



THE CARLETON STUDENT ENGINEERING NEWSPAPER

THE IRON TIMES

SINK OR WIN

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OCTOBER 2014

TOO KHOOOL



FOR SCHOOL

With the end of September finally reminding us what autumn feels like, each day I get a little kick out of seeing the faces of my Frosh stroll by the CSES Office. Less than a month ago we were the howling hooligans on House Wolfsbane – just one of nine great Frosh teams this year – and just like they were my “puppies”, I was their “Wolfmother”. But

now I don’t get to see those same little snouts that built our USS Puppy-power, or played a heated Quidditch match against the Dinosaur Cult, instead I’m greeted with interested, studious people. Young people who will probably spend some sleepless nights in the ECOR 1010 labs, learn why everybody hates Glengarry, and inevitably blame

a bad quiz grade (or three) on a TA. Young people who may steamroll next year’s elections and be the new executives of CSES, who could rally a team of winners and take home a GNCTR legacy for Carleton, or may even sign a lease for what will become the next party-house of Flightsuit legends. These possibilities aren’t there for any

single Frosh team, academic stream, or social clique; they’re viable paths for any and all of the first years who’ve joined us this year. So as you’ll hear us grizzled upper years say time and time again: get out there, study hard, have fun, and leave some teeth marks.

Sincerely,

Allan Bassi

IN THIS ISSUE



KNOW YOUR CITY
PAGE 4

RETRO REVIEW
PAGE 5

LIGHTLY CULTURED
PAGE 6

THE FRESHMAN 15
PAGE 8

PUCKER UP LEGOLAS
PAGE 13

YOU KNOW YOU’RE IN
CONSTRUCTION WHEN...
PAGE 14

CIVIL BONERS
PAGE 16

AND MUCH MORE !

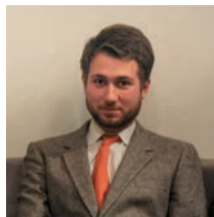


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EDITORIALS

BECAUSE SOME MEN CAN ONLY BE SATISFIED BY BUSH



Connor "Birdbath" Buott
- AERO III -

As someone who embraces technology wholeheartedly in his work, it may seem strange that I find a rather singular pleasure in the abandonment of all but the essentials for survival. Just give me food, water, shelter, and a path that takes me as far away from civilization as possible, and you will find I come alive in a way that will never be seen in a lecture or a lab.

Camping, hiking, canoeing, going ever-deeper into the pristine wilderness of Canada, nothing instils in me more energy, more vigour, more thrill or passion. When I'm staring off that cliff into the rolling glacier-carved hills of Algonquin Park, I can think of no other time when I have felt more human.

I will admit, it's possible

FROM THE DESK OF THE EDITOR INTO THE WILD

Why Camping Brings Out the Humanity in this Engineer



I've been programmed this way. Every summer since I was born, my family has gone camping. We'd pack our little silver Toyota Echo to the brim with sleeping

bags and camp stoves, aluminium plates and other miscellaneous gear all meticulously packed into red kitty litter buckets. We've never owned a cat, mind you, yet

we somehow had an abundance of these buckets.

Once my sister and I were crammed into the back seat, with a 2-foot wall of pad-

ding between us to delay the inevitable fighting, we set off on a pre-planned 2-3 week excursion. We'd do Algonquin Park at least once per summer, as well as one longer trip, sometimes to Manitoba, Vancouver or Nova Scotia. My parents had their tent, and my sister and I had ours (a leaky yellow and brown Coleman 4-man). It was always about the journey, stopping at random tourist sites (my favourite was the outdoor scarecrow museum; think wax museum but with hundreds of scarecrows). I didn't completely revoke my engineering sensibilities, however, and made sure that we also stopped in every Aviation museum from PEI to BC.

As we grew older, and my sister and I started to work in the summer, these camping trips became less and less frequent. This past summer was the first since I was born that I did not go camping with my family, as I was out in Quebec on a Co-Op work term. I did still find time to camp, tak-

ing my little tent and collapsible stove (and on occasion, my girlfriend) up into those quiet French forests, and reminded myself of what it means to be human.

For me, camping is about survival. It's about proving to nature that you have a right to exist in this world, and that you have the skills to do it. You can laugh while the storms batter your tent, leaving you cozy and dry inside. You can sigh with relief as you crest a hill, and see your destination for the night illuminated by the last rays of sunset. You can relax unconditionally against a piece of driftwood, listening to loons warble as the arms of the Milky Way begin to glitter across both the sky and the lake below.

Now, don't get me wrong, being away from the comforts of home will always have its downsides. You will wince as you peel your boots away from blisters after a long day of hiking. You will swear as you violently try to kill the horse-fly the just took a bite out of you. You will grimace as you realize that the leaves you just wiped your butt with had a little bit of poison ivy mixed in.

The beauty of nature, however, is that every success, every failure, is for either one of two reasons: either of your own stupidity, or it was an act of nature. Being out there in the wild teaches you to learn from your mistakes, but also that sometimes your fate is truly out of your control.

And that is perhaps the reason why in times of turmoil in my life, I always turn back to camping. The simplicity of it, the harshness of it, the beauty of it, being out there in nature is an incredible way to come to terms with how powerful, and at the same time how fleeting, our lives really are. And as the task of preserving our natural world becomes of ever-increasing importance, I am resolved to make sure that my children have the opportunity to explore Canada the way I did, because without a doubt, it's what made me the man than I am today.

\\SPECIFICATIONS

SPEED : MACH 3.14 (5 IF AIMING FOR BUILDING)

NET WEIGHT : 600 KEGRS +/- 4 TALLBOYS
GROSS WEIGHT : 1 ENGRSH TM +/- LOST FACIL

STEALTH : STEALTHIER THAN A FIRST-YEAR IN SLIPPERS EARNING THE TRIPLE CROSS IN THE DEANS BOARDROOM

CAPACITY : ONE MCRAE
ARMAMENT : 2 ROMNEY VARIABLE WPN. MODULES
RANGE : FROM SEA TO SEA TO +/- SEA
AGILITY : CAN DO THE KESSEL RUN PROPERLY

REFUELING : IN AIR CAPABLE, IF BOTH PILOT AND OPERATOR ARE SOBERISH

The Politimeter:
Disables systems based
on political whim

The Jeopardy HUD:
Keeps pilots focused
while patrolling arctic
wasteland

\\IT'S THE PLANE THAT CANADA DESERVES, BUT NOT THE ONE IT NEEDS RIGHT NOW

With the vast debate amongst politicians, engineers and honey-badgers over the future of the Royal Canadian Air Force, and the F-35's inability to meet those needs, or really do anything right, I humbly present an alternative to buying used American, British or Swedish tech. What Canada deserves is a fighter jet that not only meets the demanding requirements needed to protect our national sovereignty, but represents Canada as a whole. Humbly presented is the result of one crazy conversation, several beers, incredibly monotonous mechanics lectures, and one aspiring aero's obsession: **The Canadian Arrow**. Fourth year project? I think so.

All in-cabin amenities
provided by Tim Horton's.
Oxygen is frozen in China
and reheated on-board

Wings fold when
approaching Drive-Thu

Multi-faceted wings.
FOR STEALTH.
Oh common, it'll still be better
than the F35's.

Vectored Thrust
Because vectors had to
be used for something

Landing legs do have a tendency
to stiffen in vicinity of Chris Hadfield

Throttle and seat are lined with
comfortable and classy purple suede

Air intakes are Goose,
Gosling and Egg proof.
Not rated for Ryan
Gosling.

The Arrow will
also be compet-
ing for Team
Canada in the
2018 Winter
Olympics

Can deliver sharp kick to
the unions, health-care
system, etc.

Solves the F35's rear-attack
vulnerability with a simple
invention known as a "rear
view mirror". Aviator clip-ons
optional

Radar is invulnerable to weather,
mountains, or Beiber fan-girls

Primary Aerial Combat System
A sophisticated EMP, de-encrypter and target-
ed loud-speaker. Locks on to enemy fighter's
ejection seat, blows the canopy and seat, then
blasts out "SORRY" in English, French and Newfie

DEIFENBOMBER BAY
This dedicated bomb bay drops a
variety of munitions, rotten food
and monkey feces on any Diefen-
baker monuments, landmarks, etc

Instead of a sonic boom, winglets create
vorticies which play variable Celine Dion songs.
To hell with the Geneva Convention

Can land on snow,
water, tarmac, or
shattered dreams.
Because suck it,
air-craft carriers

Twin engines for two nations. Both
run on a specialized bio-fuel distilled
from poutine and Molson Canadian.
Optional after-burner is syrup-in-
jected. WARNING: Quebec turbine
blades will often try to separate

Nose-mounted cannon can target
polar-bear poachers, Stephanie Meyer
fans or U of Ottawa students from
approx. 25 000 ft

Trunk can fit a
moose, or about 6
drunk frosh

CONNOR BUOTT

October 2014

THE CANADIAN
ARROW

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7 OF 9

MOST DIMS
REAL NUMBERS

EDITORIALS

GRAVITY 2 : TOTALLY SAFE SPACE

On The Subject of Safe-Space



Editorial Comic by Matt Post -JOUR II-

Why Everyone Loves Beer



Kira Smith
- HIST III -

Let me start by saying: those who claim to not like beer are lying. They've made poor life decisions that have led them to a delusional state of existence. In other words, their beer experience is limited to some nauseating selections such as PBR or Coors... I mean come on; can you even call that crap beer?

My parents unfortunately had a limited and poor taste in beer. This of course did not provide me with the adequate tasting experience necessary. In

the importance of full disclosure, I'll be candid here; I was once among the crowd that claimed to not like beer. I know, I know, how embarrassing. However, I underwent a life changing experience with the discovery of microbreweries and the enormous variety of beers that exist. There is literally, and I stress the literally, a beer for everyone. Just in a broad sense, between the various styles of beer, there is certainly plenty for everyone and anyone. Be it: Stouts, Pilsners, Ale, Indian Pale Ale ("IPA"), Dunkel, Saison, Weissbier, and such forth.

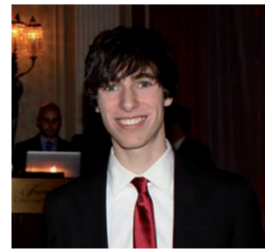
Despite my parents' utter repulsive taste in beer, a few short years ago, they took me to my first ever beer festival. Needless to say, I had my doubts that I would find something to enjoy, but it was free, how could I say no? Unexpectedly, I discovered a whole new world of drinking that was just as fruitful as my tea addiction.

At the festival it was love at first taste, full of many affairs and debauchery. It was the beginning of a whole new way of life. I started with a more classic beer Lake of Bays Summer Ale before exploring Coffee Stouts, Watermelon Wheat Beer, and IPA's (which by the way are disgusting unless you like to eat tree bark like one of my dearest friends).

Since that fateful day, I've been obsessed with tasting new beers and discovering all there is to taste. I've had beers I love, and beers I hate. I'm certainly no beer expert yet, but I implore everyone to discover the joys of drinking beer. Engage in debauchery and have all the alcoholic affairs of beer you can possibly manage.

So go head, order yourself A Long Dark Voyage to Uranus, giggle a little, and enjoy the enchanting malty chocolate taste.

CAPE TOWN,
SOUTH AFRICA



Matthew Gallagher
- PAMP II -

Within my short 18 years of life, I have had the privilege of witnessing the Renaissance of the African continent; a remarkable evolution of the dust swept land of dilapidated straw huts and swollen-bellied children with haunting eyes into the worlds' fastest growing economy, a landmass of great cities, technological advancement and robust infrastructure.

How did Africa make such a miraculous transition from a continent defined by civil war and starvation into a maturing economy, possessing many citizens who would be well within their rights to pity those most harshly impacted by the Eurozone crisis in Greece, or Cyprus?

The answer is that it didn't. It never had to. Like millions of other Western youth, my conception of the worlds' second largest continent had been deeply flawed.

The popular portrayal of modern Africa by conventional Western media falls egregiously short of reality, leaving each successive generation with little more than a caricature of war-lords, bare-chested women and impoverished children.

Maybe an unfortunate reality of a supply and demand driven media is that sensationalism tends to be rewarded, while long and tedious reports from the World Economic Forum are condemned to be half-heartedly skimmed into obscurity. Either way the fact re-

mains that our medias' attention disproportionately fixates on violent conflict and the misery that accompanies it and while doing so, completely neglects the continents startling socio-economic development in the last twenty years.

And "startling" is not an exaggeration. Africa's real GDP has skyrocketed 20% in the last decade alone, and is expected to rise by 6% annually over the next ten years, a feat that would give even China a run for its' money during its peak of growth in the mid 2000's. [1]

Democracies have increased 8-fold since the end of the cold war, and along with the increased political transparency and accountability came exponentially more effective management of the continents rich natural resources.

Over the last decade trade with China has risen from 11 billion a year to 166 billion, and less and less of that money is ending up in the wallets of corrupt government officials, instead being invested in public works and infrastructure. These profits have brought about the rise of the African metropolis; a large chunk of the population now live in urban areas with skylines easily dwarfing Ottawa's, defying the traditional perspective that Africas' greatest distinctions are only found on the safari. Many countries have even done away with public school fees (Thus denying the next generation of the incesant World Vision TV ads that so disproportionately distorts our perspectives).

There exist 3 cell phones for every four people, and growing industrial output is allowing for accessibility to commodities at a level that outpaces even India. [2]

Yet despite these phenomenal

achievements, despite the World Bank announcing that almost half of Sub-Saharan African states had reached the status of a middle-income country, Western media still prefers to associate Africa with Ebola outbreaks, poverty, civil war, hell even the lion king-anything except its' remarkable economic turn-around.

In just the past two years foreign direct investment rose by 5%, totalling out at \$50 Billion, while investment in the rest of the world plummeted by 18%. The World Economic Forum met in Ethiopia's capital to declare: No doubt, Africa is on the brink of a major transformation – the continent is home to seven of the world's 10 fastest growing economies...[it] is ballasted by macroeconomic and political stability, rich natural resources, a growing consumer base, strong retail markets and a young population. Around the globe, companies and countries are turning to Africa's promise. [3]

Yet did we hear about that? Did we hear about companies from the Silicone valley flocking to Kenya to study and invest in its rapid developments in communication and information technologies?

