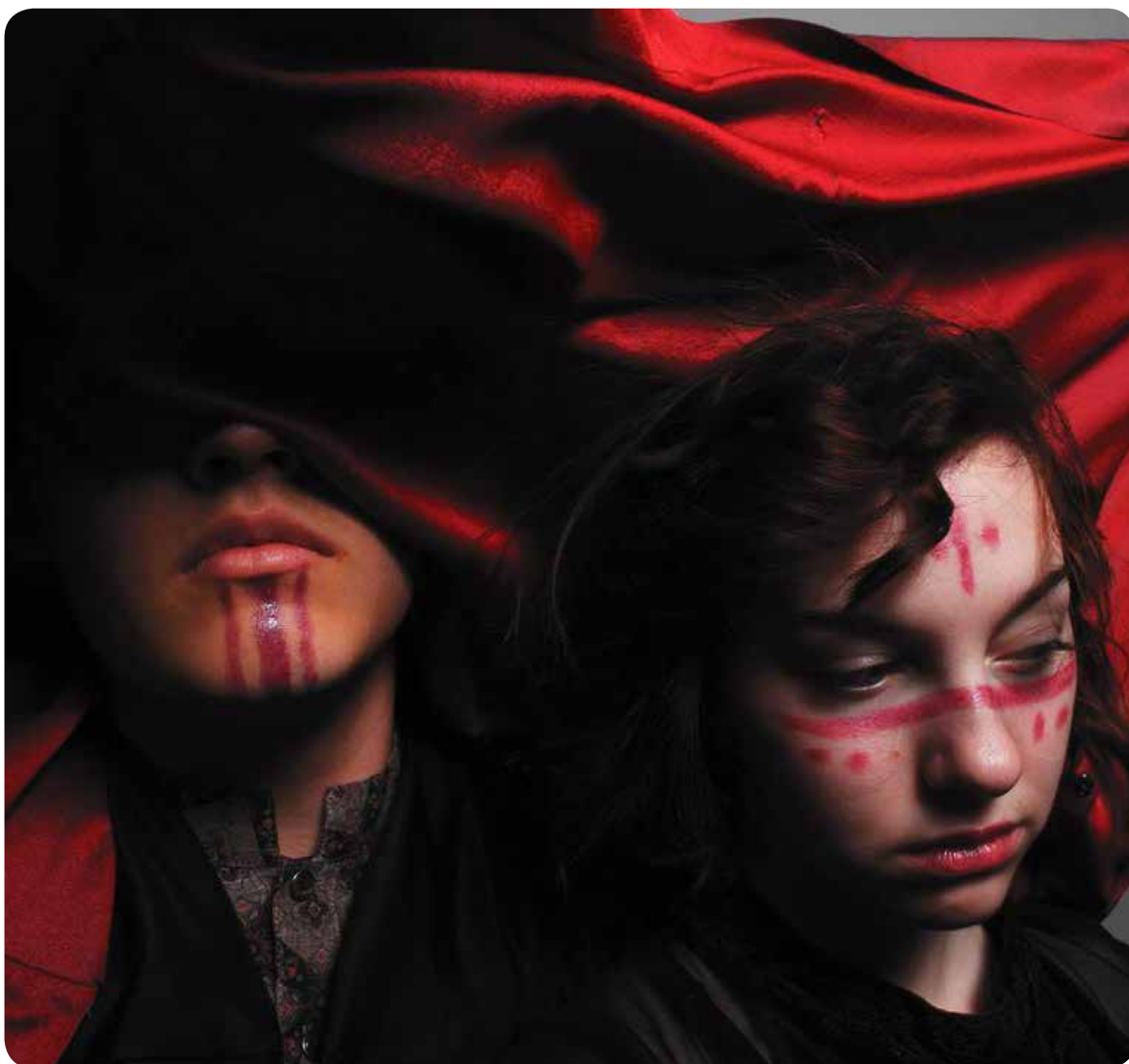
The Iron Times is always happy to accept new content from talented (or even sub-par) writers! What you write is up to you, but if creativity isn't your jam, we always have stories that need to be covered. Photojournalists welcome!

Just send all content to:

