What Are Your Canadian Values?

Waterloo Hosts A Panel Discussion On World Religions For Canada 150

On Saturday the 4th, the University of Waterloo hosted the 37th World Religions Conference in the Humanities Theatre of Hagey Hall. Confusingly enough, in the newer part of Hagey Hall there was another event happening at the same time. The theme of the conference was “My Faith and Canadian Values”, as a bit of a Canada 150 special. The fact that not everyone approves of “Canada 150” as being worth celebrating came up quite a few times, of course. This event was not solely organized by the University; the main organizer was the Ahmadiyya Muslim Jama’at, whose many objectives include promoting understanding between people of different religions. There were many other organizations involved, not all of which were religious. The Ahmadiyya Muslim Jama’at saw it fit to start the event with a Quran reading.

This event was moderated by Waterloo Councillor Melissa Durrell who once upon a time worked as a television reporter, producer and anchor. She started out by introducing the main speakers of the event: scholars representing seven different belief systems. Then Councillor Durrell introduced the dignitaries visiting the event: the Honorable Bardich Chagger (Member of Parliament for the Riding of Waterloo, Minister of Small Business and Tourism), Mayor Dave Jaworsky of Waterloo (technically Durrell’s boss, as she pointed out), a Councillor of Guelph, Elder Kevin Pearson of the Church of Latter Day Saints (who was visiting the Toronto region with some of his fellow Mennonites and Gehad Sabry (of the Cross Cultures magazine). The Waterloo Philharmonic Choir sang the national anthem, the dignitaries made their statements, and Durrell laid out the rules of the event. Each of the main speakers would be allocated fifteen minutes. Some of that time would be spent on a scripture reading, or at least something resembling a scripture reading since not all the belief systems represented had a holy book of any kind. This portion wasn’t actually done by the speaker, except in Amy Smoke’s case. The rest of the time would be spent on a statement where the speaker needed to focus on the theme of Canadian values. Speakers were encouraged to focus on the beauty of their own beliefs, rather than make accusations of other belief systems. In fact, any comparison to other belief systems needed to be purely objective. Councillor Durrell revealed that she was “still a Blackberry girl” and then let the first speaker take the stage.

Amy Smoke was here to represent the indigenous spirituality. Smoke herself is a member of the Mohawk nation Turtle clan, but took on the task of representing the native peoples of the continent at large. The Mohawk lacked a religious text, so Smoke instead recited the Mohawk Thanksgiving Address, with a few pictorial aids along the way. She later explained that the Address was actually “the words that come before all the other words”. She was a bit nervous since it was her first time speaking her native language in public.

Smoke’s general tone was justifiably pessimistic. She talked at length about her own life struggle, and about the relationship between humans and the environment. Regarding Canadian values, Smoke pointed out that her values were not being represented at all by the government of Canada. The last residential schools were only closed in 1996 and many native reserves are in terrible condition. Anyone who cared about environmentalism would do well ask indigenous peoples. Unfortunately due to massive efforts to stamp out native culture in the past, in the present much of their knowledge has been lost.

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Mac Eng is Looking To Get SCUNTY

I hope to fuck this article gets printed in red ink, not just to throw the whole contrast off in this fortnightly publication, but to remind you that redder is better!

My name is Keith Onderdonk and my EngSoc President was foolish enough to let us compete in your SCUNT! So one thing has led to another, and here I am a voice inside your head that’s able to string together these objectively unrelated and meaningless words into a cohesive story about McMaster University’s Reudits.

While I could have written about anything else, the primary reason I am writing this, and why McMaster Engineering is competing in your SCUNT, is to fortify the bond between our schools. To enjoy each other’s company now and for the future, and to preserve and spread engineering history and traditions in Ontario. With respect to McMaster’s Faculty of Engineering, the Reudits are one of the longest standing traditions there is.

How To Up Your Beard Game

It's Movember!

 Movember is an annual event celebrated every November which involves growing facial hair to raise awareness about men’s health issues including prostate cancer, testicular cancer and includes matters involving men’s mental health. The goal of Movember is to “change the face of men’s health.” The idea behind growing beards and moustaches for charity is to donate the money saved on grooming facial hair to the cause. While most of us would love to support the cause, growing a beard can be frustratingly tedious and comes with its challenges. To make this process easier and to encourage you to ditch the razor, this article outlines some easy and inexpensive ways to up your facial hair game and donate the savings.

The first thing to keep in mind is to keep your face clean. Wash your face regularly and once the facial hair is long enough, shampoo and conditioner become your best friends. It is also imperative to keep your hair moisturized. Try using argan oil or coconut oil since they are known to possess medicinal properties and are helpful in healing cuts and wounds which may have been caused by razors or acne. Secondly, have vitamin-rich food. A healthy diet will ensure that your body grows healthy hair. Sea-food, such as salmon and oysters is known to encourage hair growth, while fruits like avocados and nuts are great vegetarian alternatives. Once the beard and/or moustache is long enough, brush it and check for foreign particles that may have embedded themselves deep into your face and made it their home. Exercise also helps in growing facial hair by providing blood circulation to all parts of the body. A healthy body means healthier hair. Finally, give yourself some rest. Make sure that you are getting enough sleep and destressing enough.
Letter from the Editor

Lessons I Learned As A Man

Gabrielle Klement
Editor-in-Chief

You may have started reading this because you thought “What an odd title”, maybe you’re reading it for some other reason, I can only guess. What could I possibly be talking about? Well what did I learn; first that good friends will always believe in you even when you may not believe in yourself; friends are like the sky. The second thing I learned is that confidence is not a function of how other people see you; confidence is one hundred percent your perception of yourself. Third, I learned that if you choose to you can take dilemmas and turn them into triumphs. See, what caused this editorial today was the annual first snowfall of the season. The snow came on some evening when it had come in my heart reserved just for snow; that delicious white fluffy stuff that falls from the sky like icing sugar, turning the world into a glorious cake. And with the first snowfall comes a twinge in my gut, a nagging desire to listen to Tchaikovsky. I was involved with my ballet studio’s production of the Nutcracker as long as I can remember. Even when I was too young to take part in the show I would sit in the studio during my sister’s rehearsals and dance when I didn’t think people were watching me. I envisioned myself as Clara dancing with her toy, the Snow Queen, and the Sugar Plum Fairy pisseting under a spotlight.

Despite dancing ballet for 15 years, I never looked the “part” of the stereotypical ballerina. I was always too tall and just a little too chunky. 6-year-old me didn’t realize I would almost certainly never get to play the roles I desired so much. Ballet was like a constant correction, I learned to look in the mirror to see only things that needed to be fixed: back straighter, turn out your legs, stomach in. That’s when I'm beginning to make comparisons with the other girls in the mirror. Looking different than most girls in ballet is immediately obvious, from the start you’re told you’re not, not good enough.

When I was still just a kid, I saw dancing as a means to an end: Nutcracker. When I was 9 my turn finally came around and I felt the weight of the world like icing sugar, turning the world into a delicious white fluffy stuff that falls from the sky. But when it was my turn I felt jaded with most aspects of my life and was ready to get the hell out of Toronto and away from the people I’d spent the last 12 years with. When the final cast list came out I read and I read my roles I just about threw the sheet at the feet of the venerable proprietress and I read that moment I rushed to the safety of the bathroom.

A MAN. I got two male lead roles; that was how she saw me? My confidence was shattered. The year before I had endured the role of Snow Cavalier, another male lead role, in the hopes that the following year I would finally be crowned Dew Drop or Snow Queen. To have my only female role be a 2nd Lead Nutcracker, a 2nd Lead role, in the hopes of being chosen as Master of Ceremonies, Nutcracker. I think that was the moment I rushed to the safety of the bathroom.

I got to dance to that song, I was wrong. I got to dance to my favourite piece of music from the entire ballet, and I got to dance it with one of my best friends. My friend who was also playing Nut and I kept each other sane. We would remember every silly correction given to us and compiled them into a video, “Pupal; How to be a Prancing Prince”, because apparently “pupal” is the sound you should feel within you as you take a step, when you are a prince. Together we took that role and shaped it into our own unique persona which in turn left me feeling homey. What had once felt like a world new felt like my own living room and I couldn’t take seriously our Nutcracker, with all its pomp and circumstance.

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We are the official newspaper of the University of Waterloo Engineering Society representing the entire undergraduate engineering student body of over 6000 students.

Our newspaper is distributed all across campus and is the perfect medium to advertise your event, employer information session, service, etc.

