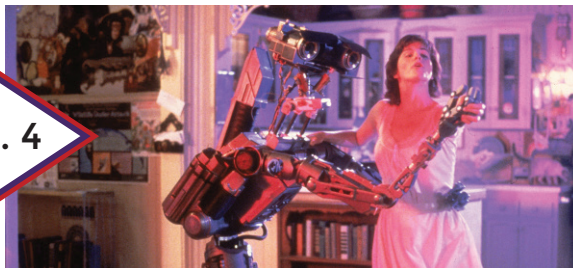


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THE CARLETON STUDENT ENGINEERING NEWSPAPER

THE IRON TIMES

COLD BUT COMMITTED

CSES.CARLETON.CA/PUBLICATIONS/THEIRONTIMES

MARCH 2015

TEAM CARLETON TAKES OEC 2015



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AND MUCH MORE!!!



Julia "Safe Space" Dalphy
- ACSE III -

Well C-Eng, upon returning from the 2015 Ontario Engineering Competition, which was held at Ryerson University from Feb. 6-8, I thought it'd be nice to share our experience this year with you!

First, let me tell you about Team Carleton. This year, Carleton managed to send more people than

ever before to OEC (we definitely had one of the biggest teams there, with 30 people!) through 2 Junior Design teams, 2 Senior Design, 2 Communications competitors, 1 Consulting team, 1 Debate duo, and for the first time ever, 1 Programming team. In total, we had 28 competitors, 1 Team Captain (VPA), and 1 Faculty Advisor (Professor Merrett). Other schools were certainly blown away at our commitment to this year's team! All of our competitors qualified for provincials after winning at the Carleton Engineering Competition, which took place in October (with over 100 competitors!). Then, they underwent a new "Training Program", orchestrated by the Team

Captain and Professor Merrett to prepare. In total, 15 schools from across Ontario took part, including: Ryerson, Carleton, Conestoga, Guelph, Lakehead, Laurentian, McMaster, OttawaU, Queens, RMC, Toronto, UOIT, Waterloo, Western, Windsor, and York! OEC's theme this year was "Green Energy Infrastructure"—a great fit for us, with the number of SREEs on our team!

So, what happened at OEC?! Well, let me break it down for you!

[CONTINUED ON PG. 12]



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

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



EDITORIALS

PICTURE LOOSELY RELATED

FROM THE DESK OF THE EDITOR SECOND FIDDLE

How Serving as Editor has Redefined How I Challenge Myself



Connor "Birdbath" Buott
- AERO III -



It all started with an annoyed outburst. "Honestly, dude? I'm tired of playing second fiddle to you".

Allan, my best friend since Engfrosh 2012 (GO LEGOS!), and I were walking down to the bus stop from another long Solids lecture, on a frozen night in late February. We were discussing our plans for third year, and Allan, who was running for VP Finance for CSES, had just offered to make me his Director, should he win. Maybe it was the bitter cold, maybe it was the exhaustion after a long week, but my harsh dismissal was surprising, to both of us. A moment passed, then Allan, frozen breath hanging in the air responded: "The fuck are you on about?"

The conversation that followed, held shivering while waiting for a 111 in front of Stacie, is what allowed me to overcome a character flaw that has plagued me my whole life: a lack of ambition.

A realization a long time in the making, ambition has come to be the character trait that I see at the root of my of my own, and many others, issues when trying to reconcile who they want to be with who they are. Many times I had wondered to myself why I hadn't accomplished more? Why hadn't I entered that science fair? Why didn't I run for that position? Why have I never gone to an FSK? I've always been goal-oriented, focused, and never shying away from work. But somehow, throughout my life, I'm always drifting a little behind the big fish.

Sure, I had great grades, and was involved in clubs and sports, but rarely did I find myself leading, find myself out in front of the pack. Some

of that comes from my level of socialization: I had few friends early on, and it wasn't until Grade 10 that I got the hang of casual conversations. Even today, after years of camp and res-fellowing and hangouts with friends, I have to steel myself before entering a crowded bar/house-party.

But in Engineering, as in the real world, this social aspect plays just as much a role as how hard you work. Many opportunities about being in the right place at the right time, those collisions of circumstance, that unless you jump on them, they drift right by. A chance conversation with a professor, a recruiter at a networking night, a stranger on the bus. In my case, finally sharing my thoughts with my best friend led me to be offered the incredible opportunity to lead this newspaper, a chance that wouldn't have happened had I not decided to aim a little higher / had Allan not kicked me in the ass.

In the greater scheme, I think ambition is what holds a lot of us back: somewhere along the line, we convinced ourselves that we weren't deserving of being the best, and this holds us back from jumping on bigger opportunities. I see this problem especially in my male friends

through-out high-school and university. In an attempt to fill the need for accomplishment and gratification, we turn to video games, to sports, to simpler tasks that we can feel like we are not just accomplishing, but excelling. I know that's been one of the driving forces that has kept me running: yes, it keeps me healthy, but rarely do I feel more accomplished than when I finishing a run. After 3 years of god damn rocket science, one of my proudest achievements is not any project or presentation, but running a marathon. It's this misguided search for meaning and gratification that has held some of us back from achieving more, from breaking out of our awkward, young-adult shells. For most of us, all we need is that one opportunity, either by chance or by the kindness of a friend, that gets us into gear, and helps us punch through that dull cloud of "I don't think I can", and allows us to actually grab hold of what we want.

Serving as Editor-in-Chief for this passed year has helped me change my priorities. It's gotten me talking to the right people, it's helped me become more connected to the engineering community, it's helped me meet new friends, and it's given

me something new to be proud of. Hell, I'm like an excited parent every time a new shipment of the Times comes in. It's made me hopeful that I can change my priorities for the better, strive to be more, and eventually accomplish my dreams (eh, SpaceX??). And this is the lesson that every article by every graduating student, every Iron Man and Lady, every successful and accomplished engineering student has always tried to convey: "GET INVOLVED!". Being involved in the engineering community is not just a way to have some fun: it helps us lay the groundwork for the type of engineers, and the type of people, we want to be. And although I've had a hand in many clubs and projects since my first year, working as Editor is the first time that I've been steering the whole ship. It's given me a renewed confidence, and it's changed my whole outlook on the rest of time here in CENG. I'm happier than I've ever been, and I can't wait to tackle some even bigger goals in the coming years.

Wait, what the hell do you mean I've only got one year left?

Maybe a 5th year ain't so bad...

EDITORIALS

WE DIDN'T THROW TEA IN THE HARBOUR BUT...



Rebecca Feddema
- ACSE II -

Reading week is over, midterms are being demolished and the end of the school year is just around the corner. You might say that you have this university thing in the bag, you've survived first year! But it's not over yet. Around this time of year there is a traditional slump in the amount of effort put into university life. As the weather gets warmer the thoughts of the young adult drift toward the bliss of summer and sleeping in. But snap out of it, you still have almost two months left and university struggles aren't giving up without a fight! You must be weary of the following obstacles before reaching your summer reward.

1. Grades

As the end of the year approaches you may find yourself in a few different boats, either floating or sinking. Seeing as you have made it through first semester you must have passed at least a couple classes. However, in second semester you are able to look back, do the math, and figure out exactly what you need to get on your upcoming finals to maintain a GPA that won't give your parents a heart attack. If you're like me then you've become proficient at calculating the bare minimum amount of effort it will take to simply pass, but you can reach for more! Go to your classes and start going to PASS sessions, actually read your grading rubrics and put in all the effort you have left. It might not seem important now, but any boost in grades, scholarship worthy or not, can make a difference. You might not have realized it but co-op is just around the corner and you don't want to lose an opportunity



of employment because you couldn't be bothered to write a good lab report.

2. Friends

A year of university has paid off and you have made more friends than you thought humanly possible. All the weeks of awkward conversations, forgetting people's names, and early morning classes together have given you guys a bond unlike any other. But you're not off the hook yet. You are still going to have to put in some effort to maintain your herd of friends. You have to keep your connections for fear of losing touch with all your awesome friends and having to go through another period of awkwardness. If you're like me then you are going back home to work some sorry lifeguarding job in a town that no one has ever heard of. So, put in the skype hours, keep up the outrageous Facebook group chats and pick up the phone and talk to your friends! (I know this generation has a fear of actually talking on phones, but I promise you can do it) Don't just hermit away at home, put in some effort and maintain those great social skills.

3. Involvement

Finally, you may or may not have been as involved in the engineering community as you thought. Sure you were super pumped to get yourself a

flight suit at the beginning of the year. And maybe you even went to the first FSK and joined a stream society, but let's face it you've prioritised developing your relationship with your bed over getting involved and recognised. For this particular predicament I have three suggestions:

- Join EngFrosh and be a facil! (You may have missed the interviews and the first draft but there is usually a second draft and you still have a chance) Being a facil is the perfect opportunity to get to know more engineers! Besides you had a great frosh week you owe it to the new froshlings of 2015-16 to provide them with the same level of awesomeness.
- Find a friend who is in the same boat as you, someone who missed their chance for flight suit glory in first year and is planning on going all out next year (this is where being a facil can help you meet such a person). Someone to keep you accountable and keep an eye out for FSK tickets and different opportunities to get involved. The more people you have around you encouraging you to be social the easier it will be to ditch your bed and get involved.
- Get involved! Go to event, sign up for competitions, and go to more than just keggers. Join the

engineering musical, run for a position in your stream society, do GNCTR or Troitsky. You may have thought that the only way to flight suit-dom is keggers and parties, but there is a whole other side to the engineering community! If you're like me then you will find that if you look hard enough there are plenty of opportunities that do not necessarily require buying tickets and venturing off campus. Opportunities like design competitions, stream society events, and writing for the Iron Times. All these things look great on a resume, are super fun, and totally pay off. Stream societies are full of knowledgeable upper years and writing for the iron times can present other opportunities (like becoming next year's Editor-In-Chief of the Iron Times, yeah that happened)

All I'm saying is that you may think that school is almost done and you just need to coast through, but really you owe it to yourself to make university some of the best four, or five, or seven years of your life! So pull up those pants, sharpen those pencils and make me proud! See you all next year as the new Editor-In-Chief of this fantastical paper, I look forward to reading all your wonderful works.