publications@cses.carleton.ca

GALLERY

HEADS DAY BRING OUT THE MADMAN IN ALL OF US



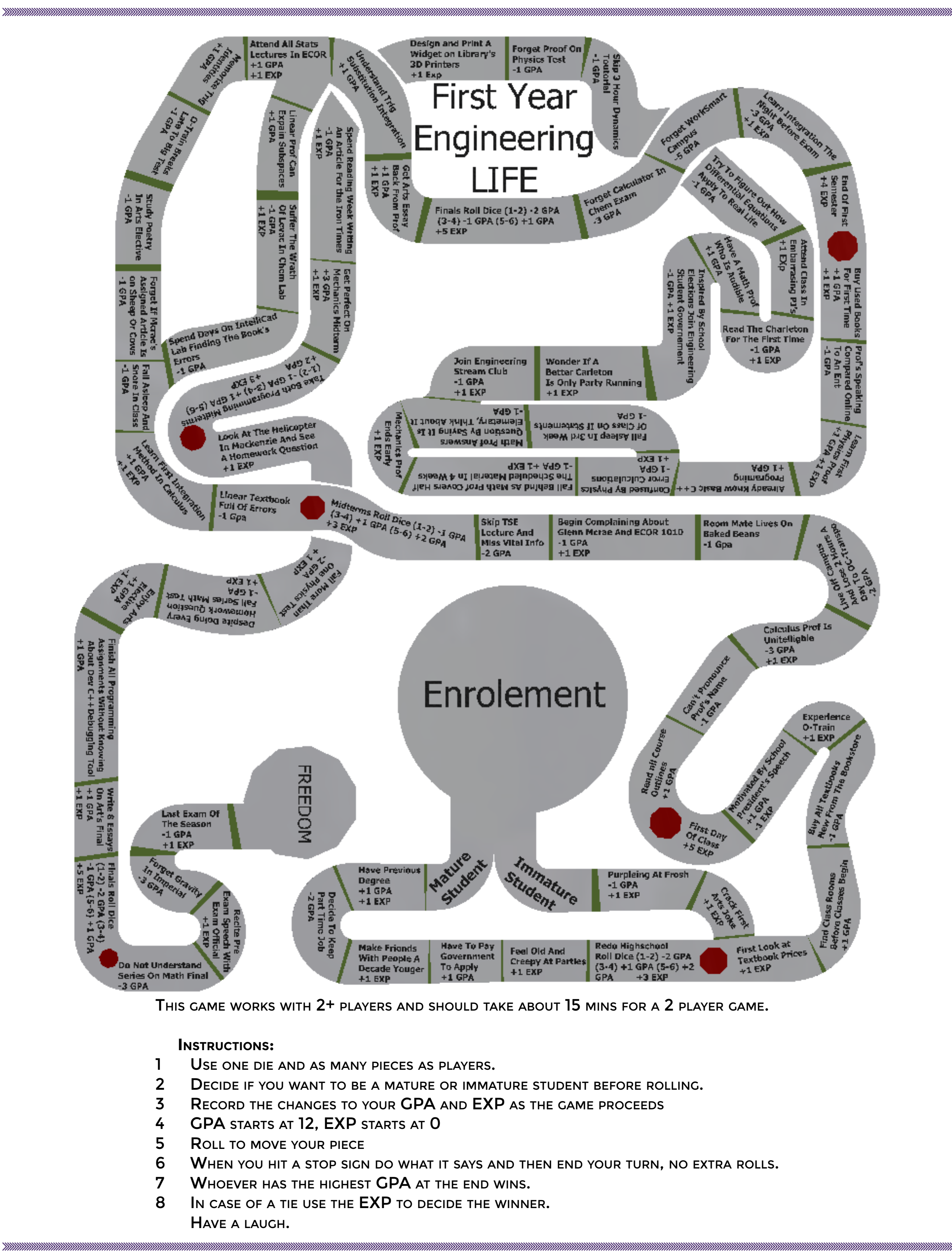
GALLERY



JAKE: THE SWAGGER IS STRONG WITH THAT ONE



GIVEN THE CHOICE BETWEEN THE 5, I'D DO THE CHICKEN NUGGETS



THIS GAME WORKS WITH 2+ PLAYERS AND SHOULD TAKE ABOUT 15 MINS FOR A 2 PLAYER GAME.

INSTRUCTIONS:

- 1 USE ONE DIE AND AS MANY PIECES AS PLAYERS.
 - 2 DECIDE IF YOU WANT TO BE A MATURE OR IMMATURE STUDENT BEFORE ROLLING.
 - 3 RECORD THE CHANGES TO YOUR **GPA** AND **EXP** AS THE GAME PROCEEDS
 - 4 **GPA** STARTS AT 12, **EXP** STARTS AT 0
 - 5 ROLL TO MOVE YOUR PIECE
 - 6 WHEN YOU HIT A STOP SIGN DO WHAT IT SAYS AND THEN END YOUR TURN, NO EXTRA ROLLS.
 - 7 WHOEVER HAS THE HIGHEST **GPA** AT THE END WINS.
 - 8 IN CASE OF A TIE USE THE **EXP** TO DECIDE THE WINNER.
- HAVE A LAUGH.