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Design Days
Civil and Environmental Engineering

On Thursday October 26th to the 27th the Civil and Environmental Engineering faculty hosted the first ever CivE Days. Designed and implemented by Stephen Phillips and Rania Al-Hammoud, with the help of members of the Engineering Ideas Clinic and many other staff and faculty. Students of the second year Civil and Geotechnical Engineering Mechanics course (CIVE 204) participated in a two-day event where they got to design, build, and break a bridge!

Purpose: to incorporate diversification of teaching methods for an inclusive and deeper learning environment. Therefore, after a major bridge design project was incorporated into the CIVE 204 curriculum to foster deeper learning through experimental, reflective learning and an integrated design approach of all courses. The following areas of concern were brought up as feedback:

- Students have admitted to doing the work last minute due to the demanding nature of all their courses.
- There have been complaints of students being too nervous to try different methods because of a lack of understanding, time, and experience.
- Since students have time to only make one bridge, they do not put the bridge design beforehand. Then on the day of testing often bridge designs fail to do what they predicted to do.

CivE Days was developed to address each of these issues along with improving learning techniques and student-instructor communication.

The breakdown of CivE Days event was two days and four deliverables. The first deliverable was made up entirely of the simulated bridge project design. Each group was given a topographic map with points A and B on it. Students were then required to connect the two points with a road design and a bridge. In the preliminary design students went through the process of designing a road, doing cost analysis, cut and fill, and environmental assessment. This incorporated their Transportation and Materials courses. The second deliverable was to design and build the bridge. Students then analyzed their design and predicted their failure point, failure load, indicated members in tension or compression, and circled connections which incorporated their Mechanics and Statistics Courses.

On the second day, the fourth deliverable was to test their bridge strength and the accuracy of their static analysis. After everyone completed testing their bridge, students had time to do group and individual reflection. They were then required to write a reflection report about their bridge design, performance and recommendations. At the end of the day awards were given out and students completed their final event survey.

The consensus from staff, students and faculty have been that CivE days was a success! Students had a lot of fun doing the activity and one student mentioned, “It was a lot of fun because it was a low stress environment, because it wasn’t for marks. It wasn’t just for goofing off though because it was a competition and we were committed to making a bridge.” Other comments have been that it was a good opportunity to bond with the class and the environment was friendly where everyone was willing to help each other out. Stephen Phillips, the event coordinator, mentioned that, “The event went over really well, especially considering this was the first year it was organized. It was really cool to see such a wide range of bridge designs, and to hear the rationale for the specific design elements used.”

Overall the event challenged and engaged students, where from feedback it found that 80% of students who attended wanted to participate in another event like this in the future!

My Boy GSP
Georges St-Pierre Makes His Return to UFC

On November 4th, at UFC 217, Canadian former UFC welterweight champ Georges St-Pierre fought for the first time in four years, this time at middleweight, and dethroned UFC middleweight champion Michael Bisping by choking him to sleep in the third round. GSP says he’s better than ever.

A “better” GSP is a scary thought, because when he left the UFC after his victory over Jonny Hendricks at UFC 167 in November 2013, Georges St-Pierre had been the champ of the UFC welterweight division for the better part of the decade, and had only two losses in his professional career spanning back to 2002, both of which were avenged in rematches. GSPs’ incredible record and spectacular return has prompted plenty of talk of GSP being the greatest fighter of all time, even from other professional fighters. Always-humble GSP has said that his recent popular promotion as the greatest fighter ever is “an illusion” since “[he] can be the best one day, but tomorrow [he]’m not”, but the expectations that arise from this banter have harmed GSP before. In a CBC interview in 2014, he revealed that OCD, inflated by expectations to

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Why do we Remember on Remembrance Day.

Remembrance Day is a day usually celebrated in Canada and the Commonwealth to commemorate their members of the armed forces who have died in combat. I am aware that some students in Engineering are from other countries; some of you may have another name for remembering your veterans, but here in Canada it’s known as Remembrance Day.

Every year on November 11, we celebrate Remembrance Day to pay our respects for our fallen armed forces members. For those not familiar with Remembrance Day, or those who would like to read about the day, I will give you some information about this particular day.

The origins of Remembrance Day can be traced back to the armistice at the end of World War I. On the eleventh hour, the eleventh day, the eleventh month, the fighting and World War I has ended. And on this date, it was known as Armistice day. After World War 2 it was changed to what we currently know as Remembrance Day.

Every year, there are ceremonies held during Remembrance Day or the weekend before. Most of these ceremonies have local veteran’s groups, military branches, police, and cadets participate in the ceremony. However, everyone is welcome to attend one of these ceremonies are open to the public. The ones that we had in Waterloo included the on-campus Remembrance Day ceremony on November 10, and the one at Waterloo Cenotaph on November 11.

One important part of the ceremony is the playing of Last Post and the Rouse. The Last Post is a bugle call that usually signifies the end of a day, while the Rouse signifies the beginning of the day starting at sunrise. During the Remembrance Day ceremony, both the Last Post and Rouse were played with a two minute of silence in between. The significance of this tradition is that the Last Post and the Rouse signify both sunset and sunrise: death and resurrection.

As you may have noticed, there were students who wore the poppy during late October and early November. You may ask, why would students wear a poppy? The reason why we wear the poppy is to remember those who fought and died during our past and current conflicts. Why specifically the poppy you may ask? During World War I, the red poppy was the first flower that grew on the carnage-filled battlefields where the graves of the fallen stood. However, there were also other colour variations of the poppy that could be worn during Remembrance Day, each with its own significance. One of them is the purple poppy, which symbolizes the animals that were wounded or killed during war. Another variation is the white poppy, which stands for pacifism and the aim to end all wars. However, these white poppies are rare and are not seen as often as the red poppies.

According to the Royal Canadian Legion, there are a few protocols to wear a poppy properly. The poppy should be worn on the left side, over the heart. As a sign of respect, there should be no pins or plaques that obstruct the poppy, as the poppy is a sacred symbol of remembrance. After the Remembrance period, or after the ceremonies, the poppy should be properly disposed by laying it on a wreath or on a cenotaph. However, it is totally up to a person’s discretion to wear a poppy at all.

It is easy to obtain a poppy in campus during the Remembrance period. They are usually located in stores, and poppy boxes are set up around campus. Also, you may have saw that the poppy boxes ask for donations as well. The donations go towards Canadian veterans and families of veterans in need. By the time this article is published, Remembrance Day has past and there’s no need to wear one, right? Well, not quite. The poppy is not just limited to Remembrance Day, as it could be worn on any day of Remembrance, such as Vimy Ridge, Battle of Britain, and Battle of the Atlantic. Remembrance Day is a day where we remember those who gave their lives for our country. Poppies were worn during the weeks leading up to Remembrance Day to honour those who fought and died for us.

Even though Remembrance Day has passed, we should still remember those who fought and died for us and our country. With their sacrifice, we can live in freedom and peace.

Why did the October Revolution happen?

The Wednesday a fortnight ago was the anniversary of the October Revolution. The image ingrained into popular mythos is that of a frothing hammer-and-sickle mob, rudely intruding upon the genteel fairy tale court of the romantically doomed Princess Anastasia, plus assorted others. This is actually a conflation of two events.

When the Provisional Government wanted to strip the autocrats, the other autocrats, of their power, the Bolsheviks seized the Winter Palace, in a bloodless event, and took control of the Provisional Government. That the Bolshevik coup and consequently the election of a government- namely, the election of a governing assembly. It was not quite their fault that the assembly convened after the Bolshevism coup and consequently dissolved almost as soon as the deputies sat down.

Red October itself was almost an anti-climax; the Bolshevism seized the crucial buildings of Petrograd, including the Winter Palace, in a bloodless event, and the leader of the Provisional Government high-tailed it out of Russia, whereupon civil war ensued. The result of that is well known; everyone fought the communists and everyone lost.

Reflecting on the entire debacle cannot but leave one with a sense of Darkness Induced Audience Apathy; do we side with the autocrats, the other autocrats, or the incompetents? Or do we wash our hands of the whole affair, and dub that entire period a screw-up with no heroes? Revolutions in general tend to produce that sort of feeling; your plucky rebel heroes succumb to paranoia or despotism, and proceed to lop off each other’s heads with great alacrity. The French Revolution set a precedent and other Revolutions do an unfortunately terrific job of adhering to it.

