Opportunity to Slow Down Time.

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industry, and startup environments joined together at the Quantum Nano Centre to explain their ideas and explore new areas of nanotechnology research. WNC strives to "explore what it means to make the best of this revolutionary era of new discoveries, new technologies, and exciting new possibilities."

The day began with some opening remarks and breakfast, with the conference chair Jatin Patil delivering his thoughts about the organization of the conference and the importance of nanotechnology to us. The Dean of Science, Dr. Robert Lemieux, as well as Associate Dean, Research (Engineering), Dr. Anwar Hasan, also provided their thoughts on the conference and Waterloo. The Honorable Bardish Chagger, Minister of Small Business and Tourism, Leader of the Government in the House of Commons, and Member of Parliament for Waterloo, also gave her opening words and recognised Waterloo's diversity in research. With that, they opened the floor to the first distinguished speaker: Dr. Duncan Stewart.

Dr. Stewart is the General Manager, Security & Disruptive Technologies at the National Research Council, and has been since 2008. He completed his Ph.D. at Stanford University, and worked at Hewlett-Packard for 10 years afterwards in Palo Alto, California. Facilitating the fireside chat was Akshayaa Govindan, Logistics Director of WNC. She asked questions to Dr. Stewart, and audience members were also allowed to submit their queries through Facebook and Twitter. One piece of advice that Dr. Stewart mentioned was to travel the world while you still could. In between his education and work he traveled quite a bit and claimed it helped him in his life. This is a grand opportunity we get through our coop system so be sure to take full advantage of it. Speaking of coops, he hires them, so if you happen to be reading this and are interested in research be sure to give the National Research Council of Canada a call, and maybe you’ll find a position that suits you. Another piece of advice that he gave was that you can change the world, start your startup, AND make good money. They’re all possible and with enough passion and work you can achieve it. After the chat, an Industry Panel was held with some of the industry’s top members. The panel included Dr. Rina Carlini, President and CEO of Haltech Innovation, Dan Sinai, Senior Executive at Innovation IBM Canada, Dr. Melanie Ledgerwood, R&D Manager of Telelyne DALSA, and Dr. ArminFischer, COO of QD Solar. The panel was chaired by Dr. Ilan Kramer, Director for Corporate, Government, and International Partnerships at UofT.

Dr. Duncan Stewart Adresses the Audience at the 2017 WNC

BIG Ideas on a SMALL Scale
Waterloo Nanotechnology Conference

Going Abroad Without Instagram
Slow Down You Crazy Child

Convincing someone who loves to travel to leave the country is relatively trivial. Those who have already hit the road generally have a hunger for explo-

ration, a desire to see the world and/or present it on their Instagram accounts.

I don’t even have Snapchat yet. I do love new experiences and the fascinating left sidedness of British culture, a place that’s always on time and incredibly polite. As much as ad-

venture calls, embarking on this ex-

change was still expensive and time consuming. I couldn’t justify it as just an opportunity to see something new and take pictures, I justified it as an opportunity to slow down time.

Here is a quote from a book called

Moonwalking with Einstein, it’s a book about memory.

“Monotony collapses time; novelty unfolds it. If you spend your life sit-

ting in a cubicle and passing papers, one day is bound to blend unmemora-

ble into the next - and disappear. That’s why it’s so important to change rou-

times regularly, and take vacations to exotic locales, and have as many new experiences as possible that can serve to anchor our memories. Creating new memories stretches out psychological time, and lengthens our perception of our lives.”

This quote deals with retrospective time judgements, estimating and per-

ceiving time after something happens. Remember the early days of your child-

hood, when the end of summer actu-

ally felt like two months? As children each day brings new memories, some-

thing to remember it by. As we grow up this slowly stops being the case. High school went by a lot faster than ele-

mentary; university is flying when our lectures blend together week by week, semester by semester. Of course, this effect could be mitigated by changing routine (but your timetable is fixed) or creating new memories (but you’re too busy with school).

Strike Out!
5 Weeks Later College Students Return to Class

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Going Abroad Without Instagram
Slow Down You Crazy Child

On Tuesday November 21, Ontario college students returned to their class-

rooms ending their fall semester well into January. However, the strike had taken a toll on the students who’re preparing to write for career exams such as the paralegal entrance exam with the law society. In addition, some students in co-op are worried that they are not able to finish their on-the-job trainings in time.

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Continued on page 11

Continued on page 4
Letter from the Editor
So Long And Thanks For All The Fish

It was after a particularly distressing encounter I had in a hallway late at night that I realized how much everyone around me is going through as well.

Taking on the entire group project, no one that is cumulative between all your classes, is not the right way to do things. I realize it can seem like you have no choice, but if you look on the front page of the report too, but getting a crappy group is not your fault. Profes may seem unwilling to see your distress, but if it is causing unjustified stress and trips, and to the sacred crying place: the bathroom, you have to let them know. Your mental health is more important than this degree and if your prof can’t see that the next higher up will. If you feel uncomfortable talking to someone about it, chat a MATE or friend to ask, and I’ll come too.

Send iwarrior@uwaterloo.ca a quick email and I’ll try to get back to you. You want to talk if you have so many options that taking the entire project on your own back should not even be considered. However, if this is the sort of absolutely bad thing you have to take, I hope that you’re including that in your letter of submittal because no one deserves grades for ruining your sanity in the most stressful weeks of the term.

I’d like to talk finally about the importance of Nothing. In a world where it feels like we must be constantly on the go with projects or Something Important, doing nothing sounds like blasphemy. I personally have fallen into this pressure to always be doing something; my agenda is filled to bursting with Events, Projects, Meetings, Deadlines, and Fun. I’m always busy and I’m always moving but I’ve started feeling lonelier, more cut-off than ever before. My fun consists of snatched moments watching YouTube videos between calculus practice problems – something that has been detrimental to my creativity and now feel like I have to work even harder to compensate.

But have you ever noticed how well you can concentrate on something after a good night’s sleep, especially if all you did the evening before was relax or read a good book? Or have you ever noticed your productivity go up, contrary to what you might think, after a night out with friends at a party? It’s because you need to do a little Nothing sometimes in order to continue being successful at your Somethings. “Taking a walk to clear your thoughts” is saying for a reason (it is a saying, right?); people need some time to do or think or feel nothing. Even sitting down with a piece of blank paper and no expectations is a form of doing nothing.

It was always an anomaly I noticed on co-op. Without the inhuman kind of things that I have to do on campus, I start out my co-op term terrified of being bored out of my mind. Yet somehow, the things I do schedule in mean a lot more. I spend a few hours at an art gallery and get more out of it than do organizing events for the same amount of time. That’s because on co-op you feel free to do exactly as much with your time as you want, and apart from work there are no deadlines to meet, no stresses outside your nine-to-five. Unless you work overtime, which should really be your own choice. Emptying your schedule is not a bad thing, it’s something I am trying to teach myself to do and I think more people would be happy if they tried it as well.

I think many people associate having free time with failure or importance (and not in that way, of course). The North American go-go-go culture set out by our parents as technology became bigger and better and capable of “doing more for me” is “feeling like they’re not doing enough”. I’ve started wondering if maybe some of our improvements haven’t been detrimental after all. When a woman last year who told me in her native Norway, they just put sand on top of the ice and snow and it compacts and there’s no really a bad thing is it? When you keep up the same pace year-round something has to give. Even the Aussies, in a land untouched by snow, are known for how laid back they are. They manage to take it easy consistently throughout the year. I feel like on this continent everything is taken way too seriously, and no one is benefiting from it.

So, with those last words I would like to end by saying: stay sane this exam season and into the holidays. Take care of yourself first, and cheesy as it may sound, the rest will follow. If you’re working this winter, don’t put too much pressure on yourself to always have a good time or over-exert yourself either at work or in your spare time. Choose things that interest you. If you don’t have a job, please don’t worry about it too much and maybe talk to CECA about helping you look. I’ve heard they can be quite helpful if you ask them for it. Lastly, if you’re back in school next semester, try to schedule yourself some Nothing time and see how it works out.