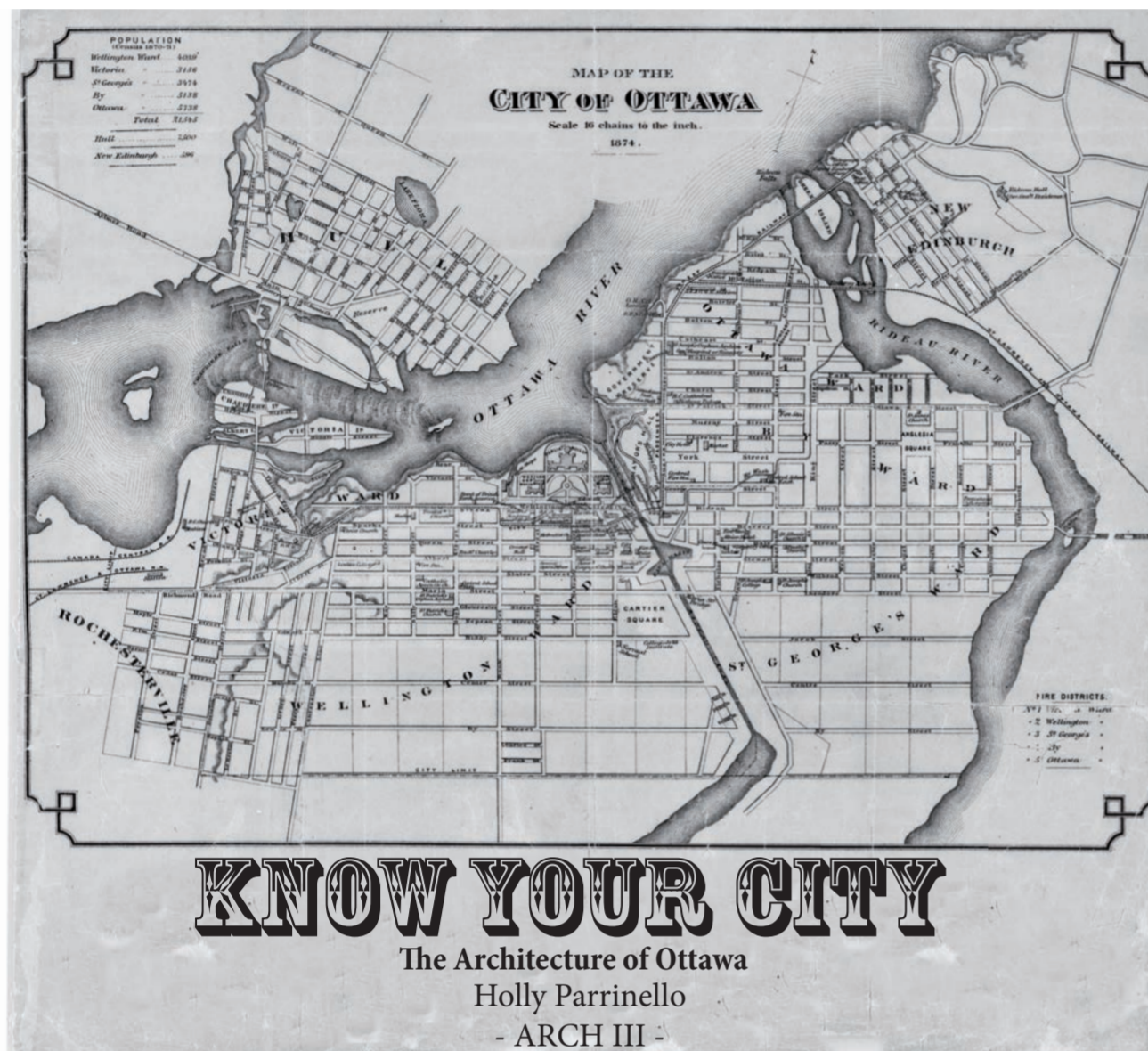
No. Instead they gave us Kony 2012.

Perhaps the medias' over-emphasis of poverty and violence is a slight. Perhaps the fact that the defining moment of Africa in 2012 was an inactive Ugandan warlord who had not been seen in 4 years was the unfortunate reality of a system that rewards sensationalism.

But the complete and utter failure of the media to recognize the justified optimism that the rest of the world has for the African continent is not. This is an inexcusable silence, and it is deafening.

COLUMNS

SLIGHTLY DIFFERENT THAN "TO KNOW THY CITY"



Affectionately referred to as the “castle” and located in the heart of Ottawa, The Victoria Memorial Museum is the home of the Canadian Museum of Nature. Designated in 1986 by Parks Canada, the museum is ranked as the third most important building in Canada’s heritage, behind only the Library and the Centre Block of Parliament. Shortly after, the building received formal recognition as a national heritage building in 1990 by the Federal Heritage Buildings Review Office. The Victoria Memorial Museum was the first “modern” museum constructed in Canada for the sole purpose of being a museum. When the doors of the museum opened in 1912, the structure housed the National Gallery of Canada and the Geological Survey, and the first exhibits were based on the work of the first director of the Geological Survey, William Logan. The Victoria Memorial Museum was also briefly home to Parliament, after the fire that destroyed the Centre Block in 1916. However, the museum’s history began long before the building was constructed.

In 1856, Sir William Logan, the first Director of Canada’s Geological Survey, was authorized to establish a Geological Museum that would be open to the public. Established first in Montreal, the Headquarters of the Geological Survey arrived in Ottawa to

the former Clarendon Hotel in 1880. The arrival of the Survey in Ottawa coincided with end of the 19th century industrialization and economic growth for Canada as a whole. This growth coincided with the pre-WWI museum boom in major cities across Europe and the United States. Thinking about how symbols of artistic and academic institutions would affect the view of Ottawa as a major city, Parliament authorized design and construction of a museum to honour the 64 year reign of Queen Victoria, which ended that year. The design of the museum fell to the Dominion’s Chief Architect, David Ewart, of the Federal Department of Public Works. Beginning his work with the Department of Public Works in 1871 at the age of 25, Ewart designed four other major public buildings between 1900-1914. The Victoria Memorial Museum, however, was by far his most ambitious design. With the design for this grand institution finalised, ground was broken in 1905 and 300 Scottish stonemasons were brought in to work. But before the design was even begun, Ewart took a research trip to Europe in 1901, and was inspired by the grand structures of varying styles. This European influence can be found most prominently in the four storey atrium. A grand staircase reaches the second floor galleries, a design also found at the National Mu-

seum in Stockholm, Sweden, built 1886. The influence is also seen the Beaux-Arts composition of the symmetrically arranged rooms, common to the 19th Century buildings of Paris where the Ecole de Beaux-Arts was founded. Despite the heavy European influence Ewart brought with him from his research trip, the Victoria Memorial Museum was one of the first public buildings to incorporate into the decoration plants and animals native to Canada. The motifs feature in the windows, as part of the stonework on both the interior and the exterior, in the highly embellished decoration on the interior, and in the two stone moose heads that guard the main entrance. Core construction of the museum was completed in 1910, and in 1912 the Victoria Memorial Museum opened its doors.

The Victoria Memorial Museum was originally intended to mirror the Centre Block of Parliament, located directly north of the museum. The two buildings share similar stonework, and at one point, shared a similar tower. Located at the entrance of the symmetrically organized plan, the tower included a clock and a spire. However, the unstable ground was not taken into account by the architect, and the tower was visibly sinking before it was completed. Modifications were made to the design by both the architect and the engi-

neers working on the project in 1907, but they did not prevent any difficulties. Cracks began to appear in the foundation, and workers refused to step foot in the basement for fear of flying stones sheared from stress. The tower was completed according to design, but in 1915, it began to separate significantly from the building, and had to be removed. The main entrance was now shortened 80 feet, and the architectural feature tying the museum to Parliament was gone. The building continued to sink until 1969, when extensive stabilization work was finally done.

For the initial design of the Victoria Memorial Museum, the Dominion’s Chief Architect David Ewart broke with the strict tradition of Victorian Gothic, used by his predecessor Thomas Fuller on the Parliament buildings. Ewart’s structures are much heavier, being described as Tudor-Gothic with Beaux-Arts features, or conforming to a Scottish Baronial style. The Beaux-Arts principles, based on the curriculum of the Ecole de Beaux-Arts in Paris, can be seen in the symmetrical organization of the facade and the main interiors of the building, including the placement of the windows, as well as its park-like setting. The heavier, balanced massing feels almost Romanesque, while the easily distinguishable entrance and the axial plan of the building conforms to Beaux-Arts principles. The main entrance of the museum includes a set of triple arches with elaborate decorative stonework, expressing the Gothic style. The motifs of the stained glass of the windows as well as the decorative tracery around them is consistent with the decoration on the interior and the exterior of the museum, a characteristic of the Gothic style. The museum’s exterior was done with stones of different sizes laid in broken courses, another characteristic that is consistent with the Gothic style. Because if these conflicting characteristics, the Victoria Memorial Museum can be argued as essentially a Beaux-Arts style building with a Gothic cladding. However, it is the decorative stonework that uses native plants and animals that makes the museum a uniquely Canadian building.

In October of 2006, the museum reached a major milestone; the halfway point in the extensive restoration

THE VICTORIA MEMORIAL MUSEUM



of the structure, as well as the re-opening on the West Wing of the museum. Work began in 2004, with extensive structural demolition and removal of interior finishes and sections of floor. The restoration also included was a complete conversion of electrical and mechanical systems and the installation of a steel endoskeleton to bring the entire building up to modern building codes. A large masonry restoration was undertaken to preserve the heritage value of the building. The architects and engineers of the restoration implemented a seven step “cure” for the museum, which addressed issues of architecture, infrastructure, conservation, structure, exhibitions, amenities, and exterior. Solutions to these issues included installation of an interior wall that maintains environment conditions, protecting both the exhibits and the stonework from damage, the addition of the Nature Boutique and a group entrance, and landscaping of the grounds. The completion of the Queen’s Lantern in 2010 marked the end of the restoration project.

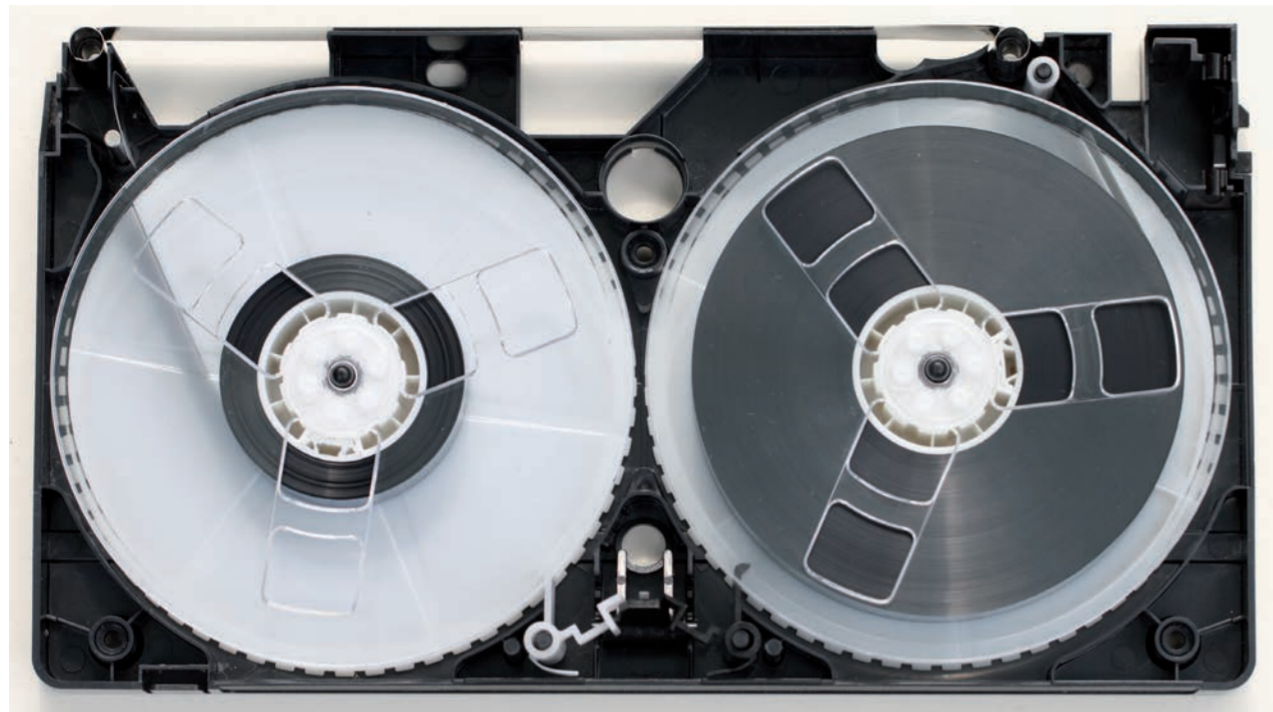
The Queen’s Lantern, a four storey tower located at the top of the main entrance of the museum, stands where the original tower once stood 100 years earlier. In the original design of the museum by David Ewart, the grand staircase in the atrium provided access to only the second floor, with staircases in each wing that allowed access to the third and fourth floors. However, modifications could not be made to the atrium to add staircases because of the

heritage value. Plans were then made for the Lantern, that now houses 4 staircases that facilitates the flow of visitors from floor to floor of the museum easily. Worried about the weight of the new structure on the masonry walls of the entrance, the steel structure of the tower hangs from a newly constructed roof that is cantilevered off of the new concrete interior walls of the museum. Four steel columns provide structure for the roof, and 160 panes of glass as well as 120 glass fins form the transparent box of the lantern. In addition to serving a functional purpose to the museum, the Queen’s Lantern provides a look into the museum’s past and the original intent of the architect.

Though the building itself has gone through significant renovations and modifications since it first opened its doors in 1912, the Victoria Memorial Museum stands as a symbol of national heritage. With the recognizable motifs of native plants and animals, the stonework that mirrors that of Parliament, and the modern addition of the Queen’s Lantern, the structure is right at home in the heart of Ottawa’s built environment. Now exclusively housing the Museum of Nature, with over 250 000 visitors per year, the museum still reflects the relevance of symbols of academic institutions as it did when it was built. The style, the circumstances under which it was conceived, and the institutions it housed, makes the Victoria Memorial Museum a uniquely Canadian building.

COLUMNS

I AIN'T AFRAID OF NO... OH GOD, COMIC SANS!



RETRO REVIEW



Don Jackson
- CIVE II -

October, thirty long patient days of planning and dreaming by many a young child all leading to a single night of tricks or treats on Halloween resulting in a bountiful harvest of candy. But to the ancient Celts Halloween, known as Samhain meant much more. A time where the veil between this world and the next was at its thinnest. It was a time to say a farewell to loved ones unexpectedly lost. For the young, it was a right of passage as they journeyed alone into the dark of the night facing fears of the unknown; if successful, they would return stronger and wiser. Is anyone else struck by the cruel irony that many of us will journey into the dark recesses of Carleton to face the evil spectre of mid-terms? As the month is already filled with enough horror to straighten your short and curlys, perhaps movies of a different genre is due for review. Before sound and colour, cinema could only relay themes of strong emotion setting very

distinct categories that seldom crossed over; romance, comedy, horror. Somewhere in the 1980's, horror films took a very distinct turn. Movies like, Friday the 13th and Nightmare on Elm Street began showing signs of pop culture references and humour, and a new creature of the cinema was born.

1984 brought us the original Sheldon (Egon played by Harold Ramis), an over grown child (Ray played by Dan Aykroyd) and a womanizer (Peter played by Bill Murray) in the movie Ghostbusters. With their funding into paranormal activity pulled by the university, they stumble into new employment as Ghostbusters. Shortly into the film they take on two more employees Janine (played by Annie Potts) and Winston (played by Ernie Hudson). Winston provided perhaps the best line during his job interview that any starving student could relate too. When asked if he believed in UFOs, astral projections, ESP, the Loch Ness monster and the theory of Atlantis, he responded, "Ah, if there's a steady paycheck in it, I'll believe anything you say." Ghostbusters also brought us the memorable quote about never crossing the streams (I'll let you insert your own pun here). Ghostbusters quickly became a cult classic

with strong Canadian connections, and perhaps created the first loveably villain Slimer.

Not to be out done, Gremlins (1984) perfected the cute factor with a Mogwai named Gizmo. Purchased by his father as a gift, Gizmo came with but a few simple rules: **Never expose them to sunlight. Never feed them after midnight. Never expose them to water.**

I am pretty sure the same applies to first years. With the limited vocabulary of Gizmo and his off-shoot Gremlins, the movie provides very little quotable quotes, possibly the best being "Bright light! Bright light!" (if you've ever stayed to closing of a club you'll know this feeling); however, it did create some very memorable moments such as a gremlin in the blender and another in the microwave, plus cultural references to the Karate Kid and Wizard of Oz.

