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BIG Ideas on a SMALL Scale Waterloo Nanotechnology Conference



HASAN AHMED
2A NANOTECHNOLOGY

On November 18th, 2017 the University of Waterloo hosted the 3rd annual Waterloo Nanotechnology Conference (WNC, formerly known as WUNC). Hundreds of people across academia, 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



Timothy Wong

Dr. Duncan Stewart Addresses the Audience at the 2017 WNC

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 Teledyne DALSA, and Dr. ArminFischer, COO of QD Solar. The panel was chaired by Dr. Illan Kramer, Director for Corporate, Government, and International Partnerships at UofT.

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Going Abroad Without Instagram Slow Down You Crazy Child



JOSH LI
3A MECHANICAL

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 exploration, 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 adventure calls, embarking on this exchange 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 sitting in a cubicle and passing papers, one day is bound to blend unmemorable into the next - and disappear. That’s why it’s so important to change routines 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 perceiving time after something happens. Remember the early days of your childhood, when the end of summer actually felt like two months? As children each day brings new memories, something to remember it by. As we grow up this slowly stops being the case. High

school went by a lot faster than elementary; 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).

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Strike Out!

5 Weeks Later College Students Return to Class



STONE HE
1A MECHANICAL

On Tuesday November 21, Ontario college students returned to their classrooms after nearly 5 weeks of college strike.

Currently, students now have an extended semester. This semester may go up until December 22, with some pro-

grams 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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Letter from the Editor

So Long And Thanks For All The Fish



GABRIELLE KLEMT
EDITOR-IN-CHIEF

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 just want to begin by saying 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 edit, layout and generally stay sane, to those who have provided much-needed moral support at the rougher 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, thank you all.

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 what 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. Trust me, I am surrounded by some very grounded people and in situations that make me lose my hair, they are constantly calm. How do they do it? Honestly, I don't know, 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 with a mug 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 1am, or writing in a journal (which I admit I have not done at all this term due to "lack of time"). It helps to analyse the situation and see if maybe you're being a bit too dramatic or overthinking 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 their hideous shadows over our restless sleeps and five hundred projects are due all at once. It feels like life moves from 20 to 100 in the space of a few days and suddenly you're drowning. Group projects fall to pieces and you're left putting them together at 2 AM like it's some kind of jigsaw puzzle from hell.

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

Taking on the entire group project, especially 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; it's your name on the front page of the report too, but getting a crappy group is not your fault. Profs may seem unwilling to see your distress, but if it is causing multiple late nights, and trips 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 to a MATE or heck, ask me and I'll come with you! Send iwarrior@uwaterloo.ca a quick email and I'll try to get back to you pronto if you want to talk. You have so many options that taking the entire project on your own back should not even be considered. However, if this is the route you absolutely feel 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 felt the 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 productivity and makes me 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 a 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 whirlwind 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 that I do schedule in mean a lot more. I spend a few hours at an art gallery and get more out of it than I 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 impotence (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 us" to "free up more time". I've started wondering if maybe some of our improvements haven't been detrimental after all. I met 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 harmful salt or even a need to plough. Life just slows down in the winter, which when you think about it isn't 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 intelligent beings "Thanks for all the fish".

THE IRON WARRIOR

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Assistant Editor

Hasan Ahmed

Layout Editors

Donovan Maudsley
Gabrielle Klemt
Bryan Mailloux

Copy Editors

Donovan Maudsley
Hasan Ahmed
Bryan Mailloux
Dalton Sweeney

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Stone He

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Mail should be addressed to *The Iron Warrior*, Engineering Society, E2 2347, University of Waterloo, Waterloo, Ontario, N2L 3G1. Our phone number is (519) 888-4567 x32693. E-mail can be sent to iwarrior@uwaterloo.ca

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Dr. Ivkovic Wins Teaching Excellence Award



HEATHER COWAN
2A MECHANICAL

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 on 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



Victoria Barry

Dr. Ivkovic, F17 Award Winner

"Always Be Creative" in every aspect of their lives, be it problem solving, how they present themselves, and in finding efficient solutions. Through his application-based teaching, he is obviously able to inspire many students and The Engineering Society thanks him for encouraging success and approachability within his classes!

Construing Construction

Navigate Your Way Through The Mess



SAMRIDHI SHARMA
2B CHEMICAL

With winter hiding behind the cloak of fall and construction on campus nowhere near its end, Polar Express is fast approaching the construction coach already parked at the Student Life Centre, awaiting a massive collision. Doors have been barred and 'student life' reduced to a minimum in preparation.

Foreshadowing the rendezvous, is the first-floor hallway of Engineering 2, which itself looks like a railway platform in the making – trains from the University of Waterloo start in fall 2015... or 2016... or, never mind. Not far behind is Engineering 7, the new building being produced between Engineering 5 and Engineering 6.

The SLC/PAC expansion promises additional bookable space as well as recreational place at a small cost of \$18 per term per student once the construction is complete. Come 2018, the student body may also be able to enjoy indoor access to the food-hub on campus through a link from MC to SLC, a boon on cold Wednesday winter

nights. Moreover, all businesses seem to have domesticated this dusty hound and accepted it as part of the family. Behind boarded windows and "emergency exit only"s, one may still be able to enjoy the foods and services of their choice. One may let no hurdle (literally) come in the way, step over the ones that do, and factor in an extra five minutes to find an accessible entryway into SLC

for lunch.

Before work on the expansion of SLC even began, the University of Waterloo witnessed the early stages of what today looks like Engineering 5.5, officially called Engineering 7. Chemical engineering students have been heard calling it their "bridge across Ring Road". Although the building looks like it is nearing completion, casualties

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.



Associate Provost via University of Waterloo

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Are the 2018 Olympics in North Korea?

JUDY ZHONG
1A SYSTEMS DESIGN

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 characterizing 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.



Republic of Korea via Flickr

Soon-to-be Olympic Ski Hills in PyeongChang

It is located all the way on the other side of the Korean Demilitarized Zone (DMZ), a border barrier that separates North and South Korea, but the similarity in their sounds and the rising popularity 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 the county had had to purposely capitalize the 'c' in their English spelling just to differentiate between it and the North Korean capital in preparation for their Olympic bid. This is in fact not true, but some problems have occurred due to their resemblance, including a flight of 8 corporate sponsors from Beijing for the Olympics which landed the 8 businessmen in Pyongyang, North Korea - 183 miles north of their desired destination. The pilot of the corporate jet 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 misinterpretation.