If it doesn’t work, change the nothing that you’re doing.

So long everyone, and to quote some very ground people and in situations that make me lose my hair, they are constantly calm. How do they do it? Honestly, I admit I’ve been trying to make myself more level-headed for years now. Yoga, articles about staying detached from situations outside my control, quiet nights at home, a good book, a full cup of peppermint – none of it has helped so far.

What I find really helps the best is talking about the things in my life that bother me, or writing them down. Putting into words the way I feel is a really great way to get some perspective. Whether that’s with friends at a bar, sitting on my roommate’s bed chatting until am, or writing in a journal (which I admit I have not done at a bar, sitting on my roommate’s bed watching YouTube videos between calculus practice problems). It helps to analyse the situation and see if maybe you’re being a bit too dramatic or over-thinking the situation. And it helps you to see a way out of it.

The feeling of being helplessly overwhelmed by the factors in life beyond control is something I have seen over and over again at this university, especially in the last few weeks. This is when exams start looming, I’ve been trying to make myself more level-headed for years now. Yoga, articles about staying detached from situations outside my control, quiet nights at home, a good book, a full cup of peppermint – none of it has helped so far.

And so, this is End Of Term, and what have we done? Well, it’s issue 5 of the Iron Warrior, so I say we’ve done quite a lot. I want to thank you to everyone who has helped me through this term. To everyone who has provided tech support or given up their weekend to help me out, I am so grateful and generally stay, to those who have provided much-needed moral support at the toughest patches, to my mum and sister who are usually a phone call away and always have a few welcome words along the lines of “stop taking everything so seriously”. From the bottom of my heart:

It’s been a long difficult term, and even though it is almost over it feels like it won’t ever stop. I’ve started to joke that this term has made me forget that weekends are because the week just keeps going and going until all of a sudden, it’s Monday again. But I know it’s not healthy, and I know that the way I do things is not the right way. Not now.

Trust me, I am surrounded by some very
time and see how it works out.

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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.

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Dr. Ivkovic Wins Teaching Excellence Award

The Engineering Society would like to extend their congratulations to Dr. Ivkovic, who was selected by the Teaching Excellence Award Committee as this term’s recipient of the Engineering Society Teaching Excellence Award. This award recognizes an instructor (professor, lecturer, or laboratory instructor) for their contributions to ensuring the academic success of their students. More specifically, the award recognizes an instructor who has employed non-conventional teaching techniques, allowed opportunities for experiential learning, and showed a commitment and dedication towards ensuring academic success for students.

Congratulations to receiving the Teaching Excellence Award Dr. Ivkovic, and thank you for everything you’ve done to help ensure the academic success of your students!

Dr. Ivkovic received a record number of nominations this term, many of which described his efforts to go above and beyond to ensure the success of his students. A frequently cited example is Design Dayz, an event co-created with Thomas Willett and supported by Sanjeev Bedi and the Engineering Ideas Clinic, that is designed to emphasize the importance of the knowledge his students will be gaining in their classes. Instead of holding lectures for the first two days of the term, students work in teams to design, prototype, and build a launcher in order to compete in accuracy and distance challenges. The fun and challenging experience gives students opportunities to demonstrate their ingenuity and learn what engineering is all about!

In addition to this opportunity, his nominations emphasized his approachability and dedication to student success. This care shines through in his teaching philosophy, which he describes as keeping the theory practical. This ensures that students have motivation to learn the material, as they can see the value in the content. Moreover, by providing a supportive environment and proving to the students that they can learn and apply the content through real-world examples, Dr. Ivkovic is able to push his students to succeed. By doing so, he is able to see a few of his favorite parts of being a lecturer come to life; seeing his students reach their own, unique potential and applying their knowledge in their careers (co-op or otherwise). For him, an important part of being a lecturer is recognizing individual student needs, and finding ways to ensure those learning needs are met so every student is able to reach their full potential.

One method he uses to help students individually is to ensure he is accessible through a variety of platforms. In the past, he has used Skype and Piazza to keep lines of communication open between him and students, and has recently started using Slack based on feedback from his classes. He also holds extra workshops to help students with important non-class related aspects of student life, such as the co-op process. Additionally, to keep classes interesting, he uses Kahoot quizzes and constantly updates his knowledge to ensure that it is current and can be shown to be applicable to the student’s lives. Through keeping classes interesting, Dr. Ivkovic is able to effectively inspire his students to academic success.

“Always Be Creative”

For students to continue to achieve success, Dr. Ivkovic encourages them to include a wall in E6, easy access to E6 elevators from the ground floor, and the beautiful behind of E5. This building will house the world’s only Engineering Ideas Clinic, setting a new benchmark for innovation across the globe. It will be a home to Biomedical and Mechatronics Engineering programs and provide additional space for research. With a scheduled opening in Spring 2018, Engineering 7 shows potential in terms of furthering engineering opportunities and making space for the growing incoming undergraduate populations.

As construction makes its way around campus it is a good idea to remain in the know and plan your routes to class beforehand to optimize time. Follow this list of tips while construction is underway. Remain calm: This optimization requires no prior knowledge of calculus. Watch your step: Construction has had no effect on the geese and there is still green goo on the ground. Safety first: First-year hard hats, albeit safe, do not give you access to construction sites. Don’t lose hope: These constructions across campus will bear wonderful fruit for all university students (graduating 2018 or later) to enjoy. If you do happen to be graduating before fall 2018, on behalf of everyone across campus, I apologize.
PyeongChang or Pyongyang? Many of us reading this won’t notice or acknowledge the difference in their pronunciation, much less the significance in their corresponding locations as a characteristic factor. PyeongChang is a county within the Gangwon province of South Korea; soon to be a 69-minute, 126 km train ride east from Seoul, the capital of South Korea. The county will be hosting the upcoming 2018 Winter Olympics, set to begin this February 9th to 25th with over 90 nations participating at the quadrennial multi-sport event. However, many individuals - including some pilots - have confused the county with their homonymous counterpart, Pyongyang, which is located just 295 km north across the border - in North Korea.

It is located on the way to the other side of the Korean Demilitarized Zone (DMZ), a border barrier that separates North and South Korea, but the similarity to their sounds and the accessibility of both areas in today’s mass media has attracted issues associated with their differentiation.

In the past, the PyeongChang county had rarely made its way to the public eye due to its small population (< 50,000) and inaccessible location. Not to mention that with a name correlative to that of the North Korean capital, it is not a surprise PyeongChang’s existence was neglected by the outside world. In fact, the mix-up is such a common occurrence that an infamous rumor had been spread throughout various newspaper articles that a well-known company capitalized the ‘c’ in their English spelling just to differentiate between it and the North Korean capital in preparation for their Olympic bid. This in fact not true, but some problems have occurred due to their resemblance, including a flight of 8 corporate sponsors from Belgium for the Olympics which landed the 8 businesswomen in Pyongyang, North Korea - 183 miles north of their desired destination. The pilot of the corporate flight had incorrectly inputted the flight plan into the aircraft’s navigation system, mistaking North Korea’s largest city as their stop instead of PyeongChang, South Korea which, as the Wall Street Journal reported in 2015, is a very common mishap.

You can imagine the fear of the passengers upon hearing they had accidentally landed in the highly-centralized North Korean city and faced armed guards with questions. Additionally, this is not the first time some tourists have made a mistake in the wrong place; in 2015 a Kenyan man named Daniel Olomae Ope Satip, 42, from Kenya’s Maasai tribe had inappropriately landed in Pyongyang, North Korea. He had planned to attend a UN biodiversity conference held in PyeongChang, but had mixed up the two cities and was forced to spend several hours in the North Korean capital and pay $500 in fines for the error. Hopefully, in light of the upcoming influx of visitors to the PyeongChang 2018 Olympic site, the tourists will remain mindful of the mixup and avoid it at all costs; and perhaps the South Korean government should look to minimizing the possibility for their visitors by any means necessary, such as through advertisements or partnerships with airlines.