Lucas Brewster
- AERO II -
Co-Chair



Julia Dalphy
- ACSE III -
VP Academic



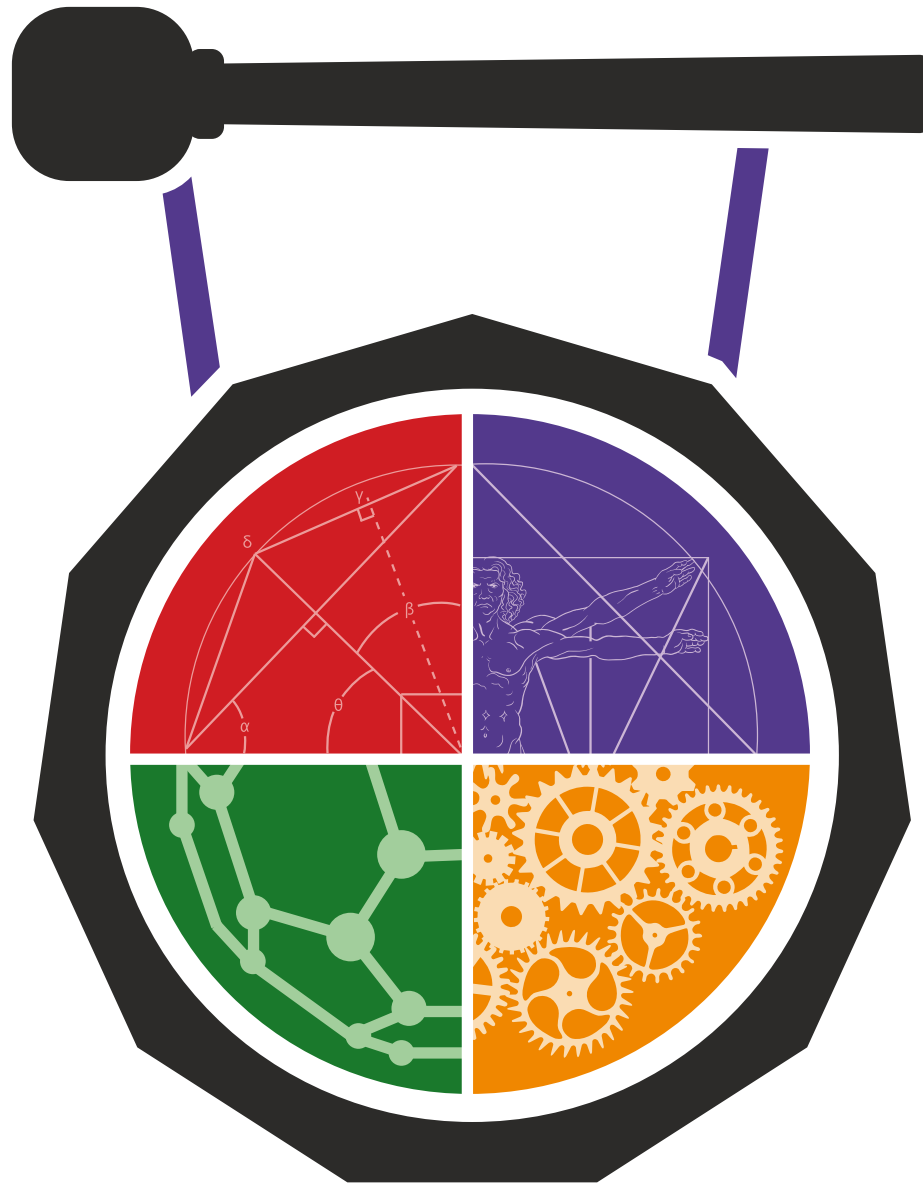
Michelle Davis
- AERO III -
Branding



Donny Jackson
- CIVE II -
Rube Goldberg Machine



Jonah Trever-Deutsch
- COMP III -
Outreach



NEW

NATIONAL ENGINEERING WEEK

The one week **we've** been waiting for is quickly approaching! NEW! NEW! NEW! NEW! NEW! No we're not counting down to the start of summer like in High School Musical 2, but you can bet we are definitely counting down towards this years National Engineering Week, running from March 9th to 14th. With NEW coming up we're excited to announce who's been working this entire year, featured in the surrounding ring, for the one week we hope will be a stepping stone to a new tradition.

One big goal moving forward with National Engineering Week, is to make it a national event, involving as many schools as possible. With this, it will be our goal to spread as much Engineering spirit and pride as we can all across the country. We have some ideas in mind to help make this idea a reality, but we would love to hear from you! Are you a part of a team that travels to Engineering Competitions or Events? Let us know, and we would love to try and set you up with some awesome NEW swag. Stop us in the halls, or shoot us an email, we would love to hear from you!

Things to keep an eye out for:

- Swag designs are being finalized and fancy fashion accessories are on their way.
- Volunteer Opportunities! Final tweaks to the schedule are being made, and plenty of volunteers are going to be needed to help run events, and make this year's NEW and event to remember. If you are interested, feel free to shoot us an email at: newchair@cses.carleton.ca or keep an eye out for Facebook events and postings.
- Like our Facebook Page, Carleton University NEW, or follow us on Twitter @CarletonNEW
- Stay tuned for a finalized schedule to be released shortly!