On the whole, it is tempting to say that nothing good ever comes from a revolution- but the again, revolutions never come from anything good. The real question is- where would we be without them?
The inception of the Redsuits came in 1985, when the first Orientation Chairman of the MES, a student by the name of Mark Hattrum, dreamed of a group of boisterous engineering students that would dominate the landscape of McMaster campus. He interviewed a group of students, and of those only chose unquestionable leaders in the engineering community to lead the incoming frosh.

At the same time, the MES President Mike Kukhta, who would then go on to become the SMU President the following year, was working away to institute a pub-crawl as an official Frosh Week event. After consulting McMaster security and the local police, it was determined that with a parade permit and security and the local police, it was determined that with a parade permit and police supervision, it was possible to organize a pub-crawl as an official Frosh Week event. McMaster engineering students once tried to dye themselves red, but the results were...rather devilish.

Moving on to another unique aspect of Redsuit culture is the selection process. As of right now, McMaster is one of the few schools where students cannot just purchase their own suit, but must apply and be chosen based on the merit of their leadership credentials and creativity. Tryout season typically begins around the end of January, and recently there has developed an annual prank on campus to signify the beginning of Tryout Season. Students form groups to organize their own pranks, or otherwise creative elements to present before the ‘Committee’, who then decides the Rep team for the upcoming Frosh Week. Students must re-apply every year to rep for Frosh Week. However, when a student receives their suit they are now part of the Redsuit community for life. The Redsuit community aims to retain members year to year, and to be able to give new opportunities to students that have demonstrated their involvement in the community.

Another notable event organized is the tradition of which stems from Engineering's connection to its military past. Both are symbols of McMaster Engineering’s unique choice of red as their color to represent their faculty. Typically purple is recognized at schools like Carleton, U of T, Ryerson, and Windsor. Word has it that McMaster engineering students once tried to dye themselves red, but the results were...rather devilish.

Continued from page 1

Learning more about weeds can enrich your life and the lives of those around you. An understanding of weeds can help you make better choices about landscape design and maintenance. Knowing the differences between weeds and flowers can also be helpful in understanding the potential problems that weeds can cause in gardens and landscapes. It is important to remember that weeds are simply plants growing wild, and that not all weeds are harmful.

The objective of this course is to provide an understanding of weeds and their role in our landscapes. It will cover topics such as the identification of common weeds, their life cycles, and control methods. The course will also discuss the impact of weeds on our environment and the benefits of integrated weed management systems, which consider both the aesthetics and the ecological value of landscapes.

This course is suitable for anyone interested in horticulture or landscape design, including homeowners, gardeners, and landscapers. It is also beneficial for students studying agriculture or environmental science.

The course will be taught in an interactive format, with discussions, lectures, and hands-on activities. Participants will have the opportunity to practice identification and control techniques under the guidance of experts in the field.

Upon completion of this course, you will be able to:

1. Identify common weeds and their life cycles
2. Understand the ecological importance of weeds
3. Consider the role of weeds in integrated weed management systems
4. Choose appropriate control methods for different situations

This course is part of the university’s continuing education program and is offered online. The cost of the course is $299, which includes all materials and access to online resources. Payments can be made in one lump sum or in three installments. Registrations are open until the start date of the course on January 2, 2023.

Interested participants can sign up through the university’s adult education program website.

If you have any questions, please feel free to contact us.

The Iron Warrior
Wednesday, November 15, 2017
Point Vs. Counterpoint
Should We Have Daylight Savings Time In Canada?

GABRIELLE KLEMT
2B GEOLOGICAL

Ah, Daylight Savings Time, that debacle of the century. Some hate it, some love it, most are indifferent (you’re wrong, pick a side!). I’m here to argue why we need DST.

My venerable opponent surely does not realize in his tirade against walking to and home from school in the dark that we are in fact not currently in Daylight Savings Time right now, we’re “back to normal”. If we never had DST, we would still be experiencing sunset at 5pm!

Complaining about the end of DST is odd not only for that reason, but also because we get an extra hour of sleep. The sleep-starved student gets one more hour of blessed relief from commitments, why call foul?

I am one of those people who find it easiest to wake up with the sun on my face (and birds singing in my ear), remind me never to move to Sweden. The end of DST makes waking up without wanting to break something more possible for me.

As a matter of fact, since the time change I’ve been waking up consistently before my alarm to the bright light of a new day shining happily through my window. And let’s not forget what we’re really here to represent: the start of DST, or “Spring Forward”. The flip side of waking up with the sun is that in the spring I start waking up way too early because of the bright light shining on my face like the noontime sun at 6am, robbing me of the sleep that I desperately need. With DST and Spring Forward the clock rests to follow a more comfortable light-setting for all.

And even if we always lived on DST, waking up at 7:30 in the pitch-blackness, we live in Canada my setting for all.

Lots of countries don’t use DST!

Daniel FR via Wikimedia Commons

HASAN AHMED
2A NANOTECHNOLOGY

Daylight Savings Time (DST) to me seems like an outdated process that we wouldn’t lose out on if we got rid of it. There’s a few reasons why I believe this, and I’ve listed them below. Let’s start with an anecdote:

So I’m walking out of class; background, in 2A Nanotechnology Engineering we have class everyday from 8:30 to 5:30, either labs or tutorials in the morning, and ending with lectures. As you can probably guess, this puts a damper in my sleep schedule, especially since learning new material in the afternoon is pretty rough. Nonetheless, pre-DST me would leave around 5:30 to relax and get some food or hang out in the remaining daylight. However, DST then came (which I freaked out about because I forgot about it and was confused how my clock went from 1:59AM to 1:00AM). Anyway, now I leave lectures and it’s pitch dark, so I’m pretty much slumming home in the cold, fall, night. Don’t get me wrong, I actually love fall and snow, and although it’s cold, there’s some serenity in bliss of walking home in the snow alone at night. However, it’s not the best to be hit with a feeling of gloominess after an electromagnetism lecture. This not only affects my afternoons, but will soon be affecting my mornings. Usually I get up around 7:00AM, sometimes 6:45AM. By the time I get up and leave my house, in a few weeks I’ll leave before the sun has even risen. Also, I don’t get to be woken up by natural light anymore, which is kind of sad.

Another drawback, which is a bit specific to the Muslims of UWaterloo (and they can vouch for me) is our prayer times get thrown off a whole hour. For those who don’t know, Muslims have 5 prayers in the day, one before sunrise, two during the day, one before sunset, and one at night. Although a slight positive is that the earliest and latest prayers get squeezed later and earlier respectively (which means more sleep), the rest get squeezed as well, throwing off our whole schedule that we were accustomed to. It’s also good practice in Islam to pray on time, and not lay it off for a later time, so it can be a tad annoying to rework your whole schedule and routine on a day’s notice.

DST was introduced to save energy for the war, wasn’t it? Don’t know if you realize, but we’re not in a war (or at least, not yet?) so it seems oddly pointless to keep. Besides, how much have we ACTUALLY saved? Is it enough to warrant keeping DST? Or are we just so used to DST that we keep it? I personally would be willing to revert back to normal timing and get used to that. Besides, we capitalize on a lot of productivity during the night time thanks to newer technologies anyway, so it’s not like we’re saving too much energy. We’ve got things running constantly 24/7, and we could save a few lines of code if we just removed DST, thus being even more efficient by an extremely small fraction. In fact, in Spring, we’re going to lose an hour of sleep. So in Fall, we gain an hour of sleep, and some of us will stay sleeping until our alarm runs (so I’m assuming we get an extra hour rather than fixing 8 hours of sleep, AKA we get 9 instead of 8). This means we lose an hour of productivity there. However, in Spring forward, thus we wake up an hour earlier. This can also lead to tired people, losing even MORE productivity. I really don’t want to lose an hour of my sleep in the future. I’ll admit, the extra hour in Fall is nice, and was helpful for this term, but it’s not worth it for me, since I like to enjoy my sleep. It’s recommended to maintain a consistent sleep schedule.

Not every state in USA even does DST. Arizona and Hawaii are saying “nah” to DST. A lot of Asian and African countries don’t do DST and you don’t see them complaining. They’re making fun of us like we do at the USA for using imperial measurements. Even my home country, Pakistan, doesn’t do it, and that’s enough reason for me to say no as well. Thus, I propose we all follow along with our friends in Asia and Africa and say no to DST because it doesn’t really do as much as we think.