Soon-to-be Olympic Ski Hills in PyeongChang

Ontario College Strike Comes to A Conclusion At Last

Students affected by the strike can apply for a $500 hardship aid due to the strike, or receive a complete refund if they decided to withdraw from class within two weeks. However, those who received the aid stated that it was not enough to compensate for the anxiety the students felt during the past 5 weeks. The decision to send the students back came from a bill passed on Sunday. With the passing of the bill, the teachers agreed to end the strike and have the students return to class. The six-page bill was first introduced on November 16 to resume the college operations. However, due to the NDP’s refusal to vote for the bill, extra sessions were held in the Legislature, until Sunday.

Horvath, leader of the NDP, did not think this was the best option to resolve the strike because, he stated, that this legislation won’t assist with the underlying issues that led to the strike in the first place. “I do not believe in back-to-work legislation,” stated Horvath. “New Democrats don’t believe in back-to-work legislation. It’s something we fundamentally think is a breach of peoples’ charter rights.”

On the other hand, the Advanced Education Minister Deb Matthews said that the NDPs were unnecessarily prolonging the strike, and preventing the students from returning to classes.

“I’m the Boss.”

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“I’m the Boss.”

Last month, Emmerson Mnangagwa was dismissed from his role of vice-president by Mugabe. This was one of the key factors behind the military coup. A related issue was Mugabe’s attempt to set up his wife as successor. Emmerson Mnangagwa was sacked for “disloyalty” and “traitor to the country,” and was forced to return a day after Mugabe stepped down.

During his inaugural speech in Zimbabwe’s packed National Sports Stadium, now-President Mnangagwa stressed that Mugabe’s attempted to set up his wife as successor. Emmerson Mnangagwa was sacked for “disloyalty” and “traitor to the country,” and was forced to return a day after Mugabe stepped down.

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Lost At Sea

Argentine Submarine Still Missing

On 15 November 2017, the Argentine submarine ARA San Juan sent its final transmission. It was heading back to its home port Mar del Plata from Ushuaia, where it took part in a naval exercise. On 17 November, it was announced that contact had been lost, and search and rescue operations have been launched.

The ARA San Juan is one of the Argentine navy’s 4 TR-1700 class diesel-electric patrol submarines. Entering service in 1985, it recently underwent a mid-life refurbishment between 2008 and 2013. The ship’s crew consists of 44 sailors, one of which is Argentina’s first female submarine officer, Eliana María Krawczyk.

When the initial search effort began, the Argentine Armed Forces set up an operations centre at the Mar del Plata naval base, and brought in mental health professionals to assist the families of the sailors. The destroyer Sarrandi and corvettes Rosales and Drummond were sent out to sea, supported by S-2E aircraft. The United States immediately dispatched a NASA P-3 Orion aircraft to aid in the search as well.

The Ministry of Defense reported on the 18th of November that there had been attempts at communication from a satellite phone. This was originally believed to be from the vessel, indicating an event that caused the ship to lose power. However, it has been determined that these calls were not from the vessel. Searches continued through to the 19th, at which point severe weather in the area made operations difficult.

As the submarine only could sustain 7-10 days worth of oxygen while travelling underwater, the Argentine Navy announced on the 20th of November that the “critical phase” of the rescue operation was approaching. Initial hopes that the the issue was simply a failure of communications system were lost at this point, as the submarine would’ve arrived at Mar del Plata on the 19th or the 20th.

On the 21st of November, leads were found by a U.S. Navy patrol plane, which claimed to have detected a metallic object at a depth of 70m, and the British patrol ship HMS Protector, which claimed to have seen 3 flares. Both leads were investigated and unfortunately proven false.

The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) contacted the Argentine Navy on the 23rd of November reporting a seismic anomaly. Listening posts on Ascension Island and the Crozet Islands recorded an event consistent with an explosion on the day the submarine lost communications.

While the Argentine Navy refuses to speculate on the fate of the submarine, distraught family members claim they have already received phone calls from Navy officials, with the news that the entire crew perished in an explosion between 180m and 900m below the surface.

At this point, the search continues, with over 27 ships and 30 aircraft from 13 countries, including the United States, the United Kingdom (with territory in the nearby Falklands), Brazil, Chile, and even Russia. All in all, as of the 24th of November, more than 4000 personnel are scouring 500,000 square kilometers of ocean in the South Atlantic.

continued from page 1

More questions were asked about their industry experiences, as well as their journey to get to their current positions. Dr. Carlini, Dr. Kramer, Mr. Sinai, and Dr. Ledgerwood were all graduates of UW! And they’ve all incorporated nanotechnology into their roles and research. Like Dr. Stewart, they encountered students to travel and take on opportunities, as we would be the ones who would change the world. It was really inspiring to hear this from a professional panel as a 2nd year NE student, as I felt my work could soon be making an impact on Canadian society, or even the world.

Lunch came after, along with a poster and networking session. I was able to speak with participants and researchers, and along with researchers presented their posters during this session and got to network with students. I was able to look off their technologies. SLIPS, Oplux, and Validere were some industry members just to name a few, and tons of research from UoT, UW, and other topics were showcased during the poster session.

Congratulations to Paul Chen for winning the $300 prize for best poster based on his research for gold nanoparticles! I got a lot of chances to meet with people, and collect business cards in order to network. These panelists were very open to speaking with students and like the others who already presented, offered great advice to all types of people; entrepreneurs, researchers, or combinations of both, so everyone gained something from their conversations.

The afternoon keynote was presented by Dr. Joanna Aizenberg, a professor at Harvard University. Some of you may recognize this name, as she has hired over 40 UW students over the last 6 years. Her research is inspired by nature’s ability to solve complex problems and self-assemble functional materials. She joined Bell Labs in 1996 and made pioneering contributions before joining Harvard in 2007. Her presentation showcased a lot of the research she has done, and even featured some of the work done by UW students. In fact, she said there’s “something about Waterloo students; something about having a deadline, and not worrying about homework,” that makes you great researchers. In fact, don’t tell them, but UW students are better than Harvard students! This was incredibly honourable to hear from someone whose research inspires so many, and the fact that she gives back to the UW community made her extremely likable by the audience.

After the keynote there were breakout sessions, split by research and industry. Unfortunately, I stayed for all the industry ones, so I was not able to get the full details on the research topics, but I was still able to gauge what research they did based on the pamphlet handouts provided at the conference. The first researcher presenting at the breakout session was Dr. Farnaz Niroui, Miller Postdoctoral Fellow at Harvard University, is a 2011 NE graduate with a Ph.D. from Stanford University. He currently works with the Wool ’19s group at Harvard University to develop materials and devices for biomimetics and electronics.

The industry breakout sessions were based primarily on entrepreneurs and smaller startups. Shakir Lakhani, Co-founder and CTO of Avro Life Sciences, is a 2020 NE student who has held several coop positions at small companies such as Validere and H2NanO, and has publications in journals such as Nature Materials. Currently he’s working on his own startup, an allergy patch to phase out obsolete methods of allergy testing. Matthew Mulvale, a 2015 NE graduate, joined Oplux Inc. as a research scientist, leading the development of one of Oplux’s photonic-nanocrystal based security features. He is working on putting this technology use to security on stuff like bank notes and passports. Finally, Perry Everett, Co-founder and CEO of Arylla Inc., is a 2014 NE graduate, where he created the company after his fourth-year design project.

Now, Arylla has won numerous awards and earned backing from world-class investors like Y Combinator and Zappos for their secure ink, which they put on luxury goods to prevent counterfeiting.