Donovan Martin
- ACSE II -
Co-Chair



Amanda Hebert
- BMED II -
Promotions



Quin Martin
- ACSE II -
K'NEX



Calla McClelland
- ELEC III -
Showcase



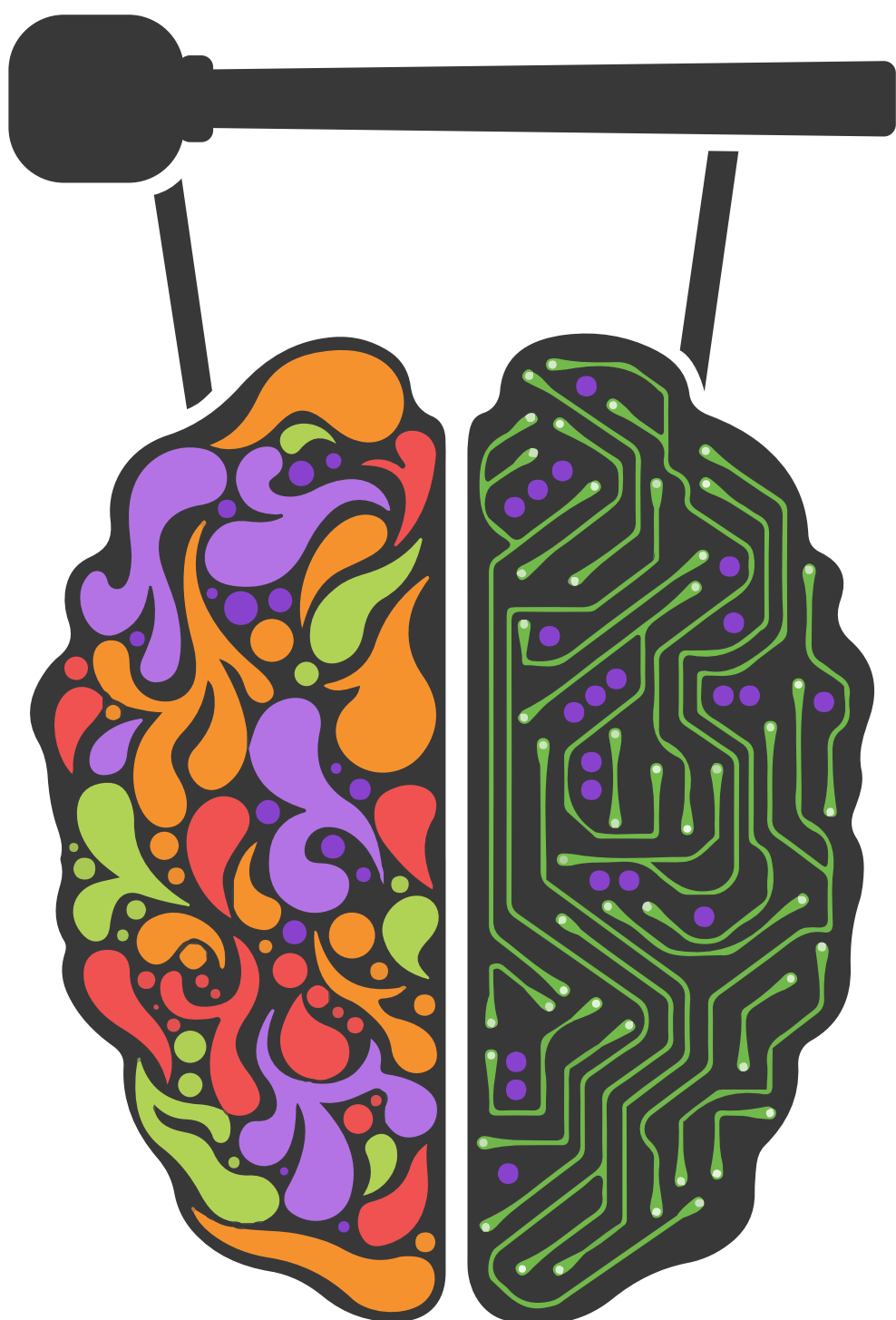
Ben Vine
- ELEC I -
Spirit



Zameer Masjedee
- COMP III -
Outreach



Kelsey Doerksen
- AERO III -
Spirit



FEBRUARY FEEL GOOD WEEK

THE SCHEDULE

TIME/DATE	Monday 9 th	Tuesday 10 th	Wednesday 11 th	Thursday 12 th	Friday 13 th			
WEEK LONG	Food and monetary donations (CSES - 2090 Minto & Leo's Lounge - ME 3342)							
DAY LONG	Bubble Wrap Popping	Candy Distribution	Power to the Purple	Stress Ball Distribution	Live Tweet Chat #FFGW			
MORNING	Nomnominations A Bake Sale! (CSES)	CSS, UC, TB	Massage Therapy (UC Atrium)	Carleton Counselling Services (MF)	Engineering Support (MF)	CSS, UC, TB	Yoga Sessions (UC Atrium)	V-Day Pub (Ollie's)
AFTERNOON		MC, ME, AA		The Royal Ottawa (MF)	Canadian Mental Health Association (MF)	MC, ME, AA		
		SA, LA, T		Do It For Daron	Student Alliance for Mental Health	SA, LA, T		
EVENING	Speakers Series (CB 2104)	Yuk Yuk's Comedy Night	Trivia (Ollie's)	Patch/Swag Auction (MC 2000)				

Week Long Events

Monetary Donations

All cash contributions will be donated at the end of the week to the Royal Ottawa Mental Health Foundation.

Food Donations

Non-perishable items will be donated to Carleton's own CUSA Food Centre.

Monday, February 9th

Nomnominations - CSES Office (MC 2090)

Last year, some wonderful engineering students started the trend of "Nomnominations" to oppose the negativity associated with "Neknominations". We will continue this tradition by having a bake sale! Make sure to stop by CSES for some deliciously engineered treats.

Speakers Series

Fellow students, faculty and representatives from other organizations will share their stories about struggling with mental health, and how they managed to overcome and persevere.

Tuesday, February 10th

Candy Distribution - Campus

Enjoy complimentary candies and chocolate goodies, on CSES!

Massage Therapy

We will have registered massage therapists set up for you to take full advantage of! Sign up in CSES for a 15-minute massage from a pro.

Yuk Yuks Comedy Night - Off Campus

Come on out to Yuk Yuks on Elgin Street to enjoy a night brought to you by superior comedians from across the country. Note that this event costs \$7.00.

Wednesday, February 11th

CSES Bubble Wrap Pop - Minto Foyer

Stop by the Minto Foyer and release some anger and stress by stomping on bubble wrap.

Ring the Gong! - Minto Foyer

Stop by the Minto Foyer to ring the coveted gong

of CSES. Each ring will be \$1 with proceeds going to charity!

Mental Health Resources Info Booths - Minto Foyer

Services from across the city and campus will have booths set up so you can ask information about their services in a casual setting.

Trivia Night - Ollies

We have the entire back room booked, so come join us and the Ottawa Trivia League for brain-boggling questions and put those neurons to work! Prizes will be awarded to the top three teams.

Thursday, February 12th

Yoga Workshop - UC Atrium

Run entirely by one of our own Carleton Ravens' yoga instructors, this is the perfect way to start off your week! Come relax and learn basic yoga that you can practice every day to help live a stress-free life.