Similar to Gremlins, Critters released in 1986 introduced a parasitic like rodent from outer space. A rolling fur ball of teeth, these critters ate everything in their paths. Running from intergalactic bounty hunters these critters find themselves in a small Midwestern American town, and discover the second amendment the hard way.



Critter 1: They have weapons
Critter 2: So what
[Critter 2 is shot off the porch]
Critter 1: Fuck!

Critters is one of those campy B-movies that fall just short of cult classic but well within the "guilty pleasure" genre. But perhaps the walking dead is more your style than furry creatures.

Released in 1988, Beetlejuice told the story of a young newlywed couple, Barbara and Adam (Gina Davis and Alec Baldwin) that suddenly finds themselves recently deceased. Trapped in the house they once owned in life and facing living with the new obnoxious owners they turn to a haunting expert, Beetlejuice the ghost with the most (played by Michael Keaton of Batman fame). The "used car salesman" of the undead, Beetlejuice promises to rid the house of the living in exchange for being released. Stuck in a living-mindset, Adam questions Beetlejuice's qualifications.

Adam: What are your qualifications?
Beetlejuice: Ah. Well... I attended Juilliard... I'm a graduate of the Harvard business school. I travel quite extensively. I lived through the Black Plague and had a pretty good time during that. I've seen the EXORCIST ABOUT A HUNDRED AND SIXTY-SEVEN TIMES, AND IT KEEPS GETTING FUNNIER EVERY SINGLE TIME I SEE IT... NOT TO MENTION THE FACT THAT YOU'RE TALKING TO A DEAD GUY... NOW WHAT DO YOU THINK? You think I'm qualified?

Going by appearances the afterlife is quite easy provided you read the manual "Handbook for the Recently Deceased" which apparently reads like stereo instructions, so I'm pretty sure engineers got this one.

I began this review by discussing how horror films

slowly began to add elements of humour. One series in particular, The Evil Dead, seemingly stumbled across this blend resulting in a true cult classic Army of Darkness (1992). The first movie Evil Dead (1981), was a true horror film involving a group of young friends, an isolated cabin in the woods, a long deceased evil sorcerer and the book of the dead; however, the sequel Evil Dead II: Dead before Dawn (1987) began to shift. Again a group of young friends find themselves struggling to stay alive in this cabin as evil spirits and the dead claim them. Meant to heighten the fear and anxiety of the audience, a scene with a young man trying to kill an already dead woman with a 2 x 4, only resulted in laughter as the zombie rocked back and forth like a weeble wobble saying "You'll be dead before dawn, dead before dawn." It was enough to change the direction of the next movie and create a new king of B-movies actor Bruce Campbell.

Sucked into a vortex at the end of Evil Dead II, Ash Williams (played by Bruce Campbell) finds himself in medieval times where two warring factions are unknowingly facing a third, an army of the dead. This movie became an instant hit with numerous quotable quotes. After being taken prisoner, Ash first meets with another prisoner the leader of one of the factions:

Duke Henry: I am Henry the Red. Duke of Shale, Lord of the Northlands and leader of its peoples.

Ash: Well hello Mister Fancy pants. Well, I've got news for you pal, you ain't leadin' but two things, right now: Jack and shit... and Jack left town.

Taken by the dead and made their Queen, the princess Ash's somewhat love interest, tries to kill Ash and take the book if the dead:

Sheila: You found me beautiful once...



Ash: Honey, you got reeeal ugly!

Army of Darkness is a must see classic which still has a strong following and line of geeky delight merchandise. But remember if you're going to shop, "Shop Smart, shop S-mart."

Having said all this, perhaps you are truly one of the fearless that laugh in the face of integrals and battery statistic questions. For you a truly nail biting, hair raising, spine tingling horror film is what you seek. But honestly, armed with the knowledge of special effects, make-up artists, and CGI how do you find such a fear inducing film? Simple, go back to a time to when such effects were limited and the writers, directors, and producers had to rely on other means of frightening the audience.

Although remade in 2011, the original 1982 version of The Thing fits the bill. This movie played on the basic fears of the general public. Fear of isolation, being trapped, an unseen enemy, the inability to trust those around you, spider like monster, and the unknown. While on an expedition in the Antarctic, scientist making an astounding discovery of an unknown creature of alien origin. To their horror the alien was not only still alive, but can shape shift (and not the nice kind of shifters at Carleton) into anything and escapes. From that point on, every encounter in the film is an edge of the seat nerve shredding breath holding moment of fight or flight. Just how bad is the situation for our protagonists? Well does this quote tell you anything?

Garry: The generator's gone.
MacReady: Any way we can we fix it?

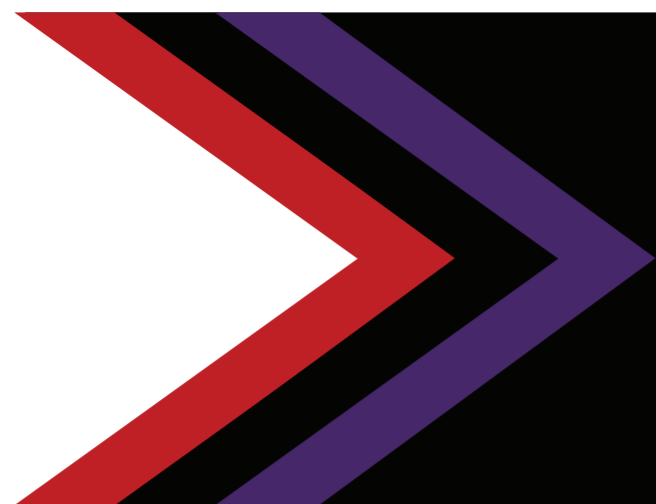
Garry: It's gone, MacReady.

The Thing is a classic example of suspense and how the unseen is often far scarier than any visually gory and bloody effect in which today's movies bath us.

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



COMING SOON TO A TISSUE NEAR YOU

Different Universe

Engineering from an Artsy Point of View



Wesley "Pooping Panda" Chee
- CRIM III -

WOW! Would ya looky here... it's already October, and time flies when you are having fun (well, I am); but I guess for most of you reading this, your first month was filled with labs, stupid PA's, and long, boring lectures. September is a jam-packed month which starts off the new school year so there are lots of things for us to look back on, and people to laugh at who were unfortunately harmed in

the process. Seeing as it is such a busy month, let's just dive right into it.

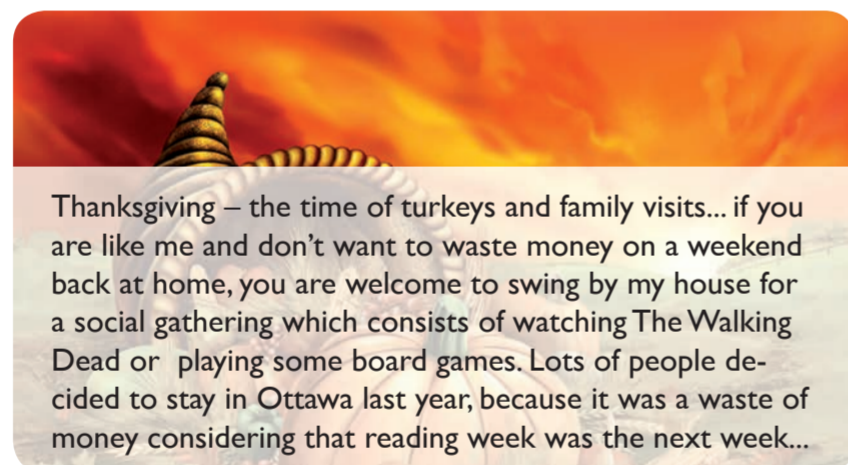
The annoying, flapping Bats of the Wizarding World of EngFrosh were the 2014 winners and they were closely contested by the very Canadian Moose, who had a few snowball fights during Eng Games. This really impressed me since they were planning the attacks from my station during bonding time. Rounding up 3rd place was the Dino-cult of Tyrannotail, whom I love very and miss very much – please come by my Leo's shift and love me (Tuesday 4:30-5:30). The frosh who stayed the entire week had a blast (from what I could see) and I speak for all the Facils

and Heads when I say that it was one of the craziest in recent years, so thanks for making our week just as fun as yours.

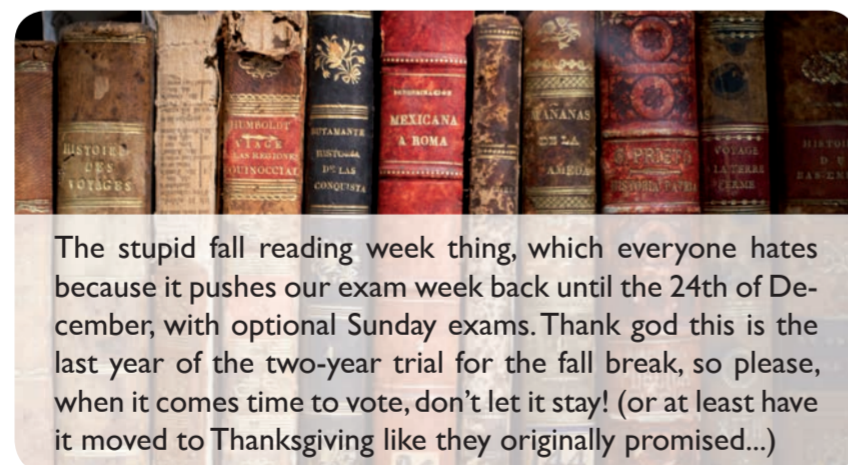
COMMMIESSS!!!!
The new FSCP will be elected very shortly so I have no comments or insults for the fools who have to deal with all the stupid people at events. I wish the new members all the best and hope to see them all succeed (or fail miserably so that I can laugh non-stop for a year).

I just realized how early on I have to submit each article for the month, so from now on, I'll be doing a recap as well as a list of things you should be attending for that month:

COMING IN OCTOBER



Thanksgiving – the time of turkeys and family visits... if you are like me and don't want to waste money on a weekend back at home, you are welcome to swing by my house for a social gathering which consists of watching The Walking Dead or playing some board games. Lots of people decided to stay in Ottawa last year, because it was a waste of money considering that reading week was the next week...



The stupid fall reading week thing, which everyone hates because it pushes our exam week back until the 24th of December, with optional Sunday exams. Thank god this is the last year of the two-year trial for the fall break, so please, when it comes time to vote, don't let it stay! (or at least have it moved to Thanksgiving like they originally promised...)



Halloween Parties & Candy – we are never too old for candy! The day after Halloween is when candy is at its cheapest prices, so remember to stock up and your dentist will be thanking you for all the visits you will be booking in the future. My favourite parties of the year are the ones when you get to dress up in funky costumes and just have a good time; my last 2 costumes consisted of purple batman and a bride (yes, I was in a wedding dress and in a wig... along with other female clothing attire...don't judge).

Lightly Cultured



Megan Allisat
- CIVE II -



Congratulations frosh, you've survived the first month of university! Consider this a feat, some people drop out on the second day of school.

Going into October, you can now call your parents without tearing up (that much), accept the fact that Glen McCrae wants you to fail, and get some goddamn rest after frosh week.

So as you slowly grow the skin of an engineer, I guess it's only fair to give you a good look into our culture. In case you haven't really figured it out yet, engineering cultures and traditions reflect something similar to a precious love child between a fraternity and a cult.

While engineers lack the sophisticated and image-focused aspects of Greek life, we do have a considerable amount of "social events" and plenty of brothas. We also like goats too much for any mountain sacrifices but we do have a #dinoCULT. Our questionable traditions for questionable reasons, coupled with the plethora of chants we all feel required to know would have any cult-studying-Artsy concerned by the fact that we're creating the world around them.

So in honour of all things purple and the fact that you've survived till midterms, I present a collection of little things that make up CEng culture.

The Gong: welcome to the gong show, just don't fucking touch it unless dear president says you can. Praise the gong, embrace the gong, protect the gong, be the gong.

Flightsuits: The holy grail of coveralls that make you put your mind, blood and vomit to work just to experience the endless joy of finally earning one. The Ravens crew or whatever they call themselves thinks they have them as well, but they are wrong. Feel free to laugh in their faces or ask if their "Flightsuit" can carry a two four. Godiva's hymn: few better feelings can be felt that singing this internationally known song at the top of your lungs with a glass of apple juice in your non dominant hand. Unfortunately that is the only song we know #vivalaresistance #MacEngStrong

Englove: Yes, we love every one of our kind, but bond we share with our lovely southern Hamiltie friends of McMaster just cannot compete with anyone else.

Temporary tattoos: everyone loves, cupid's arrows and Oc-Transpo decorations, even if they say they don't. If you get it, you get it.

Pewter mugs: god I hope I get one in 4 years.

Iron rings: there's nothing that screams cult more than a secret ceremony where only those worthy are allowed involving the process of getting married to your profession.

McCrae: look to your left! Now look to your right! Watch your classmates' expressions as Glen ruins their intellectual egos!

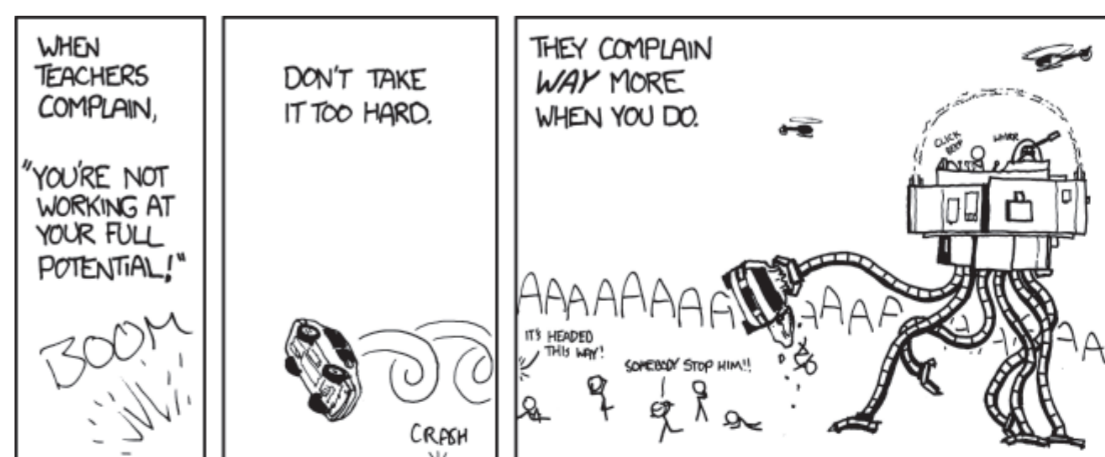
Engineering Jackets: There are few cooler ways to show off your intellectual superiority around campus without offending the artsies.

SOOPP: I am not worthy enough to write about this great brotha-hood #respect.

So there, the basic ins and outs of Carleton engineering culture. There's a whole bunch of unique little quirks as well, but I'll leave them for you to discover.

While this may all seem overwhelming, the most important thing to remember about tendencies of fraternities and cults is the importance of community.

You are now part of the family regardless of age or background. So welcome! We'll help you and support you and probably make fun of you, but it's all in good nature.



XKCD.com

COLUMNS

DEATH METAL: ANOTHER CASUALTY OF SOLAR FLARES

Raph's Record Corner



The Death of Death Metal Opeth Confirms New Direction with "Pale Communion"



Raphael "Bluebelly" Adams
- ACSE III -

Sorry, Bieber fans. This one's for the metal crowd.