At the end of the day, closing remarks were given by Dr. Sushanta Mitra, Executive Director of WIN, commemorating everybody’s progress in nanotechnology and how we, as students, can change the future on the nano scale. Special thanks were also extended to many people, like Caroline Brookes, Jenn Coggan, Mayuran S., and plenty of others who helped organize the conference, including the wonderful volunteer team.

Overall the conference was my second time attending, and once again it was a great experience. It was a great way to make connections and see the cutting-edge technology of our generation. I highly encourage anyone who’s even remotely interested in nanotechnology to attend this conference, as you could be inspired to make the next big thing (or should I say, small).
KAI HUANG, 1st COMPUTER

Computers are such a crucial part of our daily lives. Everything that we need to do, whether it be school work or simply pursuing other interests on the side, almost certainly depends on the presence of a computer. It can provide the necessary performance offers a better experience, and can contribute positively to your success in all aspects of life.

Performance comes at a cost, and depending on what you’re doing, the cost can be quite significant. As University students, we have enough monetary concerns as it is, which is why getting the best performance out of your budget is tantamount.

What most students choose to purchase a high-performance laptop, I would argue that it is the least effective way for the money to be spent. Putting a portion of the money into a cheap laptop meant for working on the go and investing the rest in building a custom high-performance desktop is considerably smarter choice.

Purchasing a powerful laptop to carry around like a suitcase and plug into a wall is a feature meant to stimulate discussion on thought-provoking topics. The views and opinions expressed here do not necessarily reflect those of the authors, The Iron Warrior, or the Engineering Society.

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Purchasing a powerful laptop to carry around like a suitcase and plug into a wall is. You’d see the specifications and feel that it can handle all your tasks, and portable enough to carry around from class to class. This is what I too, thought, when I purchased my Lenovo Y580 years ago. The compromises that have to be made are often overlooked, but are in truth, incredibly significant.

Fundamentally, a laptop has its form factor as a major concern to performance. The cooling that is capable within a laptop’s chassis is severely limited, which means that the heat produced from the processor and the graphics card do not dissipate as well as they would in a desktop. As a result, laptop CPU’s and GPU’s at the same price point as desktops trade off performance for lower heat output and power drain.

While on that topic, a major trade-off with high-performance laptops is that they consume significant amounts of power. This means that the battery life that these laptops are capable of is usually within the order of 2-3 hours at best. Furthermore, trying to run the laptop off a battery for any extended period of time will be an inconvenience to move around. I doubt there is anyone that would be bothered by having to keep the power adapter with you if you plan to be out for more than 2 or 3 hours, or if you plan to do anything that actually makes use of the full performance.

Portability is also a concern in the form of size and weight. High-performance laptops are massive and heavy machines (until you get above around $2500, but at that point, you clearly don’t care about the price to performance ratio), and can weigh a 5.5 pound laptop to your classes every day and trying to fit it on the tiny desks that some lecture rooms have is a challenge.

Besides, what do you expect to be doing on your laptop when you’re head-
Not Justice League Review

GRUMPY 4TH YEAR
4A UNDECLARED

I made a conscious effort over the past 2 weeks to try and get out and see Justice League, the new DCEU movie that finally brings together the superfriends on the silver screen. I told Gabrielle, my editor, that I’d bring her a review of the movie, but the thing about 4th year though is that you don’t actually have time to do the things that you want to do. My Justice League plight is just the most recent turn in a series of unfortunate events that 4th year has caused. Instead of reviewing the hot new movie I’m going to review what I did instead of watching it.

By fourth year you’ve hopefully learned that asking TAs a question is typically more difficult than the question itself. There are some terrific TAs out there, readily available, personable, knowledgeable in the content, and familiar with the course’ marking scheme, but these seem to be few and far between. In my experience you either have to do a lot of running around to find your TA’s office, then wait for them to actually be there. After making physical contact comes the explanation of your problem, and the part that you don’t understand, which inevitably leads to them telling you a few things that you still don’t understand and then running away. I had to do this instead of watching Justice League.

4th year, especially in my program, is when the technical electives start rolling. Departments do a pretty good job of scheduling the TEs so that you can take any combination that you want, INSIDE the department. As soon as you start trying to take TEs from another department you’re going to have a conflicting lab time or tutorial slot. This isn’t even that big of a deal if you talk to the Professor though, they always understand, you just have to fill out a course override form. This isn’t bad except that it’s actually horrible. I filled out the form and got permission from the Professor whose class I was going to be missing, I was already enrolled in this class though so this was a mistake, one which according to my departmental secretary was nearly unforgivable. Do you really need to stress me out any more than I already am? I had to do this instead of watching Justice League.

And then you can’t forget about the five or six projects that you have in the next few weeks. I had 4 major deliverables, one for each 4th year course, due on 4 successive days last week. I didn’t do a whole lot of sleeping, and ended up being pretty grumpy. I had to do this instead of watching Justice League.

Oh yeah, 4th year is pretty dull. I’d give my time not watching Justice League 2/5 stars. Would much rather have watched Justice League.

Confessions of a Disillusioned First Year
Not What I Expected

On September 3rd and 4th, thousands of us frosh swarmed onto campus, eager to start a new chapter in our lives. We were overwhelmed by the new people, new friends, and new food, and excited to finally be adults doing adult(ish) things. But everything — our pride, our eagerness, our hopes — all came to a sudden, crashing halt when we received our WATCARDS.

Many of us had waited in line for hours, focused on getting our new, permanent “membership” to the University of Waterloo, our first piece of campus swag and a lasting legacy of our time here. However, instead of our happy, eager faces on the ID cards, in our fingers — still warm from the instant printing — a horror glare back at us. Twisted and perverted by the bad lighting and the awkward shadows, every imperfection our faces leapt to life in terrifying low resolution and sent fear into our hearts.

What had we done to deserve such a fate, to be cursed by such a torturous depiction of our identity? Had we displeased EDCOM? Was this a sick fresh orientation joke? Was it to reinforce displeased EDCOM? Was this a sick depiction of our identity? Had we been cursed by such a tortuous fate, to be cursed by such a torturous depiction of our identity? Had we displeased EDCOM? Was this a sick fresh orientation joke? Was it to reinforce the technical electives start rolling. Departments do a pretty good job of scheduling the TEs so that you can take any combination that you want, INSIDE the department. As soon as you start trying to take TEs from another department you’re going to have a conflicting lab time or tutorial slot. This isn’t even that big of a deal if you talk to the Professor though, they always understand, you just have to fill out a course override form. This isn’t bad except that it’s actually horrible. I filled out the form and got permission from the Professor whose class I was going to be missing, I was already enrolled in this class though so this was a mistake, one which according to my departmental secretary was nearly unforgivable. Do you really need to stress me out any more than I already am? I had to do this instead of watching Justice League.

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Dear Cheese Club,

You have taken too long to remove your cheese hat from the Tin Soldier office. We have now sold it on to BrieBay. All attempts to get it back are now Foudn-tile. Especially because with the money we made, the Tin Soldier staff have all taken a much-needed break to the Bahamas; it was unbelievably how much money we made. We’ve made so much Cheese off this sale, we can even afford to stay at the Stilton Hotel.

Honestly, if someone hadn’t bought the hat, we were just going to leave it out in the open to be taken by some Curls of Prey. Don’t let it Grat on you Cheese Club, don’t be Blue; it’s found a better home. We really Grilled the purchaser to make sure they had a good Feta planned for the hat. I hope your holidays are Gouda, and if not, you can always drown your sorrows in Morbier.

Sincerely,

T.S. EIC

The Editor Writes A Letter

Food Is Bizarre
Or Maybe It’s You

Being in university normalizes a bunch of stuff which may be considered outlandish in the outside world. One of those things, which I may or may not have experienced firsthand, is eating cold pizza. More specifically, falling asleep while eating it for dinner and waking up to a fairly pleasant breakfast in bed. Now, most of us may agree this is a reasonably weird breakfast choice, however, there are breakfast foods out there which are just bizarre.

