

THE CARLETON STUDENT ENGINEERING NEWSPAPER

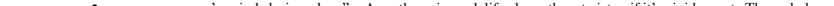


SERVE WITH ICE

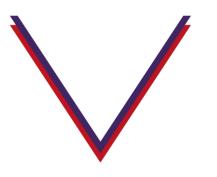
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JANUARY 2015









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Mysteries of a Dream



Michelle "Destructive Cleaning" Davis - AERO III -

I'm standing in a hallway made of wire fence and green vines. A thick forest encompasses us for miles in every direction but all I feel is excitement pulsing through my veins. There are about 8 of us cautiously wandering through this new world, excitedly curious about what wonders lay in front of us awaiting to be discovered... or re-discovered.

"A series of thoughts, images, and sensations occurring in a

person's mind during sleep". A dream. From when I was barely able to remember to this very day, incredibly vivid dreams became the norm for most of my nights. Connecting to my unconscious mind has allowed me to open my eyes to the multiple lives and dimensions that I can experience through something as simple as sleeping.

We wander through several different chambers of this intertwining canopy of tropical plant covered fences until we reach a door. A real door. Not one made of chain link fence but rather of elaborate reinforcements of steel plating's coming together to form the doorway to new worlds. But some how it seems as if we've been here before.

The subject of my dreams varies quite drastically from night to night but there is one theme or symbol that occurs most frequently – tornadoes. Through dreaming of tornadoes I've actually become quite interested in them in real life, how they twist and turn leaving a distinct path of destruction behind them somehow has a unique beauty to it.

There's no doorknob to turn or wheel to spin that will open the door. Instead, there's a fixture beside the door that draws blood and analyzes it to determine whether or not you have access to enter. To our surprise it somehow recognized us even though we were in a place we had never been before. We enter into this incredibly large room with an amazingly massive screen on the left side as we enter that's displaying a star map for a region of space within the Milky Way galaxy.

In having many dreams I began writing them down to document whether my real life played into effect the type of dream I would have. However, I've found that it's pretty sporadic and nothing really effects what type of dream I'd experience. Though I do dream of tornadoes quite often, it's also not the subject that determines whether I remember the dream or if it's vivid or not. Through dream recalling I've been able to remember more dreams and in doing so allowed my mind to make more and more of my dreams feel incredibly life-like.

The large display is so clear that it looks as if though we were looking out of a window within a spacecraft observing this region of space first hand. But since we had just entered it from the ground we know that wouldn't have been possible. There were 8 planets at the bottom of the display that were large enough to distinguish the details of each planets surface with an arrow pointing to which region of space within the star map they reside. Two of us, without realizing, were standing fairly close to one another as I was fiddling around with the interface that controlled the screen. I selected a planet expecting more information regarding it to appear on the screen however, instead the rest of our team disappeared and the two of us were now standing in the room alone. >Cont. Page 2

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AND MUCH MORE BUT NOT TOO MUCH.



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THE REST OF US ONLY CLOAK DURING EXAM SEASON

FROM THE DESK OF THE EDITOR SET COURSE AND ENGAGE

Star Trek, Engineering, and Our Future



Connor "Birdbath" Buott - AERO III -

Though darkness, dystopia, and fear dominate our current view of the future, there will always be Star Trek. Celebrating its 50th anniversary next year, this venerated franchise remains one of very few that offer a brighter outlook for the future of mankind.

Though sometimes campy and heavy-handed its portrayal of a Utopia lacking strife, poverty and disease, it nonetheless provided inspiration to several generations. It showed a future where humanity unified and advanced as species not through war, but through exploration of the galaxy. That idealism, along with many other aspects of Gene Roddenberry's creation, is what drew me in as a child, a large part of what steered me towards aerospace engineering, and is what continues to inspire many of us today, myself included.

Gene Roddenberry orig-



beloved bridge crews! And yet, unlike what is often portrayed in more conventional militarycamaraderie films, on the Enterprise the crew still had their own lives, pursued their own hobbies, romantic relationships, etc. There was order, but there was still diversity, freedom, with a broad range of characters. And in every series of Star Trek, the chief engineer was a title character, with whole stories based around (admittedly non-sensical) technical problems, as well as their personal lives and interests. Further appealing to us engineers is the prevalence of though-out technology. In many science fiction shows, there is little effort made to explain, or even rationalize, the technology involved. And though Star Trek has had its share of ridiculous and completely unscientific plot lines, many of the core concepts, like replicators, communicators, warp drive, shields, photon torpedoes, etc, were not only explained in a reasonable manner, but were realistic enough that they either inspired, or paralleled, the development of similar technology in the real world.

different types of life? What does it mean to be sentient? The age old "outsider's perspective" technique was used in every series to allow us to disassemble the emotions and the rationale, to both explore the nature of humanity and to provide perspective through which younger viewers, (as most of us were when we first Trekked), can relate to . In the Original Series, it was the purely logical Spock, in the Next Generation, it was the android Data, in Deep Space 9 it was arguably the amorphous Changeling Odo, and in Voyager, it was the initially the holographic Doctor, and later the cyborg Seven. All of these characters offered a logical, precise outsider's view on the human condition, something many of us engineers both related to, and appreciated. After nearly 20 years of uninterrupted Star Trek series and movies, from 1987 to 2005, a brief hiatus, and then the massive ret-con that was Star Trek (2009) and Star Trek Into Darkness, we are at least assured that this vast, utopian universe will be with us well into the future. Though the rebooted movies lacked much of the complex morality and humanism of the tv series, they made up for it with

Mysteries of a Dream (Continued from Page I)

What in a dream determines how life-like you experience it? I'm sure it depends on the type of person you are and what physically resonates with you however, for me it has a lot to do with the feelings I experience throughout a dream. The more I feel emotionally attached to the people and the surroundings my mind has made up the more lifelike it seems to me. Having that emotional connection goes beyond just sitting and experiencing something but rather feeling apart of it, like there's a whole story and life you're taking part in and the dream is just one chapter of it.

At first we thought that the rest of our team had been teleported away with some technology foreign to us but soon realized it was us who had moved. The planet we were on was now a part of the 8 at the bottom of the screen and we had come to realize that we had travelled across a vast region of space within seconds. Since we had come to explore the only obvious thing to do was to investigate what lied outside the steel plated door. We opened the door to find another hallway however, this time it was made mostly of steel beams and a glass case that allowed us to view the scenery surrounding us. Moving away from the emotional aspect of a dream and focusing on the visual aspect; seeing things in such detail allows for me to describe my dream in that much detail once I awake, either by documenting it through writing or by drawing. I am definitely not the first person to do this and in fact dream documentation has been found to date back almost 5000 years with simple drawings on clay tablets. Very different in comparison to the planet we had just left, we were situated within a vast expanse of tall mountains with no valley or flat land visible from our location. What was visible was the various buildings connected by hallways similar to the one we were in. But it wasn't the scenery or the other building that made us curious about this new planet but rather the other people we could see through the windows of all the buildings. People. We hadn't seen anyone aside from the 8 of us within the past 5 years and now all of a sudden we happened upon a civilization of sorts with a people who seemed to be thriving. But who were they? Some people believe

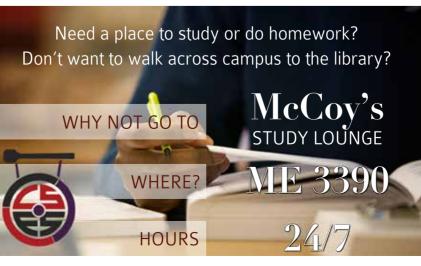
dreams reveal information regarding your unconscious mind that normally would be difficult to observe during your day-to-day life and activities. So much so that there are several "understanding dreams" books available that define a variety of symbols and what they mean in regards to your real life and unconscious mind. Though these are only speculations and theories I believe that dreams, and the symbols that appear in them, vary greatly depending on the type of person you are, your past experiences and your current state of mind therefore one definition isn't enough to analyze completely what your dream is trying to tell you.

In no time people rushed to our location and we soon realized that however established this group of people were they had never been able to step foot inside of the room we had just left. We expected to be greeted with kindness and a welcoming atmosphere and though they were kind the atmosphere seemed forced. An older woman, in her mid-40's, approached us cautiously. She was a bit of an odd figure, dressed very formally by today's standards however having disheveled hair and smudged makeup. She seemed tired. At first she was very welcoming, showing us around the base and buildings that were all connected and answering all of our questions. She than showed us to "our rooms" and informed us we would never be able to leave and left it at that. However long a dream may feel in actuality they can last from a few seconds to 30 minutes but generally not longer than that. Which is why I'm so fascinated by them, I can live in an entirely different life in just 30 minutes and wake up to another. So, at what point do your dreams become too real? For me I don't think a dream could ever be "too real" but enjoying the thrill of them while they last is an experience of it's own that can't be gained from real life, at least to the average Joe, and I am an average Joe. Until next time.

inally pitched Star Trek as a "Space Western", something that both appealed to the network executives in the 1960's, and bears a striking resemblance to the description of Firefly, which followed 40 years later. Secretly, however, Roddenberry had a different plan for the show. He envisioned a series more akin to Gulliver's Travels, where each episode brought both a fantastical (now science-fiction) adventure, and moral lessons exploring our own humanity. From this vision came the technicolour adventures of the Enterprise crew.

Perhaps what draws us engineers, or at least myself, towards Star Trek is the dynamics of the crew. A strong emphasis was always placed on order, on cooperation, and on loyalty: to your captain, your crew, and your morals. Much of this likely stems from Roddenberry's time as a pilot during World War 2, when he flew large bombers like the B17 Flying Fortress, where a crew of 10 worked together on a massive flying battleship to complete missions. Not unlike our

Moving beyond technology, Star Trek brought us both age-old and new morality tales. How do we treat those that are different from us, either in race or species? How do we define life, and how do we treat those



stunning visuals straight from our childhood imaginations. And if nothing else, they showed that Star Trek is still beloved enough to make money: something that will guarantee its continued de-For now, the best us en-

gineers can do is to continue to take inspiration from the technobabble and the Picard-Speeches, from Kirk's smooth alien-babe pickup lines and perhaps even from Janeway's reflexivity with the self-destruct button (ie, FSK's).

velopment.