Flightsuit Patch & Swag Auction

Looking for a cool new patch to your collection for when you earn those

beautiful coveralls? Or are you looking for something quirky to add to your collection of already quirky things? If so, this event is for you! All items will be donated by students and the money raised from the auction will be donated.

Friday, February 13th

Live Tweet Chat #FFGW - Online

We are going to attempt to recreate #BellLetsTalk and raise awareness for mental health through one of the largest networks available to us: Twitter! Use the hashtag #FFGW and share your personal stories or experiences with us. We also encourage students to ask any questions they may have so that Health Services can answer them.

V-Day Pub - Oliver's Pub

Come hang out in Ollie's with other fellow engineers to celebrate the gushiest day of the year. Free roses will be supplied to all!

THE LEGEND

- Day or Week Long Event
- Workshops
- Speaker
- Item Distribution
- Kiosk
- Social Event
- Off-Campus Event

- AA - Architecture Building
CB - Canal Building
CSS - CUSA Student Centres
LA - Loeb Building
MC - Minto CASE
ME - Mackenzie Building
MF - Minto Foyer
SA - Southam Hall
T - Tunels
TB - Tory Building
UC - University Centre

HOW TO HOUSE TRAIN YOUR CONSTRUCTION WORKER

"Qubit"

- AERO -

"Screech"

- CIVE -

Are you stuck with someone who tracks mud into your house all week? Does it always sound like you live in a trailer park when you're at home? Tired of seeing boots worn to every single event? Tired of watching them eat cold alphaggetti out of the can with a knife? If these sound like every day problems, you may just be living with a construction worker. While we may not be able to fix the problem, here are some typical sayings which may help transform your construction worker into a tolerable human being:

- Carhartts and clean work boots is not dressing up.
- Being able to tell the original colour of the floor does not mean it is clean.
- Your sheets need to be cleaned.
- Extra deodorant does not count as a shower substitute...
- Nor does getting your hair wet in the laundry room sink.
- The floor of the car is not a garbage can.
- 'It's best before, not rotten after' is not valid when the meat is green.
- Mud does not make your car look better.
- You can buy clothes at stores other than Mark's.
- You can't get out of shoveling at home because 'it would start a labour dispute'.
- Canadian Tire is not a proper clothing retailer.
- 'Just taping it back together' is not fixing it.
- There are no admins at home to do your paperwork.
- Every time you leave the house you don't have to do a Timmies run.
- Just because it's 5 P.M. doesn't mean you're done for the day.
- My yoga mat is not a boot mat.
- Saying it's on the Punch List doesn't make it go away.
- Just because no one's watching, doesn't mean you can just sit around and do nothing.
- Labour rules don't apply to house work.





CARLETON STUDENT ENGINEERING SOCIETY



Alexander's Office
2090 Minto Case



www.cses.carleton.ca



/MyCSES



@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
Nicholas Dumoulin

"I'm proud to announce a couple of things, first being that CSES has officially met the requirements to be a corporation under the new NPO Act. I have also been personally very busy with coordinating our financial review engagement which is a new legal obligation but also a way for CSES to improve our financial procedures. Lastly are our student groups, we had 19 attend President's Meeting and I hope they take advantage of CSES's new services like advertising!"



VP Social
Jasmine Shaw

"Hello C-Eng! This month, I am very excited to bring you February Feel Good Week (Feb. 9th-13th), a week-long mental health awareness campaign & de-stress week I have been working on all year. There will be free yoga sessions, massage therapy, bake sales, therapy dogs, and much more! If you are interested in volunteering, stop by CSES to find out how you can make this one of the most positive weeks of the year."



VP Finance
Allan Bassi

"I am preparing the financial reports for the Winter General Meeting, as well as meeting with CSES's tax consultants to file taxes for the most recent quarter. Winter student group funding is open on the EngSoc website, and applications close on February 9th. Student groups who are in need of more funding are encouraged to apply."



VP Internal
Zac Bandura

"Things to look out for in February; Pewter Mug application close on the 6th, so grads, get those orders in! Applications for Awards will also be running. Be sure to nominate worthy candidates before the deadline! And the big thing: ELECTIONS! If you want to run for a CSES Position, please consider running. It is a great way to get involved and gain experience."



VP Publications
Michelle Davis

"There are tons of exciting events coming up this month with February Feel Good Week before the break and National Engineering Week coming up in March! Let us know how you enjoyed them by writing an article for the Iron Times! E-mail all work to irontimes@cses.carleton.ca. Hope you have a lovely February C-Engers!"



VP SERVICES
ALEX WHITLOCK

"The textbook library is now officially open: feel free to come in and see our updated selection. As well, CSES will be selling new Eng-wear out of Alexander's Office in the coming weeks. As well, please note the deadline to pickup money and/or textbooks from the Textbook Trade is Friday, February 13th."



VP External
Jake Lipohar

"Sup Err'one. My Christmas vacay was cut short this year when I travelled to Winnipeg for the CFES Congress 2015! Plenty of great discussion took place and many meetings led to a sickly week back to school. FYIC should have come and past by the time you read this, and I plan to help rewrite policy and help out with National Engineering Week for the rest of my term!"