Lots of countries don’t use DST!
On November 1, The CIA released 470,000 additional files from Osama bin Laden’s hard drive to the public that was captured during the May 2011 raid where Bin Laden was killed.

Even though most of his files included personal memoirs, photos, and videos about himself and his family, there were also files of Western and Japanese movies and video games, and internet pictures and videos that could show us what he and his family have been doing during their down time.

It turns out that bin Laden had a collection of animated movies in his computer. The following were found during the raid on May 2011: *Azaz*, *Batman: Gotham Knight*, *Cars*, *Chicken Little*, *Final Fantasy VII Advent Children*, *Home on the Range*, and *Ice Age: Dawn of the Dinosaurs*. They did recover one live-action movie on his hard drive, which was *Resident Evil*. These films could potentially be for either him or his family members living with him in their hiding place.

Not only did he have movies on his hard drive, he also had a few video games on his files as well. Some of these games were familiar titles such as *Mario & Luigi: Partners in Time*, *New Super Mario Bros*, *Metroid Prime Hunters*, and *Yoshi’s Island DS*, which all were for the Nintendo DS. He also owned other Nintendo DS games.

Bin Laden was also an avid video game fan. In his files, he had a picture of a stuffed monkey along with other clipart in his picture collection.

With respect to his personal entertainment, the 470,000 files also included never-before-seen personal videos and pictures about himself and his family. Some of these videos include his son Hamza’s wedding, which gave the world a look on how Hamza looked like as a young adult. There was also a photo of Hamza superimposed with a photo of the World Trade Center, which was used to mark the anniversary of the September 11 attacks.

Also included were bin Laden’s personal memoirs, which revealed his thoughts about Al Qaeda’s place in the world, and the 2010 Arab Spring uprisings. According to the CIA, his memoirs mentioned his plans to exploit the Arab Spring uprisings in what’s that it actually remains clear. Also, winter is coming; the time I’m actually writing this article is Thursday, Nov 9th, which was the first snowfall of the season. I’m now trying to grow my beard as fast as possible so I can retain warmth for the harsh Waterloo winter months (unless these coops take me to warm places, wish me luck). Another good reason suggested was that you are easily identifiable with a beard. This is good if cops need to rule you out as an innocent. I guess this is a double edged sword though if you’re guilty. Long story short; don’t do crimes my friends. They’re illegal.

For my last article, I want to point out the PS5 update posted by our VP Internal (now, it was called VP Internal a while ago instead of the positions we currently have). I’m posting this because I really believe that you need to DO MORE ACTIVITIES! You win money for your classes if you’re in the top 3. So, email ptothefive@engsoc.uwaterloo.ca if you have more questions (personal plug).

Anyway, that covers the 3rd issue of Fall 2011. Hopefully you’ll stick with me for the end of the column. Peace.

Don’t Fret The Christmas Fever!
More Reasons to Celebrate Post-Halloween

The month of November brings with it an eerie post-Halloween lull, and the urge to escape a pre-pre-Christmas limbo. Having nothing to celebrate may seem like a tolerable situation but fear not! The world is full of so many different cultures, celebrating holidays that one can’t even imagine.

All Saints Day and All Souls Day is celebrated every year on the 1st and 2nd of November, right after Halloween, and believe it or not, it is not a coincidence. These days were not a coincidence. These days were and 2nd of November, right after Refrigerator Day in America. The origins of this holiday are unknown, but it is believed that the holiday was created to make more room in your fridge before Thanksgiving. This leads us to American Thanksgiving, which is celebrated the fourth Thursday of November and falls on November 23rd this year. On this day, most families share a meal together, which usually consists of turkey. Traditionally, the meal is accompanied with prayers which perpetuate a sense of gratefulness. Thanksgiving originated as a way to say thanks to God for a good crop by the early settlers.

Another important American holiday that all shopaholics have a love-hate relationship with is Black Friday, celebrated on the Friday right after Thanksgiving. This time it is on November 24th. It is regarded as the beginning of the Christmas shopping season and most stores have special “Black Friday Deals” to encourage shopping.

If you need another reason to celebrate on the Friday of November 24th (and go a little crazy with it), “Our Uncles Are NC’s Monkeys Day” is also celebrated on this day. This is celebrated on the anniversary of the publication of Charles Darwin’s book, On the Origin of Species in 1859. It is also the anniversary of the discovery of „Lucy”, the Australopithecus afarensis skeleton, by Donald Johanson and Tom Gray in 1974, a milestone in the study of evolution, and therefore, is also called “Evolution Day” for short.

All these holidays still don’t interest you, you can always celebrate “Stay At Home Because You Are Well Day” on the 30th of November and stay in the comfort of your home while celebrating from a distance, all the way till Christmas.
Let's talk about my failures!

Actually though, please don’t send me unsolicited messages about why I suck, that would be kinda mean - I’m just going to take this opportunity to roast myself.

It’s been sort of a tradition on ASociety to write the second last Prez article about some of the failures encountered. I think that talking about this is pretty important because transparency is key in an organization like EngSoc. With the introduction of goals presentations and the red/yellow/green status attached to them, my team has been pretty successful in this area. However, some of the goals that we campaign with don’t always get talked about (usually because of feasibility), and not everyone pays attention to the council updates.

Let’s start with my campaign points. One of my larger goals was to expand the professional development portfolio and have a better organized group to handle the demand of online resume critiques, all workshops, and even some new things like LinkedIn advice. I tried to lift this one off the ground in Winter 2017, but I was unable to provide the right amount of support to this group and it ultimately didn’t grow into anything larger. Online resume critiques actually fell off the radar on B-Society for a while, which sucks because it’s a phenomenal resource. I think that this area of the Society still needs some work, but we’ve had some really great directors and visionaries go out of their way to help us in this time of need, and I’m really appreciative of those people.

Another one of my platform points was focused on communication (like introducing a bi-termy newsletter that would summarize everything that EngSoc has to offer). This is a tricky one. Communication is something that all societies struggle with - reaching students in a meaningful way is difficult. I didn’t personally focus in this area because after understanding more of the intricacies of how EngSoc communicates, it didn’t make sense to share information in a different (and potentially less effective) way. I do feel that I could have supported the VP Comms more in this area and this was a greater focus following the Communications Survey. Now onto the mistakes. One of my biggest fears in this position has been making the wrong call. There are very few easy decisions in general as President. I’ve made the wrong call more than once and I’m deeply sorry for those affected by those decisions - please know that I will always have regrets about people that I have hurt (no matter how unintentionally) in this role. For the sake of those affected by some decisions, I’d prefer to not bring the issues to light again. To those reading this article and understanding what I’m talking about - this is for you.

If anyone has any questions about this article or some of my failed initiatives, please come ask me questions! You can find me in the EngSoc office from 1:30 - 3:00 pm on Mondays and 11:00 am - 12:30 pm on Fridays. See next issue for some things that I’m proud of and a general good time because the Prez transfer countdown has officially begun!

Happy First Snow Friends! Winter is coming apparently, so I hope you all are wearing your toques and mittens to stay warm. On that note, we have lots of fun winter themed events coming up that you can look forward to!

The start of the weekend will be Tal-Eng this Friday, where you can come out and either perform or watch your fellow engineers show off their talents.

There will also be a special show from the newly elected executive (stay tuned to council tonight for the results). Tal-Eng has a tradition in engineering for a long time, and you can read more about our other traditions on the EngSoc website (EngSoc.uwaterloo.ca). The Tool will be present, with the bearers contributing as the guest judges for the performances.

Next, Saturday kicks off the holiday season with the region’s Santa Claus parade, which EngSoc will be participating in. Come join us and walk in the parade dressed in your holiday gear, covvies, and a jacket to spread your holiday cheer! The Tool will also be making a festive appearance, so join in the hype. The next day, join in the volunteering at The MUSEUM and teach some kids how to science! It’s a really fun time, and it really helps to get kids interested in science and engineering. They are the future! Sign up to volunteer beforehand so that we know you’re going to be there.

Then, to start wrapping up the term we have EOT on Nov. 23rd, which is going to be lit! It’s a board game tournament in POETS, but you can also just come out and hang out and meet new friends and watch the tournament happen! The game that we will be competing with is TBA at the moment, come by the orifice and tell the executive your ideas! Then get ready for Holiday Gift Exchange the following Monday. Be sure to sign up beforehand if you’re planning on bringing a gift! There will be a price limit on the gifts, and it’s a fun way to meet new friends and bring holiday cheer to your fellow engineers.