In this beautiful world, filled with delicious eggs and (I have been told) better-than-most-things bacon, some people choose to eat diseased corn, sometimes referred to as “corn smut” for breakfast. This Mexican delicacy is called huitlacoche, and refers to a type of corn fungus. It is used as a filling in quesadillas and soups and is priced higher than normal corn. But to the defense of people who like eating this food, mushrooms are a thing a lot of us like.

If you are ever in Jamaica and want to start your day off with a healthy and delicious fruit which is brightly coloured and pleases the eye, consider eating an ackee. The fruit is packed with vitamins and nutrients and is known to increase bone strength and immunity. It is served with saltfish and must be eaten when it is ripe for more reasons than to just enhance the flavour. This is because this fruit is poisonous when unripe and causes sickness. Needless to say, do not go ackee picking on your own unless you know what you are doing.

Closer to home, some states in the USA, are producers and consumers of scrapple, a meat product made of pig scraps. People love a pig that would not usually be used as meat are boiled and minced, mixed with cornmeal and seasoned, and voila! Now you have meat, from previously inedible scraps of meat. But hey! At least you are reducing your carbon footprint (I hope).

Finally, a breakfast food that begged me to no end is a stick of butter, deep fried, on a stick. It is prepared exactly how it sounds, where a stick of butter is breaded and deep fried (in more fat) and sometimes put on a stick so that it is less cumbersome to transport. This food originated in Iowa, USA and has popped up at many fairs ever since. A version of this dish includes dipping frozen butter in cinnamon and honey flavoured batter and deep-frying it until brown. This food, albeit redundant in its use of butter and sticks and sticks of butter, also provides no benefits except for comfort and satisfaction.

Food is an experience and a form of art which needs to be cherished, says the girl who may or may not have eaten stale pizza for breakfast and found it delicious. My point is, if any of these foods appeal to you, go ahead and try them! I found them weird, maybe you don’t. What’s the worst that could happen? Other than illness, disease, or diabetes?
PCP stands for Point Corresponding Point, right?

DOES IT MATTER? WHO CARES

Wikipedia calls Centrism a “political outlook or specific position that involves acceptance or support of a balance of a degree of social equality and a degree of social hierarchy,” which is an alright definition. It’s true that the word “of” pops up a bit too often, but what other preposition would someone use? “Across”? “Minus”? “Underneath”? Your lightning fast collegiate mind might be skeptical of anything that comes from Wikipedia, but does the Encyclopedia Britannica include an article on every “Give Yourself Goosebumps”? That might sound excessive, but if you think about it they could go further if they wanted, by including diagrams of every possible path through those books. It doesn’t matter much either way.

So, is Centrism good or bad? It’s a bit of a mix, really. On the one hand it can come off as apathetic to those with strong political stances. On the other hand it is important to see the merit in... me, whatever, right? There are a lot of intelligent people, but obviously a lot of dumb people as well, so maybe hearing from everyone would not be so beneficial. It is a bit much to ask for society to be ruled by philosopher kings, but what about barons with philosophy minors? That would probably be alright.

There are some centrists who have a mix of right wing, left wing, bat wing, and dragon wing opinions. Like libertarians and George W. Bush, who are actually quite different, aren’t they? Maybe they aren’t centrists at all, you decide. The point is that they don’t fit neatly into the agenda of their political party, so maybe they aren’t the creamy part of the center. They’re just like that last thin layer of chocolate shell which doesn’t face the air but is in contact with that cream, you know?

They’re white chocolate. There are other centrists who don’t really see social... hierarchical file system? ... and that other thing as being important. There are other things to worry about like Xbox vs PlayStation, MathNews vs Iron Warrior, staplers vs paper clips, pinkies vs ring fingers and of course the modernistic: Coke vs Vanilla Coke. Do these people need to wake up, or are the mainstream-issue-following crowd just a bunch of sheep who can’t prioritize for themselves? And while we’re on the topic of sheep, is being a sheep-person such a bad thing? We could probably all use some extra wool during winter. Definitely better than being a merperson, but you’re probably not too concerned about the sheep vs merfolk debate. Maybe one day, you’ll see the light and realize that sheep vs merfolk is the 28-and-a-half most important issue of one of the decades.

Some centrists are just plain nihilistic, believing that nothing matters and the universe is a cold, uncaring, [TODO: insert adjective to subvert rule of 3? ambivalent about that tbh], meaningless void. Why even do anything if the effect is not important? Might as well just sit at home, eating endless packs of Ruffles™ Creme Sui Bacon™ and washing down all the figurative and literal salt with (Vanilla?) Coke. There were probably intellectuals or something who said a thing about all this, long ago in a galaxy pretty nearby.

Finally, some centrists just don’t like conflict. They want everyone to hold hands and sing kumbaya. Trouble is, kumbaya is too Christian for the atheists and also too sensitive for the Nazis. Also, demanding that everyone holds hands is abut people with no voice box ... wait I might have mixed that one up. Or not, hard to say. The point is... debatable. Alright, gotta go maybe, have an alley unspecific period of time.

Once a Chad School Always a Chad School

It was nice to be a Chad school while it lasted. The Waterloo Warriors started the season strong on Chad status; beating Windsor 54-33 just before the school year. We had just stepped up from being the ‘virgins’ and were making history the next week by taking down York in dominating fashion, 52-8. Then, against University of Toronto, we came out on top, once again proving that we’re better than them in all aspects, and always will be (this is definitely 100% true). Our last win of the season came against Carleton in a nail biter, and after that 45-43 win, we had achieved M E G A C H A D D status. Unfortunately, everything changed when we faced Laurier. It was a battle of the Chads (which totally sounds better than Battle of Waterloo). Chad University vs. Chad High School. Sadly, we were defeated 24-71, and demoted from full Chad status to 0.8 Chad status. Furthermore, we kept going down in rough matches, dropping to Guelph in a close 49-53 match, Queen’s 17-68, and Ottawa 30-40. Now we’re half virgins, half Chad, which I guess is better than what we were initially known for, and that’s one of the biggest improvements Waterloo has done in the last 10 years. We had a taste of victory, and it was delicious. Sweet, creamy victory.

I fully commend our football team for doing so well and giving Waterloo a better name in terms of sports. Now you may be asking, why is this in the Tin Soldier and not the regular part of the paper? Well that’s because it’s... kind of funny. We tried so hard, and got so far, and you know what? We still have things over Laurier. We have a better engineering program! Honest-ly, as long as we can still make fun of UoT, I think we’ll be fine.

Car Air Freshener Scent Reviews

Whether you’re covering up something foul or just really like that new car smell, there is probably an air freshener scent for you. These are just my five favourites and two I really hate.

4. Bayside breeze
   This scent comes from one of my favourite brands. It smells like apples and melons. Passengers don’t tend to appreciate the breeze part though. 2/7 stars

3. Leather
   I really like this scent because I don’t have leather seats and I really wanted them. If I hide the air freshener in the car and close my eyes while I’m driving I can almost imagine how much better life would be with sleek leather seats.

2. Creamy avocado
   I can’t buy real avocados because I want to afford a house one day, but this is a perfect substitute. It’s really long lasting and I eat my toast with this there it’s like eating real avocado toast. 3 broken hearts

1. Bayside breeze
   This is what I consider to be the best air freshener on the market. It is long lasting and has a really crisp scent that smells exactly like cat butt. It really covers up the smell of weed, but if you don’t like the smell of cat butt you may have to get a second air freshener to cover up the scent of cat butt. But that’s personal opinion. 10/10 stars would smell again

The two worst

Pina Colada
   I hung this up in my car and then immediately lost it. I was never able to find it. I smell lasted for over a year. Assaulting my nostrils with a blend of pineapple, coconut, and vanilla. I couldn’t take it any longer. I burned the
On the 23rd of November, in the year of our Lord 2017, I found that the familiar sights of the QNC, dear though they were to my heart, had grown stale to me; moved by a spirit of innovation and adventure, I felt compelled to press the limits of the known world, and venture forth with stout heart and girded loins, to lands where engineering students had hitherto never set foot.