...Well, sort of. As the title of this article points out, there isn't much metal to be found on Opeth's "Pale Communion". That's not to say it isn't there, but it's extremely scarce.

Mikael Åkerfeldt (the mastermind of Opeth, Sweden's leaders of heavy music) has hinted before that he's grown bored of doing metal. The band's previous album, Heritage, was not a metal album by any means, but that didn't worry me. This sort of thing has happened in the past: Opeth have made a quiet album, only to return heavier than ever.

However, this new work could not make Mikael's hinting more plain. Gone are the gut-churning screams and growls of old, along with the sinister riffs and most of the double-bass drumming. Instead, we are treated with large quantities of organ-heavy prog rock, along with Opeth's famous classical guitar work and a few jazz fusion elements. Some parts feel quite similar to Steven Wilson's masterpiece "The Raven That Refused to Sing And Other Stories", which isn't surprising – after all, Wilson was involved in the album's production, and is known to be best bros with Mikael. The influence is there for sure.

So is it bad? No. Just

because it's not metal doesn't mean it's a bad album, or even a bad Opeth album. In fact, a lot of the music was pretty enjoyable – but of course something is missing. Here's a track-by-track analysis...the editors are gonna kill me for sending them such a long article.

#sorrynotsorry

Eternal Rains Will Come

Sick intro to the album, starting off so suddenly that it feels as if you're in the middle of the song. Dizzy prog-jazz acrobatics give way to a very quiet, haunting piano piece, which builds into the main body of the song. Vocals come in shortly afterwards, nothing special but nice enough. Couple verses, then the song builds into a bridge before letting loose with a guitar solo. Or so you think... but it leads into the ending to the song after fifteen seconds. Kinda disappointing, I was starting to feel it...

Cusp of Eternity

Oh look, a metal riff! Don't expect any screaming though, the singing comes in within a few bars. The chorus to this song is wordless, almost with a Middle Eastern feel to it, and complements the riff nicely. This is more of a Dream Theater type of metal, and I think Mikael realizes it – the lyrics mention a "scene from a memory". (Nerd alert!) I absolutely love the guitar solo here, it's the first proper one on the album and it's awesome. The song fades out on the same wordless chorus. Overall, probably my favourite song on the album.

Moon Above, Sun Below

The "epic" on the album at almost 11 minutes in length. The

first verses resemble some of Opeth's 2008 stuff in terms of tones and chord progressions. Chunky riffs soon transition to some pretty acoustic guitar with clean lead guitar on top. This gets heavy again in a couple of minutes, getting pretty crazy before again settling back down to acoustic guitar. Then, a very low, creepy acappella humming before turning to an ominous organ riff. There are a couple of verses of this, alternating with an intense chorus. The song ends with ghostly singing and piano. Pretty interesting.

Elysian Woes

A quiet little acoustic song, very thoughtful and melancholic. It builds up a little toward the end with some electric guitar and drums. It's a nice song, but nothing spectacular.

Goblin

An instrumental! Starts off with some loose improvised drums before settling into the main groove. There is a STRONG funk/jazz fusion feel here, since the clavinet is used prominently. Love it! :D

River

Another acoustic intro. Things are pretty boring until the 4-minute mark, when the band kicks into high gear and begins an up-tempo guitar duel, backed by staccato organ stabs and frantic drumming. This turns to something a little heavier, backed by alternating mellotron and organ. Vocals come back in, and the song ends at the same energetic pace. So overall, the song takes a while to develop, but the midsection is one of the best points on the album.

Voice of Treason

I think I've been listening to too much rap. My first thought when hearing this song was that you could take the intro riff, loop it, and make a really sick hip hop beat. It's got those trap-style minor-key string stabs, no guitar, and a bouncy rhythm to it. The song is largely based around this one riff, with layers of acoustic and electric guitar, keyboards, and vocals piling on top of it as the song progresses. Towards the six-minute mark, things get very dramatic and grandiose, with lots of epic string arrangements. However, it settles back down to thoughtful vocals and quiet keyboard within a minute. The song transitions to the next one with a buildup of strings.

Faith in Others

A very atmospheric intro with strings. This drops down for the verse, then builds into another wordless chorus with a very ominous feel to it. The song sort of stays at the same level from then on – a few quieter moments, but overall the same. Again, very slow and melancholic...and that's where the album ends.

Conclusion? Hmm. Well, let me just say that I think Mikael Åkerfeldt is one of the most brilliant composers in all of progressive metal. And I've thought that ever since I discovered Opeth as a young and angry teenager.

HOWEVER. What makes Mikael so brilliant is his control of dynamics. I'm not just talking about quietness and loudness here; I'm talking about moods. Nobody but Mikael can make such an abrupt shift from screaming death metal to folksy guitar without making it sound forced. So when I hear this new Opeth, all I can think is that he's stopped using about a third of the colours in his palette. Thus, there isn't as much variety anymore.

It's a very good album with lots of great music on it, but those are my feelings. I'm sure Mikael would tell you that this is his natural progression and growth as an artist, and I respect that.

But I think he's limiting himself now, and it's not just because I wanna headbang.

Rating



LEAVE IT FOR LATER



Kailey De Silva
- ASCE III -

How to be a Professional Procrastinator

I promised to write an article for this edition of the iron times. It is currently the night before it is due and I have absolutely no idea what I want to write about. I figured when I made this promise I would think of something later....well that didn't happen. I am a bit of a procrastinator. So I am going to write an article about procrastination. Here are my top tips:

- 1 Find that tv show that you just never got around to watching and start it. The reason you go for an older show, or a show that already has a few seasons out is so that you can watch all of them. There's nothing worse than having to wait a week for the next episode and marathoning is always encouraged.
- 2 The best inspiration comes at the absolutely last moment. The professors won't even notice a lack of grammar or coherent thought. We are engineers they expect that already.
- 3 No matter how much your work is calling to you your room needs to be cleaned more.
- 4 Leading up to an exam is the perfect moment to get on with that new years resolution you made. For example working out for five hours really releases that stress and burns those calories from those late friday nights.
- 5 Eating=movie....everyone knows that.
- 6 Absolutely under no circumstance follow that colour coded schedule you made when you were still feeling productive.
- 7 Be sure to take lots of breaks. You worked hard getting all of your work together and ready to begin.
- 8 You know that show you picked out in step one? well it's time to go back and re-watch all of your favourite episodes.
- 9 And remember you think you are way smarter than you are. For those five hours recommended as study time, you only need one.

If you are just a beginner and need some suggestions here are some of my favourite time wasters. If you are looking for a new tv show game of thrones (if you haven't seen it already) is superb. For you anime lovers out there Code Geass (but you have to watch season two). Book worms, for you fantasy lovers The Night Angel trilogy by Brent Weeks is awesome and for those of you who prefer non-fiction Freakonomics is one to try. To the foodies out there, try making chocolate covered strawberries (and I mean pinterest grade chocolate covered strawberries), you guys who think that it is too girly trust me you girlfriends will love it (you will thank yourself later). The clean freaks out there, your kitchen is now dirty from strawberries, you're welcome.

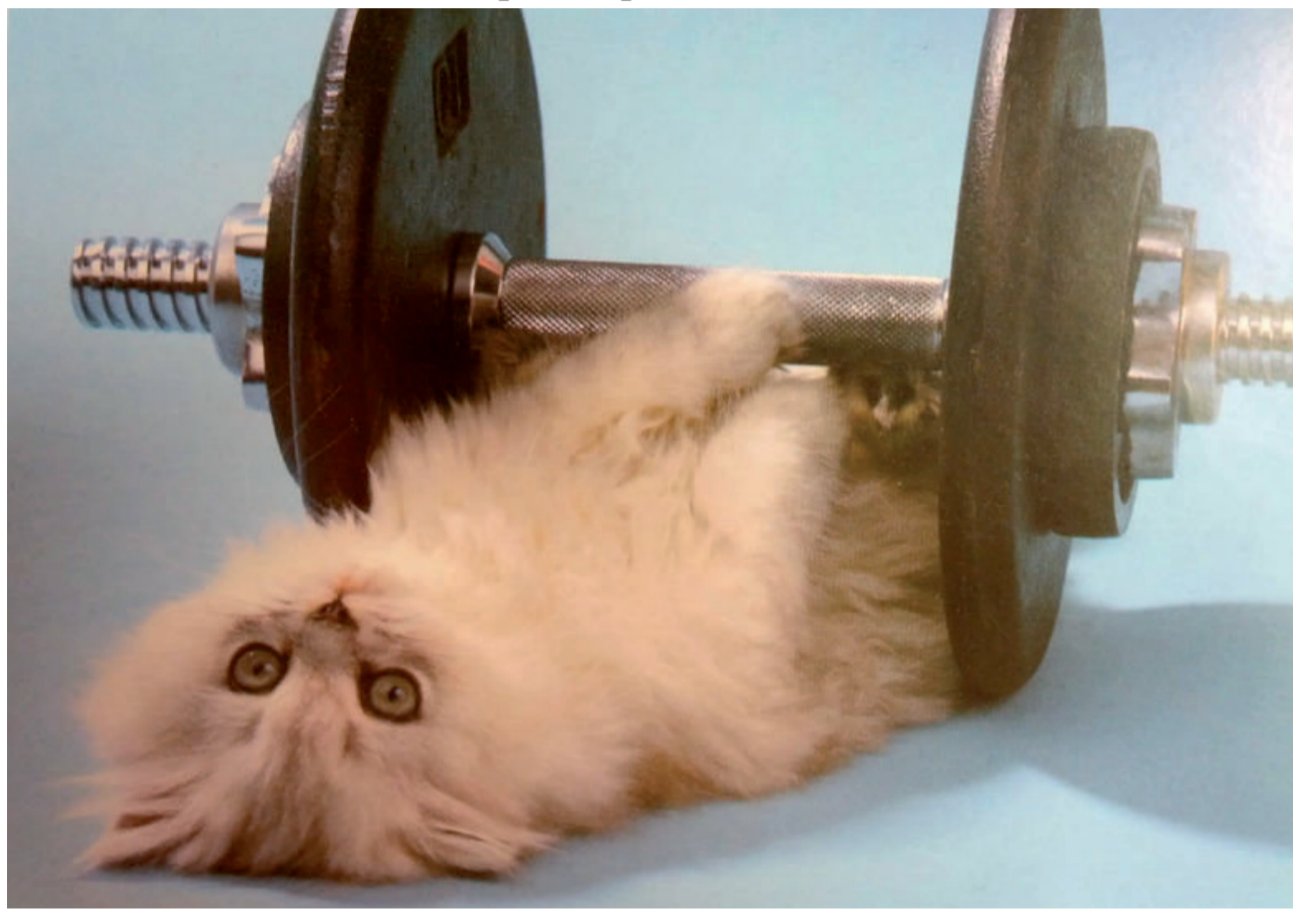
I hope these tips help you become a 'PRO'crastinator in no time. Join the revolution.

COLUMNS

NEXT MONTH: HOW TO FAKE A 6 PACK WITH DUCT TAPE AND FISHING LINE

Do You Even Lift, Bro?

A Sports Reporter's Ordeal



Caitlin Hart
- JOUR III -

Fact: Most sports reporters are nerdy.

Corollary: None of us are usually very good in the actual playing sports department, and I am no exception. In fact I'm worse. A decent chunk of sports reporters say that when they realized they weren't Gretzky they decided that reporting was the better choice. Me, I never even deluded myself slightly into thinking I was Gretzky. I lack what you call hand eye coordination. No really, me trying to play Guitar Hero took Herculean effort. Don't even get me started on trying to learn how to play the drums. So naturally any sport that requires hand eye coordination i.e all of them, were not

sued to me.

I briefly dabbled briefly into tackle football at recess. I was excellent at the simple task of harass the quarter back and tackle people who had the ball.

That is until all the guys hit puberty and I was basically running into a brick wall.

Then again my lack of sports prowess might have had something to do with the fact that I had approximately zero muscle mass. The inner jock in me decided to switch from world history to fitness in grade 11 to address this problem.

I became a changed woman. I could actually lift things. I grew biceps, a push up was possible, I could maybe do a pull up, no actually never mind I still can't do a pull up. And then I discovered the gym.

I was there that I actually began to see my muscles. It was also there that I became acquainted with the people of the gym.

Oh the people of the

gym. There I am lost in my little world when I am interrupted by something other than my music. Is this guy dying? Having sex? Constipated? All three? Can't tell really. What's worse is that he is usually oblivious to the seething death stares he is receiving from everyone in the vicinity. Then there is the guy who hogs that one machine you want. Almost always it's an upper body machine. He will do: not two, not three but what seems like 8 goddamn sets. Oh sure he'll give you hope by pacing around briefly only to return and do another set. He might go across the gym, but no his protein shake is there to mark his territory. Again, oblivious to seething death stare.

There are of course the super athletes of the gym. The people who are doing one handed push ups while their feet rest on an exercise ball, or squat like 400 pounds. It never fails every time I see a feat like this I can't help but stop my work out and stare in wonder. No I'm not checking you out, I'm wondering how in the hell that is physically possible and thinking about the intense owies that must cause. Maybe one day I will be one of those people, then again I like pie way too much.

Minus the Carleton's gyms problem of being literally always busy, I am quite fond of the place. Everyone is welcome to visit, you can even come say hi, I'm the girl likely squatting with hair that expands and is sweating profusely.

FOILING THE FRESHMAN FIFTEEN

The Practical Guide to Keeping the Abs that you Totally Had this Summer



Julia Psihramis
- ASCE II -

So maybe you're a freshman and by now you've heard about the mysterious phenomenon that commonly goes by the "freshman 15". Maybe you're an upper year that's already experienced it for yourself. Either way you know that this year you're going to be healthy. You're going to exercise, go to the gym and run by the canal. You won't be another 3 week warrior. You will balance class and sports!

... At least until class starts. Then it becomes "after I finish this lab report" or "as soon as I'm done this assignment". Well the reality is, there's always another assignment, another lab and soon it's exam time and you haven't been to the gym since the first week. Trust me, I understand. Some times there just isn't enough time to exercise and that, paired with the all-you-can-eat caf and the convenience of abstentions doesn't bode well for your stand against the freshman 15. But never fear! There are some ways you can avoid that fate without even going to the gym.

1) Eat healthy

Yes, university (especially residence) means no parents. But that doesn't mean you can survive full time on pizza alone (and yes, I know people that have tried). Have a salad. Eat a stir fry. You don't have to com-



pletely avoid the pizza, pogos and tatters, but don't eat them for every meal either.

2) Take the stairs

If you live in res or an apartment off campus, this one is really important. Especially after a long day of class it can be tempting to take the elevator up to your room and collapse on your bed for hours. This is all well and good until you realise it's the third day that week you're coming home with an arm full of snacks from abstentions and your clothing is getting a little snug. I know it's not fun if you live anywhere higher than the second floor but you'll thank me at the end of the year when you don't get wheezy walking to your classes.

3) Walk

You've probably noticed that those wonderful pink UPasses get you on to any OC Transpo vehicle you would ever need. You've probably also noticed that sometimes the transit isn't the most reliable mode of transportation. In some cases it's actually faster to walk somewhere than it is to bus. I'm not saying you should try walking to south keys instead of taking the O-

Train but if there is someplace within walking distance of campus, consider skipping the bus ride every now and then.

4) Don't skip meals

This one may seem counter-intuitive but it's no less true. Skipping meals makes you binge on junk food later (which gets expensive on top of being unhealthy). There might not always be time for a full meal between classes but make sure you at least eat something that doesn't come from a vending machine.