That weekend is also EngPlay, so be sure to buy tickets early and come out to see your fellow engineers put on an excellent production. This term has been FULL of fun events, and if you enjoyed them and want to get more involved, keep your eyes out for the directorship applications that should be coming out soon! It’s a really fun way to make new friends, gain some valuable leadership skills, and positively impact your student society. Feel like there’s an event that’s missing from the list? Suggest your new ideas to the incoming executive, we are always looking for new and fun ways to engage the engineering students.

Happy November everyone!
So what exactly is a conference? Conferences are an incredible opportunity to learn about different perspectives, EngSocs, and more. They are an opportunity to network with students and professionals alike. They're a great chance to learn and grow as an individual and as a student leader. Some are focused more towards getting involved in EngSoc, Engineering Student Societies’ Council of Ontario (ESSCO), and the Canadian Federation of Engineering Students (CFES), but some are geared towards personal and professional growth. We also want to make our delegations more diverse, so no matter your involvements, we’d love to see you there!

November 3rd-5th was the weekend of Professional Engineers Ontario – Student Conference (PEO-SC) put on by Ryerson Engineering Student Society and ESSCO. This conference is 2 days, and is centered around professional development, and introducing students to PEO and the process of obtaining their P.Eng. license. This is also an opportunity to learn about the PEO Student Membership program which gives students information on obtaining their license, as well as events put on by PEO chapters, and other organizations. Our delegation had a blast meeting students from other schools and exploring downtown Toronto!

This past weekend was the Conference on Diversity in Engineering put on by McMaster Engineering Society and the CFES. This conference is 2 days as well, this time focused on diversity, intersectionality, and inclusivity. There were many incredible industry leaders there giving talks on mental wellness, allyship, creating change within the engineering community, and many others. Our delegation met many more amazing people from many walks of life from all across Canada.

So what does this mean for you? The delegates who went to these conferences have the opportunity to share via word of mouth, in their own initiatives, in EngSoc initiatives, and in the form of blog posts and a conference report. One that still leaves a lasting impression is how in which case I say apply! You could be the person sharing knowledge and improving initiatives. Are you in first year? Look out for First Year Integration Conference applications. This conference focuses on developing first-years into student leaders, and breaking down the barriers that are present in first year. Want a more intense conference revolving more around EngSoc, and CFES? Applications for CFES Congress happening in January at Dalhousie University are now out. Check out http://www.uwengconferences.ca to apply. This conference is a week long and spans January 2nd to 8th, so this does mean you will miss a week of class or work, but I promise it’ll worth it. The knowledge gained, and the connections made are so worthwhile. Applications for Congress close on November 19th, so apply soon!

As always, if you have any questions, feel free to send me an email, or drop by my office hours. Cheers!

**Conferences**

**Your one stop shop for networking, growth, and involvement**

**DAN ROBERTSON**

**WEDNESDAY, NOVEMBER 15, 2017**

**THE IRON WARRIOR**

**Things I’m Most Proud Of**

For this issue, I’d like to follow in the footsteps of my predecessors. I’m taking my last ‘serious’ Iron Warrior issue to talk about my successes and failures as Vice President Academic, to reflect on my tenure, and to discuss initiatives I wish I carried out, but due to time or other circumstances were not feasible.

I wish I carried out, but due to time or other circumstances were not feasible. I wish I had the time to focus on more initiatives, such as outreach to external organizations, mental health objectives, and general engineering outreach within the faculty.

**Things I wish I Could’ve Done Better**

I wish I had the time to focus on more initiatives, such as outreach to external organizations, mental health objectives, and general engineering outreach within the faculty.

1) Partnerships With External Organizations

Some of our most well-attended workshops were events focused on partnering with external organizations such as the Georgia Technical Interview Skills and Facebook Vice President Infrastructure Talk.

It would have been nice to hold more workshops with external organizations. Given the time, this is something I would have liked to pursue further.

2) Mental Health Objectives

I wish I was able to focus more of my time on mental health concerns.

I wish I had the workshops, I wish I would have reached out to external mental health organizations to partner on running events and services geared towards mental health awareness in the engineering community.

Furthermore, I wish I could see the engineering referendum on mental health to its completion as Vice President Aca-

**Conclusion**

I’m going to be missing my Vice President Academic EngSoc. I hope my contributions made a difference, and hope for the best going forward for the future of the Engineering Society, the Engineering Faculty, and the university as a whole. Cheers fam, love y’all. <3

**Some Reflections From Your VPA**

**KATIE ARNOLD**

**VP FINANCE**

Being the entrepreneurial school that we are, it is recognized that many of our students have projects, initiatives and ideas that affect the Waterloo Student community. Be it student teams, outreach projects, or augmenting services, our student community is full of ideas. Unfortunately... we’re students. We often don’t have the money to front our million-dollar dreams. That’s where student teams and proposals come in. While I recognize corporate sponsorship and donations etc., this article will focus on the Student-funding opportunities on the University of Waterloo campus.

**WEEF - Waterloo Engineering Endowment Fund**

Weef.uwaterloo.ca

WEEF is our resident Waterloo Engineering Endowment Fund. Chaired by the Canadian Federation of Engineering Students’ Director, WEEF is a committee of student representatives and they allocate hundreds of thousands of dollars each term to students and faculty. Applications happen once a term and they fund LONG LASTING improvements, like equipment. Students can apply on behalf of teams or groups.

**ECIF - Engineering Capital Improvement Fund**

gensoc.uwaterloo.ca/services/engineering-capital-improvement-fund/

The Engineering Capital Improvement Fund is chaired by ME! The EngSoc EngSoc WP Finance chairs this committee and the Engineering Society, Engineering Faculty, the Engineering Society, the Engineering Faculty.

**SLEF – Student Life Endowment Fund**

feds.ca/funding

The Student Life Endowment Fund is a FedS-run fund that funds various activities, and donations etc., this article will focus on the Engineering Society, the Engineering Faculty.

**EOIF – Enterprise, Opportunity and Innovation Fund**

cfs.ca/funding

The Enterprise, Opportunity and Innovation Fund is a Feds-run fund that provides grants to students to create new projects, new ventures or create the Feds’ Co-op 2.0.

**SPF – Special Projects Fund**

cfs.ca/funding

This is another FedS fund, the Special Projects Fund is focused on supporting one-time projects that haven’t happened before. (This does not support conferences.) This committee is chaired by the Feds’ VP Internal and four other Waterloo Students. Students can apply to this fund as members of a group or as individuals.

For more information on these funds you can hit their websites, or contact weef@uwaterloo.ca, vpfinance@

engsoc.uwaterloo.ca, or vpin@feds.

cfsc.ca. Good luck with your projects my friends, and always remember it’s a good practice to ask for more than you think you’ll get.
The American Government is a complex machine which most people only really think about in four year presidential intervals. This isn’t 100% accurate. Lots of gubernatorial positions turn over on Presidential off years due to unforeseen circumstances, and there are other positions which have different terms than the President. Early November this year, one year after Donald Trump’s successful election, saw a string of these elections take place. New Governors were elected in Virginia and New Jersey, with other smaller positions being filled around the country. After the Presidential election last year the Democratic Party felt exhausted and defeated. Hillary Clinton, the DNC chosen candidate, had earned more votes than her rival but was still not going to be the President. A wave of fear gripped Democrats across the nation, and the phrase “How to Move Back” became the second most searched thing on Google for a few hours. Rather than spiral out of control though it seems like the Democratic Party has licked their wounds and come back stronger than ever. The Virginia House of Delegates had ridden a “Blue Tide” this year as the election swung the house from being a vast majority Republican to being split right down the middle. At the time of this writing there is still no definite answer to whether the house will be Red, Blue, or have a purple split in the centre, but regardless this is a huge momentum shift for the Democratic Party and mindset. One personal win sticks out as being vastly influential. Danica Roem, a transgender woman, defeated the Republican incumbent Robert Marshall for a House of Representatives in Virginia. This is a huge win as Marshall is a complete conservative and self-declared homophobe. He refused to debate Ms. Roem and referred to her as a man. He was also the Representative that introduced the controversial “Bathroom Bill” to the House of Representatives last year. LGBT people all across the United States have celebrated Roem’s victory. These elections also showed signs of a newly energized electorate. Exit polls for the Virginia gubernatorial race showed that the turnout at the polls was the highest it has been in over twenty years. Keeping in mind that President Trump deeply wanted his candidate to win here, the President tweeted multiple times endorsing Gillespie before distancing himself after the loss, this is a reassuring sign for the left. The people are sick of Trumpism and are mobilizing to stop its spread.