If Star Trek is the future we want, then it's up to us to make it so.



EDITORIALS

THE IRON TIMES ALWAYS TAKES A FIRM STANCE

THEYEAR OF THE FEMINIST





Adrian Soble - ACSE II -

As 2014 came to a close, members of the media began to discuss an appropriate title to sum up the year's pop culture events. Some say it was the "year of the terror shootings" taking into account the disturbing increase in frequency of mass shootings (terrorist spawned or otherwise). Unfortunately I do not believe that 2014 is the end to these despicable events, making the name inappropriate or depressing. Others argue it's the year of the "Black Lives Matter" movement, in response to the events following the Ferguson riots. As with the first name, this issue is still escalating and has yet to meet any kind of resolution. As for "passé" issues such as climate change, the 24-hour news cycle had little to say about our impending doom this year.

"The Feminist". This year, there was a huge increase in women's rights movements. Whether it be the "He for She" program headlined by that captivating speech by Emma Watson or the inspiring story of Malala Yousafzai. Feminism and the word feminist is dropped quite frequently these days, and I genuinely believe that people are beginning to pick up the important messages of what feminists have to say. The end goal for feminism is simple; Everyone is equal. This mantra, runs coplanar with the black lives matter movement, the LGBT movement, as well as any other human rights movement out there.

Some people believe that feminism has been painted in a negative light, caused by over aggressive campaigns to enforce and raise awareness. These rare cases of "super feminists" are usually in response to cases of extreme social negligence and are understandable. The general public, however, is now catching the drift. I may be seeing the world in rose coloured glasses but I think our generation has been properly trained in the craft of social acceptance. "Don't be an asshole" is basically the same thing as "everyone is equal", and people (at least the people here at Carleton) are very good at not being assholes.

public, keeping everyone safe. As engineers we must work with all fields, listening to the information given to us by all of our peers. We are a community that is naturally equalist, naturally feminist.

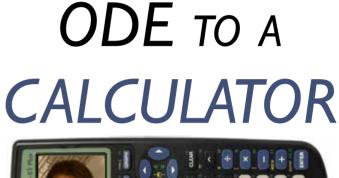
Now as you sit in class reading this newspaper, look up to see your white male prof. Yes, engineering at the present is dominated by Caucasian men, but if you were to look to your left or right you would see an ocean of diversity. Each person has their own story to tell, their own cultures, their own vision of the world. The future of engineering looks bright. This wide range of brains will only improve our designing and cooperation skills as a whole. Learning how to see the world in a different perspective, learning how to explain concepts, learning how to think inside, outside and between the box. These are skills that we are picking up at university while working in a diverse environment. As a student in ACSE I have the pleasure of working with one of the most female concentrated engineering student bodies at Carleton. Having the opportunity to be surrounded by women while studying engineering makes my friends at other schools envious, as they should be. By having a diverse range of people to work with, a diverse range of ideas can be made. Diversity propagates a safe working environment, which

in turn propagates innovation.

We will move on, eventually to become licensed engineers. We will enter workplaces, some more conventional than others. When we are eventually employed it's important that we are aware of what minorities may face in the workplace. Whether it is sexism, racism or homophobia. We have to be ready for it, we have to learn how to handle it and we have to learn how to shut it down.

My female friends are some of the strongest, most hardworking, smartest people I know. They work tirelessly as all engineering students must, and deserve to be treated as equals in the classroom, workplace and at home. We are creating self-regulated social standards amongst our community, by encouraging diversity and never leaving anyone out of the loop. If we work alongside individuals with diverse backgrounds as peers we are naturally propagating feminism.







Julia Psihramis - ASCE II -

What in the world would I do without thee? How would I determine the cubed root of three?

My constant companion since I started grade nine, When all I computed was the slope of a line.

You've helped me out in many a class. Sometimes you were the one thing that made sure I'd pass.

You even help out when I need to divide, When I've had a long day, and my brain is just fried.

I personally believe that 2014, was the year of

As engineers we must design and build for the general

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As I continue to participate in group projects, I do not see women, men or race.

I see engineers.

We make a great team when I take a test. You do the grunt work, while I do the rest.

You check all the answers I already know, And using just numbers, can spell out "hello "

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WHAT IT LACKS IN FUN, FROST WEEK MAKES UP FOR WITH FROZEN NIPPLES

Different Universe

Engineering from an Artsy Point of View



Wesley "Pooping Panda" Chee - CRIM III -

For most of us upper years, the Fall Semester was just another grind that we are used to – The brutal work lord (LOL I guess for some people), the long hours in the library studying for those horrible and deadly finals and just pushing yourself for that last couple of days before you are done and free until the new year! For the first years, it was probably a new experience with many mixed emotions and stress but pat yourself on the back you've completed one semester at university, keep it up! Only a few more years of hell until it's over... I hope everyone's

semester went well, had a fantastic break and a Happy New Years! The beginning of a new year and semester allows me to preview some pretty awesome events that everyone should be looking forward to when the time comes, but before I get into that, let's take a look back at the last two months before the winter break began.

November is better known as Movember for most people and being part of the C-Eng Movember team again for a third straight year was great as always. This year, a few of us added a weird twist, we decided to be extra lazy and not shave for two months which is what we usually do with the Movember beard turning into exam beard, so it was nothing new for me but this time I just had a better excuse rather than just being super lazy. The Movember Coffeehouse held in the architecture pit was really enjoy-

able, many great performances by Eng students (shout-out to my bro, Chris Featherston)... I promise the photos from that night will be out soon... :P

November (and December) is always the closing of the academic semester, which means VAP VAP VAP! We had a new location this year; we weren't at our usual hangout, O'Briens. However, the Clocktower were great hosts with some pretty interesting selection on tap (mussel flavoured beer if I remember correctly...). Now, don't get me wrong, I love seafood as much as the next person but that was the strangest tasting beer that I have ever had and trust me, I've had many kinds in my short time on earth.

As for events to look forward to come the New Year, January, and the winter term in general, is pretty jam packed with some awesome events right off the bat:

Effective Professional Communication





- BMED II -

As engineering students we may not always know how to correctly communicate our thoughts to others. At Carleton, we take the CCDP 2100 course to help develop communication skills and make it easier to explain our thoughts to those that toon they take a course called RCM and the workshop was a condensed 1-hour version of the course. Here I learned a few points to take into account when communicating to others and creating a successful presentation or speech and are as follows:

Know the Facts!

You may be suggesting an interpretation that is not correct. Make sure you know exactly what you are talking about to avoid anyone doubting your sources.

Get to the Point!

You may be revealing some-



to understand way so the audience can follow along and not get lost in fancy nonsense that does nothing to get your point across. No one can back you up if they do not know what you are trying to say, so be clear and concise.

Shake it off!

One of the most difficult things for students is public speaking, even if it's speaking in front of a group of only ten people. Confidence is key, so remember to stand tall and speak every word clearly and confidently because if you believe in yourself, others will believe in you as well. So shake off the nerves and

COMING IN JANUARY



First, we begin with Frost Week, a fun week filled with events for people to do to rekindle the relationships that were created during the first university experience had during Frosh week, but for everyone to enjoy this time! Monday is just a "causal" day at Ollie's, and who doesn't love that! Tuesday people can enjoy skating and cheap movies (because we're all very poor after the holidays). Wednesday will be a nice calm night of board and card games, which is always a good time, especially with engineers. Thursday will be karaoke night that will be awesomely hosted at our beloved O'Brien's, one of my favourite places to be in Ottawa. Friday is going to be a wild FSK III, being the first one since Halloween FSK II where, if you were there, you'll remember (or more likely not remember) we basically reenacted "Passion of the Christ" starring Purple Panda as Jesus! And finally, Saturday's event, which has been left a secret and is kind of nice because we need surprises every once and a while.



Next, Heads Interviews/Day will be calling anyone who is dumb enough to make a team of 3 and watch over 50 first years for the first week of their university life along with a great team of facils to support you. Last year this was done by Christmas break but since the directors weren't chosen until late into the Fall term everything has been pushed back! I give my shout-outs and congratulations to everyone on planning and spirit! I, along with many people, look forward to the awesome job you'll be doing for EngFrosh 2015.

Writing this has gotten me incredibly pumped for the New Year and semester and I hope it does the same for you!

are not in engineering.

I recently travelled to Saskatoon to take part in the National Conference on Women in Engineering. I went to a workshop called Effective Professional Communication. The workshop brought light to the fact the engineers and engineering students can be sometimes difficult to understand due to the complex terminology they use. At the University of Saskathing that is better left unsaid. Make sure you know your audience and know what they are hoping to get out of your presentation.

Fix It!

Purposeful communication that seeks to achieve a goal or solve a problem is most effective and draws people in.

Less is More!

It is important to present everything in an unambiguous, easy

have fun. Of course there are many other factors that can contribute to an effective speech or presentation, but these are the main few that were touched upon during the workshop. So the next time you are going to speak to a group of people, you can feel confident that you know what it takes to create a successful presentation.



YOU MAY BE ABLE TO TALK THROUGH CANS, BUT SHE WON'T FIND IT FUNNY

COLUMNS

SOMEBODY SHOULD ORGANIZE A PINK FLOYD LASER LIGHT SHOW IN THE POOL

Raph's Record Corner Out With A Bang Pink Floyd Does Everything Wright





Raphael "Bluebelly" Adams - ACSE III -

One of the hard things about being in engineering is that you need to prioritize almost everything. That's why I can't really do a Top Ten Albums or anything for this new year, because I didn't have time to listen to a bunch of major stuff that came out in 2014. For example, I have yet to hear all of "GIRL" by Pharrell Williams, "Mind Over Matter" less. by Young The Giant, "while (1<2)" by deadmau5, "Morning Phase" by Beck, and the list goes on. I will tell you, however, that my slightly-weird-and-random taste in music led me to like "...And Then You Shoot Your Cousin" by The Roots, "The Joy of Motion" by Animals As Leaders, and "2014 Forest Hills Drive" by J. Cole. But I can't say that these are the absolute best albums of the year because I didn't have time to compare them with others. (New Year's Resolution: do a better job of that for 2015.) But I think even if I did listen to all the albums that came out in 2014, it would be hard to top Pink Floyd's "The Endless River".