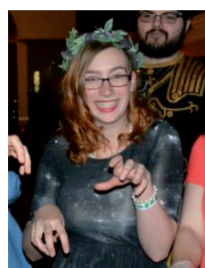
5) Drink lots of water

Not only is water the universal hangover cure, it also helps keep you hydrated and cleanse your body of any toxins you may have ingested at the last FSK. Bring a water bottle to class and you'll even save money on sugary drinks you would have otherwise bought.

So there are my top 5 tips to avoid the freshman 15. These are in no way foolproof but it's definitely a start. If you can still find time to go to the gym, go, but let's be honest, ain't nobody got time for that!

COLUMNS

YOU KNOW WHAT ELSE IS FREE, FUN, AND STARTS WITH F?



Miriam "Vulvasaurus" White
- LIT IV -

The Vulvasaurus loves Ottawa, FREE stuff and all things romantic.

Considering that reading break is at the end of the month, today's column is focused on romantic or just plain fun things you can do in Ottawa FOR FREE!!! I'm here to make sure you are fitting in some fun in between your (failed) attempts to focus on your studies. Breaks are important! Besides, now when you are trying to impress that super attractive English major you met on the bus, you'll have lots of great ideas for adventures to go on. They won't cost the forever poor English major any money and hey, it won't cost you anything either!

Fun Free Frolic #10:

Thursday Night is Free night at every Museum in the City and the Art Gallery! Between 4 pm and 8pm, you can romance anyone with a surprise visit to the museum that caters best to their interests! The Aviation museum is a bit of a bus ride away, but for anyone trying to get in the pants of an Aerospace Engineer, it is the ideal date spot. You know you've got the hots for that history major: take them for a picnic by the river at the museum of Canadian His-

tory! Sweep that stunning Art History major to the Art Gallery and be blown away by their passion for the works of Art as they explain each piece's context and power.

My challenge for you: See how many museums you can hit up in just one evening.

*You must walk the length of at least one floor of the museum for it to count.

*You must read at least one description for it to count.

Fun Free Frolic #9:

Make up some tea or hot chocolate and curl up on a couch or on a snuggly blanket and do a little canoodling while you get your study on. It's a sure fire way to get no studying done! You know what they say about spooning: spooning leads to forking. And well, forking should always be followed by some serious spooning. (Remember: Spooning is fun. Spooning is enough. Spooning does not need to lead to forking. Always ask first!)

Fun Free Frolic #8:

Ottawa has many beautiful natural gems. The city is filled with beautiful spots for romantic walks, picnics - or some private fun. Check out the canal, the river, the experimental farm, there are many beautiful



forested areas ideal for practising for some of those flight suit badges.

Fun Free Frolic #7:

Take your picture under a gigantic spider. Just outside of the National Gallery of Canada, there is a GIANT spider sculpture, which is an iconic picture taking spot. You look pretty bad ass and it is right next door to the Art Gallery, so if it is a Thursday you can combine it with Fun Free Frolic #10 and hit up a wicked sweet evening of looking at some beautiful art.

Fun Free Frolic #6:

Tour the Supreme Court of Canada! The Supreme Court does complementary tours for students and it is the highest court in the country, so that

is pretty rad. If you have any friends studying law, it would be a great frate (friendship date) or date option to show you are aware and interested in their passions.

Fun Free Frolic #5:

Geocaching! Ottawa is rife with geocaching opportunities. Download a geocaching app on your phone or do it the old fashion way and grab some co-ordinates and a GPS! Check out a geocaching website for more details. It is a great opportunity to show off your navigational skills, which are an attractive feature to improve upon! People who don't know about Geocaching are referred to as Muggles... so you might want to get on that.

Fun Free Frolic #4:

The Chateau Laurier roof. It is possible to get to the roof of this extravagant "castle." First you must wear something semi-cute (because it is a very fancy hotel and you are on an adventurous date) Second, you must find the right set of stairs. Third, you must climb the stairs and get out on to the roof. Finally you should lay down a blanket, get out your picnic snack and the poetry you wrote (or found in a Shakespeare compendium) and get started on romancing your date under the stars. *Bonus points if you choose a day when there are fireworks.

Fun Free Frolic #3:

Question Period. Want to see a heated debate? Hit up Parliament Hill during Question Pe-

riod and see the debates on various issues facing the country. You can get a pass from your local MP (shoot them an e-mail or call their office and they will set a pass aside for you)! There are walk-in seats too. Politics can be very sexy - as long as you vote for the best party and yes.. my party is the best party.. so tread carefully my friends.

Fun Free Frolic #2:

Monopolatte has free cover on Mondays! (However, they do expect you to buy a drink or some snackage... sorry this is only a partial Free Frolic). Monopolatte is a great place to go with a big group or a small, there are games for all group sizes and has a great environment to hang out and makes a great date night too! It is the best way to romance a board game lover (and let's be real, there is a little bit of a board game geek in almost everyone!)

Fun Free Frolic #1:

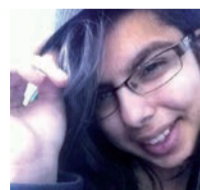
A Public Library! Public libraries are just that, public! Public is free. Libraries are filled with books. Books are awesome. Libraries are romantic, ergo libraries make the best possible dates. Quiet, enjoyable, low-pressure, and comfy chairs and books... it really doesn't get better than this!

*Bonus points if you make it to the National Library and Archives (Which has free tours! Hold history in your hand!).

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

Baby, I'm no Fred Flinstone but I can make your bedrock.

Say What?! Carotenemia



Sarah Ladhani
- ACSE IV -

Hey purple people! I'm an engineering student that's decided to pick up the pen (or keyboard) and stroke out a few words on some of the most random facts. So, here we go!

Did you know...

If you eat too many carrots, you will turn orange.

I'm not joking... it's a medical condition called Carotenemia. First discovered in 1904 by von Noorden, this condition is comprised of two identifying components: high beta-carotene levels and yellow-orange skin [1].

Many orange colored foods like carrots, pumpkin, and sweet potato are rich with carotene. When eaten in high amounts, these foods can start turning your skin orange.

Even though you may start to vaguely resemble an Oompa-Loompa, this skin discoloration is completely harm-

less and reversible [2]. Just reduce the amount of carotene-rich foods in your diet [1].

Some people believe that eating lots of carrots improves eyesight and thus they over eat the orange vegetable. Unfortunately, carrots do not improve eyesight, unless you're malnourished [2].

Carotenemia is sometimes mistaken as jaundice in children [1]. Turns out their parents just made them eat too many vegetables - Imagine that!

Now you know!!

I wonder if there's a food that'll turn skin purple...



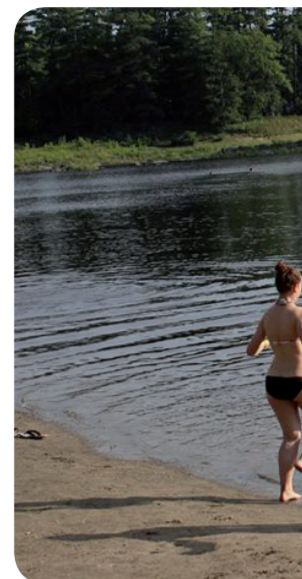
[1] Hiskey, Daven (2012). If You Eat an Excessive Amount of Carrots, Your Skin Will Turn an Orangish/Yellow Shade. Accessed September 2, 2014. <http://www.todayifoundout.com/index.php/2012/02/if-you-eat-an-excessive-amount-of-carrots-your-skin-will-turn-an-orangishyellow-shade/>

[2] Schwartz, Robert A (April 2014). Carotenemia. Accessed September 2, 2014. <http://emedicine.medscape.com/article/1104368-overview>



GALLERY

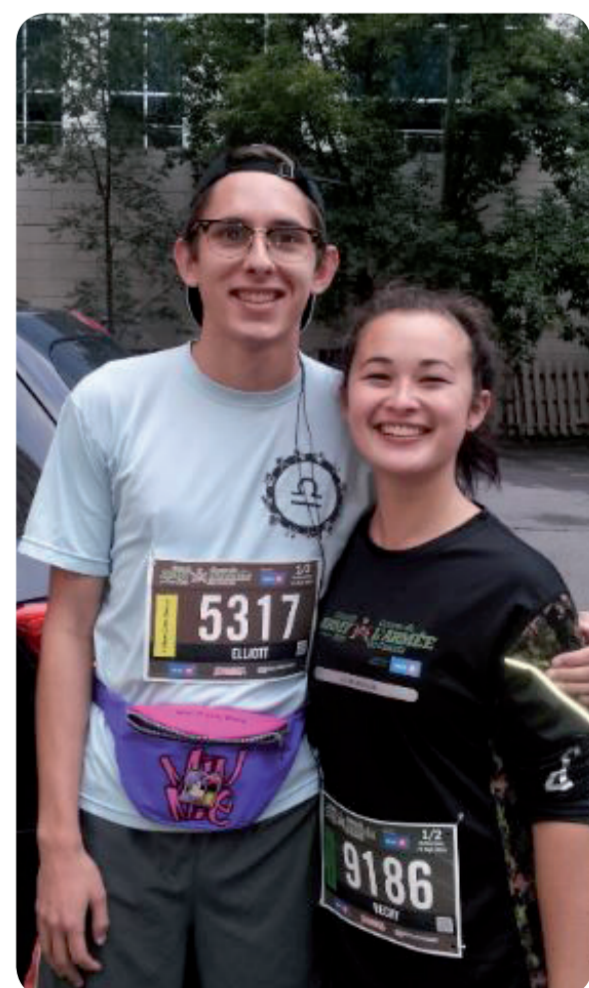
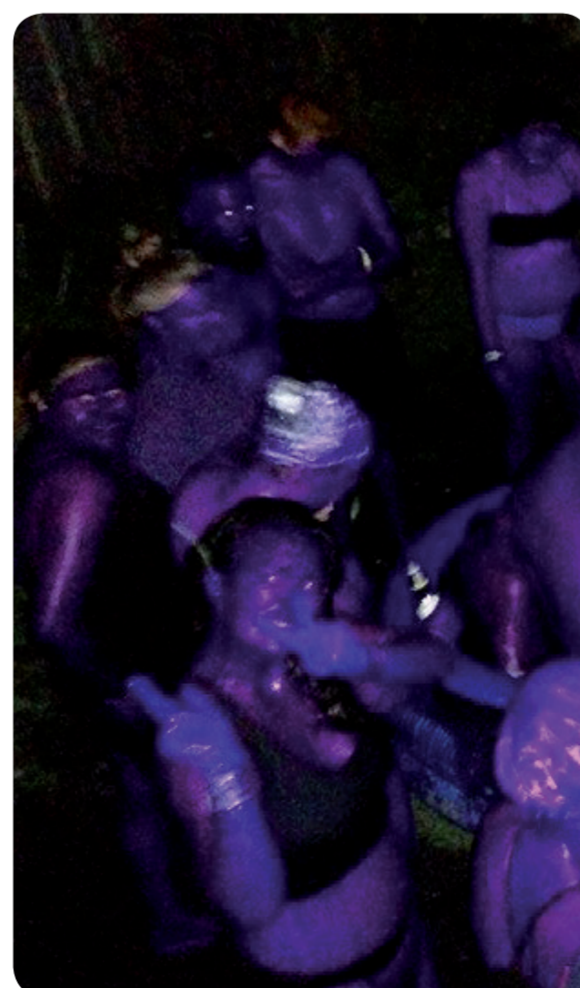
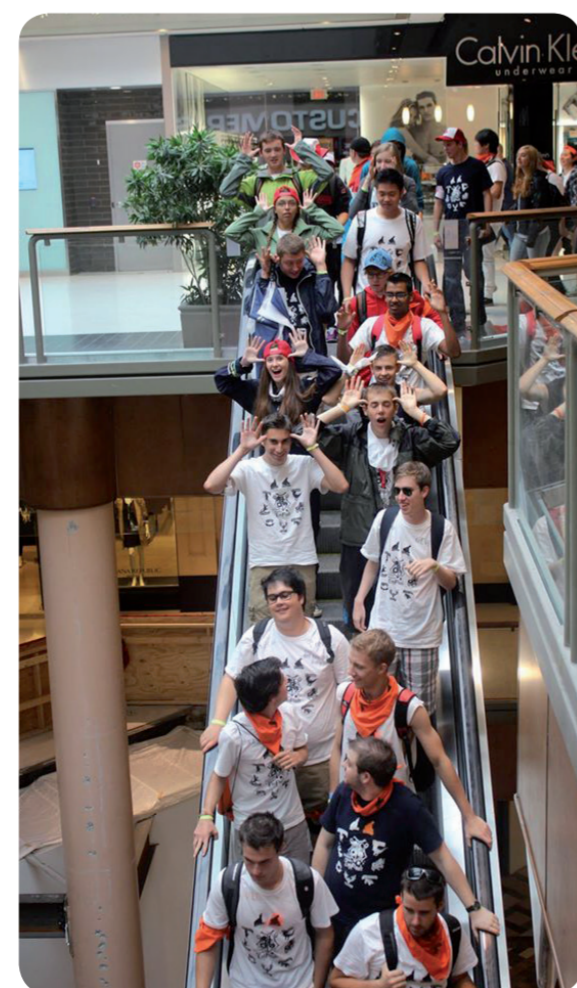
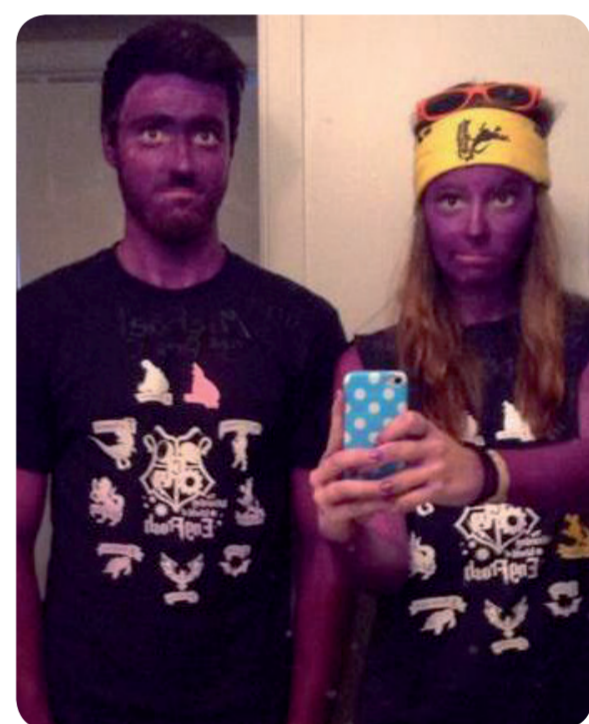
VICTORY IS MOIST



GALLERY



THE HUMANS MAY BE SMILING, BUT THE GOAT KNOWS THE TRUTH



NEXT YEAR: GLOW IN THE DARK PURPLING. BECAUSE IT'S BASICALLY RADIOACTIVE ANYWAY

COLUMNS

AT MINUS 10 CELCIUS, YOUR LITTLE GODIVA MIGHT MORE CLOSELY RESEMBLE TERMINATOR 2



Allan "Bass" Bassi
- AERO III -

There's a little quirk that I've noticed from spending two (going on three) years surrounded by engineering students, one that nearly all of you share, and are more than happy to brag about. Every engineer has a topic – besides their focus of study – which they are absurdly knowledgeable about.