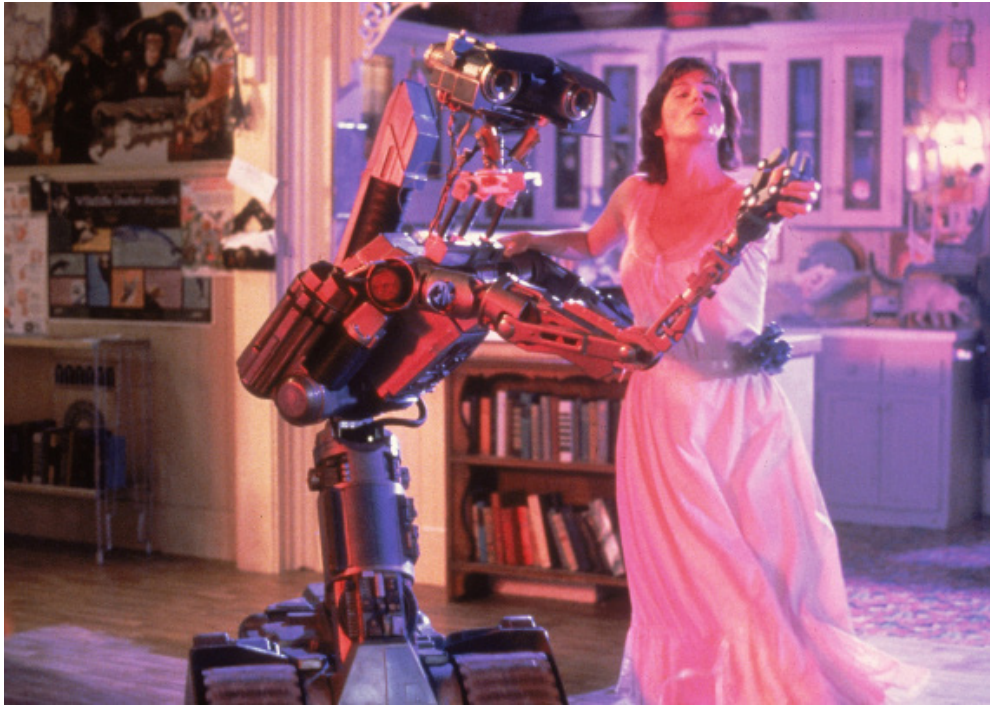
Michelle "Destructive Cleaning" Davis
- AERO III -

BIGGER ISN'T ALWAYS BETTER

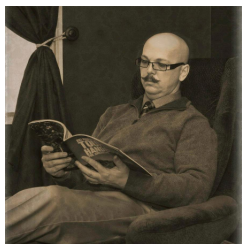
As you may have noticed, the paper has changed... again. Unfortunately, due to a lack of fans at Leafs games the Canadian dollar has plummeted to an all-time low. But how does that affect the Iron Times? All year we have been printing from a wonderful company in the UK who has been able to provide us with incredibly high quality newspaper printing. However, as amazing as the papers have turned out they do charge in pounds and therefore the costs were just not worth the quality. This new company is a great local alternative which maintains page and colour quality and is still better than the Charlatan. Happy reading C-Eng!

EDITORIALS

THE IRON TIMES USES A LOT OF ERP NO. 1



RETRO REVIEW



Don Jackson
- CIVE II -

Well, this marks the last edition of Retro Review. I began this column after discovering, to my horror, engineering students that have never seen Apollo 13. For the most part, the column reflected some classic films with a theme connecting them to the edition's publication month. To my surprise, a number of the films I mentioned had in fact been seen by some despite being several years before their birth, only proving that engineers from all walks of life connect on some level of geekiness. So to end this column, here are a few movies to geek-out over.

I'll start with a very old film going back to 1963. Jason and the Argonauts follows the exploits of Jason who leads an elite crew in search of the Golden Fleece. What makes this film geek worth, is the special effects. While certainly not the CGI we are bombarded with in today's cinema, this movie was ahead of its time. Employing stop motion filming (same technique used in King Kong and Box Trolls), the fight scene with the skeletons is worthy of watching several times over.

From the far past to the far future, the next movie was released in

1983. Space Hunter: Adventures in the Forbidden Zone, made the future seem like any other ordinary time just with cooler gizmos and interesting criminals (think Fifth Element). Working as a space junker, our hero takes on the task of rescuing three survivors from a luxury star liner that were marooned on a dangerous planet. The cast includes the likes of Michael Ironsides (Starship Troopers), Molly Ringwald (The Breakfast Club), and even Ernie Hudson (Ghostbusters). With a budget rivaling Star Wars, the movie was one of the most expensive 3D movies to date and sparked a revival in the interest of 3D movies. Our interpret hero must have some engineer in him;

Chalmers (refereeing to the computer console): "Okay, what did you do to this?"

Wolff: "Emergency repair procedure number one."

Chalmers: "You kicked it?"

Also, if you listen carefully, after he kicked the console you can make out the familiar whines and beeps of R2-D2. And the most ironic line ever said in a movie goes to Molly Ringwald's character Nicki when she said, "Us loners got to stick together."

The following year saw the release of another similar desolate future where water has become a scarce commodity throughout the galaxy. So what do you do when the empire controls everything, work is

scarce, and water scarcer? Become an Ice Pirate of course! The Ice Pirates, is probably one of the strangest storylines ever told with a style part Spaceballs, part Holy Grail, and even part Battlestar Galactica. Hired by the very Princess they previously robbed, the ice pirates set off on an adventure to seek a mystical planet said to be abundant in fresh water. The movie is campy and filled with memorable quotes in much the same way as a Monty Python film. Roscoe, the ship's engineer, builds and maintains the ship's compliment of robotic soldiers. While showing of his latest creation to the captain, gives us one of the movie's best lines.

Jason {looking at the robot}:

"Why'd you make him black?"

Roscoe {with a smirk}:

"Because I wanted him to be perfect."

And after discovering the ship has been contaminated with space herpes, the captain tries to console the princess.

Jason: "It's really not that dangerous."

Princess Karina: "That's not what I've been told."

How about a movie that combines the past and the future together (no not Back to the Future). Released in 1994, Oblivion was the strangest mix of western Ok Coral meets Star Trek to ever grace the silver screen. A small town sheriff on a backwater planet is killed by an evil outlaw lizard and the sheriff's son must somehow defeat him. Honestly this film is a guilty pleasure for one very simple line in the whole movie. After the deputy (an android) is shot and dragged into a nearby building, Zak pleads with the doctor (played by George Takei) to save her.

Zack Stone: "Doc, you've got to help her."

Doc Valentine: "Damn it man, I'm a doctor, not a mechanic."

George Takei continues to make Trek references throughout the film. Each one as blatant as the last and just as much a growler.

For a more light hearted romp, and if you were a fan of Wally-E, then let me introduce the movie Shortcircuit (1986). Built for the

military defense, a robot goes rogue shortly after being struck by lightning on a training mission. The robot wanders off the base and soon declares "Number 5 is alive." The movie was at a time when home robots like the classic 80's robot from Muppets the movie were the best you could get and everyone dreamed of that little machine that would fetch a cold beverage from the fridge for you. Number five teams up with a young woman and begins to evade capture by the government. The movie, being mostly slapstick, tips its hat to some of the originators of slapstick, the Three Stooges. With the intelligence of the world, but the innocence of a newborn, the Number 5 gives us the majority of funny quotes and one-liners. Stumbling in on Stephanie (the girl who helps him evade the government) as she bathes, we get the first taste of this awkwardness.

Number 5, [confused]:

"Stephanie... change color!"

Stephanie Speck: [turning red from embarrassment] "Uh..."

Number 5: Attractive! Nice software.

Stephanie Speck: You sure don't talk like a machine...

Second only to Number 5's innocents is the naiveté of Ben Jabituya (an engineer of India descent with a thick accent) and Newton Crosby. While discussing Number 5's recent escape into the world.

Ben: "Newton, you know what is out there in the great outdoors? Girls. Mmmmm! With brassieres and legs - mmm. You have a working knowledge of girls?"

Newton: "No, but I read about 'em."

Ben: "Oh, then... maybe I can furnish you with some schematic drawings?"

Next time you're in DVD rental store (yes places still rent DVDs...What? A DVD? It's a small round disc used to store information on and commonly used for movies or games. Sometimes found in a Blu-ray form... Look not everything exists in the cloud). Right... next time you are in a DVD rental store, I challenge you to grab a random movie from a shelf. You might stumble across a new guilty pleasure.

EDITORIALS

NOT SURE I'VE EVER MET A SOBER WELDER...