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 someone's ignorance has landed them in the wrong place; in 2015 a Kenyan man named Daniel Olomae Ole Sapit, 42, from Kenya's Maasai tribe had incorrectly booked a flight to 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 for the Winter 2018 Olympics in PyeongChang, 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.

Ontario College Strike Comes to A Conclusion At Last

Continued from page 1

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 that was past 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 problem, as she insisted 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 going back to the classroom.

"It's very distressing to see the NDP be so disrespectful of students that they won't even pass the legislation, that they're... blocking the return to classes," stated Matthews. He has also responded to Horvath's anti-back-to-work legislation, saying that the strike could go on forever.

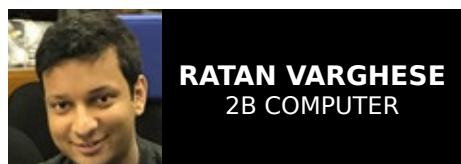
The strike started on October 16 due to the unfair treatment of part-time staff members in Ontario college campuses. In total, 12,000 professors, instructors, counsellors, and librarians went on strike to protest for raising the full-time staff mem-

ber count to 50%, as well as improved wages. The number of part-time teachers grew by 40%, while full time position openings went up by only 20%.

However, the strike has ended, and students are back in class. The problem with the growing number of part-time staff, low full-time openings, and the remaining problems that started the strike, remains unresolved. The union for Ontario's college instructors will challenge the back-to-work legislation to bring more rights to part-time teachers.

College Strikes, finger pointing, unresolved issues - talk about an extended reading week!

President Crocodile



RATAN VARGHESE
2B COMPUTER

On Tuesday November 21, Robert Mugabe stepped down as President of Zimbabwe after a military coup placed him under house arrest and tens of thousands of civilians protested against him. Of his 93 years of life, dozens were spent as authoritarian dictator of Zimbabwe after the overthrow of the white-minority Rhodesian government. He stepped down ostensibly to ensure a peaceful, smooth power transition. That transition is progressing fast: on Friday November 25 the new President, Emmerson Mnangagwa, gave his inauguration speech.

During the Rhodesian era, a teenage Mnangagwa received military training in China and Egypt and fought the white-minority government. Mnangagwa and his gang attempted to blow up a train and was arrested. He was arrested in 1965 and sentenced to death by hanging, but since he was a juvenile his sentence was commuted to ten years in prison. He met Mugabe in prison, beginning a political career that would lead to him becoming Mugabe's right hand man and Security Minister of Zimbabwe. During his long career in the ruling elite, Mnangagwa

was nicknamed "the Crocodile" for his ruthlessness and cunning. Keeping with the theme, his gang was nicknamed "Team Lacoste".

In 1983, Emmerson Mnangagwa's forces were sent to the Matabeleland provinces in Zimbabwe, where there was widespread support for Mugabe's rival Joshua Nkomo. The North-Korean trained 5th brigade killed 20,000 civilians. This incident is well-documented but nobody has been held accountable for it: Mnangagwa himself has blamed the military and absolved himself of any responsibility for the massacre.

Emmerson Mnangagwa's role as the link between the ruling party, the intelligence agency and the military continued long after that. He had been accused of masterminding attacks on opposition leaders around the 2008 election and exploiting mineral resources, such as diamonds, from the Congo for massive profit.

Mugabe and his loyalists recently started to see Mnangagwa as a threat, a right-hand man whose ambition was getting the better of him. He was clearly the military's favored choice for succeeding Robert Mugabe. Some of the concern was a bit petty though: Mnangagwa was even criticized for drinking coffee from a mug which read "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 fled the country, only to return a day after Mugabe stepped down.

During his inauguration speech in Zimbabwe's packed National Sports Stadium, now-President Mnangagwa stressed his admiration for Mugabe, calling his predecessor "a father, mentor, comrade-in-arms and my leader". Notably, the mentor did not attend his student's maiden speech, apparently because of his age. Zimbabwean media claims that Mnangagwa granted the Mugabe family "maximum security and welfare."

Mnangagwa said that Zimbabwe was "ready and willing for a steady re-engagement with all the nations of the world", and that "acts of corruption must stop". He also promised that after decades of military rule, elections would be held in 2018., and mentioned some of the other key issues facing Zimbabwe.

Mugabe's regime attempted to take land from large, white-owned commercial farms, ostensibly to give the land to poor black citizens. However the redistribution process heavily favored the ruling elite, and there was massive

levels of violence during the whole affair. Mnangagwa claimed that white farmers would not be getting any seized land back, but would be compensated. He called himself a "president of all citizens, regardless of colour, creed, religion, tribe, totem or political affiliation."

The Zimbabwean government also caused massive inflation in the 1990s and early 2000s by printing money. Zimbabwe ended up abandoning its own currency as this debacle progressed. The country has not recovered from the resulting economic crisis: to this day the unemployment rate is estimated to be as high as 90%. Mnangagwa claimed that to reduce unemployment and transform the country, more foreign investment was required.

Naturally, Opposition MDC party leader Morgan Tsvangirai is skeptical of Mnangagwa's claims. In an interview with the BBC, he called the current regime change a "power retention agenda" and stressed that neither culture nor practice can stand for perpetuating Mugabe as Mnangagwa seemed to be doing. Tsvangirai pointed out that attracting international investment takes more than words: Mnangagwa would have to build a truly inclusive society, an "irreversible democratic country" with respect for rule of law. Moving the political culture away from violence and corruption is "not an easy walk in the park."

Lost At Sea

Argentine Submarine Still Missing



KAI HUANG
1A COMPUTER

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 had commenced.

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 Sarandi 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 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



Casa Rosada via Wikimedia Commons

Former Argentine President Christina Fernandez with the lost submarine in 2011

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.