At about noon of the same day, I set off from the stretch of Ring Road in front of STC. I was in quite good spirits at that time, for I believed, with the deductible folly of youth, that no barbaric sight could shake or terrify me, nor any heathen hand wound me - yet I could not resist the urge to glance behind with something like sadness, as the familiar hexagons of the QNC grew dimmer and dimmer, nor smother the fear that I would never again return to the bosom of my native land.

After walking along Ring Road for some time, I ventured forth into the thick of the jungle, finding myself soon after, in a sort of clearing framed by buildings on every side. The largest and most majestic of the buildings I identified as the Dana Porter Library; it tempted both my eye and heart sorely, for it was a dazzling glass complex of most excellent beauty, yet my pride would not allow me to be merely a second rate explorer of previously charted lands.

Turning from this, I examined a squat white building, a mere dwarf compared to it's stately neighbour. It had one trait of note; a metal statute of a wild pig, which, upon closer inspection, revealed itself to be a work of not inconsiderable craftsmanship and excellent anatomical correctness. I stood for some time, gazing at this specimen and contemplating correctness. I stood for some time, gaz-

In this diner, I had the opportunity to call, with some stupification, the lurid rumors oft whispered in the halls of the QNC. The word elective was so seldom divorced from it's prefix, technical, that I dared scarcely believe it was in the Merriam-Webster Dictionary; a CSE was a thing talked of with mingled horror and awe- to ponder the possibility that there were such peoples as might take electives as a matter of course?

It was with difficulty that I regained a measure of calm. Casting about, I saw a sign indicating the presence of a coffee-shop downstairs; I followed it and wandered about for a time, utterly lost, till I beheld a sign which said, in majestic lettering, M:\ Diner. It was accompanied by a Tim Hortons, and I must confess that familiar sight was a comfort and a balm to my soul, for I was, by now, much agitated.

In this diner, I had the opportunity to observe the inhabitants of these lands, and another unpleasant shock assayed my spirit, for though these creatures had the form of students, there was an air of difference about them, such as one might notice upon seeing a poorly made porcelain doll. They have a singularly odd habit, of quirking the corners of their lips upwards and occasionally barring their teeth; this is often accompanied by a deep ha-ha! sound coming chiefly from their belly. I did not stay to discover the cause of this behavior, but it seemed to me to be either a mating call or else the prelude to a fight.

Alas! How shall I tell next of the horrors which befell me? I pressed deep into the bowels of the jungle and, after meandering through a sterile white hallway for some time, I found myself in a magnificent, brightly lit clearing, with a high vaulted ceiling and a second floor overlooking it. This, I realized, was the famed Hagey Hall. The entire area was filled with the bustle of students; at the center of this bustle seemed to be a coffee shop in one corner.

Relief washed over me; a stiff sour tasting drink was precisely the sort of comfort that I needed to steady my spirit. Yet, as I approached, I noticed something distinctly peculiar; on a blackboard, where the prices were given, I saw the oddest combination of words- "Premium Healthy Loose Leaf Tea". The prices, too, alarmed me most miserably- four dollars for a green tea latte! Where were the eighty cent burnt beans that had thus far sustained me? Was I to venture too far? Was I no longer to resist the urge to glance behind with some stupefaction, the lurid figures of the QNC, dear though they were to my heart, had grown stale to me; moved by a spirit of innovation and adventure, I felt compelled to press the limits of the known world, and venture forth with stout heart and girded loins, to lands where engineering students had hitherto never set foot. It was with winged feet that I hastened back to my native lands and kissed the sleek whiteboard walls.

I am no moralist, for I have no morals- yet what fool could not derive a lesson from this story? I do not go so far as to renounce adventure forever, but I shall set my course for more sensible lands in the future. There are things that engineers were not meant to see, things that slumber in the deep that we must not awaken. Beware, oh friends, of the heathen hand wound me - yet I could not resist the urge to glance behind with something like sadness, as the familiar hexagons of the QNC grew dimmer and dimmer, nor smother the fear that I would never again return to the bosom of my native land.

At that moment, a faint golden light filled the room. Raising my head, I scanned the room and saw the faint figures of geese filling the room. It was a sight marvelous to behold and I fell to my knees in rapture, like Moses atop the mountain. Three majestic honks shook the room and the light vanished- yet a trail of sacred droppings marked the way to safety, if not quite so romantically as Ariadne's thread had. I cannot recount the relief I felt as I burst forth from P\S\L; my heart thrilled at the sight of the QNC and my very soul overflowed with joy and gratitude. It was with winged feet that I hastened back to my native lands and kissed the sleek whiteboard walls.

I am no moralist, for I have no morals- yet what fool could not derive a lesson from this story? I do not go so far as to renounce adventure forever, but I shall set my course for more sensible lands in the future. There are things that engineers were not meant to see, things that slumber in the deep that we must not awaken. Beware, oh friends, of the Arts Faculty!
Diner. Mel’s Diner is famous for its cheap breakfast and 50’s diner aesthetic, and it was heartbreakingly for the students to see their favourite places go down in flames. At least we have it today, but apparently the story gets weirder. Turns out, there were suspects for those who started the fire. Criminal convictions were made in November 2011 for the fire in April 2010, where two people were convicted for the fire with $4.5 million in damage. The convict only meant to burn down the nightclub, but it still resulted in the loss of many shops in the plaza.

Another campus-wide concern was the following year’s Orientation Week, and it was stated that there would be no Orientation Week shortening or Fall break for that year. It’s weird how far we came along since then, as we’re currently in our pilot for the short Fall Reading Break and shortened OWeek, which has quite concerned some of the students in our population. If you want to read more about this, feel free to read the TCP from issue 3 of fall 2017, which is on the Iron Warrior website.

Speaking of TCP, there is a TCP for and against procrastination. Procrastination brought up some good points about giving yourself a break, improving time management, and that everybody is doing it (don’t lie to yourself). Also, I would like to personally add that procrastination is good for incubating ideas, and allows for a lot of creativity to flow and think about topics. Just don’t do it too much otherwise you won’t be able to implement those ideas in the time between you starting the report and the deadline. The non-procrastination side brought up arguments like having time afterwards to do your stuff, actually learning the material, and doing well in the term. I agree with this too, because I tend to be the person who does their assignments fairly early. Another point mentioned is that it’ll improve your relationship (sex) life. I disagree because even though I do my homework early… well, you get the rest of it.

Finally, there was an article titled, “So you don’t have a co-op job… which might strike a chord with you 4-stream 1A students (primarily). Tips included: fix your resume, consider volunteerunteering, and don’t give up. Heads up: I took a volunteer research position for my first ever, and I was able to land a sweet coop job for my 2A coop. It gets better. Just work on your resume, hard skills, and soft skills too, and you’ll have a great time working. Even if you do end up volunteering like me, there’s great opportunity to learn a lot, so don’t see it as a bad thing.

That’s the end of the column for the term? Thanks everyone who read this. If you are a future writer of this column and you see this, I wish you the best of luck from the past!

Looking back at Iron Warrior’s history

Continued from page 1

Those working in the corporate world will continue to experience all this, a dedicated employee would tell you how fast their twenties seem to have flown by. It’s part of the daunting truth times speed up as you get older. Even more confusing is that although looking back at time it moves quickly, the moment by moment experiencing of time is completely different. During boring, monotonous work the office clock (or the lecture clock) will tick very slowly. In the long run, and another life where time still appears to go by quickly on them.