I know aerospace students who have fine-tuned wilderness survival skills, SREE students who could recite the description on any Magic: The Gathering card, and a few young ladies who could tell you how many times Mumford and Sons farted during their last tour in the UK. My theory is that the highly detail-oriented minds of the engineer are susceptible to specializing in anything they get their hands on, and we channel it to our quirks until we have an academic outlet.

My quirk is not impressive, highly sought-after, or even really interesting... in fact, most people you'd meet who share my knowledge-bank you'd pass off as a product high-functioning Asperger's. I rarely find an outlet for this odd craving and so it brings me some release to finally let it out: I have an encyclopedic knowledge of Canadian children's shows from the 2000s.

Braceface, What's with Andy?, Totally Spies, Class of the Titans, Clone High, Robo-roach, or Martin Mysteries ring a bell? Whether they lasted for years, or were cancelled after a season, if you can think of it, I probably watched the shit out of it.

Television in the Naughties (2000-2009) doesn't

Forgotten Gems of the Naughties

A look back at the shows that shaped our childhood



get a lot of nostalgic focus because everyone who was a child ten years ago is probably still enjoying their youth. Cracked, Upworthy, and Reddit are saturated with "only nineties kids will get this" posts; what about those of us cresting full-time jobs who want to get lost in fond memories of coming home from elementary school and wishing that you lived a little closer to Edmonton so you could go to a mall like in 6teen? The naughties feel like they happened yesterday, but there are people who were born after What About Mimi? debuted on TV that are now in high school.

The interest I have in this era of television doesn't just stem from the catchy theme songs (YouTube "Braceface theme song" and I guarantee you'll know the tune) or the memorable characters. As the naughties got underway, Canada was in quite an odd position as far as media content went. Post-9/11, Bush's America was exuding cultural influence like McDonald's was going out of style. The popularization of Internet youth-culture was a nice vessel for spreading videos and music, but with ten-times the population, you'd see a lot more of that media coming up from the south than vice versa (there were a few exceptions in the cases of female artists – I'm looking at you, Avril and Shania).

Now, I love me some Freedom® as much as the next guy, but our Canadian fore-

father's didn't burn down the White House and Detroit so that our children would be culturally assimilated with MTV, Nickelodeon, and Tech Decks. Canada would need to muster its artistic talents and win back the youth.

The Canadian children's TV market was revolutionized in 2000 as Corus Entertainment launched massive rebranding efforts on two juggernaut channels: Teletoon (Télétoon en français) and YTV. The two networks called for massive new programming line-ups, the more bilingual the better. Some of these shows would fizzle out and die soon after being given a post-school timeslot (*cough* Yakkity Yak), some would be bumped to The Detour/Teletoon at Night for more adult audiences (the highly underrated Undergrads), and some would hit it big both here and America, and get renewed upwards of five seasons (Totally Spies or Johnny Test).

It may seem like the Canadian government and broadcasting agencies were just shotgunning out Canuck material to capitalize on patriotic sentiment, but you can't watch the cult-hit CyberSix and not notice beautifully ahead-of-its-time animation techniques and art styles.

If I had a nickel for each time my mom had to come turn my TV off because I fell asleep watching Teletoon, I probably wouldn't need to be in co-op. These TV shows which are very

easy to pass off as "cheap Canadian knock-offs" from an era when Spongebob and Beyblade reigned supreme played a big role in showing that our content could hold its own against the media giant of the USA.

But a sadder reality surfaced as I was digging around for topics to bring up in this article: I can find high-definition re-releases of every season of Teenage Mutant Ninja Turtles through any torrent site on the Web, but I had to dig very deeply to find even a handful of episodes of Redwall.

Media is an odd egg to crack. You can't curtail what people enjoy watching just because 70% of it isn't produced in a certain country. You can't make the argument that it was right to rename Transformers: Beast Wars as "Beasties" because you didn't want Canadian children exposed to the word "war". But in the same vein, why isn't it someone's job to protect the forgotten gems of the naughties?

By the time those of us who would come home from school to watch 6teen are old enough to appreciate our childhood memories, we can only hope that the naughties are as well-preserved as the nineties. If I never see Spongebob again I'll be able to rest easy, but ten years from now after tucking my daughter into bed, I'd better be able to download every episode of Video & Arcade Top 10 or Uh-Oh, or I will burn this fragile world to the ground.

Top 3 Rad Halloween Costumes

Mike "Milkman" Rossyan
- AERO II -

Well it looks like it's that time of the year again, fall! With this cool and very mythical season (at least in Canada) comes great food and awesome holidays. I'm here to tell you about exactly one of those things and how to prepare yourself for it, and that thing Halloween! If you don't want to be the weird guy (or girl) that shows up to a costume party unprepared, I've got you covered. This is your top 3 for the super month of October.

1 > LADY GODIVA

This one is super easy to get supplies for and amazingly comfortable to wear. All that you're going to need is some skin coloured clothing, whether that be a onesie, stockings and a shirt, or even nothing; it's purely up to you. You'll also need a wig, unless of course you already have a sick flow. To complete this signature look, you have got to get a horse. A horse mask on a broom stick is generally acceptable, but you get bonus points for acquiring a real stallion. The best part about this costume is that fact that if anybody asks what you are, you don't even have to respond; just point at said person and start yelling "Found the artsy!"

2 > NINJA

This one is best suited to any social awkward people who accepted invitations to parties they never actually wanted to attend. It does require you to have at least one person you know that is also going to the party as well. You don't have to purchase anything for this costume, unless of course you have nothing to do in the confines of your own household, and that's it, you stay home. If anybody asks where you were, just act confused, saying that you were there as a ninja. This is where the one accomplice comes into play. They will tell you any major events that happened at the party (if they can remember) and you can use that as proof to people who question your presence.

3 > A STEREOTYPICAL NERD

For this costume you can most likely find everything you need around the house. First off, take a pair of old sunglasses or movie glasses that you kept and punch the lenses out. Wrapping tape around the nose piece is completely optional but recommended. Wear your longest pair of socks and your most awkward pair of pants. Make sure to pull them up to your stomach and tuck your shirt in. Finally, grab up your graphing calculator and some of your old textbooks and there you go, the perfect disguise. You can add your own vocal features by trying to talk out your nose.

With these three fresh ideas, you'll definitely be the talk of the party, that is, if you didn't go as a ninja. Happy Halloween guys and don't forget to enjoy autumn and all the pumpkin spiced things!

COLUMNS

THE AVENGERS: 143 MINUTES OF FANGASM

Pucker Up, Legolas

The Top 10 Marvel Movies

Guardians of the Galaxy marks the 10th Marvel Cinematic Universe film and has contributed to it being the second highest grossing film series of all time (behind Harry Potter, let's see how long that lasts).

What makes this series unique is that it debatably has yet to release a bad movie. Sure some are better than others, but not one comes even close to being comparable to A Good Day To Die Hard, Star Trek Nemesis, Superman Returns, etc. This is almost unique in long running movie series.

And since 10 is arbitrarily one of the perfect numbers for doing a top 10 list I figured why not since it's still a long wait until Age Of Ultron:

10. Ironman 2

This is probably the closest to a universally agreed upon placing as this is definitely the weakest in the group. It's still not a bad movie, but it has a lot of problems. Most are centered around not much happens that's interesting: we follow Tony Stark from court, to parties, to passed out. It still introduced Black Widow, had some cool action scenes, and set up for the avengers nicely.

9. Thor 2

This, with Ironman 2, felt the most like a placeholder movie. That is to say it's a fun little movie that advances Thor's storyline, sets up for future movies, and has some good banter between heroes and villains. It's just nothing special. It serves as something to tide us over until the next big film.

8. Ironman

This movie gets the credit of starting everything off, and to do that featured the first appearance of Iron Man's suit, which is still 6 years later just as awesome. This movie has some true high points and low points but was certainly memorable.

7. Ironman 3

Of all the Iron Man movies, this is the one that really has consequences. It is both framed around a consequence of the Avengers (Stark having PTSD), gives Tony Stark a real ark to go through and has an ending which leaves you asking what now. It still suffers from feeling like another placeholder movie and further supports my theory



that while Robert Downey Jr. might be the most charismatic avenger, he needs someone to work off of or else he risks losing the audience.

6. Thor

This is arguably the silliest movie in the entire series, which is saying something considering these are comic book movies. Seemingly out of nowhere, Norse mythology is incorporated into this universe incorporating Thor, Odin, and Loki. It is however self aware enough that it works. All the characters work really well together and Loki is the best villain so far in this universe.

5. Captain America The First Avenger

The previous movies hinted at an Avengers movie, while those who follow rumors and press releases knew it was coming, whereas this movie is what told everyone else. This movie was more of a character piece on Steve Rogers and a period piece during WWII at that. It really well establishes Captain's back story, character, and motivations. It might have been higher except the second half wavered a little bit suffering from "we have a hero, now what do we do with him?" syndrome.

4. The Incredible Hulk

A lot of people are gonna disagree with me on this one, and likely for a few reasons. First of all, I like Edward Norton; I have nothing against Mark Ruffalo, but Edward Norton's portrayal was a lot more interesting. This movie had the only romance in the whole series I felt like I could get behind, one of the better villains, and re-

ally captured the tragedy of this character.

3. Guardians of the Galaxy

I have no idea why this movie was made, and I don't care. The Thor movies might have been sillier, but this movie was just plain fun. I had no idea who anyone in this movie was going in, and it didn't matter. While being light hearted and witty for 90 % of it, it still had some touching poignant moments and also captured the grandeur and seriousness of the situation during the final battle.

2. Captain America The Winter Soldier

This is the "This shit just got real" movie, which is surprising since it was just coming off of a giant alien invasion. This movie opted for a Spy Thriller motif forcing its leads through a cat and mouse game, unraveling a mystery surrounding who's behind everything, all while SHIELD collapses around them. Also, they better keep Falcon around; he is freaking awesome.

1. The Avengers

Growing up, while being a fan of Saturday morning cartoons, I never watched any of the marvel ones except Spiderman and The X-Men, though I did know who most of the Avengers were. That being said, no movie has made me feel more like a 10 year old kid in my life. I thought there was no way they'd be able to live up to the hype this movie generated and not only did they, but they surpassed it. It had everything: good characters, good drama, good pacing, good buildup, and a jizz in your pants battle for the ages.

WHY WE CELEBRATE

NATIONAL ENGINEERING WEEK 2015

A message from Lucas Brewster & Donovan Martin

Everyone loves a good party or celebration, but few people look at or understand the true reason as to why they are celebrating.

Celebrating engineering is about more than saying, "Hey, ya, I'm an engineering student, lets party!" We celebrate engineering because we are proud of what we do every day. Each day we wake up, and not just as individual students, but as a whole community of professions, we can achieve something when we all come together with a common goal in mind. Engineering should be about the betterment of society, and not just the impact that it will have on our wallets. Being able to not only realize this, but proud of it, is more of a reason to celebrate than anything else.

The life of an engineering student is often a vicious cycle of eat, class, lab, study, sleep, and then repeat. So shouldn't this be more than enough of a reason to go ahead and have some fun? But going out and having fun does not have to mean throwing a massive party. If engineering is all the betterment of society and making a difference in the world, shouldn't celebrating be all about spreading this message to those who may not be exposed to it on a regular basis? Well, that's what National Engineering Week is all about!

As engineering students, we want to express the pride and passion that we have for our future profession, as well as show it off to everyone else. This is what NEW will allow us to do. From professional development workshops, to professor meet and greets, to social activities, we will have the opportunity to celebrate together, in a public setting, what engineering is all about. So we ask you, why do we celebrate? Because we're loud, we're proud, we're purple, and we're just a tad bit crazy. So when March rolls around, come out for a week full of engineering pride and excitement.



YOU KNOW YOU ARE IN CONSTRUCTION WHEN...

"Qubit"
- AERO -

"Screech"
- CIVE -

"AIA"
- CIVE -

Upon graduating from Carleton some of us dove head first into the world of Construction. Some of us landed on our feet, and some of us bounced through a puddle or two. There's a lot that happens on site, here are some things we've realized that remind us; You know you're in Construction when...

- ...You don't think twice when talking about vibrators, whips and erection crews.
- ...You get awkward civil boners at work. (see page 16)
- ...60 hours a week is nice, easy and relaxing.
- ...New carahrts are considered dress pants.
- ...Zip Ties make an acceptable, and fashionable belt.
- ...You park at work and only see one car.
- ...You have the least experience on site but are explaining to the superintendents what they are building.
- ...As bad an idea that you think that is, some one considers themselves a genius for coming up with it.
- ...Kelsey can decide if a bridge is safe or not.
- ...You're given 4 days notice to move half way across the country.
- ...You need the guy who wired this to turn it on.
Cause if anyone deserves to die it should be him.
- ...Safety know the least on site and you can tell QC by how many fingers they are missing.
- ...Names like Liquid Larry, Cock Bender, and Chief Stands-a-lot are socially acceptable.
- ...You buy new \$200 boots and quickly step into mud as soon as you can.
- ...Any form of bad weather is referred to as beer clouds.
- ...If it doesnt work hit it with a sledge.
- ...And if the sledge doesn't work, put some heat on the fucker and hit it again.
- ...The more tests you get done the more you realize you don't know.





CARLETON STUDENT ENGINEERING SOCIETY



Alexander's Office
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/MyCSES



www.cses.carleton.ca

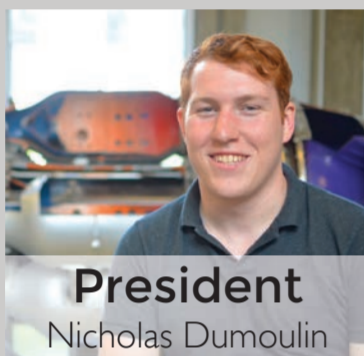


@MyCSES

WHAT IS CSES ?

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

ITS GOAL IS TO PROVIDE ITS MEMBERS WITH ACADEMIC, PROFESSIONAL, AND SOCIAL RESOURCES TO HELP THEM MAKE THE MOST OF THEIR FOUR (OR MORE) YEARS AT CARLETON. IF YOU'RE AN UNDERGRADUATE STUDENT ENROLLED IN A STREAM OF ENGINEERING, YOU'RE A MEMBER OF CSES.



“ Now that the school year has begun, CSES has been very busy making sure the year starts off right! 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!



“ Hey all! I hope that everyone had a great first month back at school and is now ready to face real life. Some must-attend events for the month of October include a trivia night at Ollie's (Oct. 14th), a campus clean-up, one of the Stream Cup challenges (Oct. 8th), and Yuk Yuks Comedy Night (Oct. 16th). Whirlwind tickets will also be going on sale shortly so make sure to get yours! PRO TIP: All of my events count as a stamp towards your lovely flightsuit!



“ Little is exciting on the finance front. Applications for Student Group Funding opened on September 22nd and closes October 27th. Consult the CSES website for more information on acquiring funding, and I look forward to seeing some great Halloween costumes this year!