Nanotechnology Conference

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 encouraged 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 breakout session. Industry workers along with researchers presented their posters during this session and got to network with students and show off their technologies. SLIPS, Opalux, and Validere were some industry members just to name a few, and tons of research from UofT, 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 coops 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 1998 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 UC Berkley. Dr. Niroui is a NE 2011 graduate, and completed her Ph.D. at MIT in 2017, and will be returning there as an Assistant Professor in Electrical Engineering in 2018. Her research lies at the interface of device physics, nanofabrication, and materials science to engineer unique nanoscale devices. The next researcher was another NE grad, from 2014, Madelaine Liddy, a Ph.D. student at the Institute for Quantum

Computing. She works with David Cory's group focusing on developing diamond-based quantum sensors. Finally, Dr. Alex Chortos, a Postdoctoral Fellow at Harvard University, is a 2011 NE graduate with a Ph.D. from Stanford University. He currently works with the Wyss Institute of 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 Opalux Inc. as a research scientist, leading the development of one of Opalux'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 counterfeit.

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 10/10 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).

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Point Vs. Counterpoint

POINT

KAI HUANG
1A 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 them. A good computer that can provide the necessary performance offers a better experience, and can contribute positively to your success in all areas.

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.

While 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 a considerably smarter choice.

Purchasing a powerful laptop to carry around seems like the reasonable option to most people. 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 constraint on 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 desktop ones 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 of battery life means that the components will be throttled even further. In essence, the portability of the laptop is hampered significantly by the fact that you have 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 be doing 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 anyway). Carrying around 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, to be sure.

Besides, what do you expect to be doing on your laptop when you're head-

It's Better to Use a Laptop and a Desktop For Gaming.

RYAN SAMLALSINGH
2T COMPUTER

ing to classes, anyway? Taking notes, perhaps, maybe doing some assignments? Reading up on your textbooks? Browsing the internet? Shitposting on Reddit? For the basics, thin and light laptops can be bought at extremely low prices. For example, Chromebooks start around \$200. Their battery life easily lasts a day, they're thin, they're light, and they can do all the basics. Refurbished Thinkpads start at around \$300. They're practically indestructible, they're somewhat light, and their batteries are even stronger.

Say you're given a budget of about \$1000 to work with. This means you can have around \$700-800 to spend on a desktop. A custom desktop at that price point can get you something powerful enough to play most triple-A games at full settings, not skip a beat

What does your average week as a UW engineering student look like? Of course, there's a boatload of class-hours and coursework, plenty of time spent hunting for co-op positions, and any number of additional time stresses or considerations you elect to impose on yourself. Why should any of us want any extra, unnecessary complications to our life? That's what using both an okay laptop and a good desktop accomplishes for your personal computing needs, and that's why the optimal computing solution is to have a reliable laptop. Good laptop, easy life.

Being a UW engineering student with a mediocre laptop and a good desktop is a logistical hassle. Moving every



Pablo Bigatti via flickr

The dual setup has a lot of benefits for travelling students.

when working with heavy 3D-design workflows, and render videos quickly and with ease. You could easily afford a Ryzen 5 processor and a GTX1050 at that price point, not to mention an SSD. Furthermore, the desktop is more customizable, with parts that can be swapped out individually and upgraded when the need arises.

Some may argue that the desktop is an inconvenience to move around. I disagree. You're moving it around once every four months. It can be simply left in one piece and thrown in the trunk of a car, under the best circumstances. If worst comes to worst and you need to fly, disassembling the parts and packaging them separately doesn't take long, and it can be shipped with ease.

From a price to performance standpoint, buying a high-performance laptop is incredibly wasteful. Too many compromises have to be made, within cost, performance, and portability. A laptop and a desktop combination is incredibly versatile, and considerably more effective for nearly every conceivable situation.

four months makes it hard to guarantee that one has enough space in any living quarter to comfortably accommodate a desktop and essential peripherals such as the monitor, keyboard, mouse, and speakers. What would happen if the only apartment you could take for a co-op job has no room for your desktop setup? Ideally, you'd keep your desktop setup with a family member or friend, but since it's not in your living space, it's of no use for the next four months. Even if there were space for it wherever you find work, moving even small desktop PCs are a pain, and you might risk having a weak or clumsy handler accidentally smash the desktop you've put money and effort into maintaining if you're traveling via aircraft. Even if your laptop weighs ten pounds, it's far easier logistically to have one laptop as it's will certainly be easier to transport and store no matter where you end up living for co-op or school terms. You'll never have to consider if there's enough space for a desktop setup.

In your day-to-day, it's also far easier to just have one good laptop, and not a laptop-desktop combo. One laptop means one filesystem, so there are no synchronicity concerns. Imagine the frustration of having a bunch of assignment files you recently updated on your desktop, and not have them accessible on your laptop when you want to work on them away from

COUNTERPOINT

home. These situations can potentially be mitigated by using USB storage for important data, or cloud storage, but unexpected complications like corruption or inaccessibility to these services are real possibilities that can leave you high and dry when you need your files. You'd also need to anticipate what files you need synchronized, which can cause more frustration if a needed file wasn't synchronized. Two computers also mean two computers to keep updated, and two different set of computer issues to troubleshoot. All students operate under time crunches and have enough to worry about without having to worry about troubleshooting two different set of computer problems, or if they can access their files, which would be quite bothersome to the less tech-savvy among us. Having one laptop allows you to use everything you have, at any time.

Lastly, it is likely cheaper and just as satisfying to own a good laptop versus having both a laptop and a desktop. Most people who advocate having a laptop and desktop are gamers or media creators, because if any desktop that has the same performance as a laptop, the desktop will be cheaper, and the laptop can be used for light work like web browsing or doing assignments. But how much performance do you need to be content? Is it worth it to spend 2000 dollars on a desktop and laptop if the desktop can complete some task in 20 seconds, and the laptop completes it in 1 minute, or would you rather spend 2000 dollars for a good laptop that can complete the task in 25 seconds? Also consider that the laptop in the combo has a 6-hour battery and the good laptop has a 10-hour battery? The performance of the good laptop is nearly equivalent to the desktop and the desktop is cheaper, but has better battery life than the mediocre laptop that comes in laptop-desktop combo. It's hard to imagine anyone who was satisfied with the performance of the desktop would be dissatisfied with the performance of the good laptop, so even though desktops have the most performance per dollar, a good laptop will likely be a better value for most people, especially since they can have all the power they want, wherever they are.