The apex of the hate for microtransactions in Battlefront II (2017) came when an official EA account responded to a reddit post from November 12, wherein someone who purchased the game at full price was venting about his inability to play as Darth Vader without paying additional microtransactions. EA responded in classic PR-speak to the post, saying that “The intent is to provide players with a sense of pride and accomplishment for unlocking different heroes”, a response has become the most downvoted reddit comment of all time, with nearly 700k downvotes at this time, simply because EA is claiming they expect consumers to play the game for unreasonable amounts of time to unlock content when they’re clearly trying to persuade consumers to pay for microtransactions. Number crunchers on reddit have found that unlocking Darth Vader would take upwards of 40 hours of constant gameplay, unless one were to pay hundreds of dollars of microtransactions. However, one can’t directly buy playable characters in Battlefront II (2017). The convoluted microtransaction system implemented in the game made it such that there’s no fixed price for any specific in-game playable character, so paying microtransactions is a gamble with real world money, which didn’t impress lawmakers around the world.

Continued on page 13

WIN CASH EVERY WEDNESDAY

Join our Le Shin Shwah Table Tennis and Football League. Register at www.leashinshwah.com
The Truth

I hope that's powdered sugar...

Although my house still hasn't taken down its Halloween decorations yet and I'm still eating the pumpkin seeds I made when we carved the jack-o-lantern, today we'll be making a holiday cookie that I promise you will want to spend more time making in the future. Heck, you can even give these away to friends and family.

This year for my entries into the potluck gift this year when you've procrastinated on buying presents again, and you'll save way more money! And if you don't like these cookies you can stuff it, this is my grandmother’s recipe, so you can GTFO and disrespect someone else’s gran, thanks.

Vanilla Kipferln are a traditional Austrian Christmas cookie made with love, butter and some nuts (I hope you're not allergic or vegan). I started out by requesting the recipe from my mother who had to take a dusty book off a shelf and snap a photo for me. Since I am a fantastic person, I

Step 1: Cut the butter into the white flour until you have a mixture similar to breadcrumbs. Do not start this process with warm butter because you will end up with a warm mess and a weird not-crumb-like consistency. I like to use knives to cut the butter into the flour at first and when the pieces are small enough use my hands to rub the butter into smaller and smaller pieces in the floor.

Step 2: Separate the yolk from the white. Crack the egg over a small bowl or plate and move the yolk back and forth between shell halves until there is just the one yolk left. If you crack the yolk this process will not be possible so be careful. Make your self an egg-white omlette with the leftover white and/or broken yolks from when you messed up.

Step 3: Mix all dry ingredients in with the butter-flour combo then knead in the yolk and vanilla into a dough. Try not to over-work the dough. It needs a break too man!

Step 4: Split the dough into four parts and roll into inch-thick sausages. Wrap in saran and put them in the fridge for about 30 min. While the dough cools off, take some time to chill.

Step 5: Remove the first dough roll from the fridge and chop into “dollars” about 1 cm thick. Before you're covered in butter, preheat the oven to 375°F and take out two cookie sheets.

Step 6: Bake the cookies for 10-12 minutes until the tips of the crescents are a bit golden, be careful, you don’t want the butter to start burning!

Step 8: Remove from the oven and immediately after transferring to a plate to cool, sprinkle them with icing sugar. When the cookies are cool to the touch, put in a container and sprinkle with more icing sugar. CONSUME COOKIES, or share with friends, your choice! Happy holidays!

The Truth

Welcome to another edition of “What are you cooking?” “Just some procrastination.” Holiday Edition. Ah yes, it’s time to over-saturate your life with pressure to feel Jolly and Happy and Merry and all sorts of other B.S. while forcing you to spend way too much money convincing the people around you that you truly care for them, just open the present, goddammit!

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So last issue I ran into a bit of a podcast name collision. Good thing the subject of this article has a more distinctive name: “The Truth.” Just in case there is a lack of narration and use of sound effects, as though the listener was at the scene with their eyes closed. There’s no background music, unless the music serves the plot somehow. These stories are repeated, so even the smallest detail is important. Considering that, and the gravitas which transports them into their songs.

The team behind The Truth collaborated with Jonathan Mann to make a fantasy series called Songonauts. It’s about an indie band “which is going no-no-no-where” who encounter a magical drum machine which transports them into their songs. This used to be included in The Truth’s podcast feed. It was eventually split off into its own entity, probably because it breaks many of the trends of The Truth.

Firstly while The Truth’s episodes are unrelated to each other, Songonauts is a series. Secondly, Songonauts is much more innocent. In fact, Songonauts has been pretty much child appropriate so far. Spoiler alert: no Songonauts has yet been shot or ripped limb from limb by a mutant. The humor is light, very often poking fun at the music industry.

The premise of Songonauts is explained in every episode, and the characters are constant. If you can keep track of the mythology of the Songoverse, the only potential problem with listening at high speed are the songs. Every other episode has an original, plot-essential song. Are you not noticing a theme with Songonauts? It is in many ways the perfect story for a pure audio medium. Some of the production aspects of The Truth were preserved: the lack of narration and use of sound effects, to name two.

The Truth is currently being updated every week, but eventually this season of the podcast will end and there will be months of no updates. That’s the state Songonauts is in: there hasn’t been a new episode in months. Episodes of both range from 10 to 30 minutes.

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Battlefront II (2017) a “Star Wars news conference in which he called of Hawaii Chris Lee from holding a that didn’t stop state representative one day before the game launch, but big in K-W, with the exception of Kitchener-Waterloo, it doesn’t seem from all over the world. Eby Farmstead animals like any of the Eby Farmstead is a great place for the public to learn about exotic animals and their natural habitats. If you have even more time and feel like taking a trip to Toronto, the Toronto Zoo is even more impressive, with pandas, giraffes, tigers, guins, and all sorts of other animals and feel like taking a trip to Toronto, the Toronto Zoo is even more impressive, with pandas, giraffes, tigers, guins, and all sorts of other animals from all over the world. Fortunately for the good people of Kitchener-Waterloo, it doesn’t seem like any of the Eby Farmstead animals have ever escaped their enclosures. Animal adventures just don’t seem to be big in K-W, with the exception of that deer that jumped through a Tim Hortons window on Victoria Street last year. Other cities, on the other hand, have their fair share of escaped animal stories – here are a couple of them. Road Trippin’ in BC A macaw in Vancouver decided to go on a short-lived road trip back in 2009. Chuva the macaw, despite having her wings clipped, managed to escape the zoo, waddle over to the parking lot, and hitch a ride on an RV. She was found three days later, about 20 miles away, hanging out near the RV’s engine. Finding Love in Texas An African flamingo from the Sedgwick County Zoo in Kansas, known as No. 492, escaped in 2005. Over the years, 492 was spotted all over the States, in places such as Wisconsin, Louisiana, and eventually Texas. When spotted in 2013, 492 appeared to have found a mate in Texas and was loving life. The Best Escape Artist Since Houdini… is an Orangutan? Some animals are more persistent at their escape attempts than others. Ken Allen, an orangutan from the San Diego Zoo, attained fame in the 1980’s by successfully escaping from his enclosure five times. Though a “Free Ken Allen” campaign was started, the zoo instead capitalized on the orangutan’s fame by selling plenty of Ken Allen merchandise. Bonnie and Clyde, Two Toronto Fugitives on the Run You’ve probably heard of the famous duo Bonnie and Clyde, whether it be the Depression-era gangsters, or the pair of capybaras that escaped from the High Park Zoo in Toronto last year. One of the capybaras was on the run for two weeks, whereas the other managed to escape zoo authorities for more than a month before being caught. Earlier this year in May, Bonnie and Clyde added three new “capybabies” to their family. The Palihapitiya/Lau Venture Creation Fund provides two $50,000 awards to university selected Capstone Design teams with the intention to transform their project into a promising startup post-graduation. Take your project to the next level by focusing on it over a 4-month period after the completion of your 4B Term. Teams will receive mentorship, training and advice from industry mentors.
Hello friends, last issue I talked about some of the things that I failed with. As my term draws to a close, I entrust the return of 19+ licensing in POETS. I will look back at the growth POETS has seen, and am excited to see where it will go. We now have in place a two-year POETS furniture funding and purchasing plan, a strengthening of the trust between us, the Dean’s Office, and Bar Services, and new photos and memories on the walls. Sponsorship, both the giving and the receiving, is a key part of the VPOF portfolio. I am excited by the interest in projects from our student teams, and I’m even more excited by the money I was able to raise for both the E7 C&D and POETS. (at the time of writing the total is unconfirmed, but exceeds $10,000). My NovelTEAM and Ridgidware Directors continue to impress me daily, with key shoutouts to Henry Bultingham and Kres Souza who continually impress me with their dedication, ideas, and reliability. My goals for the Novelties and Ridgidware were all met; including reliable hours, (within reason for students, we all have interviews and exams) and an improvement in stock quality and quantity. Neither of those things would have been achieved if it was just me, and I owe the success in these areas to my teams. I admit that I was not entirely successful. Our EngSoc EOT at Bomber was scrapped when I realized how expensive renting Bomber is. Additionally, I have almost entirely neglected the Student Deeds Program. I also have yet to fully complete the Novelties display case, despite securing the funding, the location, drawing up the design plans and moving all the trophies to their new home in POETS. As my term draws to a close, I entrust the relationship to our students, Lian Yeates and Michael Beauchemin, who are both capable and reliable people. While previously I have voiced my concerns about the society, I found it to be a great experience seeing the two societies united with common goals after many years of the opposite being true.