"Animals" and "The Wall" are amazing too. So I'm pleased to say that this new release has the classic Pink Floyd sound we know and love. At the same time, it sounds different from everything else I've heard from them, making it completely fresh and exciting.

But there's sad news as well. This is the band's final album, because their keyboardist and the core of their sound, Richard Wright, is no longer with us. "The Endless River" is a final farewell to both Wright and Pink Floyd, and it's an extremely fitting one. Thoughtful, ambient, moody, and almost completely wordless...it's flaw-

ues for the rest of this segment.

Ebb and Flow: The groove drops out and leaves solitary mellotron, with a little acoustic guitar lead for accompaniment. A cymbal swish and the first part of the album ends peacefully.

Sum / Skins / Unsung / Anisina

Sum: Another ambient fade-in to start Part 2. Slowly, an upbeat keyboard riff fades in and plays alone for a bit. Then...a guitar squeal, and an up-tempo beat kicks in, with pounding toms, "helicopter" synth sound effects and wailing leads from Gilmour. The

The best way I can describe this track is to compare it to the sunny calm after a storm (which would have been the feedback screeches and the drum solo). Sorry if that was too artsy for you.

The Lost Art of Conversation / **On Noodle Street / Night Light** / Allons-y (1) / Autumn '68 / Allons-y (2) / Talkin' Hawkin'

The Lost Art of Conversation: Some pad synths fade in, with acoustic guitar leads. Piano enters thoughtfully, setting up the main melody and mood. There are some strings for accompaniment as well, which is nice.

riff reappears with more soloing. I don't mind the repetition, because it's an awesome riff and it gives more continuity to Part 3 as a whole.

Talkin' Hawkin': Finally, a slow piano-based piece begins. There are some choirs and lead guitar, and then we're treated to something really special: a vocal clip of the great Stephen Hawking stressing the importance of human communication and what it has allowed us to accomplish. It's a makes you think.

Calling / Eyes to Pearls / Surfacing / Louder Than Words

voice hasn't changed a bit – it feels like I'm listening to the band in their "Dark Side of the Moon" days. The chorus features female background vocals, another Pink Floyd trademark. And Gilmour's final Pink Floyd guitar solo is absolutely perfect: it's expressive, emotional, and triumphant. Everything ends suddenly, leaving us with a quiet fadeout of ambient synths and a lot to think about and reflect on.

I honestly can't find perfect ending to Part 3, and it anything wrong with this album. I tried, and it's perfect in every way. But considering that I can say that about every Pink Floyd album I've heard, should I really be surprised? They're truly one of the greatest bands of their generation, and one of the most influential bands of all time. And I don't dish out this compliment easily, but they are masters at creating masterpieces. What makes "The Endless River" particularly special, then? Somehow, they were able to do a ton of experimenting and still sound like themselves. It would have been easy to just revisit the past and do the tried and true, but instead they decided to push themselves - at the risk of ruining what they knew would be their final album. And guess what - it paid off. Somewhere up there, I'm sure Richard Wright is smiling down. A well-deserved five stars, and my favourite album of 2014.

We engineers love Pink Floyd. Out of everything that gets played in Leo's, "Dark Side of the Moon" is the album I hear most frequently... and of course their other classics "Wish You Were Here",

Things Left Unsaid / It's What We Do / Ebb and Flow

Things Left Unsaid: Ambient synths fade in with spoken background vocals, building up into a resonating kick drum "boom". This turns into spacey pad sounds, giving a "floating in space" type feeling. And then...David Gilmour enters with his signature guitar lead and it's beautiful. Just reverberating guitar and synths, that's it. Quiet and peaceful, building up into another "boom".

It's What We Do: A key change, organ, and some cymbal swishes....then the drums enter and the main body of the song begins. It's a similar feel to their song "Shine On You Crazy Diamond", but completely different at the same time. A very tasteful guitar solo begins, complemented by Wright's mellotron, and contingroove ends abruptly with a crash....

Skins: Omg....is that a drum solo I hear coming?.... YES. YES IT IS. I have waited for this since before I was born, literally -- Nick Mason is SUCH a good drummer but he almost never gets to shine with Pink Floyd's music. Backed by frantic guitar feedback, he delivers my favourite drum solo of the year. Short and sweet, with those awesome highpitched toms that I love.

Unsung: Things quiet down, with an ominous resonating keyboard pattern. There are a couple of minor-key piano crashes, coupled with more feedback bursts, that will make your hair stand on end a bit. This segment is just a transition; it's only a few seconds long.

Anisina: Aaaand this turns into a gorgeous pianodriven laid-back piece with male choirs and the obligatory Pink Floyd saxophone solo.

On Noodle Street: A quiet drum-and-bass groove en-

ters, soft and funky, with guitar and mellotron improvising in turn, backed by swells of synth pads. It's a very peaceful track, but it quickly turns into something else...

Night Light: The groove drops, leaving keyboards with weird acoustic leads. There are a few chord changes and a very ambient overall feel. This is the setup for something bigger, but you don't know what it is. Let me provide the spoiler...

Allons-y (1): A drum fill, and things kick into high gear with an up-tempo guitar riff and another Gilmour solo. Then the beat stops, leaving more spacey synths and a gong to finish it off.

Autumn '68: This is Richard Wright's solo moment. This track is almost entirely church organ, very epic and majestic sounding.

Allons-y (2): Some synths, aaaand the up-tempo

Calling: Beginning with some electronic beeping, this track turns into a very ominous bed of minor-key synths with pounding piano keys in the background. A gloomy keyboard melody is repeated by screeching guitar, with thundering toms for dramatic effect.

Eyes to Pearls: A simple, clean electric guitar riff enters and repeats a few times before more deep toms enter. The keys here are used for fills and accents rather than background. Surfacing: This seg-

ment begins with some very pretty, clear acoustic guitar finger-picking. The full band enters triumphantly with wordless singing and tons of optimism. It's gorgeous...nuff said.

Louder Than Words: This is the only song on the album with lyrics. It starts off with a quiet acoustic guitar and piano intro before settling into the main key and groove of the song. Vocals enter, punctuated by guitar leads. Gilmour's

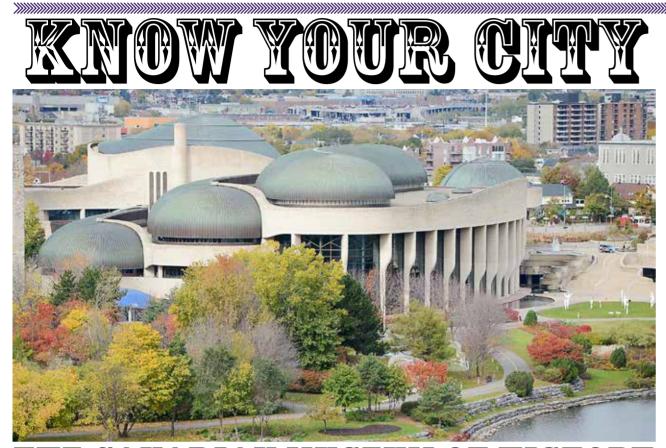
PS: I rate out of five stars, meaning that this album is perfect. Thanks for asking :P



THE DARK SIDE OF OPTICAL REFRACTION

COLUMNS

FORMERLY THE CANADIAN MUSEUM OF PISSING OFF THE TORIES



The Canadian Museum of History



Holly Parrinello - ARCH III -

Like every first year before it, Know Your City is taking a trip to Gatineau to visit the Canadian Museum of History. Formerly the Canadian Museum of Civilization, the museum plays a role in promoting the heritage of Canada and its people, and contributing to a sense of identity of all Canadians. The museum is home to the world's largest indoor collection of totem poles, highlighting the cultural and artistic achievements of Canada's First People's. The Canadian Museum of History was opened June 29, 1989, and welcomes 1.3 million visitors annually, making it Canada's most visited museum. But the museum was established long before the current building was built. The almost 160 year history of the museum began with the establishment of the Geological Survey of Canada in 1856. When the survey was formed in 1842, scientists began collecting geological samples and artifacts from archaeological digs found in fieldwork that were worth keeping. In 1843, the first Survey museum opened in Montreal showcasing the results of, and in 1856, the Province of Canada passed an act to officially establish a museum that was open to the public. Collecting and categorizing the artifacts, the Museum opens its First People's exhibit

that consisted of a single case of pottery fragments and stone pipes in 1862. In 1881 the Geological Survey of Canada Museum moves from Montreal to Ottawa, attracting far more visitors in the nation's capital. By 1898, the National Museum has the largest collection in Canada with 92 000 items, and the next year plans are drawn up for a new building. That building is the Victoria Memorial Museum, opened in 1911, which the National Museum shares with the Geological Survey and the National Gallery. From 1916-1920, when the Centre Block of Parliament burned down and Parliamentary function was moved to the building, the collection of the National Museum was put into storage. In 1956, the National Museum was divided into two branches, the Natural History and the Human History divisions. In 1960, the National Gallery and the Geological Survey vacate the building, and the National Museum is the sole occupier. In 1968, the Human History branch becomes the National Museum of Man, the Natural History Branch becomes the National Museum of Natural Sciences, and the Science and Technology Branch becomes the National Museum of Science and Technology, officially splitting up into three separate museums. In 1974, after renovations to the building, the Museum of Man occupies the western half, and the Museum of Natural Sciences the eastern half. But sharing the space was no longer an option, for the collection had outgrown the museum building. In 1986, the Museum of Man is renamed the Canadian Museum of Civilization, and in 1989 the new Canadian Museum of Civilization building in Gatineau opens to the public, and the Natural Sciences becomes the Canadian Museum of Nature and the only occupier in the Victoria Memorial Museum. And in 2013, the Canadian Museum of Civilization was renamed the Canadian Museum of History to portray its focus on our shared Canadian History.