Having a good laptop is a better choice than having both a mediocre laptop and a good desktop because it's easier to handle logistically, easier to keep track of the files, and for the same price, it'll be more satisfying in terms of performance and portability. Especially as busy students, we don't want more complications than we need, and using a laptop-desktop combo can cause a lot of headaches for the minimal increase in satisfaction it provides.

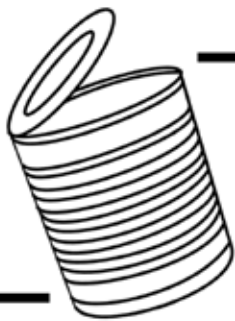


India7 Network via flickr

Alienware products are designed for gamers.

Editor's Note:

Point Vs. Counterpoint 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.



GUSTAV KLIMT

WHY IS PEPE MY BACKGROUND PHOTO? GUYS? GUYS? GUYS???? HE'S SO SAAAAD

It Would Have Been The Best Article...

A heartbroken lament

10 Worst Buildings on Campus

E7/11

"He's like me, but a Terrorist! I bet we'd have a great time at Sunday Brunch."

TS's Interview of the year page 4557

BREAKING NEWS: Iron Warrior News outed as Fake News by Fox News, CBC News investigation ION Construction Projected to End in 2080, Bombardier Says

Not Justice League Review



Julian Fong via Flickr

Not Justice League

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 courses' 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.

So 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



MARCO
1A INSECT MORPH

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 glared back at us. Twisted and perverted by the bad lighting and the awkward shadows, every imperfection on our faces leapt to life in terrifying low resolution and sent fear into our hearts.

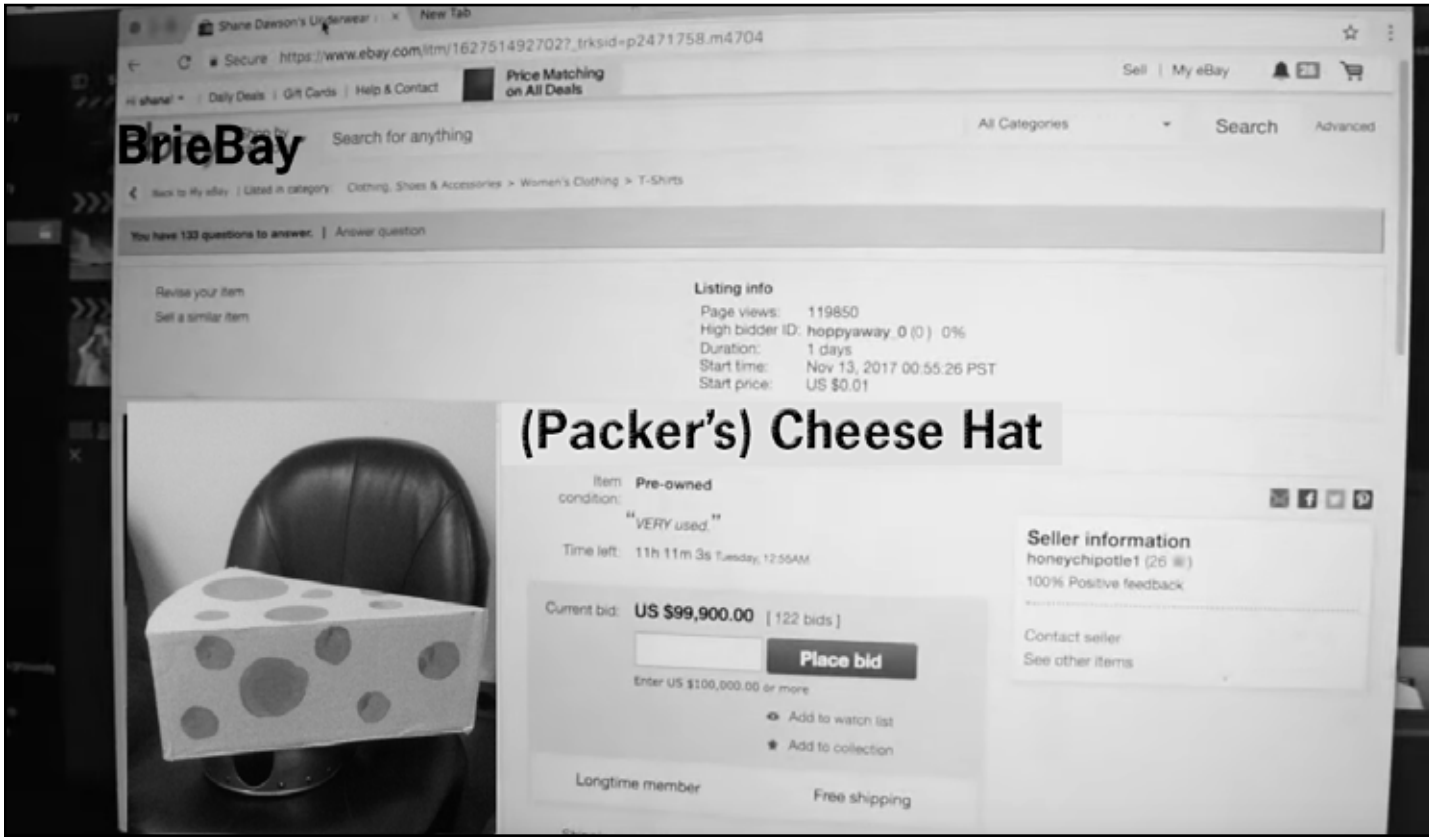
What had we done to deserve such a fate, to be cursed by such a tortuous depiction of our identity? Had we displeased EDCOM? Was this a sick frosh orientation joke? Was it to reinforce that we could never be Chads?

And to make matters worse, this caricature followed us to our midterms! What a way to start an exam: with our facial flaws staring back at us in unforgiving black and white as we read over the instructions of a make-or-break-the-term assessment.

But perhaps the most terrible of all is that the university gives us the option

to reprint the WATCARD if we "lose" it. That's right, for \$30 - slightly too much for a broke university student to be forking over for a piece of plastic that isn't a fake ID (but a laughably low price once you realize that Waterloo only values your dignity and self-worth at \$30) - we can roll the dice on a new picture and pray that the photo gods have mercy. Until we reach that point (and we all will), we have no choice but to slog on, and curl up in an attempt to hide whenever the cashier asks how we want to pay and we slowly hand them over our WATCARD.