Sixteen months is a long time to dedicate yourself to something. I’ve never signed a rental agreement for longer than four months. #JustWaterlooThings. You learn a lot about people you spend that much time with. While I have not had the opportunity to share a roof with my executive team, I learned a lot about them, and myself.

I’m fairly proud of my time as B-Soc’s first and last Vice President, Operations and Finance. I had the opportunity to work with many amazing directors. We saw the rise of the Blue Rectangle, and the society for the better. I’m really proud of our partnership with MATES. In August of 2016, I started meeting with the coordinators of MATES and the professionals overseeing the program about my proposal for a Faculty partnership. Many of the resources available to undergraduate students through FEDS don’t seem reach engineering, unfortunately, at the time, MATES was part of this group. After several meetings, and hiring two phenomenal directors (Sarah Martin and Hannah Gauvreau), MATES in Engineering was on its way to becoming a valuable resource housed in Engineering buildings. It’s been exciting seeing this initiative transfer to A-Society, and I’m grateful that so many people are supportive of the program and its growth among engineering undergraduates and the Faculty.

Long term planning in a Society that transits so frequently is difficult. For this reason, I’m glad that a Long Term Strategic Plan passed this term. I hope that the document can provide guidance even when the current executives have graduated. Additionally, I’m satisfied that a new website design has been created. I hope to see this initiative completed on time, I’m confident that A-Society will be able to see the initiative through.

Finally, I’m proud that B-Society has been able to partner with A-Society on so many different initiatives. It has been a great experience seeing the two societies united with common goals after many years of the opposite being true.
Hey everybody, I hope you’re doing well, and ready to tackle exams! For me, it’s about time to sign off as VP Communication and hand the reins over to Grant Mitchell. It’s been an exciting 8 months on term, and a learning experience to watch Melissa handle the term! The mural is 8 months of our joint executive term.

Over the past 16 months we’ve introduced a delegate selection committee for transparent selection of delegates for conferences, sent out a communications survey to determine how students prefer to receive their information, created communication guidelines, launched our conference website, and had branding guidelines and complete transition documents being finished up. In addition to that, a revamp plan for the EngSoc website has been created, and will be implemented in the coming months. I’ve had the incredible opportunity to assist with and complete these projects myself.

I’m really looking forward to the implementation of the new website in the coming months. The current website works! We also want to know you see the website inside and out. Even I have troubles finding what I want on the website. But the new website will make commonly searched for items easier to find, and will include a ‘Get involved!’ page. This page will be dedicated to people who are looking for ways to get started within the Engineering Society. The website will also actually work on mobile, so people can click on things without taking out their laptop or finding a computer lab.

I’m also looking forward to having transition documents to be able to give to directors. Directors help us, so I want to help them in return. Many directors do not get a proper transition document and are left trying to figure things out themselves, or asking the Advertising Commissioner or VP Communications about everything that comes up. My goal is to amalgamate all this information into one document so that the directors under VP Communications know what is expected of them, and what they can expect from our team, the advertising commissioner, and the VP Communications.

It’s been a ride fam. 16 months later, it’s finally time for me to say goodbye.

When I started out as your VP Academic, I could count the number of people I knew on council in one hand. I didn’t know anything about policy, and I didn’t even own a pair of coveralls. 16 months later, I still no nothing about policy (LMAO), but I now have a pair of coveralls with quite a few patches on them. More importantly, I’m proud to say I’ve made many lasting friendships during my short time in office, and I can confidently say, I don’t regret my decision to run.

It’s been a lot of strenuous work being our VP Academic, but it’s been a very rewarding experience.

As I stated last week, I’m going to miss being our VP Academic. 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.

With that said, I just wanna say:

- Somebody has motioned that I should drop my mixtape
- The hottest mixtape there ever was
- So I’m picking up the mic and adrenaline is spiked
- As I try to live up to the buzz
- Well, I’m hashtag winning and my record’s spinning
- Look to the crowd and the crowd’s not thinning
- Didn’t make tunes just to go show off
- Well too late now cuz this mixtape’s dropped
- So much to do, so much to click
- Just to be VP Academic.
- You’ll never learn if you’re too chilled
- We’re letting the temperature build
- Hey now, I’m a fly guy, spittin’ rhymes now, okay
- Hey now, got my mixtape, put it on now, press play
- Engsoc’s feeling so cold
- Heating up the place since I enrolled
- [Instrumental]
- Hey now, I’m a fly guy, spittin’ rhymes now, okay
- Hey now, got my mixtape, put it on now, press play
- Engsoc’s feeling so cold
- Heating up the place since I enrolled
- Somebody once asked me if I could lend a class
- I need to mix myself some beats for a tape
- I said yeah, happy to help, education’s where I excel
- Til you all learn to fan your flames

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Thank you to my Ghostwriter Katie Chin for writing the lyrics to my Winter 2017 mixtape <3

The last year has been a whirlwind of change in Denmark, to conferences on both coasts (Congress is over), and getting work done for the society. I’m sad to see my term of VP Comm come to an end, but I know Grant will be a great successor. I can’t wait to see the cool new initiatives the new exec team implements. Hope to see you around!

BOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
The Iron Crossword

On Safari

CAMERON SOLTYS
4N MECHANICAL

ACROSS

DOWN

Sudoku

#2017-15

GABRIELLE KLEMT
2B GEOLOGICAL

Sudoku can be found on The Iron Warrior’s website at twarrior.uwaterloo.ca/distractions.

“How are you spending your holidays?”

“Sleeping.”
Faduma Ahmed, 1A Computer

“How are you spending your holidays?”

“I am ___ in the US.”
Amalika, 1A Computer

“How are you spending your holidays?”

“California!”
Runuja Desai, 2B Chemical

“How are you spending your holidays?”

“Visiting my sister in the US.”
Anushka, 1A Computer

“How are you spending your holidays?”

“Going back to India.”
Sneh, 1A Computer

“How are you spending your holidays?”

“ Hanging out with friends in Hamilton and watching The Wedding Party 2.”
Uredo Ocheje, 2B Chemical