ADVICE FOR NEW GRADS (CONTEMPLATING FIELD WORK)

“Qubit”
- AERO -

“Screech”
- CIVE -

“Bubbilicious”
- CIVE -

“AIA”
- CIVE -

- Don't graduate.
- Hot dogs are edible if they cut your heat and power off.
- Post "new grad can draft" Kijiji ads, it works and may get you into grad school.
- Also, don't do grad school, Masters degrees are for those who couldn't get jobs.
- If a prof tries to recruit you for grad school from a Kijiji ad you had for "Eng Grad - Can Draft and maybe do math" it's probably a bad sign.
- Wires are magic, don't touch them.
- The ring doesn't mean you're smarter than others... just a bigger target.
- Engineers are often the dumbest people in construction... have you ever met an alcoholic laborer?? That's saying something.
- When you show up on site, make sure you already have some mud on your boots. Also wear an old shirt, preferably with concrete or oil stains. New clothes scream inexperience.
- It may not be convenient to work away from home, but when your car, meals, room, gear...is paid for, those loans disappear a lot quicker.
- The most powerful three letters in motivating you to leave home... LOA (live out allowance).
- Don't worry, after she sees the pay cheques your girlfriend wont mind you leaving.
- She may even help push you out the door on travel days.
- It's okay to have a job interview in the parking lot of a gas station... as long as you don't have to get into a van.
- When asked to do a quick run into town... book off 2-3 hours.
- Always go hourly ...or don't. Always read and understand your employment contract.
- Never let the trades see you under the weather, or leaving early. You are all seeing and never leave site.
- Don't give out your work cell, makes your weeks off a lot less off.
- Phone calls after 5 pm on Friday or before noon on Saturday result in more work, and less fun.
- Time differences and weeks out are a bitch
- Don't answer your cell while in bed with your GF... results in less sex.
- It can also result in your boss asking why you're out of breath...
- It can also result in you agreeing to work the weekend without realizing it...oops
- Decide carefully which weeks you want off, or you'll come back to a mountain of paperwork.



COLUMNS

MEANWHILE IN THE IRON TIMES PHOTOGRAPHY SATCHEL...

INSIDE THE BAG: *“the little tricks for the moment it clicks”*

FOREWARD

I am by no means, a photography expert. In fact, I have only been taking “real” pictures for about one year now. However in that time I have managed to pick up enough knowledge to consistently produce non-terrible photos. This suggests I am at a good point in time to share what I’ve learnt so far. Because I could easily write a 20-page essay on photography tips I will limit myself to explaining the fundamental members of my photography gear bag.

THE CAMERA

The camera is definitely the most important object in the photography bag, without it, you are not really a photographer and more of a person who is sad that they don’t have their camera with them. This does not mean the camera needs to be fancy, in fact, I believe that those who splurge on \$600 - \$1000 devices right away at the beginning of their newfangled photography career, are wasting their money (or their parents money, or the governments money) because they don’t really know how to appreciate all of those extra features. You wanna start off with a nice mid-sized device in the \$200 - \$500 range that has all the basics and maybe a few fun features to play with. In no means buy the biggest, chunkiest, fanciest thing available, you will probably have no idea how to properly use it until after you graduate (and by then you will want a new one). I use a Fujifilm X10 and I highly recommend it as a starter camera. It’s small enough that you can put it in your bag but it still takes better pictures than your average point and shoot. Also it looks really, really snazzy and it’s a great way to pick up the ladies (or gentlemen).

THE OFF CAMERA FLASH (OFC)

No, this isn’t what you’re thinking, unless the first thing that came to mind was creating a soccer ball sized package using only copies of the Charlatan. Patience and a ton of tape are required for this excuse, but hey, at least it doesn’t require you to basically exile yourself from social media for a week. The instructions are relatively easy to follow, especially since all you do is wrap your humiliating gift and tape down the edges of your paper until it reaches a mass that has a noticeable gravitational field. Once your chosen victim gets to the centre, they’ll be so relieved to be at the end of their magical journey that they will completely ignore how terrible your gift is, leaving you as free as a bird.

DIFFUSER

Now I know I said were all terrible when it came down to planning things in advance, but let’s be truthful, it’s way easier (and way more entertaining) to create a musical score, along with dance moves, for your horrific gift. For example, you could change the lyrics for “I Wanna Rock” to “I Give Ya Socks!” Pair that with some awesome air guitar, and there’s no way your brother could stay mad at you, in fact he’d probably start dancing along with you. The amount of planning for this step is much more than the other two, but the only skill you need is the ability to change words in a song to something that rhymes.

Adrian Soble - ACSE II



LIGHTING GELS

If you are extra crazy about taking pictures, you can get some coloured gel filters to strap over your OFC. These change the colour of the flash and are helpful for taking pictures somewhere grey and sad like Minto basement.

SNOOT BOARD AND ELASTICS

Ok so, this is the last thing I’m going to talk about because it is super specific and I think this is enough stuff to get you started with. A snoot is basically a tube that you tie around the end of your OFC to create a type of light gun. You point the gun as a “kill shot” at the subjects face in low lighting if you are interested in keeping the rest of the body looking like the surroundings while keeping the face in focus. Snoot board is just any kind of black board that can be wrapped into a tube and kept in place with elastic bands.

GO FORTH AND SHOOT

Take these five things, throw them into a really hip bag with a few extra batteries, a beer, a snack and there you have it, your own personal photography kit ready for almost any situation.

COLUMNS

NOT SHOWN: DICK FENCING

Raph's Record Corner



KANYE vs. BECK



Raphael "Bluebelly" Adams
- ACSE III -

By now, you have probably heard about the Kanye West/Beck incident at the Grammys, even if you didn't watch the show. There are GIFs of it everywhere. After winning the biggest award in the show (Album of the Year, for his recent work *Morning Phase*), Beck goes up to accept the award. Just as he's about to speak, you see Kanye appear out of nowhere, motion as if to say something, and go back to his seat, followed by a chorus of laughter. Beck, completely confused, goes "Wha...? Come back!"

There's another, more hilarious GIF of the same incident, showing Jay Z and Beyoncé's reaction. Jay looks horrified for one second, and then slowly shakes his head as he realizes what Kanye is up to. Kanye goes back to his seat and gets appreciated by a guffawing Kim Kardashian.

I consider Jay Z's reaction

to be pretty funny, but in all honesty the whole thing pissed me off. The next day everyone was talking about how funny Kanye is, and how he can laugh at himself by referencing his Taylor Swift episode. But I couldn't laugh, because it felt wrong. I knew something was up, and sure enough, I was right.

Later I found out that Kanye was joking without actually joking. I watched an interview where (predictably) he voiced his views that Beyoncé's album should have won instead. "If [the Grammys] want REAL artists to come back, they need to stop playing with us," he said. "Beck needs to respect artistry and he should have given his award to Beyoncé."

Well thank you, Mr. West.
Now it's MY turn to rant.

Did Kanye even listen to Beck's album and let it sink in? Unlikely. I doubt he has any interest in white British musicians aside from Paul McCartney. You can't properly judge who qualifies as an artist without observing their work – and even then, they're not any less of an artist if you don't like their art. To be honest, *Morning Phase* is kind of underwhelming at first listen and will probably bore some people. But I thought the same about Arcade Fire's

The Suburbs, then I gave it a few more chances and now it's one of my favourite albums of all time. Sometimes you discover hidden gems in music that make it all the more special. That's true art to me.

Secondly...and please, please do not murder me, Beyoncé fans. Know that I'm a Beyoncé fan myself and I'm not ashamed to admit it. But how many instruments does she actually use in her music? (I'm sure she can play piano or something, but that's not the question.) Aside from her heavenly voice, that's pretty much it, if I'm not mistaken. I've never seen her whip out a piano or guitar onstage. Someone please correct me if I'm wrong, because I'm honestly hoping I am...she's the queen, after all.

Whereas a quick Wikipedia search of Beck will reveal that his specialties are (and I quote): vocals, guitar, keyboards, bass, drums, harmonica, percussion, sitar, banjo, slide guitar, twelve-string guitar, glockenspiel, vocoder, kalimba, melodica, and beatboxing. I'll assume that Kanye meant "musicians" when he said "real artists", so he might want to look up the word in the dictionary and see whether Beck fits that description. Not saying that Beyoncé is not a musician – I'm simply saying that Beck more than qualifies as one.

Third. Kanye is becoming more and more of an embarrassment to Beyoncé, music awards shows, hip hop, and music in general. I have a strong feeling that he has a crush on Beyoncé (we all know what happened with Taylor Swift), but that's none of my business. I hate sifting through piles of celebrity gossip, but I found two articles that were interesting. One said that Beyoncé was angry and upset with Kanye for giving her unwanted exposure and comparison to Beck. Another was a lame explanation by Kanye, saying that he was just joking, he respects Beck and thinks he's a tremendous musician, and he meant that Beck should have mentioned Beyoncé in his acceptance speech. It didn't seem genuine to me at all. I wonder if he would have done the same thing if a more popular artist had won, such as Ed Sheeran or Pharrell Williams...probably.

I procrastinated on this article and have to send it in like now, so I'll leave it at that. Just know that, in my opinion, Beck truly deserved the award and Kanye's behaviour was completely uncalled for.

The dude needs to chill out, focus on promoting Big Sean's new album, and lay low for a little bit, but of course that won't happen...he's Kanye West. Congrats, Beck.

NEXT MONTH: KANYE VS. KANYE



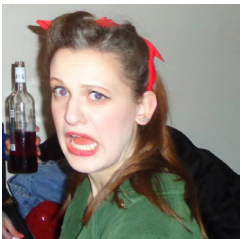
COLUMNS

THAT MODEL COULD USE MORE SHRUBBERY OUT FRONT

KNOW YOUR CITY



THE COMMISSARIAT BUILDING



Holly Parrinello
- ARCH III -

The Commissariat Building, now referred to as the Bytown Museum, is the oldest existing stone building in Ottawa. Designated as a heritage building by the Federal Heritage Buildings Review Office in 2009, the Commissariat has been home to the Bytown Museum since 1951. One can visit and learn about the founding of Bytown, its industry, factors that led to the confederation of Canada, and the history of Ottawa, but the building itself has had a much longer history.