But to understand such a complex and unique building like the Canadian Museum of History, one must first understand the architect. Douglas Joseph Cardinal was born March forms used in buildings like Casa Mila. Cardinal is also a forerunner of sustainability and ecologically planned buildings, using heat recovery ventilation systems, passive ventilation, and maximizing the amount of daylight in his buildings, further connecting those inhabiting his buildings to nature. His first project in 1967, St. Mary's Church in Red Deer, could only be done with computer-aided design software, or CAD, because the curved forms were too difficult and could not be properly displayed with traditional drafting techniques. The forms of the building could also be rendered at full scale using CAD, giving incredible control over details of the building. Douglas Cardinal Architect was the first firm to be completely computerized in the 1970s, and by 1981 the firm was identified as a world leader in CAD. Over the years, Cardinal's use of materials has evolved, from wood to reinforced concrete to brick to limestone, showing that he continues to explore and create. Cardinal still keeps the concept of his earlier designs, connected to nature and capturing its essence with modernist sculptural forms only possible through the use of computeraided design. He moved his practice to Ottawa in 1985, and in 1990 Douglas Cardinal was awarded the order of Canada. Cardinal continues to practice

Canada is famous for. He chose to conceive the museum in these forms because man found his roots in nature, and the idea of the land is common to all, whether it is the First People whose traditions are deeply ingrained in nature, or those who immigrate in hopes of a better life in a country rich in natural resources. Cardinal's own signature is on this building as well, with his forms grounded in nature. He also draws comparison to the European style architecture that was given a Canadian context, like the museum's former home the Victoria Memorial Museum, which included native plants and animals in its sculptural program. Canadians are also evolving, and the country is becoming a world power. Douglas Cardinal conceived the museum as a monument to man's achievements in Canada, and the great strides yet to come.

And the Canadian Museum of History is that - a monument. The project was a collaboration of Douglas Cardinal Architect, and the Montreal Firm of Tétreault, Parent, Languedoc et Associés Inc. The forms used are characteristically Cardinal, with few straight lines and large undulating sculpted shells that could only be possible with computeraided design software. Speaking to the design proposal, four natural features of the Canadian landscape are represented in the Museum's form: the Canadian Shield, the glaciers, the streams formed by the receding glaciers, and the Great Plains. The sculptural forms of the Canadian Shield are found in the curatorial building, the cantilevered structure undulating like the bedrock of the shield, with each floor overhanging or receding compared to the one below. The glaciers are shown in the public display wing, with the huge wall of glass giving the impression of ice, and the sculptural forms of the mullions are an interpretation of a glacier. The streams created by the receding glaciers are shown in the watercourse that flows between the two wings, and is used for public events like Canada Day celebrations. And the Great Plains are represented in the plaza in front of the Museum. Collections are stored and catalogued in the curatorial wing, which was designed as a sort of skin principle, with the outer layer of offices protecting the inner artifact stor-

age rooms. The construction materials came from all over Canada, like the granite coming from Quebec, and the Tyndall limestone from Winnipeg. A large amount of steel was used for the load bearing structure, and concrete for the walls and floors because of its versatility. Copper was used to cover the roofs of the domes, which will eventually oxidize and look like the copper used on Parliament and other significant buildings. Limestone was chosen for the exterior because it was better able to match the curve of the building and requires less maintenance than brick, and is adorned with shapes of fossils on display at the museum. On the interior, much of the walls and floors are left blank to display the art, but on the interior of the Great Hall, a dome shows the painting Morning Star, by Native artist Alex Janvier. The Canadian Museum of History also includes an Imax theatre, two theatres for the performing arts, the Grand Hall that contains totem poles and full size replicas of west coast Aboriginal Homes. Canada Hall is the second largest hall, containing 1000 years of Canadian History, and the First People's Hall, which contains permanent exhibitions on the art, traditions, and history of Canada's First People's. The Canadian Museum of History also has five large galleries for temporary and travelling exhibitions. The building also ties into Douglas Cardinal's belief in sustainability, heating and cooling the building by using water from the Ottawa River, and the bulbous columns of the Great Hall provide exterior shading and contain the HVAC and lighting systems. The building displays Canada's history in and of itself, and is a monument to the culture and heritage of Canadians from all walks of life. The Canadian Museum of History speaks to the emergence of the land, and embodies the heritage, culture, and identity of the nation. Working with the government, craftspeople, engineers, and every part of the team, and dealing with the fast tracking of the design, Douglas Cardinal was able to design a Museum fit for the national collection. The Canadian Museum of History gives Canadians knowledge, understanding, and appreciation of events, experiences, people, and objects that reflect our shared history and identity.

7, 1934, in Calgary, Alberta. He is of Metis and Blackfoot descent, and his father was a game warden whose respect for nature greatly influenced Cardinal's work and philosophy. Cardinal attended the University of British Columbia's School of Architecture in 1953. There he received a rigid and formal Beaux-Arts education, studying the forms of classical architecture that left little room for the current modernist movement. He left after three years, and attended the University of Texas that offered a more intellectually open program that allowed him to explore the styles and interpretations of modernism. Cardinal graduated with honours in 1963, and moved to Edmonton to explore the ideas of modernism in a Canadian context. His philosophy is that architecture is tied into nature, and the organic, curved forms he uses sort of spring from the ground seamlessly. In his early work, Cardinal was greatly influenced by Antonio Gaudi, and his curvilinear and sculptural

using his signature curvilinear organic forms that attempt to capture the essence of nature, like those used in the program of the Canadian Museum of History.

Sitting on Laurier street overlooking the Ottawa River and Parliament, the Canadian Museum of History covers 24 acres, with a footprint of 100 000 square meters. The design proposal for the Museum of Man, written by Douglas Cardinal and presented with the drawings for the museum, described the aesthetic concept of the building. He sought to embody the idea of national identity for Canadians, not only those native to the land, but also those who have come from all different cultures. Cardinal, using the sculptural forms he is famous for, desired to create forms that embodied the essence of the nation - the land. In the proposal, he spoke of the ocean giving way to the mountains, then the plains and soils, and the receding glaciers that created the rivers and lakes that

6

FUN FACT: IT WAS ALSO THE FORMER HOME OF THE CANADIAN POSTAL MUSEUM

COLUMNS

"OH, GOD. FORTUNE VOMITS ON MY EIDERDOWN ONCE MORE"



RETRO REVIEW



Don Jackson - CIVE II -

Welcome to 2015. As one semester ends with the year another begins, and so what is old is once again new. Things have a way of repeating themselves over time and Hollywood is no exception. This month I bring you a short review of some of Hollywood's take-two. Some well done, oth-

after throwing a criminal into a freezer "Thank you for your cooperation." Beyond the oneliners, the characters were more tangle-able, you can feel Murphy's love for his kid in everything he, including imitating his son's favourite TV character buy twirling his gun. Even ED-209 was a better character in the original. The remake attempted to connect the story line to current events, by including current world conflicts and soldiers getting high tech artificial limbs; however. The connection to today's conflicts was the movie's last step in reality before launching itself into a universe of absurdities. Yes, this film was far more unbelievable than an original made 17 years prior in the eighties. If you've never seen the original you may find the remake entertaining, but if you have you will find its twisted tail distracting. Finally, released about the same time as the original and remake of Robocop, I bring you Total Recall (1990 and 2012). Once again the characters story and over all feel of the movie are completely different, but pleasantly so. The original 1990 movie with Arnold Schwarzenegger, was a Sci-Fi romp on Mars full of intrigue, plot twists, mutated humans and alien conspiracies. A double agent, Arnold had his original personality wiped and a fake one put in so that he could infiltrate some rebel colonist on Mars; however, a quick trip to a virtual vacation center where they artificially place memories in your head, triggered a psychotic event sparking the whole film. As with all films starring Arnold, Total Recall had its fill of one liners. After

shooting his wife, who was actually a spy, Arnold's character Douglas Quaid says, "Consider that a divorce." Filled with campy special effects, exploding heads, and bad one liners, the original Total Recall is one of life's guilty pleasures. But here is where Hollywood got it right. The remake was closer to the original book, the storyline still contained the element of personality implant but the story remained more grounded in reality. Still filled with espionage, intrigue and conspiracies the film took a more James Bond or Jason Bourne approach. Because of this, although a remake, the films are



So this year, I didn't see enough movies to really make top or bottom lists. But it's a new year, and I am a self-appointed movie reviewer for this publication (mostly because for me to review a TV show, I'd need the whole newspaper), so I feel obligated to do something 2014 in retrospective related.

5 Best Movies

5. The Lego Movie - What the hell weird series of events led to the creation of this movie? And why is it smarter than nearly everything else this year? This is the most self aware movie I've ever seen. Instead of only using pop culture references (there are plenty of those), it opts to reference, parody, and up end more general tropes poking fun at movies and storytelling as a whole. Combined with the stunning animation and the 'awesome' soundtrack this is probably the most memorable film of the year.

4. 300 Rise Of An Empire -Who'd've thought 7 years after the original, they could make a sequel/prequel/midquel, and have it be comparable to the original. The fighting's now at sea, still just as awesome, there's more story this time, and Eva Green's portrayal of Artemisia as the villain is fantastic. Despite having a very similar story and premise as the original, its different viewpoints succeeded in making sure this didn't feel like a simple retread of the same material. 3. Guardians Of The Galaxy - There seems to be a theme developing here. Generally I'm not one who goes simply for the mindless action-comedies (though clearly I have some appreciation of them). This movie is the absolute pinnacle of said category taking the more obscure aspects of the Marvel Universe creating a comedic pseudo space opera leaving the audience thinking "I don't know what I'm watching, but it's awesome." It's the most easily accessible marvel movie simply because it's the one where full understanding of the backstories is least required all the while having Easter Eggs galore for hardcore fans out there. 2. How To Train Your Dragon 2 - Leave it to a Dreamworks kids movie to make an action movie with heart. What sets this film apart is how much in one fell swoop it progresses the story.