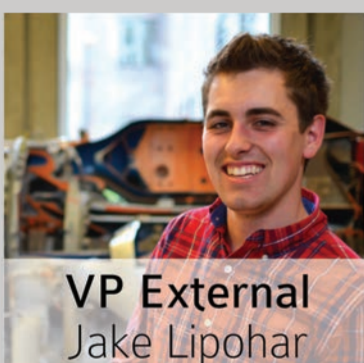
“ Hey C-Eng! Election results are in and come to the Fall General Meeting to see who your new councillors are! Also come to FGM to hear what we, as CSES, have been up too, voice your opinion on society matters and enjoy free food! Keep looking for the announce email for all updates on anything Carleton Engineering. If you have any questions, send an email to questions@cses.carleton.ca. 'Til the next month, C-Eng



“ Another month, another blurb! I hope everyone's year started off amazing and I hope you're all looking forward to what the rest of the year has in-store! Congrats to the new flightsuits and committee! Good news: Agenda's finally come in so if you haven't gotten one pick one up from Alexander's Office today! Passports will be in shortly so keep an eye out for those! Interested in getting involved? Write for this newspaper! Or show us your design talents by submitting YOUR EngSwag designs! Both can be submitted to: publications@cses.carleton.ca



“ The Leo's management team has done a tremendous job getting the lounge ready for the year. In the CSES Office, new shelving allows for a more organized, visible textbook trade/library. Our gong was getting lonely covered up in the back of the office so now it hangs in its new home right behind the front desk. Keep your eyes peeled for directorship applications, I need all the help I can get! In the coming weeks we'll be getting the Equipment Loan Program (ELP) and the Textbook Library spruced up and ready to go.



“ Since the school year has started, I have been busy with preparing and attending two conferences: the ESSCO President's Meeting in Guelph, and the CFES President's Meeting at Conestoga. These two sets of sessions and meetings have made me much more comfortable with our provincial and national representative bodies, and I am doing my absolute best to be an active member in the discussions on student life and policies. Moving forward, I will be attending the National Conference on Women in Engineering and bringing new knowledge from across Canada back to C-Eng.



“ Make sure that you take part in this year's Carleton Engineering Competition! Check out our Facebook page for details and you could end up representing Carleton at provincials (OEC) or even nationals (CEC) if you win! Another thing I can help you with is academic advocacy. If you are having problems in / have a complaint regarding any of your courses, please email your concerns to me at concerns@cses.carleton.ca! I will do my best and use my resources to help you out! Have a great month, C-Eng!

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.

COLUMNS

ENGINEERING DIVERSITY STARTS AND ENDS AT BEARD LENGTH

The Six that Stick

The Wonderful Diversity of Students in Engineering



Noah "SoundCloud" Pacheco
- AERO I -

Flip to page 81 for a laugh. Ha ha. Get it? Cuz there is no page 81! Yeah... Anyways let's write something other than nonsense.

Introductions! Huzzah! My name is Noah "SoundCloud" Pacheco and I am a first year aerospace student. As you might be able to see from the title, I will waste some space here writing about the SIX DIFFERENT PEOPLE you can expect to meet during your first week at Carleton University. Or I guess any university. To be honest, I'm not really sure. Never been to any other universities before. But I'd like to assume there is some consistency. Anyways, here we go.

THE SUPER SOCIALITE:

Within the first three minutes of my university experience, I had encountered one of these. Actually, technically I wasn't even in university yet. It was during a summer orientation. Let me tell you the story.

So I was sitting in the res caf eating some tacos probably (I can't remember) and then out of nowhere this girl, (Let's call her Lana), Lana comes up to me and asks if she can sit with me. Now to an average person I'm not sure if this is normal behaviour but to me this is blasphemy. A person? Asking another person? What is this? What universe am I in? Needless to say, I'm very anti-social. But I digress...

Lana comes up, introductions are swapped, etc, etc. There's a break in the conversation where I notice she takes a deep breath and then starts to spill every single little detail about her life. When and where she was born, how her preschool life was, whether she likes chocolate or vanilla ice cream, her theory on why the sky is blue, just every single possible topic you could ever imagine.

Now, I'm not sure if Lana was like this because she had no one else to talk to or if she simply just liked to talk. Oh and



Lana, if you're reading this, it's totally not you.

(Jokes only, Love you Cylina)

THE NO SHOW:

I actually didn't meet this person. He never came to class. Tsk Tsk Tsk.

THE INTROVERT:

I personally love this story. And this person. I feel like I can relate to her on some sort of "not giving a shit" level. Let's call her Jess.

The first thing I ever said to Jess was in a huge introduction circle, you know like the ones where you go around, say your name and one fun fact about you? Yeah. When it was her turn, she said her name, her fact and out of nowhere, some guy blurted "Jess, you have nice eyes." No idea who that was. But kudos to that guy. Just kidding, that guy was me and yes it was hella awkward and no I wasn't thinking. Whatever. I couldn't actually see her reaction but I imagined she blushed. Knowing her now though, I'm starting to reconsider that theory.

I eventually got to know her. Solid chick. Totally not what one would expect out of such a quiet person. I mean, she's a metal head. Really wicked shit. Sometimes though, whenever I see her I'll sit next to her and we won't say anything. I find it kind of neat. You can't really do that these days, sit in complete silence with a friend and not have the urge to start a con-

versation. I be sure to always leave by saying, "Always nice talking to you, Jess" regardless if talking really ensued.

THE PROFS:

Now these ones are a toss up. They could either be the highlight of your day, the skip in your step, the coffee in your cup or the shit in your shoes, the trip in your fall. I feel I was blessed this semester seeing that most of my profs are pretty entertaining. Like honestly, Mingarelli is more comedian than mathematician. What's he doing in the education buisness? (Aliens.)

THE YOU:

It's gonna sound cliché but I'm not gonna lie. I learned a lot about myself in these first few moments of university. I've learned that I'm hella poor. I've learned that I'm easily tempted by any form of food. I've learned that I can't sit and read textbooks for a damn. I've learned that I make friends a lot easier than I thought I'd do. But finally I've learned that just like every other froshy here and actually reading this, I'm not alone. Here's to many more adventures in the 4...5... maybe 6... years to come.

Oh and PS: Any reference to any characters living or dead is purely coincidental. So to those I referenced, it's totally not you. K that's it. Much love.



CIVIL BONERS

Harrison "Gingersnap" Knill
- CIVE III -

I know everyone can appreciate beautiful rigid members when they see one. This is why I've devoted an entire column to showing those off. If you enjoy structural design, ask me about the Troitsky Bridge Building competition that CSCE runs every year. The event is hosted by Concordia University, where popsicle-stick-bridges built by you are put to the test. Okay, plug over. Now it's time to whip out those cantilevers and appreciate amazing feats of civil engineering.



Above: Salt Lake City Public Library

Below: Shenzhen Bao'an International Airport, China



Above: This random house in France is pretty crazy.

Below: This bridge has seen it all. Opened in 1890, the Forth Bridge, Scotland



COLUMNS

WHO'RE YOU CALLING A PUFF?

CIVIL BONERS ++

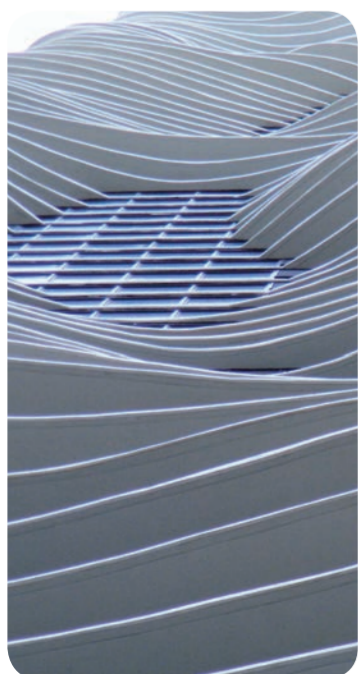


Above: Nanyang Technological University, Singapore
Below: The Interlace Condominiums, Singapore



Above: South Grand Island Bridge, New York

Right and Below:
Aqua Skyscraper, Chicago



CUT PUFF STRUT

This Month on Crafts with Crowston: How to Make a Pom-Pom



Zoe Crowston
- ASCE III -

THINGS YOU WILL NEED



YARN

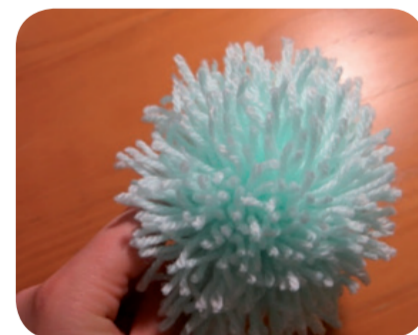


SQUARE COASTER



SCISSORS

- 1 > Take your coaster and yarn.
Hold yarn in place at the top using your hand.
- 2 > Start to wrap the yarn around the coaster, try to cover that first wrap so that you don't have to keep holding the yarn, but try to keep it taut but not tight, you'll have to move it later and you don't want it to be too hard.
- 3 > Wrap for a long ass time, or until it looks close to a size appropriate for a pompom
- 4 > Cut the wrap and hold it
- 5 > Cut a piece of yarn about a foot long and fold in half.
- 6 > Slide off the warp yarn from the coaster into the piece of yarn you have. Try to get it centered.
- 7 > Tie the piece of yarn around loops as tight as possible.
- 8 > With your scissors cut all the loops that were created by warping the yarn
- 9 > Shake it and make it fluffy.
- 10 > Cut the ends a little to give it a nicer shape, and a bit more even if there are pieces that are obviously longer



Now that you have a pom pom what the hell will you use it for? You can add it to a hat that you have that is missing the awesomeness of a pompom. I pinned it to my cork board and it looks pretty awesome there. You can throw it at people. Either way, have fun and good luck!

DISTRACTIONS

LET'S SEE YOUR BEST MINECRAFT GENITALIA



C Y U C C L Y G L M F D N O H D G N D M
K X G I O R A I N O O O A Y P O N O E A
W N B R E N Q C U I I D D A C W I I C E
X U O T U U S N I T K R U I R N N T O R
C U T W E L D T A N O C T L T S O A M T
S A D F L A L N R M A Y A U A T I R M S
B O I I T E O A E U L H R R M R S A I P
N E I I A I D T T A C N C W C E S P S U
D M O P T B A G T E K T G E S A I E S R
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N Z A I L R C O Y L A O C B O E M R O V
Z R O U S T O O R S S A R G I E O E N L
F I R T A M Z A H P R M P Y S L C A I O
L G J R Q F E E D S T O C K P Y I C N G
Y P H O T O V O L T A I C S N T D T G I
M A L H G N I D L I U B O L A S C O Y S
I R N N O D W W A F E R I N S U A R G T
F I F S H P B P Q H A R Q W A B X O U I
B E A R I N G J W T H T F J U R J G J C
L X T G N I N N I W O R T C E L E X A S

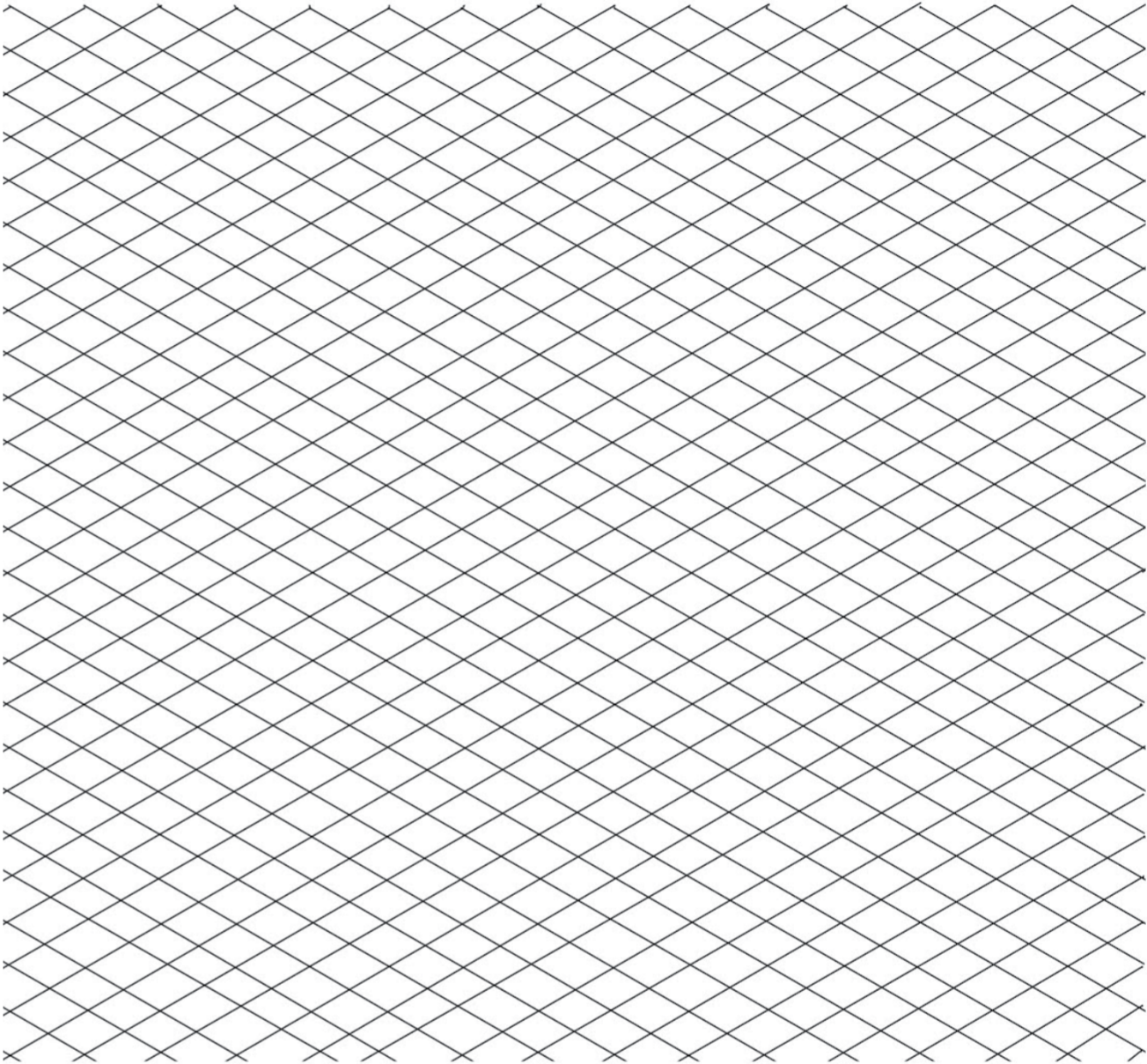
ABSORPTION
BEARING
CATALYTIC
CRACKING
DOWNSTREAM
FOUNDATION
HAZMAT
LIQUEFIED
MODULAR
PHOTOVOLTAICS
RIPIOS
UPSTREAM

ANSI
BUILDING
COMMISSIONING
CUBIC
ELECTROWINNING
FRACTIONATION
HYDROMETALLURGY
LOGISTICS
NASA
PYROMETALLURGY
SEPARATION
WAFER

BATTERY
BUSTY
CONSTRUCTABILITY
DECOMMISSIONING
FEEDSTOCK
GRASSROOTS
KNOWLEDGE
MECHANICAL
OIL
REACTOR
TURNKEY

ISO - FABULOUS

Send us your best isometric drawings, and we'll put them in the next issue. All submissions welcome.



HOROSCOPES



ARIES

THE SMELL IS PROBABLY YOU.



TAURUS

WHEN YOUR PARTNER SAYS “DON’T STOP”, THEY REALLY MEAN “GET THE POWER TOOLS”. YOU MAY BE INADEQUATE AS A PERSON, BUT NOT AS AN ENGINEER.



GEMINI

DON’T FORGET TO LOOK IN THE MIRROR THIS MONTH. IT’S ALWAYS NICE TO GET A GLIMPSE OF PERFECTION.



CANCER

OCTOBER IS GOING TO BE A GREAT MONTH FOR YOU! AND THAT “SEXY” HALLOWEEN COSTUME IS GOING TO BE JUST AS FUNNY IN COURT.