The Commissariat Building was originally constructed as a storehouse for the builders of the Rideau Canal in 1827. The storehouse was designed by Thomas McKay of McKay and Redpath Architects and built by the Royal Engineers to British Military specifications. McKay also designed the Royal Engineer's Office, a building almost identical to the Commissariat, as well as the first Lockmaster's House. The Royal Engineer's Office sat directly across

from the Commissariat, but was torn down in 1912. The Commissariat building served as a typical military depot, which supplied provisions and supplies to the construction sites on the canal. The three-storey building was constructed with supply doors on every side on each level to maximize space, and pulleys on the roof to hoist up the supplies easily. The building also includes a vault for storing gunpowder and gold, and is still accessible today. The Commissariat department was a civilian service employed by the British Treasury, and was responsible for obtaining and issuing food, fuel, and other supplies to the soldiers working on the canal. Some of the food supplies were sold to private civilian contractors as well for their hired labourers. After the construction of the canal was finished in 1832, the Commissariat was used as both storage and office space for the Royal Engineers until 1856 when ownership of the building was passed to the government of the Province of Canada, further providing office and storage space. Over the years, the building was used by the Department of Militia and Defence and the Department of National Defence, keeping close to its original function as storage for builders and supplies for soldiers. In 1927, ownership was transferred to the Department of Railways and Ca-

nals, who also held ownership of the Rideau Canal, then to the Department of Transport in 1936. In 1948, there was little recognition for the Commissariat's historical value, and the building was in terrible condition. Dust and grime that was over a century old had left the plaster in some of the offices disintegrated and the ceilings were in bad condition. The Historical Society of Ottawa saw the heritage value and the potential in the Commissariat, and it can be argued that without their efforts to make the building viable again, it would have been demolished. The Commissariat became the new home of the Bytown Museum, officially opening 1951 and run by the Historical Society of Ottawa. In 1972, Parks Canada became the landlord of the Commissariat, and remains to be so today.

The Commissariat Building ties into the history of the Rideau Canal, and the founding of the city of Ottawa. When the tensions between the United States and Britain led to the War of 1812, Upper and Lower Canada felt threatened by the United States. The St. Lawrence River was deemed to be a waterway vulnerable to attack, and another route was needed. The decision was made to construct a canal to connect Ottawa to Kingston, over 200 kilometres of waterway. Colonel John By was appointed for the project by the Royal

Engineers, and arrived at the soon to be headquarters of the canal, the mouth of the Rideau River, in 1826. The Royal Engineers supervised the project, with their offices located at the headquarters of the canal, now the Ottawa locks. Work began in 1827, with series of dams and locks constructed out of stone and iron, quarried on site and crafted by local workers. When the work began, the Commissariat, the Royal Engineer's Office, and the Lockmaster's house were built. Colonel By located his home on what is now called Major's Hill, overlooking the mouth of the canal, directly across from the Commissariat building. When Colonel By first arrived in 1826, the area around Nepean Point was mostly forest and unpopulated, minus a few log cabins. Many of the labourers that dug the lock pits, excavated the stone, and built the dams and the locks came from the French settlements of Lower Canada, and overseas, mostly from Ireland, which laid the groundwork for a community to spring up virtually overnight. The canal jobs pushed the village population to 1000 in the first two years of construction. After the completion of the canal in 1832, those who had settled and found work on the canal then moved to the vast and growing lumber trade that had developed in the village and along the Ottawa River itself. The

COLUMNS

IF I EVER GET MY P.ENG, I KNOW WHERE I'M GETTING IT TATTOOED

KNOW YOUR CITY, CONT.

village was jokingly, and later officially, named Bytown, after Colonel By, and after the union of Upper and Lower Canada, the name of the town was changed to Ottawa.

The Commissariat building is an example of an industrial and later commercial use building from the pre-Confederation of Canada. The building's three-storey solid rough coursed masonry displays the national theme of military defence strategy, while its supply doors on all levels show its use as a storage facility. The Commissariat combines the functional requirement of a storage facility and office space with a regular and finely composed fenestration pattern, attesting to the design ability of Thomas McKay and the Royal Engineers. The balanced proportions and symmetrical massing on an imposing scale reinforces the military aesthetic. The character-defining elements include the gable roof with replica cedar shingles, and the park-like setting. The interior layout has undergone minor changes in its layout, and retains much of the original functional space. A unique feature of the interior is the brick floor in one of the rooms on the second floor, where the barrels and tools were made and stored. The rest of the building has wood floors throughout, and much of the wooden interior detailing of the offices is still present. The fenestration pattern maximizes light throughout the building, and the grid pattern of the beams maximized space for storage in the building. Though the heritage designation is confined to the footprint of the building, a heritage element of the Commissariat building is its relation to the Rideau Canal, and the other original structures still present on the site.

When Parks Canada took official ownership of the Commissariat Building in 1972, major and

much needed work was done to the building. The restoration work, done during the 1980s, included reproductions of the buildings original windows and doors, showing the original use of a storage facility and the 1840s appearance. Part of the rough coursed masonry was restored, and the wooden shingles on the roof were replaced, both important character defining elements. Many of the large timber beams on the interior were rotting due to poor care and maintenance, especially those supporting the roof. Many of them were replaced, but to show that they were not the original materials, Parks Canada painted all of the replacement beams black and dated them, distinguishing them from the original timber. Renovations of the Commissariat Building also included accessibility and fire prevention. A sprinkler system was added, painted black like the replacement beams. An accessible elevator was also installed, reaching the first and second floor, and an accessible washroom was built against one of the stone walls on the first floor of the building. To make a lasting mark on the building, Parks Canada put in a tile mosaic of their logo, a beaver, in the floor of the accessible washroom. In the mid 1990s, the sites circulation patterns were reinstated using contemporary materials, adding to the heritage character and context of the Commissariat Building.

The Commissariat Building ties into the history of the city of Ottawa in more than just being home to the Bytown Museum, but being a part of the construction of the Rideau Canal, a key factor in the settlement of the city. The Commissariat, a federal heritage building, is a prime example of British Military architecture, which provides a window to the forces that shaped the founding of Ottawa.

PEO Student Conference P.ENG AND US

Matt "Soaker" Molkoski
- AERO, GRAD 2014 -

Conferences are one of the most debated events for CSES to send members to. Some see them as just an excuse to get drunk at another school, on the society dime. For others, they are a learning experience that can hopefully benefit the society. But no matter what the conference, the biggest issue everyone has is whether all this new knowledge is actually being shared amongst the engineering society, or just remembered to the same extent as that stats lecture in ECOR 1010.

Way back in my undergrad, I had the opportunity to attend the Professional Engineers Ontario (P.E.O.) Student Conference. This annual conference is hosted by P.E.O., the governing and regulating body for all licensed engineers in Ontario. P.E.O. is the body that protects the public from the engineers, provides accountability, and it is through licensing with them that an engineer receives their P. Eng designation.

This designation is one of the key foundations of being an engineer, and one of the biggest decisions a young graduate makes. Do I license? What are my benefits? How do I do it, and what does it cost? Even when I got to graduation, I didn't know the answers, let alone the pros and cons of licensing. But all of this was covered, and I hope I can give you a better idea of what exactly P.E.O. does for you, and a bit more about P.E.O. in general.

As mentioned previously, P.E.O. is the governing body. They license the engineers, to give out the P. Eng designation, and help to make sure that the transition from engineering student, to Engineering In Training (E.I.T.) and finally to Professional Engineer (P. Eng) is as consistent and high in standards as the profession demands. To do this, a few licensing requirements exist:

1. Must have a 4 year Bachelor's in Engineering

2. Must pass a professional practice exam

3. Be of good character, and have three character references (Job, professor etc)

4. Must have legal status within Canada

5. Must have 48 months of engineering experience, at least 12 months of which occurred in Canada

With such basic requirements, some would wonder why wouldn't I license? This was covered in the sessions, and some interesting points came up. Some jobs require licensing. You can't be a working engineer without it. For others, such as one speaker who was a high school teacher, he did not want to be licensed because if so, any advice he gave students would be professional advice when teaching a course such as tech. This would mean he would be liable in the case of any accidents.

It is because of all these that the choices are hard, but P.E.O. is here to help. If a young graduate applies to join the E.I.T. program, and fills out the application to begin the licensing process within 6 months of graduation, all the fees for E.I.T. and the application itself are waived, saving close to \$400! So there are many pluses and bonuses for licensing and not licensing.

Also, depending on your company, your employer may choose to reimburse you for the annual costs of registration, as well as any fees. (For example, my company will cover the cost of writing the Professional Practice Exam, assuming I pass!) Mostly, it is just good to know that these requirements exist, to protect both the integrity of the engineers in Canada as a whole, and to protect the public from the small mistakes that licensing, and other preventative measures, can reduce.



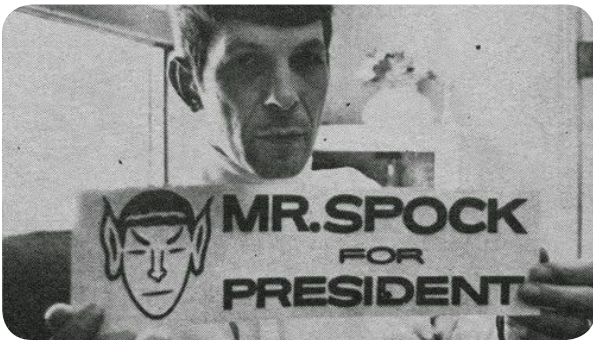
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GALLERY

CENG SURE HAS A LOT OF PEOPLE WHO CAN HOLD A GUITAR



GALLERY



WHAT DID YOU SEE, CSES? WHAT DID YOU SEE!!!!