The Editor Writes A Letter



Don't worry about it

Dear Cheese Club,

You have taken too long to remove your cheese hat from the *Tin Soldier* office. We have now sold it on BrieBay. All attempts to get it back are now Fondue-tile. Especially because with the money we made, the *Tin Soldier* staff have all taken a much-

needed break to the Bahamas; it was unBriellievable 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 Curds of Prey. Don't let it Grate 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

Unpaid Invoice

A SALTY EIC NOPE

There once was a time, long long ago in the misty forest of times past, when *Tin Soldier* was a profitable newspaper. We raked in sponsorship deals and had more ads than articles per page. Some called us sellouts, some called us a coupon flyer, but we knew better than them: we had found success. But times changed. People stopped reading the newspaper and brand deals stopped coming in, what could we do but watch in horror as our profits dropped. No more Bordeaux wine with our steak at weekly meetings, gone was the penthouse suite where my office

had 1000 ft2 to sprawl over Uptown Waterloo. It was a sad time for us all, learning to live like normal people, buying grocery items that were *gasp* on SALE.

Since then we've had to slowly build up our image and reputation, convince people that the *Tin Soldier* is worth reading once more. Once again we started gaining industry contacts and people began once more to place ads in our amazing pages. Imagine our horror, then, at finding out one particular ad had gone unpaid, one ad which could have changed the course of our lives forever. The ad that would have pulled us out of debt and back into that life

of luxury we loved so much. A three-page colour ad with holographic ink, 3-D capabilities, and moving pictures. This ad, worth upwards of \$30mil, would have saved us from the life of mediocrity which we now lead. Instead, unpaid, it has caused our final ruin.

I write this from my sickbed where I expect to perish. In the poverty-stricken conditions I have been forced to accept, in the Laurier ghetto, I contracted a series of painful and probably deadly diseases which have caused my final ruination. May my successor have more success than I. Make *Tin Soldier* Great Again, Editor. I have failed.

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. Parts of 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 boggled 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?

THE TIN SOLDIER

Editor-in-Chief

You know i'm related to that painter right?

Assistant Editor

Secretly lives in Mississauga

Layout Editors

Please help meeeee

Is 2 hours per page too

much time per page?

Google: How to use InDesign

Is it too late to go to 16 pages? I only need 5 more pages of content...

Copy Editors

Since when is that how

you spell "sceptical?"

Have you ever used a comma??

Why is nothing edited...

You're supposed to check grammer, not just spelling you know?

Advertising Managers

Whom?

Circulation Manager

Calls in sick every week

Social Media Manager

I don't want to log into my account

Staff Writers

Engsoc is no excuse

When were you last here?

What did you write again?

Leaf

Briefcases are in

Lives in the office

MIA

I used to write articles, but now I have a life, get over it I don't write here anymore VeggieFF is my favourite store

Contributors

If I type the same word 5000 times can I win Iron Pen?

If you write an article this one time I will buy your groceries for a month

I think I'm lost... where's

the Arts Building?

ADVISORY BOARD

Didn't answer the Doodle

Didn't answer the Doodle

Didn't answer the Doodle

Didn't answer the Doodle

Who needs quorum anyway.

Do you people actually do anything?

No, not really

What is your job?

I promise I'll include you on this draft

Check for typos and

controversy and shit

The Tin Soldier is not a forum for thought-provoking and informative articles, and has no association whatsoever with the Society of the Travelling Pants. Views expressed in *The Tin Soldier* are not those of the authors and do not necessarily reflect the opinions of Chuck Norris.

The Tin Soldier encourages submissions from students, faculty and members of the Non-Existent Action Committee. Submissions should reflect the concerns and intellectual standards of the Society of the Travelling Pants in general. The author's name and phone number should be included, except if they are non-existent. This information may or may not be posted on our website.

All submissions, unless otherwise stated, become the property of *The Tin Soldier*, which reserves the right to refuse publication of material which it deems too suitable. However we're so desperate for content that we'll likely take it (but we might just send it to *Imprint*). *The Tin Soldier* also reserves the right to edit grammar, spelling and text that do not meet university standards, but engineers suck at english so it's a low standard.

Mail should be addressed to PJ Katie, c/o YTV Canada, P.O.Box 7500, Paris, Ontario, N2L 3W7. We do not currently have a phone, however you may redirect all inquiries to Kickoff's, as we're likely there. We don't have a fax number as no one uses faxes anymore.

PCP stands for Point Corresponding Point, right?

POINT

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 ... meh, whateverrrr, 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, bird 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?

Except 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, staples vs paper clips, pinkies vs ring fingers and of course the modern classic: Coke vs Vanilla Coke. Do these people need to wake up, or are the mainstream-issue-following crowd just a bunch of sheeple who can’t prioritize for themselves? And while we’re on the topic of sheeple, 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 sheeple vs merfolk debate. Maybe one day, you’ll see the light and realize that sheeple vs merfolk is the 28-and-a-halfth 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™ Crème Sure et 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 too sensitive for the Nazis. Also, demanding that everyone holds hands is ableist against 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 alright unspecified period of time.

COUNTERPOINT

Once a Chad School Always a Chad School



JAKE
3A TIGER MORPH

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 tak-

ing 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 status. Unfortunately, everything changed when we faced Laurier. It was a battle of the Chads (which totally sounds better than Battle of Waterloo): Chad Uni-

versity 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! Honestly, as long as we can still make fun of UofT, I think we’ll be fine.

Car Air Freshener Scent Reviews

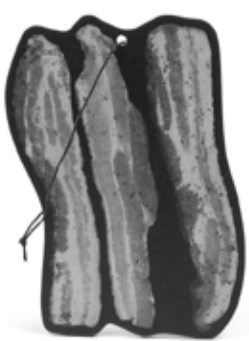


CASSIE
2A ANTEATER MORPH

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.