On November 3, Estonia suspended hundreds of thousands of digital identity cards due to a massive cryptographic flaw. The flaw, called the Return of the Coppersmith Attack (ROCA) affects a library developed by the German chipmaker Infineon: RSA Library version v1.02.013, which is used to generate public and private RSA keys on a smartcard rather than a general purpose computer. Generally public keys are meant to be distributed widely to generate messages that only people holding the private key can read. However this version of this library often generates public keys vulnerable to factorization: the prime numbers used to generate the private and public keys can be determined from the public keys relatively quickly. This allows the private key to be constructed by an attacker. Infineon used a vulnerable algorithm to create these prime numbers in an attempt to boost performance.

Using the private key, a hacker can impersonate key owners and decrypt the key owner’s private data. Not all keys of a given size are equally vulnerable, but a vulnerability check only takes 1 millisecond to complete. This version of the library was released back in 2012, and complied with security certification standards binding on governments and businesses the world over. The certification process did not manage to uncover this flaw back then. Today, there may be tens or hundreds of weak keys out there, including the unfortunate Estonian identity cards. The Estonian government was notified of the flaw by researchers back in August, but back then the exploit did not seem feasible. The ROCA exploit was revealed to the public in October and since then, many teams have found ways to make the exploit faster and more efficient. It may be possible to factorize a single public key at a cost of $1000 or $2000 using specialized hardware such as GPUs, FPGAs or entire integrated circuits optimized for factorizing. As research progressed, the Estonian government finally acted. The Estonian Police and Border Guard suspended 760,000 digital identity cards. These cards are used for filing taxes, encrypting sensitive documents and even for voting. The last use is critical: if even 10% of these cards were compromised, that would be enough to flip an election. Every card issued from October 16, 2014 all the way to October 25, 2017 has been suspended. New cards will use elliptical curve cryptography rather than the vulnerable version of the RSA library.

While Estonia has acted, many other manufacturers may still be at risk. Slovakia issues vulnerable identity cards, as does a number of private companies. If they do not act quickly, they may find their secrets revealed to the public.

**It’s A Threat To The System!**

Estonia Reveals Its Cryptovulnerability Is No Joke

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Do You Want To See The World?
Preparing For An International Experience

CASSIE STEA
2B ENVIRONMENTAL

I have always had the desire to have an international experience as part of my engineering undergrad. Whether it was an exchange to one of the Universities of Waterloo’s many partner universities world-wide or an international co-op work term, I knew I wanted an international adventure under my belt. I believe that acquiring a global perspective is an important awareness that every engineer should strive to obtain. Best yet, being able to see how different countries approach problems, technologies, or simply their day-to-day living allows an individual to become that much more aware, versatile and well-rounded. The world is becoming more and more internationally connected, therefore being able to work or study in another country is one step closer to staying on the cutting edge of things.

So with all of these opinions and my drive to go abroad, I did it. I researched, I applied, and I successfully managed to secure an international co-op work placement. This upcoming winter, I will be spending four months working in the country known for its windmills, clogs, and famous meandering canals – the Netherlands. Despite these interesting attractions, the real reason behind my strong desire to obtain an international experience in this particular country is that the Netherlands are known for their innovative water management practices. I have always been very passionate about water resources and the environment; this opportunity could not have been more suited to fit my studies and interests.

For those of you who are as interested as I was (and still am) in going on an adventure and acquiring an international experience, I wanted to share some advice that will hopefully provide some assistance.

First, I think that it is most important for anyone looking to work abroad to determine where in the world you would be open to travelling to, and which countries are actually feasible for you to be working in/travelling to. Going through the job search process with CECA and WaterlooWorks is a good starting place; they often have information regarding the limitations and realities of working in certain countries. Regardless of any restrictions or limitations, you also want to make sure that if you are indeed offered a position, you would be willing and comfortable with working and living in the country you applied to.

Second, be confident in yourself and your applications. When applying to international jobs this fall, even as a 2B environmental engineering student with three successful co-op works terms under my belt, I still felt like I had no shot at getting an interview for an international position let alone a job offer. Believe in yourself people! The worst thing you could do is not apply for a job you want because you think you cannot get it. Let the employers figure out if you are or are not qualified.

Third, realize that a lot more preparation is required than your average co-op work term. Be prepared to put in the extra time, effort, and finances needed in order to get organized for your work term abroad. Extra tasks like acquiring work visas, coordinating and booking flights, getting any necessary vaccinations, takes time and resources that one does not normally have to allot time and money for. However, if you are in the same opinion as myself, these tasks are minor prices to pay compared to the amazing experience that awaits. Nonetheless, they definitely are not something to be overlooked.

Lastly, know that the University of Waterloo has a great system in place to support you if an international exchange or co-op work term is something you want to do. From providing general information, to giving out international experience scholarships/bursaries, to organizing documents one might need, the university is able to assist you in getting ready for your international experience abroad.

Why did the Microsoft worker get confused?
His boss asked him him to “Box one Xbox One X box”.

RYAN SAMLAL SINGH
2T COMPUTER

“The world’s most powerful console”, the Xbox One (X1) X, launched worldwide on November 7 for a $600 CAD. The console, announced by Microsoft one year ago at E3 2016, promised AAA gaming at stunning 4K resolution and silky 60 frames per second. The X1 X dwarfed Xbox One S, and all Sony PlayStation 4 (PS4) consoles in hardware specifications. It’s most comparable to the PS4 Pro. Both consoles use AMD SOCs with similar architecture, but differ greatly in graphics capabilities; They both employ AMD’s 4th generation “Graphics Core Next” GPU architecture, but additional graphics compute cores with higher clock speeds allow Microsoft’s console to perform 1.4 times more floating-point operations per second than the PS4 Pro, meaning far stronger graphics capabilities for the Xbox.

The slim and powerful X1 X became the fastest pre-selling Xbox ever, but was this enough to make the console in competition with PlayStation? In June, total PS4 sales exceeded 50 million units worldwide, whereas estimated worldwide X1 sales were about 33 million units. Combined with the fact that the PS4 is better than the X1, and easier to program because of its unified memory architecture, official PS4 developers favor developing for PlayStation; it makes the most sense financially. The X1 X may have the best hardware, but why would developers spend time to use all of that power when they could be optimizing for the two thirds of the market on PS4? This compels less people to buy Xbox, creating a vicious cycle of declining developer support and unit sales. Further, since Microsoft guaranteed the release of all Xbox exclusives on Windows, PC gaming is a viable option for graphics enthusiasts, especially since desktop PCs are versatile, upgradable, multipurpose machines. A desktop PC outperforming the X1 X costed Alaina Yee of PCWorld less than $900 CAD. Cheaper PCs can also offer gaming performance roughly equivalent to the X1 X, and can be relatively inexpensively upgraded, in time, to far outperform any console. The X1 X makes sense as a purchase for Xbox enthusiasts, or those who want 4K gaming right away without the hassle of PC building, who also accept PC is the better platform for graphics enthusiasts. I’m skeptical sales from these groups, plus sales of other Xbox models that the X1 X launch drives, will be enough for Xbox to start competing with PlayStation in unit sales this console generation.

Do you want to see the world? Preparing for an international experience.
THE IRON WARRIOR
WEDNESDAY, NOVEMBER 15, 2017

spite the benefits to the league, there may be harms as well. The most notable benefit of the NFL is the revenue generated from the massive advertising and sponsorship deals the league has. These advertising deals have turned the NFL into a cash cow for the league, bringing in millions of dollars every season. For example, Monday Night Football is the most-watched show on network television, bringing in significant advertising revenue for the NFL. However, there are also negative consequences to the league's success. The NFL is a closed system, with only select teams participating in the league, and the benefits of this system are not shared equally among all teams. This creates a sense of disparity among teams, with some teams in larger cities benefiting more than others. Additionally, the NFL has a history of player safety issues, with many players sustaining serious injuries during games. This is a concern for players, coaches, and fans alike, and there have been efforts to improve player safety in recent years. Overall, the NFL is a successful organization, but there are also negative consequences to its success.}

Get enough sleep!