Hiccup is now older (complete with voice change), dragons are fully integrated into the society, and the village is expanding due to new exploration capabilities. And finally the story, while still being simple, is not the one you're expecting with an ending that while still happy is somewhat bleaker than the previous one giving it a more adult feel.

1. Captain America - I already talked about this in my Marvel gushing. This movie caught me by surprise with its darker tone as all the marvel movies thus far have been fairly light in overall tone as a possible backlash to the oversaturated Dark Knight inspired films and Captain America is one of the most ethically simple characters out there. I was not expecting a spy thriller. Yet Captain America is exactly what was needed as a nice juxtaposition to this morally ambiguous world. Also this movie proves that Black Widow is more than just eye candy and deserves her own movie.

5 Worst Movies

5. Divergent - This movie wants so hard to be the hunger games but doesn't have the intelligence to make a subtle allegory nor a distinct intricately designed dystopia and so settles for somewhere in the middle. The Hunger Games was modeled after ancient Rome and its surrounding provinces and satirizes our obsession with reality TV, Divergent is modeled after High School Cliques and satirizes the SATs. It's dull as a character piece, boring as an action movie, and not immersive enough for anything else. 4. Exodus - *Spoiler* God may have been hallucinated by Moses and all the plagues and miracles may have been coincidental natural events. All the characters are boring, the familial drama is rushed and uninteresting, and it doesn't even make sense why Moses believes his own hallucinations. The only interesting thing that happens is Moses trying to lead a guerilla war against Ramesses which is stopped by God, because it'll take too long despite God waiting 400 years to do anything. It felt like a series of amazing visuals loosely strung together not unlike a Michael Bay film moving between action scenes. Yes, Ridley Scott, I went there.

Well, Andrew Garfield is more likeable as Spiderman this time. And the villain isn't in some way schizophrenic, but instead just kinda throws a temper tantrum. The story isn't cohesive, there're conspiracies thrown in involving Parker's parents for no reason, and Rhino barely does anything. And then there's the supposed big emotional gut punch at the end. For me it was both infuriating because it was so heavily foreshadowed to be obvious (and easily predicted in the trailers not to mention any familiarity with a 1973 comic) and still effective in that it was the only thing in this franchise I actually cared about despite being handled terribly.

2. The Legend Of Hercules - This was the most lazily made movie I saw this year. Exodus, bad as it was, at least was trying something, this movie was about as generic as you can get. Let's exile Hercules so his brother can marry his true love against her will and he must come back stop all this. There is nothing redeeming about this movie.

1. Teenage Mutant Ninja Turtles - Oh god, if you thought Transformers was bad, this was agony. Why is Megan Fox April O'Neil? Why do the turtles look ugly as hell? Why doesn't the foot clan practice ninjitsu? Why don't the police react to the foot clan's attacks? There are so many problems with this movie it's hard to fathom. There aren't characters so much as stereotypes, the plot is god awful, and in addition to there being nothing redeeming about this movie, it blatantly insults the source material it comes from.

ers not so well done.

To begin I give you Flight of the Phoenix originally released in 1965 then redone in 2004. Stranded in the desert after a plane crash, a small group of strangers have to find a way to survive the elements, raiders, and each other. While the remake wasn't overly bad, the original film had feeling and intrigue surrounding certain characters that the remake lacked. However, either film is certainly a must watch for any aspiring engineer, as it demonstrates what you can do with just about any material once you break from its paradigm. Think Carleton Engineering Competition. Next I'll give you one of my favourites, Robocop.

First released in 1987 then again in 2014, Robocop centers on a crime riddled Detroit and OCP's program to eliminate it. This is one where the original was far better than the remake. The 1987 version had classic one liners typical of 1980 films, such as "Dead or alive your coming with me" or essentially two completely different storylines that can both be enjoyed for different reasons.

Lately, there has been a number of remakes from different genres. You may have seen Judge Dredd or Nightmare on Elm St. I would encourage you to see the originals. Judge Dredd (a comic book to movie) for the same humour and campiness found in the original Total Recall, and Nightmare on Elm St. for the iconic character Freddy Krueger best played by Robert Englund in the original. Similarly, (while not exactly remakes), try some takes on Charles Dickens' A Christmas Carol. As an example, An American Christmas Carol starring Henry Winkler, is set in the 1930 depression era, or perhaps something more modern such as Scrooged starring Bill Murray as a big time network director. Or if you prefer something completely different, give Rowan Atkinson's reversed Blackadder's Christmas Carol a viewing.

3. The Amazing Spiderman 2 - It's better than the last one, kinda.

Dishonourable Mention

God's Not Dead - This movie shows all the stereotypes of a Christian trying to understand an Atheist's point of view almost to the point caricature. It's framing device being a University debate; I'm not sure if it's meant to try convert people. I can say that despite making a few points in the debate that some might not have considered before, the film shows such a lack of understanding of any prospective converts that at best all it can hope for is to reel back anyone who was on the fence about leaving. It's horribly simplistic nature may bring comfort confirming some people's pre-existing beliefs, but to anyone else, it's simply not worth your time.

"I WILL RETURN BEFORE YOU CAN SAY 'ANTIDISESTABLISHMENTARIANISM'."



THAT TESLA ... SO ELECTRIC ... SO SHINY ... SO ... PRECIOUS



















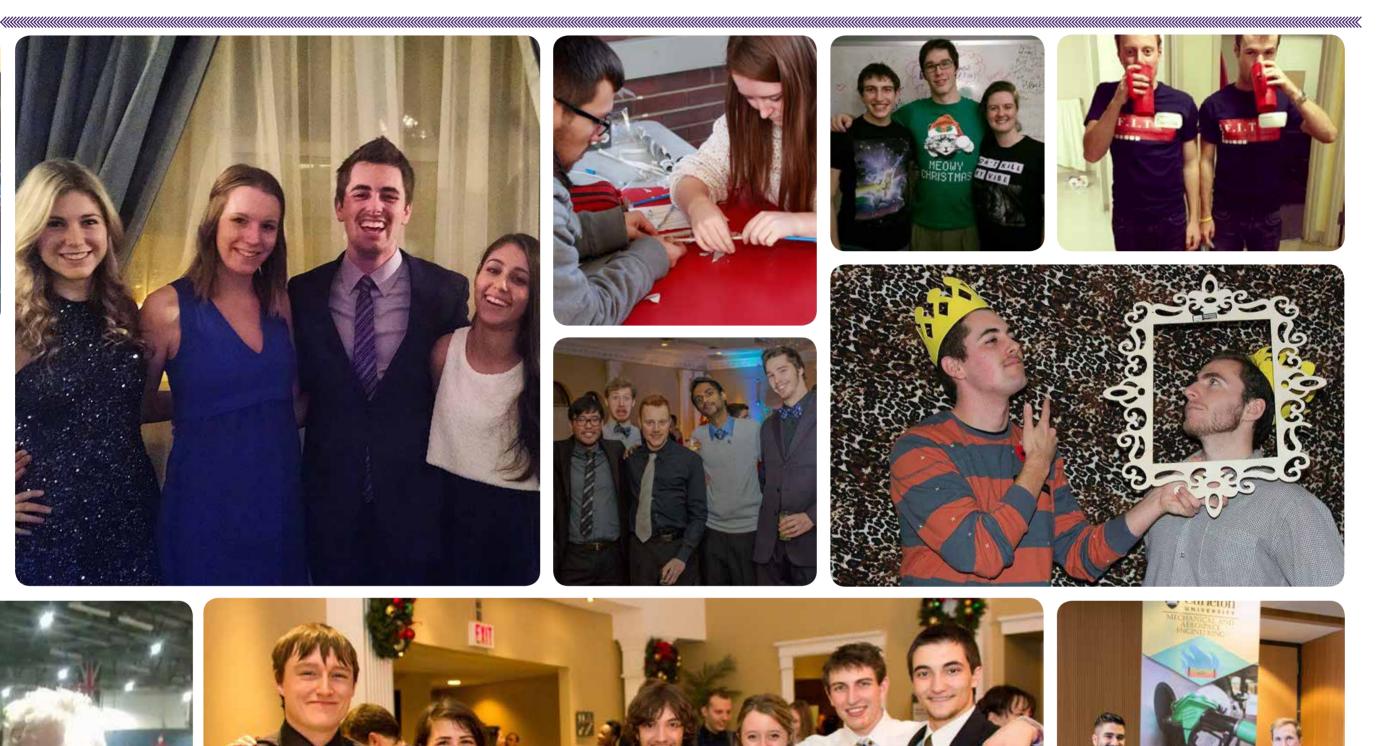




FLIGHTSUITS: GOOD FOR SKIDS, NOT SO GOOD FOR SKID MARKS



JAKE: THE SWAGGER IS STRONG WITH THAT ONE









HNGV: THAT'S THE SOUND THOSE GUYS MAKE WHEN HEARING "I'M LEAKING GAS"



FEBRUARY: ALL OF THE FEELS, NONE OF THE DEALS ON CHOCOLATE

Albums of 2014



Owen Maxwell - JOUR III -

10. Jack White – Lazaretto Jack White can really do no wrong at this point. Even though his newest album seems more country-tinged than garage rock, his gritty attitude still shines through. His weird vocal style and hard lyricism is as potent as ever too.

Listen to: Lazaretto, Three Women, High Ball Stepper

9. Tony Bennett & Lady Gaga **Cheek To Cheek**

For the sceptics out there, Lady Gaga can really sing, and is way more talented than most give her credit. This album of jazz standards with legend Tony Bennett, is as easy to listen to as



Listen to: Choker, Killer Bangs, Fall Forever

6. Temples – *Sun Structures* Temples debut album fells like a tour through psych-rocks history, covering the sounds of Deep Purple, The Guess Who, T. Rex and tons more, every song feels familiar but new at the same time. If you like your music a little mystical Temples fit the bill. Listen To: Mesmerize, Keep In The Dark, Colours To Life

rock scene. Alvvays are Canada's dark equivalent to Best Coast and their songs are even deeper, filled with synth and instrumentation that feels perfectly balanced in every song. The whole thing is topped off with Molly Rankin's vocals (Daughter of a Rankin Family singer), that push the album over the top by entrancing you.