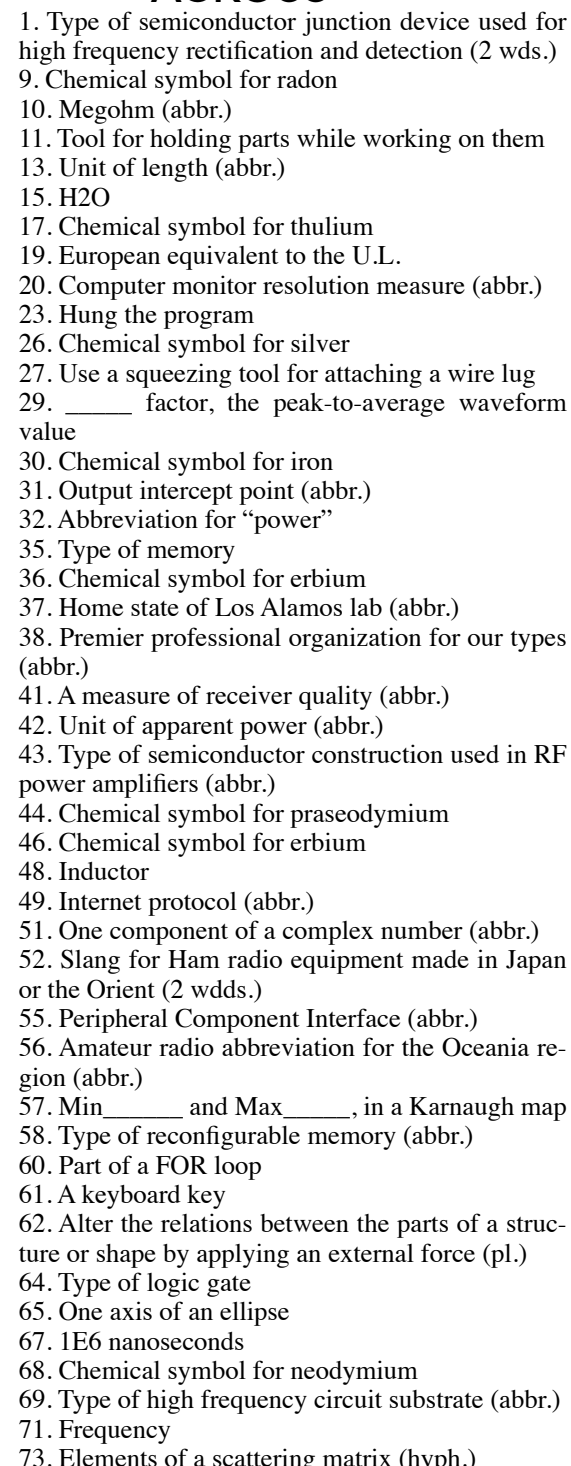
VP Academic
Julia Dalphy

"This month, I will be bringing the Carleton Engineering Competition's Top 28 Competitors to Ryerson from Feb. 6-8 for the 2015 Ontario Engineering Competition (OEC)! National Engineering Week planning is in full swing— check out our social media page for ALL the latest updates, and come buy our NEW swag! Before Reading Week we will be distributing the Academic Survey to all undergrad engineers, so be ready to give us your honest feedback. Lastly, please continue to voice any academic concerns to concerns@cses.carleton.ca."

WANT TO GET INVOLVED?

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.

DOWN



LEO

SAGITTARIUS

TAURUS

VIRGO

CAPRICORN

GEMINI

LIBRA

AQUARIUS

CANCER

SCORPIO

PISCES

18

ACCURACY OF HOROSCOPES $P > 0.05$

DISTRACTIONS

THE IRON TIMES TAKES NO RESPONSIBILITY FOR YOUR LOVE LIFE

THE OATMEAL : VALENTINES CARDS



THE FAR SIDE



SMBC



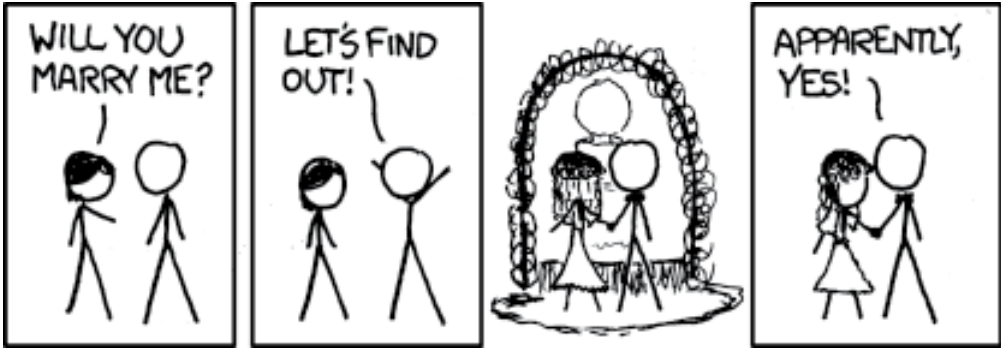
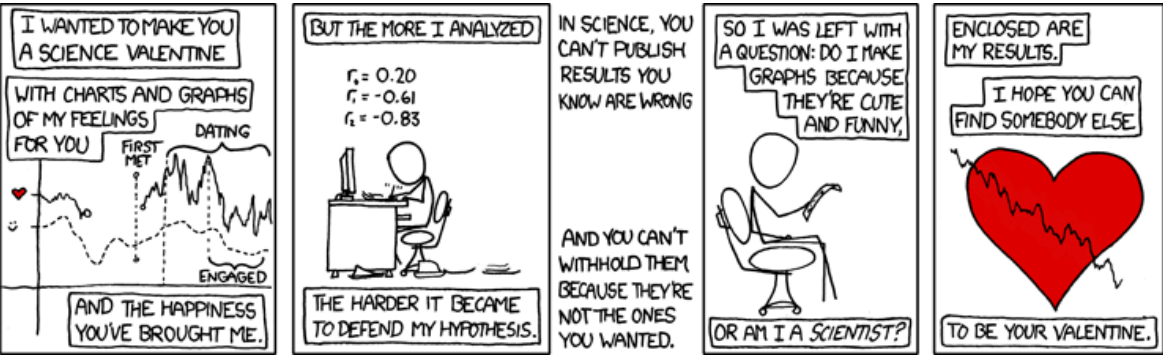
In the future, love is determined by barometric pressure.