Getting sufficient sleep on a nightly basis is integral to optimizing our immune system. For instance, T-cells, which are a critical component of the immune system, require a full night's sleep to function properly. In addition to T-cells, other immune cells also require sleep to function properly. For instance, natural killer cells require sleep to function properly, and these cells are critical for the immune system's ability to fight off infections. Therefore, getting enough sleep on a nightly basis is essential for maintaining a healthy immune system.}

“Thursday Night Hutball”

The NFL plays games on Sunday, along with Thursday and Monday nights. Thursday Night Football and Monday Night Football are massive cash cows for the league, bringing in big advertising and exclusive foot-}

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Continued from page 1

The next speaker was Doug Thomas. Now, Thomas was listed as representing “Humanism”. Humanism is not strictly speaking a religion unless you are a fan of Daniel Dennett. Instead, it is the stance that personal freedom must be defended and that critical thinking and evidence are the best means to learn about the universe. Obviously, not every non-religious person is a Humanist, and not everyone fitting the Humanist description would call themselves Humanist. Still, the overlaps are strong enough that Doug Thomas represented atheism and agnosticism in general.

Thomas pointed out that Canadians shouldn’t be too quick to put themselves on the back for their values; we might not be following them as well as we think to like. He pointed out a number of laws discriminating against non-religious individuals and organizations. He also pointed out the exclusivity nature of the national anthem and that those who do not believe in God. He was also concerned about the fact that immigrants are treated differently based on their income, and the fact that hate speech is generally allowed if it comes from a religious scripture.

“We have a lot to apologize for”

The third speaker was Reverend Andrew Asbil of the Anglican Church, representing Christianity. He mainly talked about Christians in Canada and how the Church of the Redeemer was working on decolonization. He spoke about how the Church of the Redeemer, for the benefit of those unfamiliar with the faith. Dr. Bai noted that the Sikhs have survived multiple genocides, even saying that “My existence is resistance.”

Dr. Bai then explained a principle from Sikhism that she felt would be beneficial for Canada to adopt, the principle of “ekta”. Bai described it as a concept of “oneness” and that the “ekta” is the result of this principle. Eta does not mean that everyone is the same, or should be: Bai claimed it was closer to equality than to sameness. Some historical and modern examples of ekta were brought up. Bai also noted that “Canadian values” is a very shifting, politicized idea, so Canada might benefit from having an internal principle to turn to. She concluded with some statements about bringing down oppressive systems, standing up for human rights, and improving Canadian values into the future. Each of the speakers focused on different aspects of the world religions conference.

KrackAttacks

A Large Vulnerability in WPA2 Security Protocol

Just over a month ago, researchers at KU Leuven discovered a serious weakness in WPA2, a protocol that secures all modern private networks. It’s been proven to work mathematically, so it should be safe, right? Nope.

When WPA2 encrypts your information, it works between your computer and an access point. Basically, four messages are sent in between your computer, each with random information. In the fourth message, two transcriptions, anonymized computer can try to access that information, which is generally pretty hard, and there are no big holes or easy ways to get this information. So in layman’s terms, it blocks the third message (just before the key installation) and sends a different message itself as message four. This message trick a victim into reinstalling an already-in-use key (Key Reinstallation Attack), so that parameters once stored are set to their initial value. Reusing keys is a huge no-no. Since this message was never received back by the access point, it will try resending to the computer, which will reset the transmit packet number (nonce), so they can be re-played, decrypted, or forged. This is easy to decrypt because now the attacker has some known content that they can work with, and thus it enables your password and other information. This vulnerability, without actually recovering your WiFi password.

So what can you do to prevent this? Well, most notably, update your operating system to one that fixes this vulnerability. So update all your devices and firmware if possible. Patch everything. You don’t really need to change your WiFi password but it doesn’t hurt to do it. Keep your computer and other devices up to date, no matter how annoying it is to wait for it to fully update.

I’d like to thank krackattacks.com as well as ComputerPhile’s video on the subject to help me write this article. In fact, I found this quote pretty great, as this author found a large issue while procrastinating. “When working on some code I had read a hundred times before, writing a function that a computer programmer could call such a function twice. But let’s first finish this paper...” a few weeks later, after finishing the paper and completing some other work, I investigated this new idea in more detail. And the rest is history.” Perhaps some of your computer scientists out there can explain it better to your friends (or even me, since I still don’t get it).
Hello fellow procrastinators! Today we are making that all-American comfort food: meatloaf. I truly believe this stuff has been given a bad rap by pop culture such as Captain Underpants comics, but I’m here to set the record straight: it’s actually a very tasty meal. I will admit that I decided to make meatloaf simply because I’d never eaten it before and I was curious about how bad it could possibly be. Ever the good engineer I was skeptical of this predicament. Captain Underpants-influenced view of the matter and needed to test the hypothesis that meatloaf is the worst food out there. Folks, that backstory’s behind us, let’s begin this meal-prep. Oh yes, this is a meal-prep. Look how productive we are being this week, because these meatloaves are mini-sized you can just pop two into a container with some veg and you are set for a week’s worth of lunch!

I got this recipe off one of my favourite websites, Budget Bytes, it speaks to me on a special level. Specifically cheapness. Now this recipe also calls for extra lean ground turkey. When I went to the grocery store to buy meat, for the second time this term because I never go grocery shopping and buying meat is too expensive for me, the only options they had were ground lamb from Australia, and a club-size pack of 30% off ground meat that was most certainly not extra lean. I went for the supermassive meat option and it was still $10! Very upsetting. The rest of the ingredients you will need are as follows:

**Ingredients**

- Olive oil, onion, garlic, 2 carrots, a zucchini, a carton of mushrooms, 1 tbsp Worcestershire sauce or as Google told me if you don’t happen to own any of that, soy sauce. ½ cup ketchup from your roommate’s fridge that you’re not sure anyone has used since 2010, a large egg, ¾ cup plain breadcrumbs (or just the rest of the breadcrumbs in the jar), 1/2oz of extra lean ground turkey as we discussed earlier.

The recipe also had a glaze that you can make to the glider for a higher level of awesomeness. A little bit of mockery can go a long way when it comes to making meatloaf simply because I’d never end up using, and 2 tbsp of apple cider vinegar.

**Get shredded**

We start by dicing the onion and mincing the garlic. Two things that I will never perfect no matter how many times I do them. I can’t be the only one whose hands possess a lingering trace of onion for days after chopping them, can I? While you sate these with the olive oil in a large pan on the stove, the largest one you can find! Peel the carrots and wash the zucchini and mushrooms. When the onions are as pale as you were when you got that midterm back, use a large-holed cheese grater to shred the carrots and zucchini in to the frying pan with the onions and garlic and continue sautéing. Now it’s time to roughly chop the crap out of the mushrooms. Go wild my friend and let it all out. Be warned, this is an endurance challenge because you will soon realize 8oz of mushrooms is way more than you first realized.

For the situations are. Like all scholars of terrible things, I am a sucker for terrible things, and it seems cooked through and if you think it needs a little more time, like your degree, go for it. If you want to do the glaze, mix the ingredients and stir till smooth then, when the loaves have cooked for about 15 min, spoon it over them and cook for another 15 min. If you prefer the slightly more sketch tomato sauce version, just spoon that on after cooking when you’ve transferred the loaves to your containers.

Enjoy your well-prepped meal!

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**Table Reads**

Editor in Chief Gabrielle told me about a podcast where the hosts read terrible screenplays that were never made into movies. As it happens, I am a sucker for mean people describing terrible things, so I decided to give Table Reads a listen. It was truly the best kind of terrible, so thanks Gabrielle.

One of the screenplays covered by this podcast is a Spider Man script from 1993 written by James Cameron. This could have been a truly incredible cinematic debut but for the wall crawler, mainly because of the following James Cameron’s habit of calling his roles out. The script could have been called “Okay! Dokie!” Spider Man doesn’t stop any crimes until about halfway through the script, and Aunt May thinks Peter Parker’s only priority should be finding a girlfriend and making her some grand... nieces? Was this a passion project, or Cameron’s idea of an intentionally So Bad It’s Good experience? Perhaps we will never know. Or perhaps I just do not want to look into it.

Now this level of terrible in these scripts has been established, the podcast proper. The hosts, Patrick Duffy and Shaun McBee, use a wide variety of odd voices to bring the awful, awful characters to life. They also interject with sound effects and very consciously change the background music to accompany moments. The scripts themselves often have massive amounts of detail, thanks to stage directions and terribly redundant dialogue. As a result of all this, Table Reads is that these movies never got made, and the whole point of podcasts is except for “SPEED READS”. When the hosts decide on a movie to read, episodes are released on a weekly basis. When one movie is complete and a new one must be picked, the gap is a bit longer. The description claims that every single script they read is bad, but there is one exception: the Roger Rabbit prequel (inexplicably called “Roger Rabbit 2”) is apparently legitimately good. The hosts also sometimes read screenplays they wrote themselves, once upon a time.