Listen To: Archie, Marry Me,



Jasmine "404" Shaw - BMED III -

Week is a student-run, weeklong campaign to help promote Leo's, and even online! With ticipate (or volunteer!) to show mental health awareness across campus, and particularly in the Faculty of Engineering. We also strive to alleviate stress induced every single one of you par-

by midterms, through a multitude of fun and relaxing activities. Another resolution we have is to raise \$500 for a mental health charity of your choice! Voting for this cause will be available through the CSES website as well as various social media outlets.

FEBRUARY

Donations will be ac-February Feel Good cepted in various locations, namely in the CSES office, activities that will be sure to cater to a variety of interests, I personally hope to see each and



D WEEK

that engineers care, and that together we can make a difference in changing the face of mental health.



Every country has a used by the University to repre- and his work has created a solid flag, every medieval family had sent the Faculty of Engineering foundation for everything that and Design. Obviously, we'd a crest, and every event needs we do today. a logo. Carleton's National like to be purple, but hey, if you Gears and Cogs: Like the can't hear us in a big crowd, at Engineering Week is no differmembers of a team, the gears ent. For this years event, we, least you'll be able to spot us. of a machine all need to work and by we, we mean Michelle **Green:** National Engineering together in unison in order for Davis, has created an amazing Month (NEM), is an organizaa project to get done, or a mation that helps coordinate as logo that combines numerous chine to work properly. Gears, different aspects of our Engiwell as provide funding to other a part of the inner workings of neering community all together, organizations and societies dura machine, also help to relate to to create a logo that represents ing the month of March, in orthe design and technical process der to help promote Engineerwhat Carleton Engineering is all associated with Engineering. about! ing to the general public. They Molecular Structure: There is Colours use the colour green. a whole lot more to Engineering Red: The red represents Carthan just Math problems. The Symbols molecular structure is the basis **Trigonometry:** Throughout for everything, both within Sciall Math, Science, and Nature, ence and Engineering, but also the basic trigonometric properwithin our daily lives.

it is to dance to. The duets are great and the slow jams really show how great Gaga's range really is. Definitely one you can enjoy with your parents.

Listen to: It Don't Mean A Thing, Anything Goes, Bang Bang

8. Ty Segall – Manipulator Most have probably never heard of Segall, despite his 50+ recording credits outside of his solo albums, but the man is an unknown virtuoso. This album jumps from psychedelic hard rock to Beatles-esque and the guitar work is flawless. If you're into retro-rock, check this out.

Listen To: Susie Thumb, The Singer, The Feels

7. Honeyblood – Honeyblood Scotland is basically the Seattle of Europe, and from the sounds of it, Honeyblood might just be their Nirvana. Their debut is full of grunge-heavy songs with Paramore-like vocals and lyrics that cut close. The songs are heavy, fast and gritty, so if that's your thing, they'll do the trick.

5. Cold Beat - Over Me

San Francisco's Cold Beat Despite a personal love for seems to be the stateside equivalent of Metric, but with a more visual style of writing. Many songs are fast and party rock flavoured but the rest are dark, sometimes electronic and often evoke mental images similar to some Muse albums.

Listen to: Rain, UV, Rumors

4. Mac Demarco – Salad Days The clown king of Canadian music, Mac Demarco, released another gem this year. Most of his songs are catchy, yet goofy as ever as the title track "Salad Days" shows but deeper, synthfilled tracks give the album a more serious feel that give it its potency.

> Listen to: Salad Days, Chamber Of Reflection, **Passing Out Pieces**

3. Alvvays – Alvvays Toronto may have just given birth to Canada's serious surfNext Of Kin, Atop A Cake, Adult Diversion

2. Olivia Jean -**Bathtub Love Killings**

Jack White, his protégé Olivia Jean released a much better, and more Jack White-esque album this year. Jean recorded almost every instrument on every track, and the album is littered with riff after riff. Even the slow songs are written and toned enough to keep them from being forgotten.

Listen to: Reminisce, Green Honeycreeper, Merry Widow

1. Ex Hex - Rips

Ex Hex mixed rock genres like nothing else this year. Featuring Riot Grrrl veteran, Mary Timony, fresh from the breakup of Wild Flag, her writing is at its peak. The song mixes Riot Grrrl, The Cars and The Ramones for a rock album perfectly marrying old and new.

Listen to: Waterfall, Hot and Cold, Don't Wanna Lose, You Fell Apart

leton, the school that we are proud to call our home. **Purple:** The colour commonly associated with engineering, purple is a strong colour used by engineering schools and societies all across Canada. The origin of the tradition is often debated, but one popular story is that while the Titanic was sinking, the purple-clad Marine Engineers remained on-board the ship to help delay it's sinking, and save as many lives as possible.

Yellow-Orange: Here at Carle-

ties that we learn early in our education are ever present, and always find a way to show up. They help to form the basis for all that tricky Math homework you should probably be doing right now, and without them, we might still be throwing rocks at a cave wall.

DaVinci's Drawings: One of the greatest human minds and inventors of man kind, Leonarton, yellow-orange is the colour do da Vinci was a brilliant mind

The Iron Ring

The Iron Ring is a well-known tradition within Canadian Engineering. Intended to act as a reminder for all Engineers to always follow proper practice and ethics within their work, the Iron Ring is used to enclose our four colours and symbols, bringing all the components of Engineering together.

Continued >>



KEEP AN EYE OUT FOR A BIG N.E.W. SPREAD NEXT WEEK

STEP QUIETLY, AND CARRY AN AVERAGE LENGTH STICK



The Art of Dating a Member of the Vagina Monologues Miriam "Vulvasaurus" White - LIT IV -

You may wonder why the Vulvasaurus is giving advice on how to date a member of the Vagina Monologues Cast and Crew, or you may already have guessed the connection. My call sign is derived from my involvement with this production. I happen to be one of the two directors of the show last year, and this year: an actor, which is a thrill of its own.

Although I am writing this about Vagina Monologue Actors specifically, the advice is good for *hopefully* all human beings.

Number one: RE-SPECT. You should be able to talk the talk and walk the walk. If you can sing Aretha Franklin (She wrote the Song R.E.S.P.E.C.T) you are off to a good start but unless you can walk the walk, you won't get anywhere with us (note: you do not actually need to be able to walk). And we will avidly dissuade others from putting up siasm. with your disrespect.

should be in favour of equality. If you are not interested in all people (all genders, races, sexual orientations, religions, abilities, etc) having equal access to education and jobs, equal pay, equality in the bedroom, equality in housekeeping, equality in life, then you really have no business trying to date anyone.

Number three: You'd best be a fan of vaginas. We love to talk about vaginas, we like to promote gender equality. If you can't handle hearing the word "Vagina" then you best think hard about where you came from and why you are ashamed or secretive or bashful when if comes to Vagina talk. Vaginas are an integral part of the reproductive system and without them we would not exist. So get over it, or certainly don't try dating someone in the cast or crew... cause we talk about Vaginas openly, loudly, constantly and with great enthu-

Number four: You need Number two: You to love stories. We love stories.



CULPABLE CANOODLING

We love hearing others' stories. We love telling stories. We love reading stories. We love stories. We see stories as a way to empower ourselves and others. Stories help us to know that we are not alone, although our experiences are our own, we are not alone.

Number five: orientation.

Avoid are amazing cooks, bakers, you making generalizations about name it. You better believe that gender, race, religions, sexual if you are making generaliza-Generalizations, tions you are digging a hole for like: "All women should be in yourself. We tend to disagree the kitchen" or "All Christians with 99.999 percent of generare Extremists" are bound to be alizations. If you make a statefalse. Some women hate being ment like: "all humans deserve in the kitchen, while some men to be treated with dignity and

respect" then you'll be alright.

Number six: You need to be supportive. Like a good bra you need to be a support for your vagina advocate, as they are sure to be following their passions no matter how stressful.

Number seven: CON-SENT. In all things. In any relationship, CONSENT is a must.

TL-DNR

The keys to datng a Vagina Monologues Cast or Crew member are:

RESPECT EQUALITY VAGINAS **STORIES** NO GENERALIZATIONS **SUPPORTIVE** CONSENT

And to conclude here is your literature pick-up line for today:

Having you in my life would be a real albatross off my neck.

YOUR RES FELLOW WOULD LIKE A WORD

The Gong

The Gong is used to represent the Carleton Student Engineering Society, but also Carleton Engineering as a whole. The use of the gong within the logo helps set our logo apart from others, linking National Engineering Week with not only CSES, but Carleton as a whole.

This logo is set to be the official logo of Carleton's 2015 National Engineering Week, and with proper planning and execution, it will stand as a symbol of Engineering pride and celebration, long after we have all gone our separate ways.

Patches have been ordered and will be available in CSES shortly! Make sure to keep your eyes and ears open, as there is still a full range of announcements to come.



Rebecca Feddema - ACSE II -

Whether you are new to Carleton, have just completed your first semester, or are a seasoned veteran of the residence system, chances are you do not know the full extent of the resources in residence.

Did you know that Carleton's Housing services holds hundreds of events every year for you guys! And can I just mention that you are welcome to attend events even if you don't live in residence. If you think about it, you have a pretty good deal. You are living in a complex full of other students



and you also have a herd of Carleton employees at your disposal to help better your experience in residence.

Also your residence fellows are cool cats! Cough cough, totally not biased, cough cough. At Carleton there are 11 residences, over 70 residence fellows, and each res fellow is acquainted with every student on their floor. Therefore if you are having trouble with an as-

signment, if you are looking for a study buddy, even if you just need someone to watch the with, chances are your res fellow knows how to get in touch with someone. Yay connections and making friends!

your residence fellows hold events every month and they have a budget specifically for financing events for your floor?