Think it's stupid? Well, look how well your system is working out.

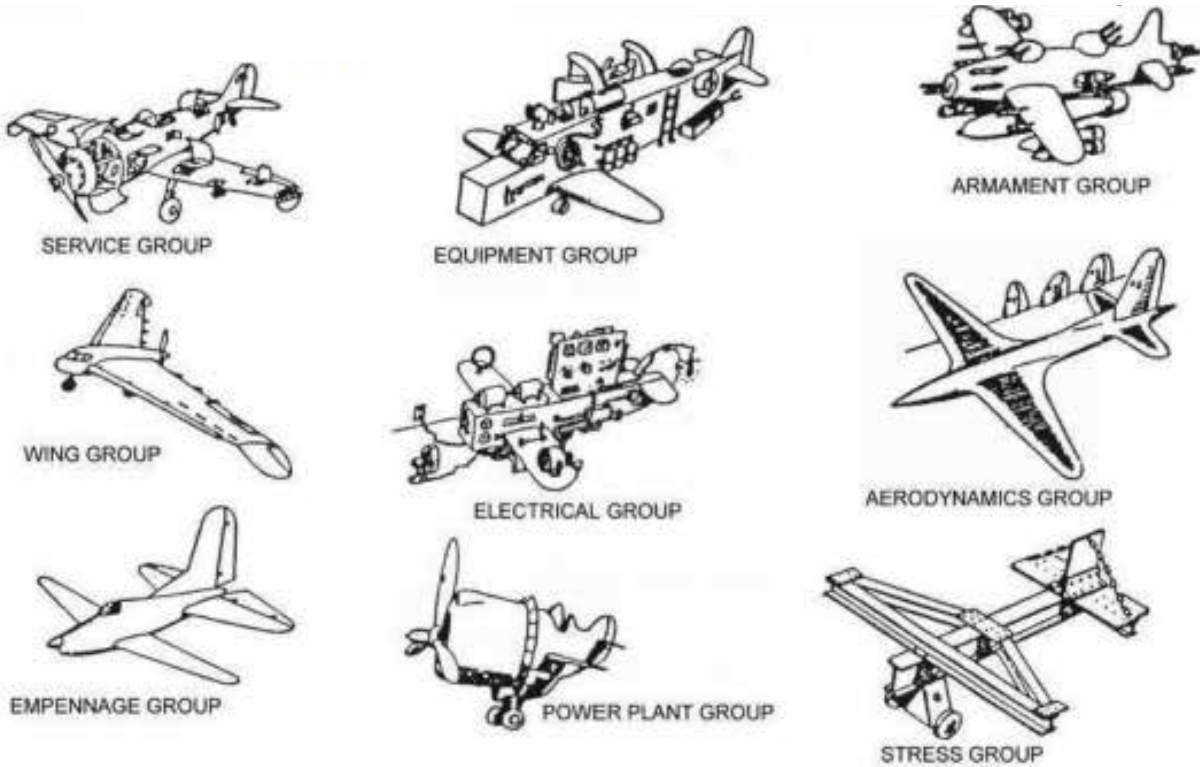
BOBBY BROCCOLI



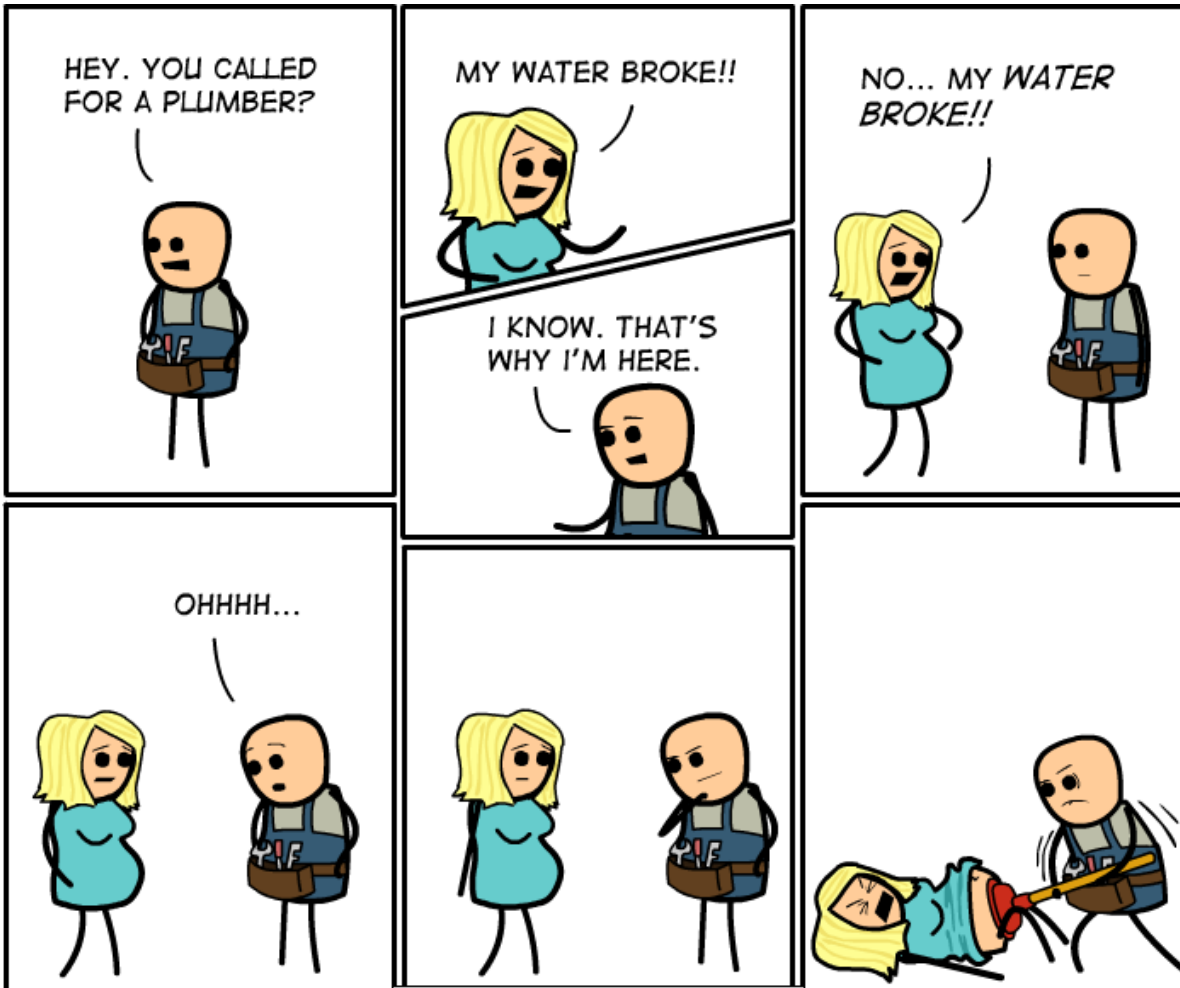
XKCD



AERO 3002



CYANIDE AND HAPPINESS



Cyanide and Happiness © Explosm.net

LAST CALL

PUT YOUR PENCILS DOWN



THE IRON MAN JEFFREY TOLTON

- AERO III -

Hometown/background: Brockville, Ontario
CENG Involvement: EngFrosh Technical, Troitsky Admiral, OEC
First Experience with CENG: M-O-T-I-O-N, MOTION PICTURES TIL THE END!
Worst Idea Ever: Standing 50ft behind a 737 during takeoff
Your Inspiration: Burt Rutan
Advice for younger engineers: Understand the curve of diminishing returns. Do well, but don't do more than you need.
Advice for your older self: Go to bed early
Battle-cry: Leeeeeeeeeeeeeeroyyyyyyyyy Jenkins
If you could choose one goal in life: Go into space
Spirit animal: Sloth
3 things for the zombie apocalypse: Backpack, matches, MREs
If you could learn to do anything what would it be? Languages. Lots and lots of languages
How would you get an elephant into a refrigerator? Open the door, take out the butter, and put in the elephant
Advice on getting involved: Just do a lot of things. You'll hate some, but you'll find the groups and activities that you really enjoy!

HAVE AN EVENT OR
SERVICE YOU NEED TO
ADVERTISE?
.....
SUBMIT YOUR OWN AD TO:
PUBLICATIONS@CSES.CARLETON.CA

USES FOR THE CHARLATAN

- > Testing sexy Russian spies to see if they can read english. If they can read the Charlatan? Definitely a spy
- > Jamming up the tailpipe of your a OC-transpo bus to add a little life to the party.
- > Use to improvise a sled to escape the blisteringly-fast OC transpo police.