AND THEN, WITH A SICKENING CRUNCH, DARWIN'S SPINE BUCKLED.



REPORTS

OEC: OPPORTUNISTIC ENGINEERS Ex CARLETON

TEAM CARLETON TAKES OEC 2015



Julia "Safe Space" Dalphy
- ACSE III -

Alongside all the amazing accomplishments you below, another special congratulation goes out to Michelle Davis and Zac Bandura, who presented a bid to host OEC 2017 at Carleton, and were selected! Best of luck to the both of them, and keep your eyes open for chances to volunteer with that!

All-in-all, Carleton had a great showing at OEC 2015! Thanks again to Prof. Merrett, and to the whole team for being an amazing delegation—you all represented Carleton professionally and really well, and were EASILY the best dressed (like, by a landslide)! Being your Captain was a joy. C-Eng, you should be proud! If you see any of these folks around, give them a pat on the back! They deserve it!



JUNIOR DESIGN

Our Junior Design teams were presented a problem statement that involved them relocating various items from one section of a site to another. Both of our teams built late into the night on Friday, and were ready for testing the next day. Carleton I built more of a "claw"-like device, which ended up testing second best out of all 17 teams! Carleton II developed a crane / pulley mechanism, modeled similarly to a ski-lift. They earned extra points by incorporating multiple mechanisms into their designs! Both teams had great presentations as well, and represented themselves as polished teams.

Team I: Simon Buckley, Adir Glikson,
Kevin Shimotakahara, Andrw Goslett



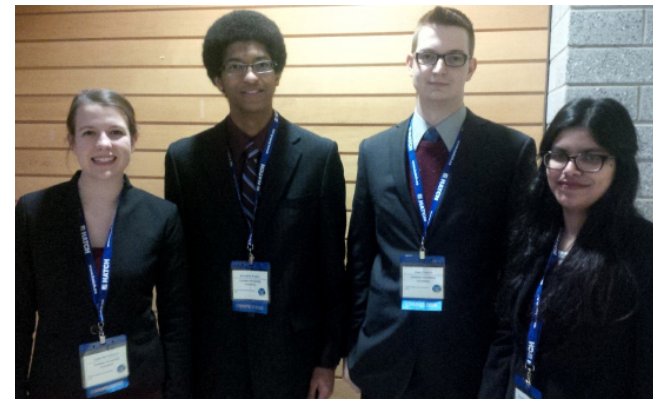
Team II: Braeden Veenstra, Brian
Goodman, Garrett Lewis, Tim Duong



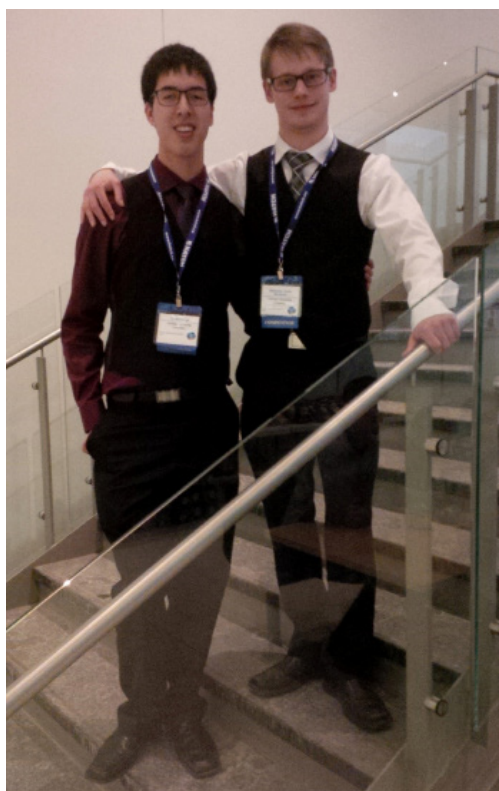
SENIOR DESIGN

For Senior, the teams had to design a satellite that included 6 solar panels. The solar panels had to be able to switch orientations to match the position of the sun (so, 2 given positions for the sake of the competition) and have LEDs to indicate which was set, among other things. Again, both teams worked late into the night, and ended up with designs that fit the requirements! Both Carleton I and II had strong presentations that addressed failure modes and impressed the judges, and Carleton I's design also tested successfully! Both of our teams looked the part of savvy professionals and definitely intimidated the competition!

Team I: Tyler Ulmer, Chris Poppe,
Nick Brown, Mike Stawicki



Team II: Calla McClelland, Jake Connor,
Fizza Ahmad Sheikh, Achaebe Parker



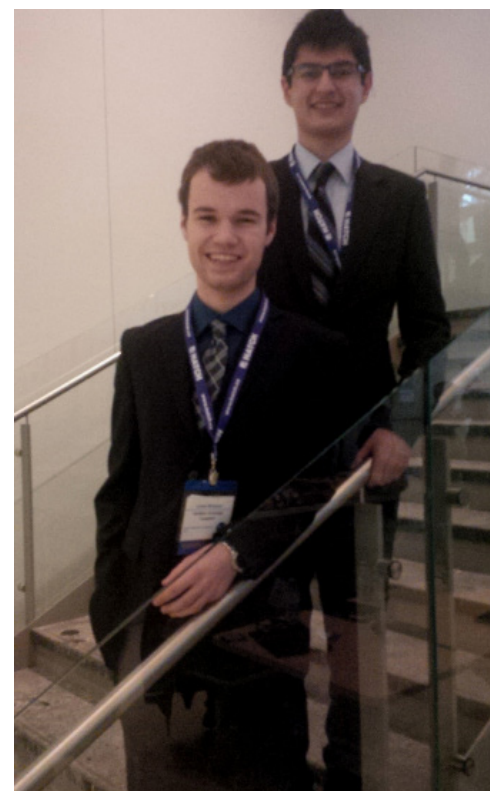
DEBATE

Our Debate duo was busy all day on Saturday, participating in a total of 4 debates. They started off facing Waterloo A in the first round, debating for the idea that Canada should have a nationwide high-speed train system. After that, they took on UOIT, arguing against the idea that driving age should be raised (Did you know that in Alberta, 14-year-olds can drive tractors?! We did.). Then, we debated against Queens, passionately proving that wind technology (and not... fish...) will be a primary focus in the future of green energy. Though we did not make it to the final rounds, we made huge strides with every round, and the team ended their day with a fun debate in conjunction with the other teams: "Is beer the greatest liquid on the planet?" (We know where you stand, C-Eng! :))

Colton Chow &
Sebastian Opaka Bardonsk

COMMUNICATIONS

Both of our Communications competitors were very prepared by the time OEC rolled around. They both presented on Saturday. In the morning, Jeff talked about the technology of Landmine Detection. Then, Lucas did his presentation about the Internet and Net Neutrality. The judges appreciated and were impressed by the quality of both presentations! A special congrats goes out to Jeff, who ended up taking SECOND overall, out of the 10 competing teams, and will be going on to Nationals (CEC) in Newfoundland this March!



Jeffrey Tolton &
Lucas Brewster

REPORTS



OPINIONATED (AND) EXCELLENT CONSULTING



CONSULTING

Our Consulting team (“Purple Lion Consulting”) was faced with the problem of having to turn a small, remote Ontario city into a provincial symbol of self-sustaining and green-energy-using by the year 2020 (oh, boy!) and meeting the energy needs of a city the size of Toronto. Their solution was developed on the premise that the geographical location of the city was NOT ideal for solar nor wind technology, and instead was very innovative, involving the use of new biomass and biofuel technologies. They wrote a full report and created a beautiful PowerPoint that any CCDP professor would be hypnotized by, and the judges were impressed with their preparedness and innovative outlook!

THE PURPLE LION CONSULTING TEAM

Michelle Davis, Steph Rajpaul, Zac Bandura, Hayley Platt



WEIRDLY WONDERFUL



Jeffrey 'Frank' Tolton
- AERO III -

The Ontario Engineering Competition (OEC) is an interesting thing.

You go and gather 300 engineering students from across the province, put them in one place for a weekend, and hand them an insane amount of coffee and Redbull. By the end of that weekend you have these students developing solutions for a future energy production crisis, designing solar panel deployment mechanisms for satellites, and de-

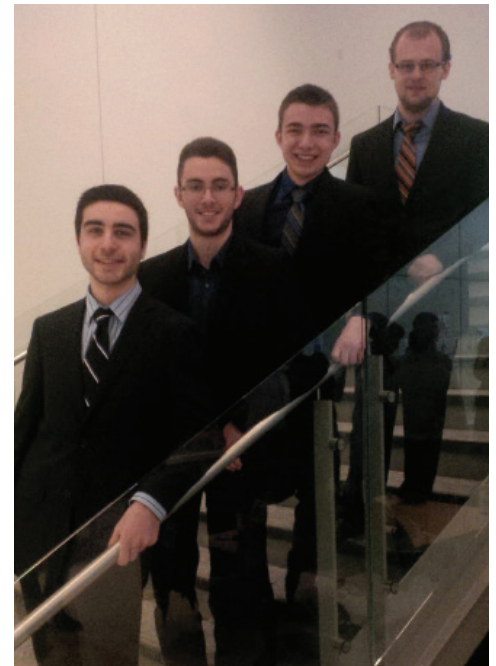
bating whether Schrodinger's cat is alive or dead. Any way you look at it, that's impressive.