5. Bacon

This one is a great conversation starter. Doesn’t smell a whole lot like bacon. More like burnt cardboard, but like a really nice burnt cardboard. It wafts through the car fully and made it impossible to rid of the smell for weeks following its disposal. Also be sure not to throw it away in your own garbage can because then your house will smell like burnt cardboard too. Unless you want that. ½ stars



via Think Geek

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



via Little Trees

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.



via Little Trees

7/4 stars

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



via Little Trees

Cat Butt Air Freshener

This is what I consider to be the best air freshener on the market. It is long lasting and has a fresh 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. The 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



via Little Trees

car. -10 stars

Vanilla Pride

I was gifted this by a friend who heard I have a collection. Described it as a “timeless American design paired with a smooth and creamy vanilla fragrance.”... really? 0000 stars



via Little Trees

Arts Building Adventures



RACHEL
3B TIGER MORPH

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 delectable 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 myself 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 statue 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 the horrors and wonders which lurked behind the door. At last, I roused myself from my reverie and stepped inside.

The door led to an unremarkable room, rather like the hall of a community center or high school- yet an oddity caught my eye. There were, pinned to a



via University of Waterloo

Is this terrifying structure even on campus???

bulletin, several posters which seemed almost to be advertising courses. I recalled, with some stupefaction, 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, ML Diner. It was accompanied by a Tim Horton's, 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 baring their teeth; this is often accom-

panied 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.

Alarmed, I fled out of the nearest door, but my pride prevailed and I recoiled from all thoughts of flight.

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 foul 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? Had I ventured too far? Was I no longer on a university? Had I trespassed into

Laurier?

I hastened away from the scene, but still my pride forbade me from turning away. I determined to go deeper still, though all the angels of Heaven should entreat me to retreat. It was in this spirit that I entered the Psych-Anth-Soc building.

It consists almost entirely of dark, claustrophobic corridors, winding paths, and forbidding signs; there is no place of refuge, no comfort or safety. The walls are dark in colour, and plastered with posters, terrifying to behold; the ceiling is low, the lights faint, and, somewhere in the belly of the beast is a stairwell arrayed in the shape of an altar. It is a labyrinth in truth- and I, poor soul, had no Ariadne to guide me.

In due time, I came to despair of ever finding a way out. All thought of adventure and innovation flew from my mind; I desired only escape. Was I consigned to these grim halls forever? Would I never again see a matrix, or sit stupefied through an entropy lecture? Was I to live and die an exile, far from the QNC? My spirit broke, and I wept bitterly as I stood on the pseudo-altar.

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 PAS; 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!

THE TIN TRIBUNAL
Who's Asking? Am I being detained? I'm a sovereign!

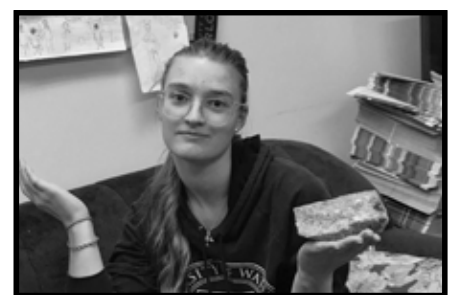
"Rock, Paper, Scissors"



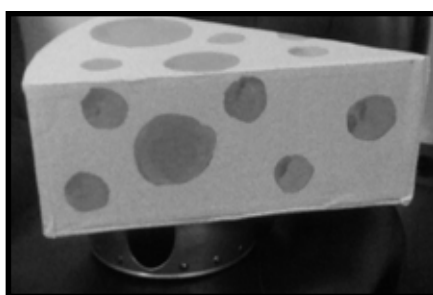
"Rock."
Hand Cricket Master, 3B Origami



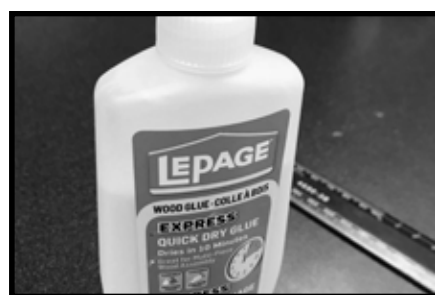
"Paper."
Hilroy, 2A Pulp Fiction



"Scissors"
Schisty, 4A Rock 'n' Roll



"Cheese"
Cheese, Moving

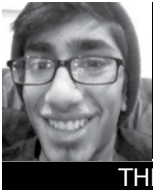


"Me."
Glue, Glue



"You're not asking a question, stop it."
Boring, 1A Loves Hats

Looking back at *Iron Warrior's* history



HASAN AHMED
2A NANOTECHNOLOGY

THE RUSTY KNIGHT

Hey! Just a description of this column: I'm going to be digging down into the older issues of the Iron Warrior to give a little glimpse of the past of the newspaper and Waterloo Engineering as whole. This term, I'm going to review issues from Fall 2011. If you really want, you can get ahead and read them yourself (I would recommend doing this for your classes instead of this column) at <http://iwarrior.uwaterloo.ca/>

This time, we're looking at issue 4 of fall 2011, and what looks like the dreaded story of the plaza fire. It started at a nightclub nearby in April 2010, and quickly spread to the optometry clinic, sushi restaurant, candy store, and Mel's

Diner. Mel's Diner is famous for its cheap breakfast and 50's diner aesthetic, and it was heartbreaking 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 PCP from issue 3 of fall 2017, which is on the Iron Warrior website.

Speaking of PCP, there was a PCP 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 volunteering, and don't give up. Heads up: I took a volunteer research position for my first coop, 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!

RYAN SAMLALSINGH
2T COMPUTER

Electronic Arts (EA) has not been able to catch a break regarding recently launched Star Wars Battlefront II (2017), the sequel to Star Wars Battlefront (2015), an action game known for team-based multiplayer combat set in the Star Wars universe. Since the series launched with the original Star Wars Battlefront (2004) on PC, PS2 and Xbox, it's never been subject to critical acclaim but has often had mixed to positive reviews and has earned a cult fanbase, just by being a

Star Wars game. EA, an Icarus of greedy practice in the video game industry, thought they could heavily exploit this fanbase for cash, but they were wrong. The initially implemented payment model that Battlefront II (2017) uses for in-game content after the consumer has already purchased the game, so-called "microtransactions", has sparked public outrage.

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

Take the Phone Off the Hook and Disappear For Awhile

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. Its part of the daunting truth that time speeds 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 field of time perception, this is coined the holiday paradox, it has to do with the different process we use to judge time in the moment (prospective) and to estimate how much time has passed (retrospective).