Throw in the mushrooms into the skillet along with some salt and a lot of pepper. You can never have enough pepper. If you’re not sneezing, keep shaking. Now you wanna let that sit there and bubble away all the healthy juices from the veggie. When they’re “mostly dry” put them in a bowl to cook for about 10 minutes or until you remember half-way into your fifth YouTube video that you never finished making those loaves. Preheat the oven to 375°F and coat a muffin tray in non-stick spray. If you can’t find your roommate’s just spend 10 minutes trying to butter the tin, really taking time to get into all the corners. This will turn out to have been a waste of time because the tray itself is non-stick, but you don’t know that yet.

Add the Worcestershire/soy sauce, ketchup, egg and breadcrumbs to the bowl with the veg and mix these until well combined. You don’t have to use your hands but we’re engineers and we prefer hands-on experience. Add in the ground meat and fold until it seems adequately mixed. Divide up your mix between the 12 muffin cups and bake for 30 minutes. Check if it seems cooked through and if you think it needs a little more time, like your degree, go for it. If you want to do the glaze, mix the ingredients and stir till smooth then, when the loaves have cooked for about 15 min, spoon it over them and cook for another 15 min. If you prefer the slightly more sketch tomato sauce version, just spoon that on after cooking when you’ve transferred the loaves to your containers.

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**Editor’s Note:** I recommended the Blacklist Table Reads, although I don’t mind taking credit for helping Ratan find a new podcast I can’t take credit for the one!
I don’t think that many people are surprised with how well Thor: Ragnarok is doing at the box office. The trailer for the movie broke records when it hit the internet this year, and critics around the globe have been raving about it for weeks. This is a marked departure from the two previous Thor movies. Critics and audiences didn’t love Thor and were even less enthused about Thor: The Dark World, but it would seem that the Norse god has learned from his outings with the Avengers.

Ragnarok adopts a more lighthearted and fun loving version of Thor, which helps turn the tone of the movie from space odyssey to space comedy. Chris Hemsworth credits his cameo appearance in Ghostbusters with helping shape his performance this time around. Director Taika Waititi’s influence is also widely felt. Waititi, a New Zealand born director best known for the indie comedies What We Do in the Shadows and Hunt for the Wilderpeople, brings a very specific comedy style to the film. Along with directing, Waiti played numerous small roles, including as the show-stealing rock man Korg (note to self: don’t be a scissor man).

And then there’s the green elephant in the room. The Incredible Hulk, as played by Mark Ruffalo, hasn’t been seen or heard from in 2 years, and it turns out that he’s been earning a living as a gladiator on another planet. It’s a pretty sweet gig for an angry radioactive muscle man. From the outset the Hulk is less excited to see Thor than Thor is to see him. This version of the Hulk has the most deliberate separation of Bruce Banner and The Other Guy that we’ve seen, which is interesting but on the whole underwhelming. There isn’t really a character arc for the Hulk which is disappointing but that screen time is effectively used elsewhere.

The emotional weight of the movie is carried by Thor and his brother Loki (Tom Hiddleston). Anyone familiar with the characters knows that Loki has betrayed Thor upwards of ten times at this point, on screen alone. Over the course of the movie Loki’s trust is tested again and again, but his deep bond with his brother is shown (the brothers both reminisce on the past, and have a playbook of battle techniques). This movie finally resolves their storyline in a satisfying way without being too heavy-handed. Odin also plays a large role in bringing the brothers together again. The scenes with Odin helped slow down the pace of the movie, which had been pretty jarring up to that point, and let the audience absorb what had happened thus far.

The other cast members also bring terrific performances to the table. Cate Blanchett, best known to me as Galadriel from the Lord of the Rings, is absolutely terrifying as Hela the God of Death. Similarly Tessa Thompson gives an excellent performance as the former Asgardian special forces agent Valkyrie. Thompson has some pretty solid platonic chemistry with The Hulk (both CGI dude and Mark Ruffalo). Anthony Hopkins is as good as always in his turn as Odin, and Jeff Goldblum adds another awesome role to his legendary portfolio as the Grandmaster. On a totally unrelated note I watched a clip of Jeff Goldblum rating tattoos of himself, which was terrific.

I think that Ragnarok is a great turning point for the Thor series, and the character in general. If you haven’t seen it already I recommend grabbing a ticket.

Real World Uses For An Engineering Education

Leah Kristufek, 2016 Chemical

You Recognize and Respect Math

You Write Good (I Mean Legibly)

Approximations

Late Night Stamina
If he doesn’t win the game, he _____

Video games cons are packed with time (four words)

Spiky chili dog enthusiast

Mike _____’s Punch Out

creator

2008 life simulation game by Sims

Halo campaign (acronym)

Most difficult playthrough type for a (three words, first word starts with 3)

Type of level found in modern Mario

ACROSS

1. Distractions

2. Iron inquisition

3. “I Moustache You a Question: What’s Your Favourite One?”

4. “Fu Manchu.”

5. “Dali.”

6. “Natural.”

7. “The invisible one.”

8. “I really like the stubble thing... it almost looks too good.”


11. “I Moustache You a Question: What’s Your Favourite One?”

12. “Fu Manchu.”


14. “Natural.”

15. “The invisible one.”

16. “I really like the stubble thing... it almost looks too good.”


DOWN

1: Last PS1 entry of a popular RPG (three words, first word has the first letter cut off)

2. 2003 action adventure critical darling, finally getting a sequel (three words and a &)

3. Pokémon x Nobunaga’s Ambition, 2012

4. Professional space pirate hunter’s first name

5. Villain of Crash Bandicoot

6. Professional space pirate hunter’s first name

7. Gen 5 tree-like Pokemon (first five letters)

8. 2, also known as Deformers, is a 3D car simulator developed by Désén Nagymáthé

9. Codename for Kinect

10. Allowed SNES to connect to wifi in Japan (first five letters)

11. Moto... games were made popular by the MTX and MX franchises

12. Mike _____’s Punch Out

13. Spiky chili dog enthusiast

14. Rockstar’s best selling game of all time (four words)

15. Video games cons are packed with these Q&A and podcast-like showings

16. If he doesn’t win the game, he _____

17: Video games cons are packed with time (four words)

18: If he doesn’t win the game, he _____

Sudoku

#2017-14

Scorpio (Oct 23-Nov 21): Take up something unconventional this week, like knitting socks. Stay creative Dobby!

Sagittarius (Nov 22-Dec 21): Use the money you were going to use for gifts for family members to buy yourself a ticket to something. The more pricey the ticket, the more your loved ones will feel special that you were going to spend the money on them.

Capricorn (Dec 22-Jan 19): Stop drinking water in favour of an unconventional herbal supplement drink. Write and then self-publish a book about your new lifestyle, change the world.

Aquarius (Jan 20 to Feb 18): Take up a cause to post incessantly about on Facebook. Get some exercise by shaking off the haters this November.

Pisces (Feb 19 to Mar 20): Invest in some stocks. Get really involved in it. Quit school and become a millionaire. Own the world.

Aries (Mar 21-Apr 19): You will discover, while chatting with some friends, that you are in fact the funniest person alive. Make a video to post on YouTube. Wait for the Internet fame to come for you Bo Burnham.


Gemini (May 21-June 20): You will buy a cat and it will be awesome. You’re welcome.

Cancer (June 21-July 22): Get a new passion and start telling everyone about it. People need to know why your glow is so bright or your poops have never been better since you began rubbing rutabaga on your skin.

Leo (July 23-Aug 22): Upon walking to school in the snow and cold you will fall and hurt your elbow. You will get an extension on your next assignment. You go Glen Coco, work the system!

Virgo (Aug 23-Sept 22): A newfound passion for baking, rather than doing school-work, will pay off. After making a particularly delicious batch of mid-November baked goods and bringing them to school, you will be offered money for a baking start-up.

Libra (Sept 23-Oct 22): A squirrel jumping out of a garbage can will cause you such fright that you will drop all your books in the snow. This isn’t middle school, stop carrying your books around. A friendly stranger will help you out and become your new BFF.

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Solutions for previous crosswords can be found on The Iron Warrior’s website at twarrior.uwaterloo.ca/distractions.