So what exactly is OEC? The OEC 2015 website says “This competition is an annual gathering of Ontario's best and brightest students from universities across the province. After having won [or placed 2nd at] competitions at their own universities, OEC competitors will be challenged in the fields of innovation, design and communications to solve real-world problems.” Basically, OEC is an excellent place to think on your feet, apply what you've learned in class and in the workplace to solve problems, and meet new people.

What makes OEC special is that it doesn't just test your academics or ability to learn. It tests your ability to think. This may seem like a minor distinction, but it is anything but. It doesn't matter how well you

PROGRAMMING

This year, we brought a Programming team to OEC for the first time—and had great results! The challenge that faced them was having to create a visual representation of the Toronto train system, as well as a user-friendly control panel for said trains. Our team's strategy of Programming with 'Java' late into Friday night (in Pokemon onesies, might I add) led them to success, as they placed THIRD overall, out of the 11 teams! Congrats again, boys!



Daniel Sauve, Chris Briglio, David Briglio, Charles Bergeron

are at school, if you cannot think and apply and present you're knowledge on the fly and in an easily understood format, you'll do about as well as a one legged man in an ass-kicking contest.

This year OEC was hosted by Ryerson University in Toronto, and Carleton sent nine teams to participate in six different competitions. I was one of the two Carleton students competing in the communications competition.

Do you remember CCDP? That is similar to what the communications competition is. You need take a technical topic or process, and explain it a manner that allows an average person to understand the technical aspects as well as the societal impacts of the topic. Competitors make a 27-30 minutes presentation, and face a 10 minutes question period.

My presentation was about landmines and landmine detection techniques. Around the world today, there is an estimate 110 millions of

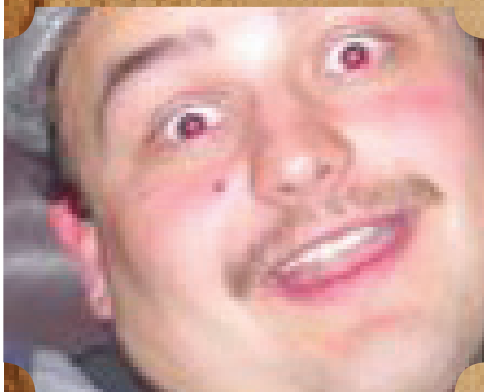
buried landmines that continue to kill and maim tens of thousands annually. In my presentation I detailed the principles of operation for several landmine detection and clearance methods including metal detectors, ground-penetrating radar units, and mechanical detection and clearance methods. As well, I explained how landmines limit the ability for social, political, and economic progress in post-conflict areas. This is an incredibly interesting and important topic and, and one where engineers have the ability to save lives.

I placed 2nd in the competition, which has provided me the ability to travel to St. John's, Newfoundland for the Canadian Engineering Competition (CEC) from March 5th to 8th. Just volunteering for CEC (for the youngins out there, CEC 2013 was hosted by Carleton) was an amazing experience, so I am incredibly pumped for the chance to compete. It is definitely a one-in-a-lifetime opportunity and I will do my best to make Carleton proud.



COLUMNS

WE MAY NOT BE BETTER THAN MAC, BUT WE SURE ARE SEXIER



CARLETRON

MCMMASTER SALUTES
CARLETON ENGINEERING



"Who the fuck is Carleton?"

"Try to avoid building any bridges, mazes, tombstones, tree houses, or anything else that could possibly inconvenience and/or offend someone."

"Whatever you do, write nothing down. Burn this newspaper. NOW."

"We had to look up where Ottawa was on a map. We're guessing you had to do the same for Hamilton. Let's call it even."

"If you help us hook up with French chicks, we'll give you some of the fine exports Hamilton has to offer, including steel, meth, and syphilis"

"Always remember the fine words of the Lord Master of all that is holy, Ken Binsella: Alcoholism is a lifestyle not a choice, dad"

"Thanks for The Works. It's fucking delicious."

"McMaster and Carleton make a classic combination, like your grandmother and a strap-on. What do you mean that's disgusting? God damn conservatives"

"Any chance one of you knows how to translate nuclear plant designs from French to English? It's for a... project I'm working on"

"I hope you all enjoy living in the wonderful capital of Canada. How is Toronto by the way?"

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Reflections
annual engineering formal



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dinner
7:00 - 9:00

dance
9:00 - 1:00

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\$25

tickets available in CSES - 2090 Minto

COLUMNS

NEXT MONTH: BROTHER ITCHY



BROTHER CROTCHY



The alumni group you so fondly know as “SOOPP” have been around for more than 15 years now! If you’re not yet familiar with us, our members, dubbed “Brothas”, had an incredible time at Carleton and now work to find ways we can give back to the C-Eng community whether it’s running workshops, holding social and community outreach events, or by giving out scholarships in the name of awesomeness. We have members living and working all around the world, from Ottawa to Australia. The SOOPP brothas you meet in Ottawa are just a small part of the group, so we want to give you students a chance to find out more about us and where our Carleton Engineering education has taken us! This will be the first in a regular column of Reddit-style “Ask Me Anything” interviews with our members and we look forward to taking your questions! So now, without further ado... Meet Brotha Crotchy!

Where do you live now?

Rocky Mountain House, AB

Where do you work?

General Manager/Lead Engineer @ McCaw’s Drilling & Blasting Ltd.

Did you get a job right after grad?

Yes...well kinda... I was selling pools and spas, and then alarm systems for ADT. But then I left all that behind to pursue the glorious job of selling packaged beef door to door.

How did you find your first job?

After three months of peddling meat I got a phone call from a good friend/study partner from C-Eng letting me know that their engineering firm, Explotech Engineering Ltd., had an opening. I jumped over there the next days and had my interview and left my other job. I actually took the job and worked for almost 3 weeks before I found out what my wage was, but a job was a job, and at least this one was Engineering related.

What do you consider your greatest personal accomplishment?

Graduating from Engineering and then becoming a P.Eng., simply because of the doors that both of these opened for me.

What do you consider your greatest professional accomplishment?

Becoming the General Manager of McCaw’s Drilling & Blasting. Managing a company that has a minimal staff of 30 people and ramps up to over 100 is just an unbelievable ex-

perience!

Who was your favourite prof?

Professor Donald Russell... while he was only my professor for one course at the beginning of school, the help he provided, guidance I received and partnership that we formed throughout my term at Carleton, and especially with SOOPP after, was priceless!

What is your favourite memory of EngFrosh?

I think it is hard to beat the feeling of standing on the white picnic table as a director of EngFrosh and have 300 16-19 year old kids looking back at you and listening to what you have to say. That said, in my frosh year (1998 – 8 Deadly Sins) hanging a 50ft long banner that said GREED (our group name) from the mechanical room at the top of Dunton Tower while being umm... chased... by Campus Security was an awesome time.

What is your favourite memory of university?

Really, just about anything to do with EngFrosh or GNCTR. Both of these events are filled with so many memorable experiences that picking one stand out item would be near impossible. That said diffusing a fight between a very drunk pedestrian and a guy dressed as a sheep in Edmonton ranks pretty high on the list.

Is there anything you regret about your time at school?

Not getting more involved early on! I didn’t start to get involved until my 3rd year, and hey I liked it so much after that I stayed for 5! But seriously, it was getting involved that kept me on track and really shaped my future. The people skills that I learned while running and participating in groups and clubs were beyond valuable.

If you could change one thing you did/didn’t do at school what would it be?

Honestly, when I look back at Carleton Engineering I see the most amazing time of my life. Yes, adult life, careers, marriage and family are all on the top of my list, but C-Eng life... that was a thing of beauty. I wouldn’t change a thing!

What advice do you have for first years?

Get involved!!!! If you think, “I don’t know if it will help me or not”, then take a look at the very involved graduates from this school and where they are now. Trust me the people that actively participated in the social aspect of University are enjoying their

NAME: JEFF " CROTCHY" CORACE, P.ENG. CALLSIGN STORY

None really, just a bastardization of my last name graciously provided by Adam Nesrallah

DISCIPLINE AND GRADUATING YEAR

Mechanical Engineering, 2003

careers right now and also have the tools to function in the real world. Education and understanding of the course curriculum is important... but there is so much more to life, careers and Engineering then what you can learn in class.

What advice do you have for graduating students?

Figure out what you want to do and then just go do it. Starting wages are obviously an important factor in choosing a career path but if you pursue a career that you are passionate about you will excel. If you can find a job doing something that you love, then the sky is the limit when you look at potential financial gain and the enjoyment of what you do. I looked at every job I have ever applied for from the standpoint that I will be the person interviewing my replacement in two years. That gives me two years to prove my worth and take over my direct superiors position... never be satisfied with just doing your job... go kick ass at your job that’s how you get where you want to be!

What is your favourite drink?

Bourbon... any kind... straight up or on the rocks.

What is your favourite drinking game?

Callsigns... but not just simple callsigns.... Real proper callsigns... You name the call sign of the person that throws it your way, then yours, then the person you are throwing it too! Second favourite... Beer Pong... damn that’s just good fun!

What is the weirdest/most awkward place you have ever woken up?

In a ditch on the front lawn of a house in Almonte, Ont after a long night of...ummm... studying. I was woken up by an old lady walking her dog and the dog licked my face to see if I was alive.

What is your favourite movie?

Goodfellas... pure genius...nuff said!

Why did you choose engineering?