The only trouble is that some floors can be a little apathetic in the realm of social interactions. latest episode of Doctor Who I'm looking at you upper year students and dedicated academics. So...Talk to your residence fellows! We like human interaction. We like to know what's go-And did you know that ing on and what's going down. We also like suggestions as to what you want to do with your floor! Even if you have no in-

terest in being involved on your floor and no interest in participating in events, say hi to your residence fellow every once in a while, we like to know you are still alive and well. And while we are on the topic of you res fellows, let me just remind you that res fellows are not out to get you or ruin your fun. Just ensure that your fun is safe does not disrupt anyone else and we shall get along fine. Remember some of us did not do so well in class this past semester and have some serious GPA boosting to do. Let's start this new semester off right

Oh, and just a reminder that you might want to start thinking about your housing situation for next year, residence is not forever you know. Carleton's housing services has resources for finding off campus housing for September.

THE ONLY THING RESFELLOWS LOVE MORE THAN THEIR FLOOR: 3AM FIRE ALARMS

I CAN HEAR THE STEELTOED BOOTS PRANCING

THE MOST WONDERFUL TIME OF THE YEAR

"Qubit"	"Screech"	"AIA"	"Bubbilicious"
- AERO -	- CIVE -	- CIVE -	- CIVE -

Every year there is a magical time of year. A crisp comes along with the cool morning air, and you start to see your breath. Hands are actually covered in work gloves, and layers get thicker and more numerous. After the birds fly south, and everyone takes their week off to hunt, it's winter. This changes the whole dynamic of a construction site, and as a young'un you get some extra respect for each winter you work. If its not painfully obvious, here are some signs that it's winter on your construction site.

YOU KNOW IT'S WINTER WHEN...

- ... you start pouring concrete
- ... there is more sand/gravel on the ground than a beach
- ... paperwork is suddenly more important than field work
- ... your most important sub is now the diesel guy
- ... you start growing moustaches for the icicles
- ... there's snowmobiles in the parking lot
- ... there's actually cars in the parking lot, 'cause the wife only felt safe driving the truck in the snow
- ... every truck has a sled in it
- ... you spend more on tarps and propane than anything else
- ... your carpenters turn into tarpenters
- ... everyone takes a turn clearing snow
- ... everyone cashes in on their clothing allowance
- ... the companies with big \$\$\$ have the boot guy show up and everyone onsite acts like they deserve a pair too
- ... the new guys on site keep asking who "Herman Nelson" is
- ... parking lots magically fit half as many cars
- ... you start your day with 2 hours of dark and finish with 2 hours of dark on a 10 hour shift
- ... you spend all your labour allowance on sanding and checking heaters
- ... you start writing guys up for stealing the power cords to your glycol heaters
- ... your dumpsters are overflowing because your waste removal contractor is too busy doing snow removal
- ... they bring washrooms with actual running water to site
- ... and don't have the extra power to run those washrooms for a month
- ... everyone's excuse for being late is their Christmas party was last night
- ... you get excited over an insulated Portapotty (aka piss sauna)
- ... it's so cold you have to look at your last paystub to remind you why you do this shit
- ... having the oldest truck on site is suddenly the best cause it has remote start
- ... you learn to accept death by car crash cause Discount won't give you snow tires



PISS SAUNA? SOUNDS KINKY.



CARLETON STUDENT ENGINEERING SOCIETY



Alexander's Office 2090 Minto Case

www.cses.carleton.ca



@MyCSES

WHAT IS CSES ?

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

ITS GOAL IS TO PROVIDE ITS MEMBERS WITH ACADEM-IC, 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



Hey C-Eng! I hope your winter break was as relaxing as mine was! Leather Jackets are in! If you haven't picked yours up already do so soon. Hopefully you have noticed by now the "EngHub" feedback form and have given us some feedback! We will be reviewing the feedback this month and working on the next iteration of the ME 3300 block. Also for those who don't like the name "EngHub" this is by no means finalized and we will be looking for ideas from you shortly so look out for that!

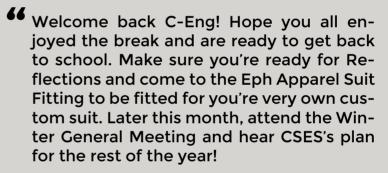
44 Happy New Year, CEng! After such an eventful semester, I've got quite the to-do list ahead of me. We've got two more quarters of taxes to work through (fine-tuning our tax policy) and we'll be giving out funds for Winter Student Group Funding. I'll be working closely with my Finance Director, Justine, to compile comprehensive digital records moving into the end of the year. Makin' money, eatin' honey. #WinnieThePooh

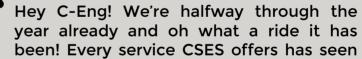






Welcome back to a new and exciting semester! I'm sure you missed our events during exams, so I'm very happy to announce that January will be JAM-PACKED! First up we have EngFrosh Reunion 2.0, a 67's game at TD Place (January 16th); there will also be another comedy night at Yuk Yuks; and to wrap up the month on the 30th, we will be hosting (in conjunction with the C-Eng Musical) a HIGH FASHION/ talent show! Stay tuned for more details!





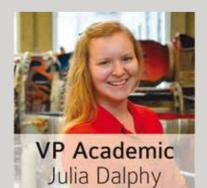


Welcome back to Ottawa er'body! With a new semester I have some major goals for the rest of my term that include, aside from publishing four issues of the Iron Times this term, creating a brand new phone app for the Passport and improving and expanding upon the newly created ad department within CSES! If anyone is interested in either don't hesitate to contact me via email, text, phone call or however, for more details!

great development this year, especially Leo's, and this will continue into the New Year. The textbook trade is running again so come by and see what's available. Also, keep an eye out for new EngWear items! Cheers, C-Eng!



THANK YOU C-ENG!! Together, we raised over \$3000 in our annual Movember campaign! You da bes ;) This January I will be travelling to the CFES Congress to work with students across the country to make engineering students' lives better through this national organization. As well, I will be heading to Sudbury with 12 First Year delegates to the First Year Integration Conference to give them a taste of ESSCO and what groups like CSES do to better their local communities.



Welcome back to a new semester, C-Eng! We have officially wrapped up the Carleton Design Competition! We have winners in all categories, and OEC Training is in session in preparation for provincials in February! National Engineering Week planning is in full swing- check out our awesome spread for the plan and stay tuned for swag! Within the next month we will be distributing the Academic Survey (via inclass distribution) to all undergrad engineers, so be ready to give us your honest feedback on that. The goal of the Survey is to gage and improve YOUR academic undergrad experience. Lastly, please continue to voice any academic concerns for me to address to concerns@cses. carleton.ca.

WANT TO GET INVOLVED?

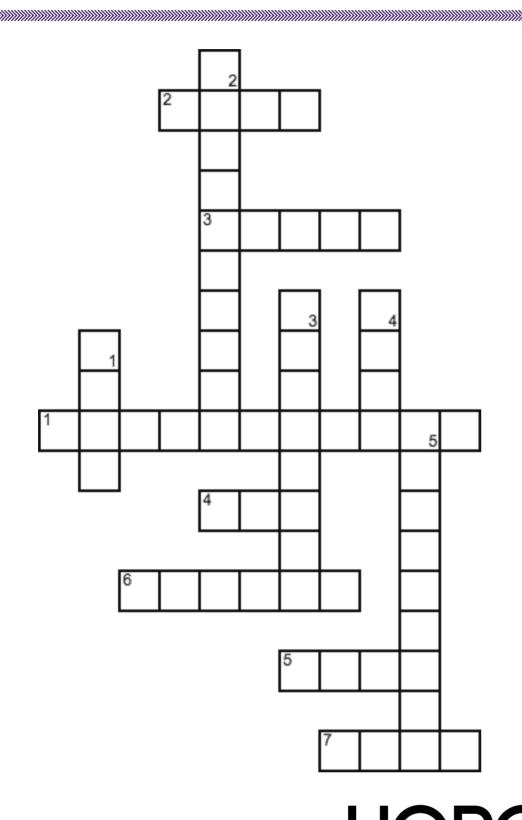
JUST TALK TO ANYONE INVOLVED IN CSES, OR FIRE OFF A MESSAGE! EVERYTHING FROM DIRECTORSHIPS, TO EVENT PLANNING, VOLUNTEERING AT LEO'S LOUNGE, OR JUST SHOWING UP TO EVENTS. IT ALL PLAYS AN IMPORTANT ROLE IN MAKING ENGINEERING YOUR FAMILY AWAY FROM HOME, AND EVEN MORE IMPORTANT THAN FAMILY: EVERYTHING COUNTS FOR FLIGHTSUIT STAMPS.

THAT ENGHUB BETTER INCLUDE A HOLODECK



DISTRACTIONS

THIS MONTH'S CROSSWORD BROUGHT TO YOU NEAR THE GLASS TRANSITION POINT



Across

- 1. weather marketing term for COLD
- 2. Increases traction, tends to get everywhere
- 3. Below zero
- 4. Hard and cold
- 5. Its bad when things get wet
- 6. Used to clear snow, not a plow
- 7. Orange, prevents things being buried

Down

- 1. Cold and white
- 2. Brand of heater, also an amphibian
- 3. Common fuel for heaters
- 4. Melts things, but MOE doesnt like it
- 5. digs holes, pulls out stuck machine
- 4. ice 5. melt

5. excavator

snow
kerosene
kerosene

nwod

7. tarp

6. blower

- 2. sand 3. minus
- 1. polarvortex
 - Across



ARIES

You will realise that everyone around you is a dickhead, right before a chestburster explodes out of your nose.



TAURUS

INSPIRED BY THE HUMAN CENTIPEDE, YOU WILL EMBARK ON AN ENDEAVOUR TO CREATE THE HUMAN BUFFALO.



GEMINI

You are a quick and intelligent thinker, but people may start to question your sexuality. Especially after the lamb incident.



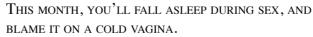
CANCER

You will always keep putting things off, because there is no way you'll be turning them on.