LEO

YOU WILL REACH A CROSSROADS THIS MONTH. ACTUALLY, MORE OF A 6 LANE NO RIGHT-HAND TURN INTERSECTION WITH A PISSED OFF COP AND A BROKEN TURN SIGNAL. GOOD LUCK!



VIRGO

WHEN IT’S NOT YOUR JUNK IN THE PHOTO, YOU’LL KNOW YOU JUST GOT DUMPED OVER SNAPCHAT.



LIBRA

YOU SHOULD START WORKING ON YOUR CARDIO THIS MONTH. COUGARS HAVE BEEN SIGHTED IN OTTAWA, AND THEY’RE FAST THAN YOU THINK IN HEELS.



SCORPIO

SHE MAY BE COLD AND CLAMMY WITH A BOLT THROUGH HER NECK, BUT YOU’LL KNOW TRUE LOVE WHEN YOU SEE IT. BRING A MARINE BATTERY.



SAGITTARIUS

YOU ARE GOING TO FIND SOMETHING UNEXPECTED WHEN YOU GO HOME FOR READING WEEK. REMEMBER: HAIRSPRAY AND A LIGHTER MAKE AN EFFECTIVE FLAME THROWER.



CAPRICORN

WHEN YOUR ASS WAS PEEKING OUT OF THE COSTUME, IT WAS SEXY. WHEN IT’S SLIDING OUT LIKE PUDDING THROUGH A FORK, YOU SHOULD CONSIDER THE FACT THAT YOUR CHILDREN WILL HAVE FACEBOOK.



AQUARIUS

YOU KNOW THOSE DAYS WHERE EVERYTHING JUST FALLS INTO PLACE? YEAH, THIS IS YOUR MONTH TO TRY SKYDIVING.



PISCES

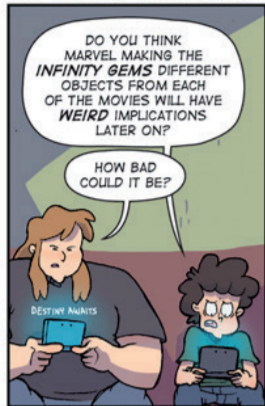
KEEP AN EYE OUT FOR ANYONE WEARING RED THIS MONTH. THEY’RE PROBABLY A CYLON.

DISTRACTIONS

BECAUSE APPARENTLY WE DIDN'T HAVE ENOUGH LAST TIME

NERD RAGE

INFINITE POTENTIAL



WWW.NERDRAGECOMIC.COM



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THE ENGINEER'S SURVIVAL GUIDE TO

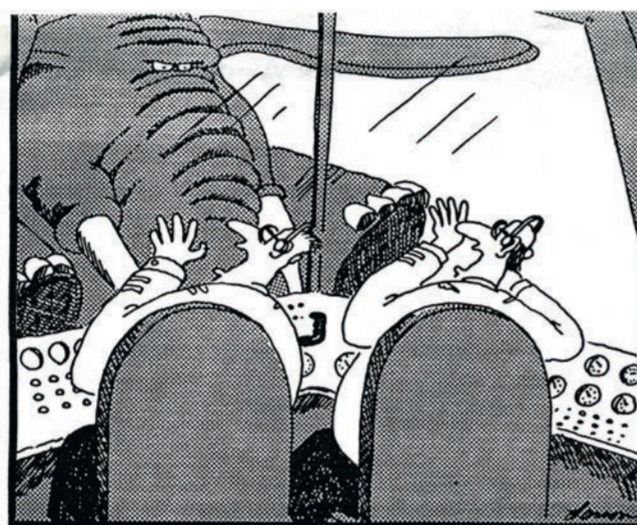
AWKWARD SITUATIONS

REALIZING YOU'RE IN THE WRONG CLASS.



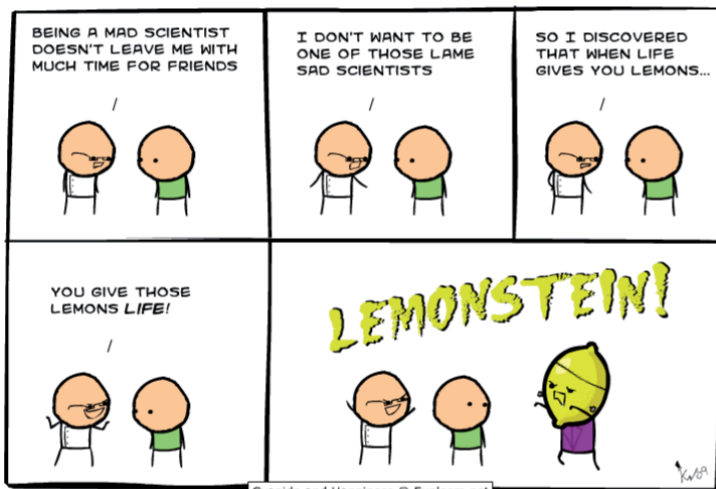
SUBMITTED BY: NICOLE MACKIN

THE FAR SIDE



Becoming a rogue in his later years, Dumbo terrorized the world's flyways.

CYANIDE AND HAPPINESS



Cyanide and Happiness © Explosm.net

THE OATMEAL

I drew some tweets

A few weeks ago I started following @toptweets because it posts the most popular items on Twitter. I thought it'd be a good way to find interesting or insightful tweets.

What I found was a far cry from insight, so I decided to illustrate and comment on my findings.

TheNotebook: The Notebook of Love 13 by toptweets
A relationship with God is the most important relationship you can have.



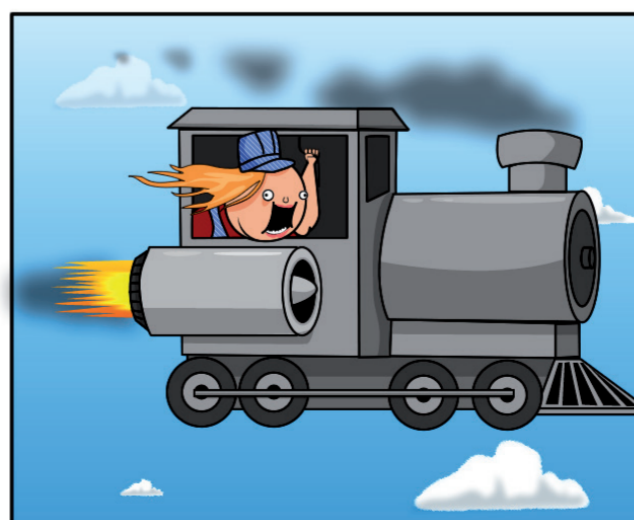
Oprah_World: Oprah Quotes 13 by toptweets
Surround yourself with only people who are going to lift you higher. -Oprah



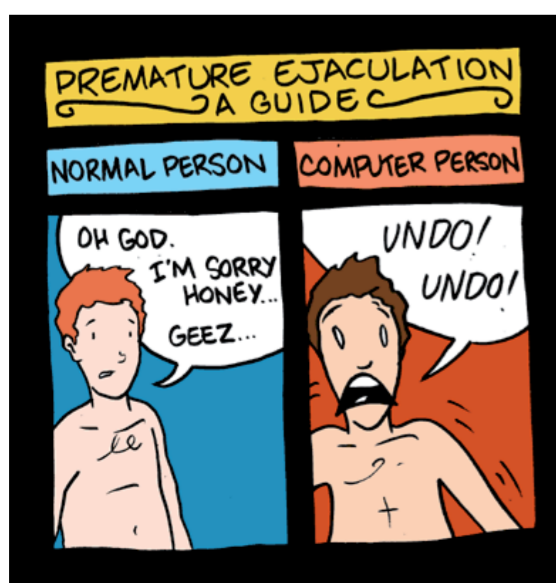
ochocinco: Chad Ochocinco 13 by toptweets
Start ur day off positive. Look yourself in the mirror and say: I'm good enough, I'm smart enough, and gosh darnit people want to f*ck me.



@kirstiealley Kirstie Alley
I'm leavin on a jet train ...



SMBC



The Origin of Pleated Pants

XKCD

A TABLE OF SLIGHTLY WRONG EQUATIONS AND IDENTITIES USEFUL FOR APPROXIMATIONS AND/OR TROLLING TEACHERS

(FOUND USING A MIX OF TRIAL-AND-ERROR, MATHEMATICA, AND ROBERT MUNAFORD'S RES TOOL.)
ALL UNITS ARE SI UNITS UNLESS OTHERWISE NOTED.

RELATION:	ACCURATE TO WITHIN:
ONE LIGHT-YEAR (m)	99 ⁸ ONE PART IN 40
EARTH SURFACE (m ²)	69 ⁸ ONE PART IN 130
OCEANS VOLUME (m ³)	9 ¹⁹ ONE PART IN 70
SECONDS IN A YEAR	75 ⁴ ONE PART IN 400
SECONDS IN A YEAR (RENT METHOD)	525,600 · 60 ONE PART IN 1400
AGE OF THE UNIVERSE (SECONDS)	15 ¹⁵ ONE PART IN 70
PLANCK'S CONSTANT	$\frac{1}{30\pi^e}$ ONE PART IN 110
FINE STRUCTURE CONSTANT	$\frac{1}{140}$ [I'VE HAD ENOUGH OF THIS CRAP]
FUNDAMENTAL CHARGE	$\frac{3}{14\pi^{\pi^{\pi}}}$ ONE PART IN 500
WHITE HOUSE SWITCHBOARD	$e^{\sqrt{1+\sqrt{e/8}}}$
JENNY'S CONSTANT	$(7^{\frac{1}{2}} - 9)\pi^2$
INTERMISSION:	
WORLD POPULATION ESTIMATE WHICH SHOULD STAY CURRENT FOR A DECADE OR TWO:	
TAKE THE LAST TWO DIGITS OF THE CURRENT YEAR: 2014	
VERSION FOR US POPULATION: 322 million	
SUBTRACT THE NUMBER OF LEAP YEARS SINCE HURRICANE KATRINA: 12	
ADD A DECIMAL POINT: 1.2	
ADD 6: 6 + 1.2 = 7.2	
WORLD POPULATION IN BILLIONS.	
ELECTRON REST ENERGY	$\frac{e}{716} J$ ONE PART IN 1,000
LIGHT-YEAR (MILES)	24242 ONE PART IN 1,000
$\sin(60^\circ) = \frac{\sqrt{3}}{2} = \frac{e}{\pi}$	ONE PART IN 1,000
$\sqrt{3} = \frac{2e}{\pi}$	ONE PART IN 1,000
γ (EULER'S GAMMA CONSTANT)	$\frac{1}{\sqrt{3}}$ ONE PART IN 4,000
FEET IN A METER	$\frac{5}{9\pi}$ ONE PART IN 4,000
$\sqrt{5} = \frac{2}{e} + \frac{3}{2}$	ONE PART IN 7,000
AVOGADRO'S NUMBER	$69\pi^{18}$ ONE PART IN 25,000
GRAVITATIONAL CONSTANT G	$\frac{1}{e^{(\pi-1)(\pi+1)}}$ ONE PART IN 25,000
R (GAS CONSTANT)	$(e+1)\sqrt{5}$ ONE PART IN 50,000
PROTON-ELECTRON MASS RATIO:	$6\pi^5$ ONE PART IN 50,000
LITERS IN A GALLON	$3 + \frac{\pi}{4}$ ONE PART IN 500,000
g	$6 + \ln(45)$ ONE PART IN 750,000
PROTON-ELECTRON MASS RATIO:	$\frac{e^2 - 10}{\phi}$ ONE PART IN 5,000,000
RUBY LASER WAVELENGTH	$\frac{1}{1200^2}$ [WITHIN ACTUAL VARIATION]
MEAN EARTH RADIUS	$5^8 6e$ [WITHIN ACTUAL VARIATION]
PROTIP - NOT ALL OF THESE ARE WRONG:	
$\sqrt{2} = \frac{3}{5} + \frac{\pi}{7-\pi}$	$\cos \frac{\pi}{7} + \cos \frac{3\pi}{7} + \cos \frac{5\pi}{7} = \frac{1}{2}$
$\gamma = \frac{e}{3^4} + \frac{e}{5}$	$\sqrt{5} = \frac{13+4\pi}{24-4\pi}$
$\sum \frac{1}{n^4} = \ln(3)^e$	

BONER HUMOUR. IT HASN'T GOTTEN OLD YET.

LAST CALL

IRONMEN? IRON PEOPLE? IRONED ONES?



THE IRON LADY JUSTINE GODIN

- AERO II -

Hometown: Fort Erie, Ontario

CENG Involvement: CSES Chair, Formal Events Director, Student Group Funding Director, Leo's Supervisor

First Experience with CENG: The first day of frosh week and I don't think I was ever so frightened before

Best Idea Ever: Going to Carleton

Worst Idea Ever: Going to Reflections the night before a midterm

Advice for younger engineers: Use your resources wisely (girls especially)

Advice for your older self: If at first you don't succeed drop the class before you get an F

Battle-cry: I lost the game

Favourite prof: Mingarelli because of his infinite love for coffee

Spirit animal: Squirrel

First 3 things you grab for survival after hearing the news of the beginning of the zombie apocalypse: A rake, 36 feet of industrial grade tarp, and Ethan because he has the keys to Leo's

Where's Waldo? Loeb building

USES FOR THE CHARLATAN

> Use it to hide your offensive t-shirt. Nobody will bother to read it.

> Slice into strips for emergency toilet paper: it's already crappy.

> The dye rubs off easily: use it for a quick football look

> Plaster over your escape tunnel from Glengarry

> Build a shelter while waiting in line for the iPhone 6

> Reduce the coefficient of static friction in the tunnels: service carts can do handbrake turns, you know!

> Smother with turkey grease, roll up and light as a thanksgiving candle!

> Send to Rob Ford to help kill his cancer



THE IRON MAN LUCAS BREWSTER

- AERO II -

Hometown: Mississauga, ON.

CENG Involvement: GNCTR, CULT aka CPRT, Troitsky, 2014 Social Ace, Most SOOPP Worthy First year, EngFrosh Facil, 2015 NEW Co-Chair

First Experience with CENG: Summer Orientation

Best Idea & Worst Ever: Buying (and filling) a Red Bull fridge followed by a 3D projector. I should really be asleep right now.

Your Inspiration: Chris Hadfield. Just an ordinary farm boy from Sarnia, ON who became the commander of the ISS.

Advice for younger engineers: Study twice as hard as you study, sleep twice as much as you study, and party as much as you can.

Advice for your older self: Work hard and efficient. You'll want time to enjoy all the rewards from all of today's hard work.

Battle-cry: You need more beer!

Favourite prof: Angelo Mingarelli. Amazing stories on a daily basis that even involved him using Google Street View to "better engage" us within the story.

Spirit animal: Cats on the walk home from FSK's

First 3 things you grab for survival after hearing of the beginning of the zombie apocalypse: Extra ammo, a balanced breakfast, and adult diapers.

Where's Waldo? Wojtek's Asshole

DOCTORS

Surgeon: Connor Buott
Anaesthesiologist: Michelle Davis
Surly Orderly: Nick Dumoulin

NURSES

Mitchell Brown
Serita Fudlosid
Vicky Madge
Adam Mikolajczak
Jasmine Shaw

- FOOTNOTES -

ISSUE MADE POSSIBLE BY

3 m³ second-hand weed smoke
300 Cough Drops
36 Hours Without Sleep
1 AWOL Publicist

APOLOGIES

To anyone who's programs we got wrong in September. Apparently nobody else was offended.



THE IRON TIMES WILL RETURN IN NOVEMBER