- > Place in front of your lover for a fun night: they'll be screaming "Don't Stop", because otherwise they might have to read it.
- > Mail to Elon Musk as blackmail until he lets you strap yourself to the Falcon-Heavy and ride it to Mars.

> You Could Read It



A Carleton Vaginas Against Violence Fundraiser March 7th and 8th. Go see it, or you're a giant-pussy will be eaten by a giant talking vagina.



THE IRON LADY KAYLA PEPLINSKIE

- CIVE IV -

Hometown/background: Ottawa
CENG Involvement: CSCE (VP Internal), Troitsky (Admiral), EngFrosh (Facil)
Best Idea Ever: Dipping french fries in a chocolate milkshake
Worst Idea Ever: Walking through UC during CUSA elections
Advice for younger engineers: Make friends with upper years in your program. They are an invaluable resource.
Advice for your older self: Naps are always good.
Battle-cry: *crickets*
Spirit animal: Dragon
3 things you grab for the zombie apocalypse: Duct tape, machete, laptop
If you could learn to do anything: Teleport
Where's Waldo? At the bottom of my laundry pile
If you were a pizza deliveryman how would you benefit from scissors? Earn extra tips by cutting people's hair
Advice on getting involved: Don't be afraid. Start small and gradually take on more responsibility in your roles.

THE IRON

Connor Buott
Michelle Davis
Nick Dumoulin

THE TIME

Mitchell Brown
Alice Fernandes
Vicky Madge
Adam Mikolajczak
Jasmine Shaw

ISSUE MADE POSSIBLE BY

12 Hours in the CSES office
4 Residence Proms
3" Of Dirty Laundry

- FOOTNOTES -

APOLOGIES:

to anyone who might have been offended by the mention of engineers drinking at parties. We are not, however, sorry for the dick we drew on your face while you "slept".



THE IRON TIMES WILL RETURN IN MARCH