Because I broke my neck in my last year of high school and had to rescind my scholarships and acceptance letters from a couple of Universities. As I still wanted to go to University, I decided that I should choose a discipline that I could use for a wide variety of applications. Engineering was the perfect choice. It is the only degree that you can graduate with that will allow you to design a nuclear reactor, run a massive company and get into any field of sales... especially technical sales. Engineering is the most versatile degree that there is, and it was a no brainer for me to pick.

What was the weirdest part about adjusting to life after graduation?

Realizing that you don’t have to write another exam as long as you live. I would love to know how many other are in my boat, I still wake up some nights from dreams in a total panic that I have an exam that day that I totally forgot about and I am in no way prepared for. Maybe this is a reflection on my previous study habits... but hey... whatever I did, seemed to work for me!

In the next issue, we’ll be featuring

the always entertaining Brotha Will who graduated in 2008 from Civil Engineering. Will has worked in structural consulting as well as for a waterslide company in Ottawa. He’s travelled for work mostly to China and the US. Highlights from his days at Carleton include GNCTR captain, laughably low class attendance record (a certain professor at Carleton actually laughed at him), and beer pong co-champion of 2006, and 2007.

Please submit questions!!!

What do you want to know about Will? More about his job? His best memories of EngFrosh? What he learned about waterslides in China? You can email your questions to me at suz@soopp.com, subject line “AMA” and I’ll pass them along!

YOU KNOW YOU'RE DATING SOMEONE IN CONSTRUCTION WHEN...

Arlin "Simba" Otto
- ASCE III -

Michelle "Destructive Cleaning" Davis
- AERO III -

Ladies and gentleman, when it comes to engineering lots of people end up in the construction field. Now when you're dating someone in this field there are some things you should know. Let us tell you, the pay back is real to have such a relationship but you will get your fill of interesting shit that's for sure.

- ... the music has to be louder than the jackhammer.
- ... work vehicles are always dirty so don't expect to get in or out of one without getting a little mud on yourself.
- ... you're wearing no makeup, have the worst morning breath possible and look a total mess but they still get turned on. As long as you're not the big furry men they work with everyday anything goes.
- ... you want to go out some place nice and your significant other wants to wear their work boots.
- ... your significant other has three types of clothes:
 - a) those that can be worn at work.
 - b) those that cannot be worn at work.
 - c) those that have been worn to work and ruined but still have sentimental value.
- ... schedules are ALWAYS tentative.
- ... vibrators are no longer exclusively for the bedroom, they also use them on site.
- ... there's boot prints everywhere ... Like on your bright pink yoga mat
- ... you hear stories of coworkers with prostitutes. . . or those small-town strip clubs you'd wish never existed.
- ... it's more exciting to buy steel toes than actual shoes.
- ... you wonder if there are expenses the company won't pay for.
- ... you don't have to wonder who's clothes belong to whom because fluorescent orange and yellow sure as hell aren't yours.
- ... it becomes apparent how long they've been on site by how offensive their jokes are.
- ... your significant other drinks heavily and starts banging his/her iron ring off every surface (like a child).
- ... or when a night out with "buddies from work" turns into a two day hangover.
- ... despite being able to purchase any clothes he/she desires, still only trusts Mark's Work Warehouse.
- ... you have to clean off the car seat before getting in because its cluttered with site papers and log books.
- ... the time to undress is measured in minutes, not seconds.
- ... a night out with coworkers means if you call you will end up talking to all of them as you get passed around the table on the phone.
- ... they bring home laser temperature gun, blow torches, and axes for no reason because "work pays for them"



CARLETON STUDENT ENGINEERING SOCIETY



Alexander's Office
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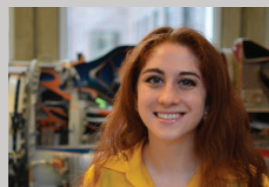
WHAT IS CSES ?

THE CARLETON STUDENT ENGINEERING SOCIETY HAS BEEN SERVING THE STUDENTS OF CARLETON ENGINEERING FOR MORE THAN 35 YEARS. ITS GOAL IS TO PROVIDE ITS MEMBERS WITH ACADEMIC, PROFESSIONAL, AND SOCIAL RESOURCES TO HELP THEM MAKE THE MOST OF THEIR FOUR (OR MORE) YEARS AT CARLETON. IF YOU'RE AN UNDERGRADUATE STUDENT ENROLLED IN A STREAM OF ENGINEERING, YOU'RE A MEMBER OF CSES.



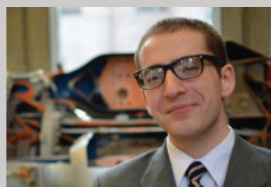
President
Nick Dumoulin

Hello again Carleton Engineering! I hope you are providing your ideas on what to name the student group space in ME 3300 block also known as "Project EngHub"! Information can be found on facebook or through the announce email. I am also proud to announce that I have signed an agreement with the Faculty that allows Leo's to not have to pay rent! This means a savings of over \$10,000 a year! Since the last article 7 polices have been updated and passed by Council and I have rewritten 4 more over the Reading Week.



VP Social
Jasmine Shaw

Well, another year has come and gone! Thank you to everyone who came out to the EngFrosh Reunions, to Whirlwind, to those I will see at Reflections, and all of my other events! FFGW was a huge success, and we raised \$600 for the Canadian Mental Health Association. Involvement this year was incredible, and I had a wonderful time being able to help everyone have a fun year. Hope to see you all in the summer!



VP Finance
Allan Bassi

Well folks, it's been a great year for the bank account. We've worked hard to implement CSES's first tax policy, handed out over \$32 000 in Student Group Funding, and integrated our books and POS into a much more credible system than the previous "money-in-envelope" procedure. These changes will benefit CSES professionally as a corporation and as a member-focused group for years to come, and I'm glad for everyone's help along the way. See you all at AGM!



VP Internal
Zac Bandura

Hey C-Eng! This is the last time you'll be hearing from me as VP Internal in the Iron Times (wow where did the year go?!). So I would just like to say thank you for the year! It's been a pleasure working with all of you. As exams approach, I wish you all the best with them. If you had a chance to get involved with anything throughout the year that's great! It honestly makes your year fly by and more enjoyable. If you didn't get as involved, I strongly recommend you do so next year. I look forward to seeing what the next year brings!



VP Publications
Michelle Davis

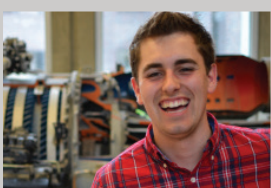
It's sad to say this will be the last issue of the Iron Times but we've had the luxury of working with some amazing people this year! From having monthly columnists, cartoon and comic artists, and wonderfully hardworking editors that make each issue possible. And, of course, your lovely editor-in-chief, Connor, who's put countless hours of his time making the paper the great masterpiece it is every month. It wouldn't exist without these wonderful people and I hope that everyone (old and new) will continue to contribute to the Iron Times!

It's been a pleasure being your VP Publications. So long, farewell!



VP Services
Alex Whitlock

As the end of the year fast approaches, I proudly look back on what my team and I have accomplished this year. The year began way back in the summer with Leo's. The managers worked very hard to breath new life into the space as well as tighten up our finances. A lot of CSES services like the textbook trade, library, and ELP got face lifts this year as well! My directors have done an amazing job of bringing these services up to snuff and keeping them running smoothly! All this, as well as the plethora of EngWear has made for a very exciting year for VP Services and if you haven't taken advantage of all of this I encourage you to come by and check it out. Better yet, there's still more to come! Cheers, C-ENG!



VP External
Jake Lipohar

What a run. Twelve months ago I was a much different person and in the same position as many of you whom are running for positions in CSES and many others. So many long meetings and tough decisions were made, but I had a lot of fun and I greatly enjoyed representing you to both CFES and ESSCO. I can't wait to help out the next executive team through other volunteering roles and I wish us all good luck against those dastardly midterms. Thank you for the great year everyone; th-th-that's all folks!



VP Academic
Julia Dalphy

Hello, for the last time as your VPA, C-Eng! Design Comp had over 100 participants and was run over two days; I prepared a Training Program for our OEC team (where we placed in 2 categories!); I took all of your academic concerns to heart, and did my best to address them fast and effectively [still have some? email concerns@cses.carleton.ca]; we revamped exam library content; and NEXT I hope to end my year by pulling off the biggest, baddest National Engineering Week Carleton has ever seen and finishing the VP Academic's Long Term Strategic Plan! I hope too see you all week during NEW! You're in engineering-BE PROUD OF IT! Thanks for a great year, C-Eng, and I hope to see you next! Good luck on exams!

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.

DISTRACTIONS

NEXT MONTH: 3D CROSSWORD

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

TESTING
 BASICS
 HIGHBLOCK
 DOUBLEBLOCK
 FINGERTIPATTACK
 KNIFEHANDHIGH
 MIDDLEPUNCH
 HIGHPUNCH
 CATSTANCE
 FORWARDSTANCE
 FRONTKICK
 SIDEKICK
 ROUNDHOUSEKICK
 KICK
 JUMP
 BOARD
 BREAK
 ANNOUNCE
 GOALS
 BLOCK
 ATTACK
 FORMS
 BELT
 RANK
 ETHICS
 IMAGES
 PRINCIPLES

HOROSCOPES



ARIES

ROMANCE IS IN THE AIR FOR THIS SUMMER, JUST OVER THE NORTH OF FRANCE.



TAURUS

THE RICHER THEY ARE, THE MORE MONEY THEY HAVE TO SPEND PAYING YOU OFF. SO MAKE SURE TO ADD A REACH-AROUND.