Prospective (in the moment) time perception emphasizes attention and engagement. When you're bored and not engaged, time still feels slow. Yet when you're on holiday each moment actually goes by very quickly. On the road all your routines are gone and you're totally engaged with your new life without any attention to your old markers of time (like having lunch or the end of school). Time just "happens" without you noticing it. Then soon enough the whole day is gone and the next day might still be different than this one, so you still don't know how much time things will take. In the moment, time feels faster on the road and slower in familiar and boring places.

Retrospective time perception is based on memory. If you're trying to estimate how long something took, you must refer to what you can remember of this past week. If this week was full of new and exciting things you end up having many anchors in your memory to recall time by "on Tuesday I went to...at lunch I saw...that night

I met." This will make your retrospective judgement of time to seem longer. This is contrary to routine office work or school terms, where each day is not much different from the one before. You don't make any memories to tell weeks apart, therefore they all blend into one when looking back on them.

So you can make a choice. Between a life where each boring moment drags on and on while time still appears to go by quickly in the long run, and another life where time feels fast in the exciting moments yet looking back it still feels like you've lived a

long while. To all of those who don't want to see new things or explore different cultures, that's fine. I completely understand.

But don't you want to live a "longer" life?

Considering the alternative is another year of familiar routines and another semester that flies by after you're done exams, time during these precious years we have just before adulthood are eluding us. Yet we have opportunities to change that. We're just old enough to be responsible for ourselves yet not too old to be responsible for others. I'd like to call this the Golden Age of traveling, and going on an exchange

was one of my best decisions to make my university years seem a little longer. Even though I'm not a fan of taking pictures for Instagram, I've taken a lot of experiences for my memory. These experiences have made all of this worthwhile.

Recently a friend came to London for a visit, I remember saying "It seems like forever, what have you been up to?" To which he replied "You've only been gone for a couple months Josh, not much has changed."

A lot has changed I thought, and change is something to remember.

WIN CASH EVERY WEDNESDAY

LE SHIN SWAH TABLE TENNIS LEAGUE

Join our Le Shin Swah Table Tennis and Foosball League.
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The Hills Are Alive With the Scent of Cookies!

Dust Off Your Leiderhosen for These Vanilla Kipferln



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, goddamnit!



TheUjulala via Pixabay

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 for gifts 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.

Vanille 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

have converted all the dumb measurement amounts to units I hope you will be able to measure in your own kitchen. Or at school, wherever you happen to enjoy baking. For all I know you carry an Easy-Bake Oven to

uni with you during exams, I don’t judge.

What you will need:

Almost 1 cup of cold butter (7/8 cups) so that’s equivalent to about 1 3/4 sticks of butter if you buy them that way, 2 cups regular white flour, 1 cup almond flour*, 1 tbsp vanilla extract**, 1/4 cup sugar, 1 egg yolk. You will also need icing sugar to top them with.

*Almond flour is legitimately just crushed almonds that you can buy pre-crushed. You can also crush them yourself with a food processor or blender (probably). If you don’t like almond or you’re allergic, try walnuts instead; I never have but I read somewhere that this is an acceptable substitution. No other substitutions will be accepted at this time.

**Technically you’re supposed to use vanilla sugar, but this stuff is not only difficult to find in Canada, it’s also expensive.

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-crumbl-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 flour.

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 yourself an egg-white omelette 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 with 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: Work the dough! Now, the dough is going to be cold so you’re going to need to play with it a bit in your hands. Roll it around until it’s a ball and then carefully create a crescent shape. If there are cracks in the dough keep working it until more of the butter has melted the dough together. These cookies are fragile enough you don’t want to be baking them with cracks! Setting your cookies up for failure would basically be pulling a Barby, and no one wants that.

Step 7: 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



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 possibility of confusion, I’ll point out that The Truth is provided by the Radiotopia podcast network and someone named Jonathan Mitchell is involved.

The Truth is a short story podcast. Every episode is a self-contained story, except for comedy episodes with more than one self-contained story. At the start of an episode Mitchell gives content warnings if the episode has adult themes, and they almost invariably do. Apart from that warning, the episode title, and a one line description, there is no telling in advance what a story on The Truth will be like. The characters (and settings, if there’s an original setting) make their mark fast and disappear forever, never to grace fiction again. Such is the life of a short story reader or listener. There’s not much of a pattern to latch on to.

One general trend is that some parts will be disturbing: recent episodes involved YouTube pranksters messing with hospital patients, a device that predicts how happy the user will be with any decision, and being cryogenically awakened to an uncaring world. There have been multiple episodes about people hearing voices in their head (Mitchell issues content warnings for those suffering identity disorders too). There’s no thoughtless gore or long action scenes: those wouldn’t be very effective for an audio-only format, would they? There isn’t always humor, but if there is

then it’s usually dark. If those are the sorts of stories you like, then The Truth might be for you.

There are a great many voice actors on this podcast, and multiple writers. Now and again, a story from another medium is adapted to pure audio form. Jonathan Mitchell is the producer each time though. There’s no narration: just dialogue and 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 cut down to their essence, and very little is repeated, so even the smallest detail is important. Considering that, and the gravitas these stories sometimes inspire, playing The Truth at high speed is not a good idea.

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 Songonaut 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 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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Animals on the Lam

Great Escapes in Zoo History



BRYAN MAILLOUX
3A MECHATRONICS

It's pretty well known that the city of Waterloo is fairly boring. If you ever find yourself with nothing to do on a nice day, I'd suggest checking out the Waterloo Park petting zoo known as Eby Farmstead. In the summertime, the park is home to alpacas, deer, peacocks, sheep, pygmy goats, pot belly pigs, and more, and although most of the animals move to warmer homes in the wintertime, some of the animals stay year-round in their little huts. Like most zoos, I think 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, penguins, 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



manolofranco via Pixabay

Bonnie, Clyde, and their three... capybabies

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.