You'll try and become a leader, but it will only end with you sobbing into a pint of the cheapest beer your friend could find.







FROM A TRUSTED SOURCE "ALL LIBRAS DIE OF VE-NEREAL DISEASE".



SCORPIO

As the planets align this month, you'll learn why Scorpio's have the highest murder rate of any star-sign.



SAGITTARIUS

NIXON WAS A SAGITTARIUS, YOU DRUNK WORTHLESS EARTHICAN.





You are conservative and afraid of taking risks, but Justin's hair is just so luxurious. Seriously, it's like a beaver pelt.



AQUARIUS

You will repeat a past mistake right before an important assignment. Your best friend will laugh, and then pee a little.



PISCES

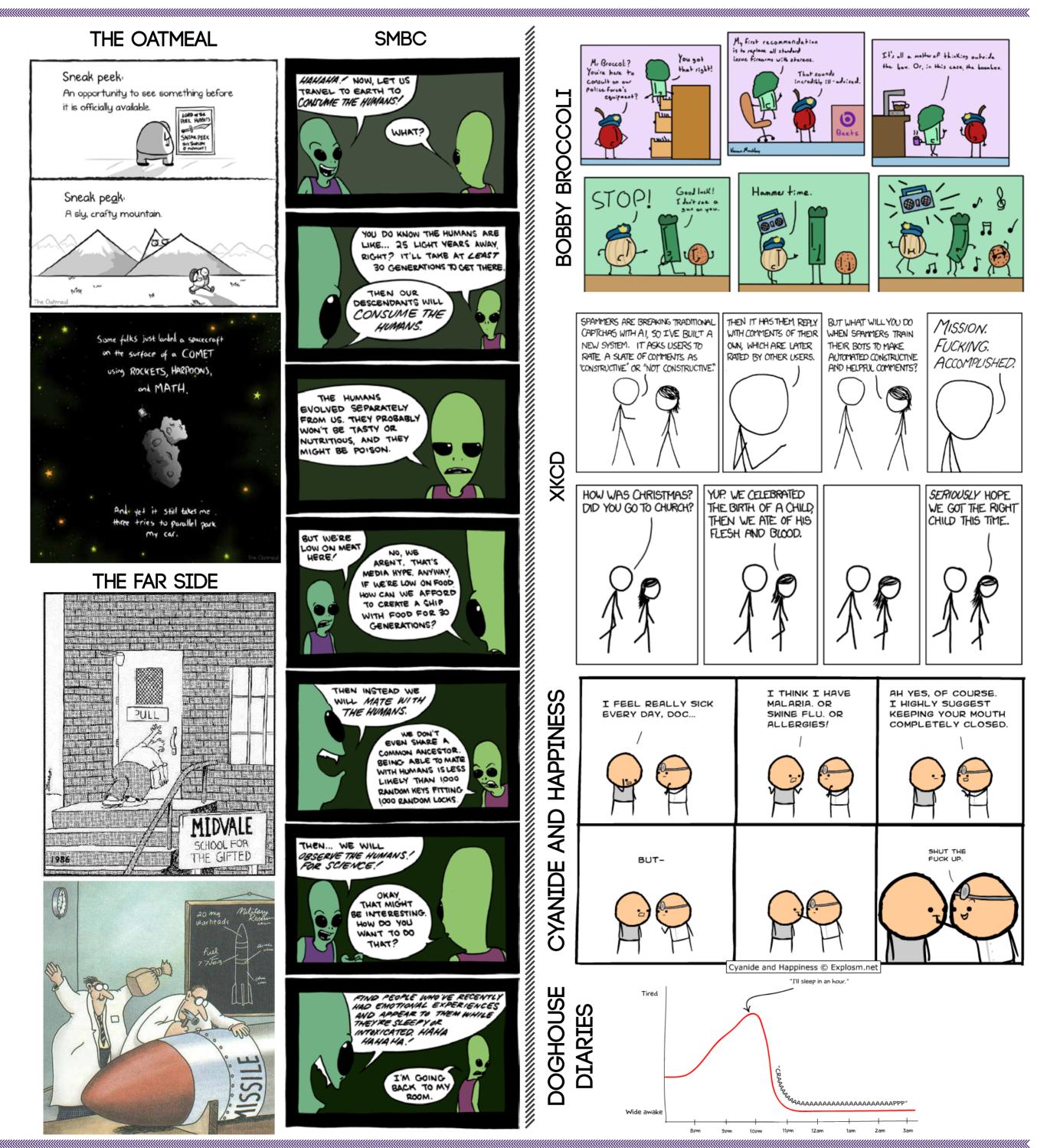
You have a vivid imagination, but that doesn't mean that your toaster is in to you.



JUST LIKE THE OLD GYPSY WOMAN SAID

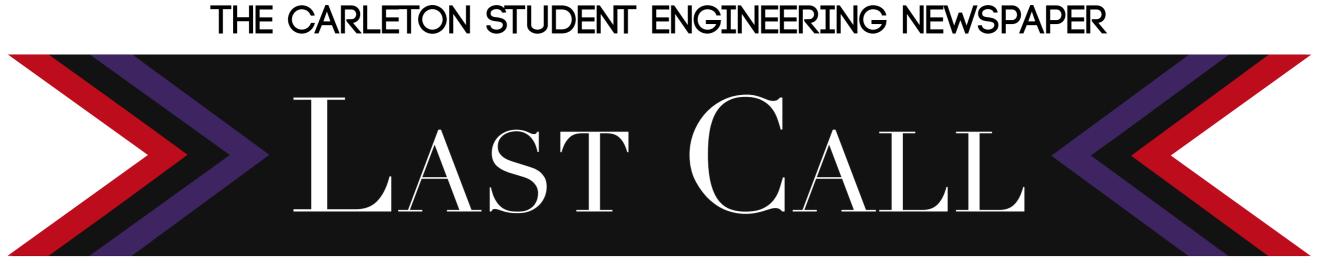
DISTRACTIONS

I LIKE TO READ ALL THE COMICS IN ORDER, ASSUMING CONTINUITY

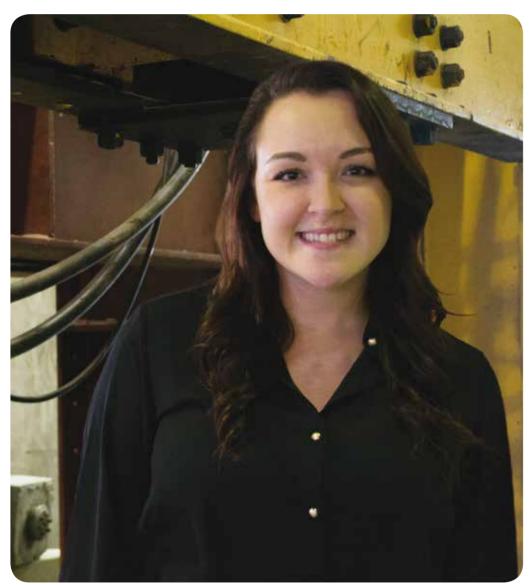


SHOWN BOTTOM LEFT IS HOW I WANT TO DIE.





SNEAKY, SNEAKY HYDRAULIC PRESS



THE IRON LADY HAILEY QUIQUERO - ACSE III -

Hometown/background: The Dirty 'Shwa Reppin' CENG Involvement: GNCTR Captain

Your Inspiration: That little girl that wrote a letter to Lego saying that the girl toys shouldn't just all be pink and be about staying at home working and putting on makeup!!!

Advice for your older self: Read the Grumpy Cat book and follow advice on hating the world #futureHaileyproblems Battle-cry: Please see Disney's Tarzan

Favourite class/why? Design Economics because we got to do a hypothetical project which really prepared us for real world applications in the field of commercial development!!

Favourite prof/why? Jeff Erochko because he is simply amazing If you could choose one goal in life, what would it be?

To be a mermaid... or Beyonce Who would you choose to be your mentor? Groot One skill you wish you could learn? Winking How lucky are you? About as lucky as Daft Punk If you were a pizza deliveryman how would you benefit from scissors? Self-Defense, better tips, on-the-go haircuts How would you get an elephant into a refrigerator? Finish the milk to make room.





The Iron Man **MATT HUNDERTMARK** - CIVE V -

Hometown/background: Ottawa



HAVE AN EVENT OR

USES FOR THE CHARLATAN

> Use to protect the floor, for when you finally drop that thun thun

> Roll into a torch and light, to fend off an onslaught of Walkers

> Roll up and smoke, if you want to see what the Arts is all about

> You can throw a few hundred into a garbage bag and make yourself an amateur footrest.

> Using a ruler, figure out the percentage of space on a given page for ads, pictures, stories and headlines. You might be surprised.

CENG Involvement: 2x Engfrosh Head, Engfrosh facil, 2x Fantasy Football Champion, GNCTR Tech-Ex Co-Captain, GNCTR Co-Captain. **First Experience with CENG:** SabrePig, nuff said

Best Idea Ever: Dipping Chicken Nuggets into your Chocolate Milkshake

Worst Idea Ever: parachuting down the stairs with a garbage bag Battle-cry: woop-woop-woop Spirit animal: Wookie

First 3 things you grab for survival after hearing the news of the beginning of the zombie apocalypse:

My trusty sidekick...Dog, Beef jerky and a hockey stick. How would you get an elephant into a refrigerator? Blend it

Advice for younger engineers: Enjoy the little things.

> Use as a floormat for wiping your dirty steel-toe boots

> Mail to the Russians for their tears, GO TEAM CANADA!!



ALCHEMISTS Connor Buott Michelle Davis Nick Dumoulin BLACKSMITHS Mitchell Brown Alice Fernandes Serita Fudlosid Vicky Madge Adam Mikolajczak Jasmine Shaw

- Footnotes -

Issue Made Possible By

5 Golden Riiiiiings

4 Dead Birds

1 Pear

3 French Maids

2 Turtles (Frozen)

To any pare

Apologies

To any parents: at least they're not writing about drugs! They are, however, almost certainly on them.



THE IRON TIMES WILL RETURN IN FEBRUARY