GEMINI

YOU'LL FIND YOUR LONG-LOST TWIN THIS SUMMER: UNFORTUNATLY, YOU WILL ALREADY HAVE SKYWALKER'D THEM FIRST.



CANCER

IF YOU'RE FEELING A TICKLING SENSATION, IT'S JUST THE ALIEN PROBE. IF YOU'RE FEELING A BURNING SENSATION, IT'S PROBABLY THE ALIEN BABY GROWING INSIDE OF YOU.



LEO

BE CAREFUL WHERE YOU SPIT THIS MONTH. YOU NEVER KNOW WHO MIGHT BE WATCHING. AND CLONING.



VIRGO

MAKE THIS THE SUMMER YOU FINALLY GET YOUR FINANCES IN ORDER. THOSE HOOKERS AND BLOW AIN'T GOING TO PAY FOR THEMSELVES.



LIBRA

YOU'LL COME TO THE UNLUCKY REALIZATION THAT NOT EVERYBODY HAS AN "UNCLE SPECIAL TICKLES".



SCORPIO

BAD NEWS: "MY TA IS A FUCKING COMMUNIST" IS NO LONGER ACCEPTED AS A SOURCE OF ERROR ON LABS



SAGITTARIUS

STOP TRYING TO MAKE WHITE HISTORY MONTH HAPPEN, IT'S ALREADY JUNE THROUGH OCTOBER (NOVEMBER IS FOR THE CHINAMEN)



CAPRICORN

YOU'LL BE GIVEN A WALLET MADE OF THE FINEST LEATHER A GORILLA BALLSACK CAN PRODUCE.



AQUARIUS

YOU'LL FIND SUCCESS IF YOU KEEP TWERK - TWERK - TWERK - TWERK, TWERKIN' ON YOUR SHEEEEEET.



PISCES

YOU CAN'T SPELL "SANITARY HAND GEL" WITHOUT "NIGERIAN SANTA"

DISTRACTIONS

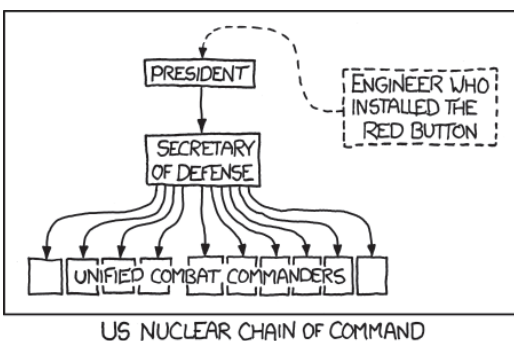
IF I HAD IT MY WAY, THIS WHOLE PAPER WOULD JUST BE XKCD AND FAR SIDE

SMBC

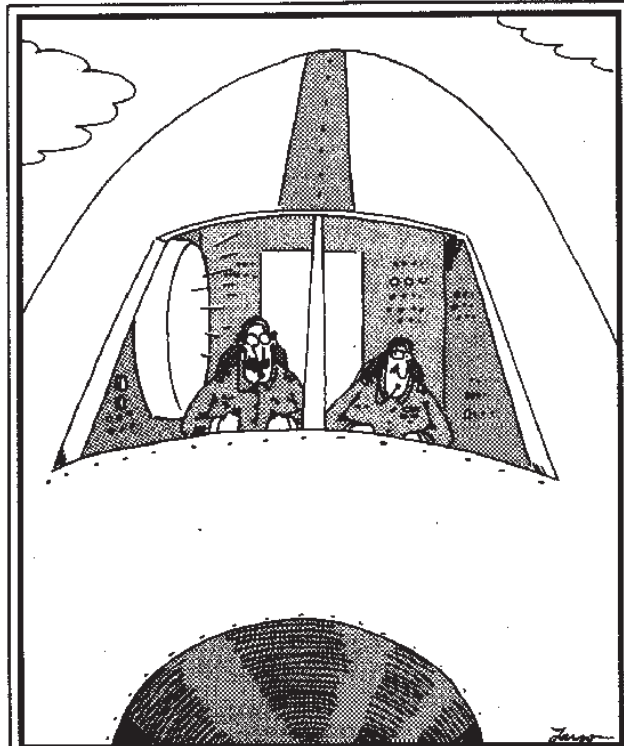


smbc-comics.com

XKCD



THE FAR SIDE



"I'm afraid we're going to have to head back, folks. ... We've got a warning light on up here, and darn if it isn't the big one."

You guys need to spend more on defense. I can't do everything.



Ungrateful asshole! After everything I've done for you!



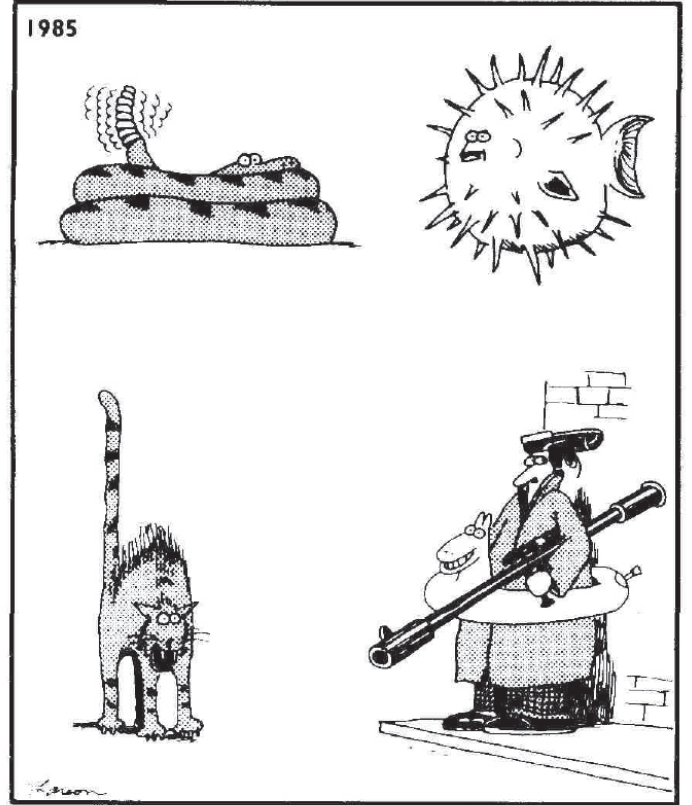
You guys need to spend more on defense. I can't do everything.



We win increasing spendings of defense, America-ian.



You're on your own. Fuck you.



How nature says, "Do not touch."

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LAST CALL

THERE'S NO HARM IN LOOKING

THE
IRON
MAN

*Connor
Buott*

- AERO III -



THE
IRON
LADY

*Michelle
Davis*

- AERO III -

Name: Connor "Birdbath" Buott

Hometown/background: Keswick, ON.

CENG Involvement: Engineers Without Borders VP x 2, F-SAE volunteer, Iron Times writer & Editor in Chief, Engineering Musical writer x2 performer x1

First Experience with CENG: Invention EngFrosh, OH BRICK BRICK BRICK BRICK!

Advice for younger engineers: Shame based learning is incredibly effective. Don't be afraid to challenge yourself, inside the classroom or out.

Advice for your older self: Run, you fool.

Spirit animal: Orca Whale. (mmmwwaaaahhmm?)

3 things you grab after hearing of the zombie apocalypse: Chainsaw, Gasoline, Iodine Tablets

If you could choose anyone, who would you choose to be your mentor? James C. Floyd

If you could learn to do anything what would it be? I'd love to learn to fly, especially gliders

Battle-Cry: *Klingon:* Heghlu'meH QaQ jajvam!
English: Today is a good day to die!

Name: Michelle "Destructive Cleaning" Davis

Hometown/background: Hamilton, ON

CENG Involvement: EngFrosh Facil and x2 Head, CSES VP Internal and VP Publications, NEW Branding Director, FFGW Branding Director, 2x OEC Consulting Competitor, OEC'17 Co-Chair

First Experience with CENG: Invention EngFrosh, ZAP! ZAP! ZAP!

Advice for younger engineers: As a wise SOOPP member once said (more or less): Put all your effort into your extra-curriculars, and double that effort into your school work

Advice for your older self: Keep learning.

Spirit animal: Wolf. AWOOO

3 things you grab after hearing of the zombie apocalypse: Robbie Zuk, hot sauce, boots

If you could choose anyone, who would you choose to be your mentor? Carl Sagan

If you could learn to do anything what would it be? I honestly just want to learn every language.

Describe your dream date! There would be lots of tiles and water.. and I don't really remember.



USES FOR THE CHARLATAN

- > Burn in a desperate attempt to bring actual warmth to our "heated" bus shelter.
- > Roll up and stuff under your door to stop a draft.
- > Hand to members of the GG's to stop them being drafted.
- > Wrap it around your Johnson while rolling around in the snow in a magnificent bit for Dusted.
- > Give to the alien overlords to prevent them from mastering English.
- > Convince SREEs to turn it into a biofuel: it's already refined bovine excrement anyway.
- > Carpet-bomb the Orient so that the Journalism program can enjoy the same wonderful diversity as engineering.
- > You could read it

EDITOR -IN-CHIEF

Connor Buott

VP PUBLICATIONS

Michelle Davis

THANKS TO:

Every writer, columnist, editor, photographer, comic artist, and reader. You make this paper what it is, and it has been our pleasure to publish it each month. Keep writing, CENG.

ISSUE MADE POSSIBLE BY:

1 Triple Espresso Vanilla Mocha
2 All-nighters
0.78\$ Piss-poor Canadian dollar.

APOLOGIES:

To the Charlatan.
But nobody tell them.

- FOOTNOTES -



THE IRON TIMES WILL RETURN IN SEPTEMBER