EA's Battlefront Backlash

Continued from page 11

Following all the backlash, EA suspended all in-game purchases one day before the game launch, but that didn't stop state representative of Hawaii Chris Lee from holding a news conference in which he called Battlefront II (2017) a "Star Wars

themed online casino designed to lure kids into spending money" and stated he will consider legislation to prevent games with such overt gambling being marketed to kids. Belgium's Minister of Justice has likewise stated that following the results of an investigation into these microtransactions, he wants the EU to act against games that use

similar microtransaction systems. With the public and lawmakers scrutinizing Battlefront II (2017) so heavily, it's possible that EA might be ironically forced to sell a game free of microtransactions or face more backlash, when the original plan was to profit heavily from them. With this step to squeeze money out of Star Wars fans, EA has flown too

close too the Sun, and lost all it's money. Aside: The 4 main games in this series are, in chronological order of release: Star Wars Battlefront, Star Wars Battlefront II, Star Wars Battlefront, Star Wars Battlefront II. Seem dumb? I agree. But this is why I felt compelled to reference the game as Battlefront II (2017).

APPLY BY
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CHAMATH PALIHAPITIYA (BASc '99, Elect) and BRIGETTE LAU (BASc '99, Comp) are the founders of Social Capital. "Our mission is to transform society by using technology to solve the world's hardest problems."

The Iron Crossword

On Safari

CAMERON SOLTYS
4N MECHANICAL

1	2	3	4	5	6	7	8	9	10	11	12			
13			14			15			16					
17			18			19			20					
		21			22			23						
24	25				26			27		28	29			
30				31				32		33				
34			35	36				37	38	39				
		40						41						
42	43							44			45	46		
47				48	49	50	51			52				
53			54	55		56			57	58				
		59				60			61					
62	63				64				65			66	67	
68				69				70				71		
72				73				74				75		

ACROSS

- 1: Jewish Agency for Israel (abbr)
- 4: Used to hold groceries, for instance
- 7: First aid technique for cardiac arrest (abbr)
- 10: Ghost noise
- 13: Classic sandwich inclusions (abbr)
- 14: German for "grandma"
- 15: Real Academia Española (abbr)
- 16: Help
- 17: Neutron, dark matter, or neutrino, for instance
- 21: Begin legal proceedings
- 22: Relax, especially on a bed
- 23: Printer consumable
- 24: Used for holy sacrifice
- 26: Freudian tripartite part
- 27: Person on TV or in a film
- 30: Pool building at uWaterloo (abbr)
- 31: Evil scavenger in "The Lion King"
- 33: Anagram for "neo"
- 34: Country between South Sudan and Congo
- 37: Automatic transit payment in GTA
- 40: Not far

DOWN

- 41: Lower case letter, horizontal flip, 180° rot, vertical flip
- 42: Ability to cope
- 44: Primates exclusive to Madagascar
- 47: Sound of disgust
- 48: Large herbivour in Northern Canada
- 52: Consumed, especially food
- 53: Interesting (slang)
- 56: Contract to protect a client's intellectual property
- 57: -- -- -. . . .
- 59: Homemade bomb (abbr)
- 60: Husband of your daughter (abbr)
- 61: We ___ the engineers!
- 62: Skirt that goes under a gown, made of organic fibre
- 68: Party held by EngSoc at the start of a term
- 69: Take advantage of
- 70: A Nightmare on ___ street
- 71: National University of Ireland (abbr)
- 72: Dove sound
- 73: Remote Access Card (abbr)
- 74: Service that converts URLs to IPs

75: File extension indicating an executable file

DOWN

- 1: Island nation bordering the Pacific (abbr)
- 2: ___ Erb, classy restaurant
- 3: ___ be king (5 wd)
- 4: Tunnel-maker
- 5: Internet speak for an informal interview (abbr)
- 6: Meditaranian rowing ship
- 7: Waxy colouring device
- 8: In golf, expected stroke count
- 9: Elaborate networks of blood vessels
- 10: Exclamation after the failure of a plan (4 wd)
- 11: Black gold
- 12: Mathematical equation that includes differentiation relative to one term
- 18: Mon, ___, Wed
- 19: Squire
- 20: ++, in C
- 24: ___ Nahasapeemapieton, character on "The Simpsons"
- 25: Fall behind
- 28: Province of Waterloo (abbr)
- 29: Real Estate Owned (abbr)
- 31: Concubines, particularly of a powerful ruler
- 32: Poisoned fruit in Snow White
- 35: For catching butterflies
- 36: University in Halifax (abbr)
- 38: Relative biological effectiveness (abbr)
- 39: Music made for raves and mixing by DJs (abbr)
- 42: Males
- 43: Female sheep
- 45: Video games eg. Starcraft and Age of Empires
- 46: "Do you ___ what I ___?" (same wd twice)
- 49: Within tolerance (2 wd)
- 50: Canine relative of Garfield
- 51: Preserved by placing in sodium chloride
- 54: ___ Offence, stage of the Vietnam war
- 55: Off smell
- 57: Causes bodily harm
- 58: Evil creature of Tolkien lore
- 62: Official Canadian public media (abbr)
- 63: Land of Finn and Jake
- 64: US electronic surveillance agency
- 65: Telelatino (abbr)
- 66: Supplementary (abbr)
- 67: Formal neckwear

Sudoku

#2017-15

GABRIELLE KLEMT
2B GEOLOGICAL

Pshhh, this is SOOOO easy

		3			8			2	7
	1				7	5			
					2	6		3	
		2	8				7	9	
8				3				6	
6	7				5	8			
5		4	2						
		3	4					9	
9	2			1				8	

Hmm, ok, it's trickier I guess

			2					6	
2	4		6	5				7	
								5	
	5		8	6		4	2		
		4	9	7	2	6			
3	6		5	4				7	
	8								
5			8	4		2	1		
9				3					

NO! Please! Stop the torture! Why is it so hard!

		6					8		
		4	9			5			
	3				5	6		7	
		9	1	8		3		5	
3				5				2	
6		2		3	9	8			
4		3	2					5	
		5			6	2			
6						1			

Solutions for previous crosswords can be found on *The Iron Warrior's* website at iwarrior.uwaterloo.ca/distractions.

THE IRON INQUISITION
Samridhi Sharma, 2B Chemical

"How are you spending your holidays?"



"Sleeping."
Faduma Ahmed, 1A Computer



"Eating a lot and chilling with friends, and getting prepared for co-op."
Kim Chigbo, 1A Electrical



"Going back to India."
Sneh, 1A Computer



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



"California!"
Rutuja Desai, 2B Chemical



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