

THE IRON WARRIOR

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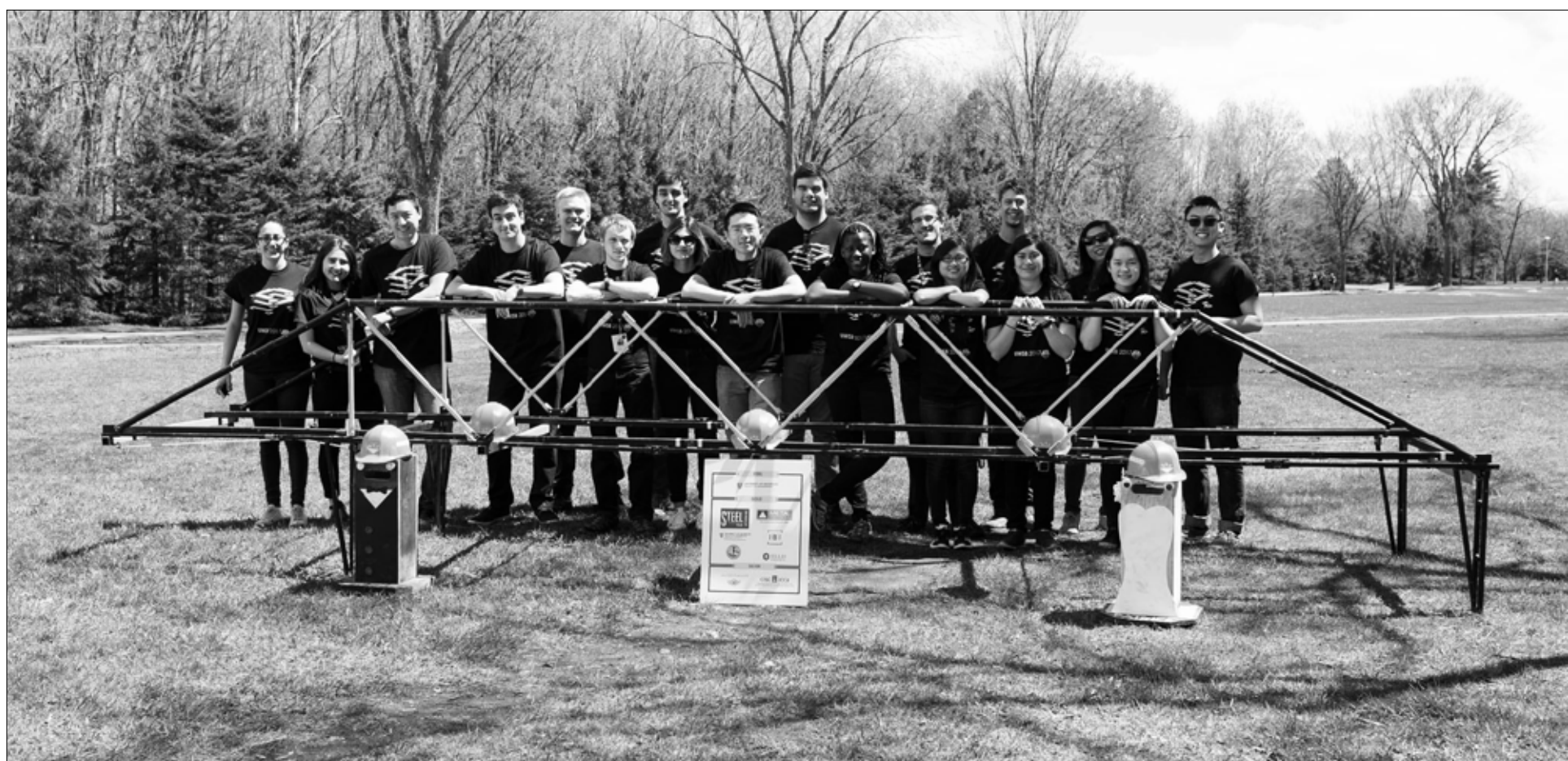


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UW Team Competes in Second Annual Canadian National Steel Bridge Competition



Voltaic Photo

University of Waterloo Steel Bridge (UWSB) Design Team at Quebec City during the Canadian National Steel Bridge Competition



JESSICA KEUNG
4A CIVIL

Anyone who says the University of Waterloo has no spirit wasn't at the second annual Canadian National Steel Bridge Competition (CNSBC). This year the CNSBC was hosted in Quebec City by Laval University. The CNSBC allows universities to promote engineering excellence on a national level and to network with industry leaders. The University of Waterloo Steel Bridge (UWSB) design team spent several months designing, fabricating and constructing a 1:10 scale model bridge to simulate a bridge crossing over the scenic and environmentally sensitive Jacques-Cartier River.

The competition kicked off on Friday, May 11th, where the UWSB team unloaded and set-up their steel bridge for judging. The exhibition facilitated the collaborative exchange of ideas and showcased ingenious designs from every university, including: École de Technologie Supérieure, École Polytechnique, University of British Columbia, Université Laval, University of New Brunswick, Université McGill, and University of Toronto. This afforded the team a great opportunity to learn about the design of other bridges and to practice their conversational French with the locals.

During the timed construction portion of the competition, the Construction team stepped up to the plate as the rest of the team cheered them on. Only the best of the best who volunteered were hand chosen to be part of the Construction Team. Under the direction of the Construction Captain Steven Chuo and his wise words "Don't mess up," they constructed the bridge within 20 minutes. The bridge was loaded to 2000 lbs without failure and remained within acceptable deflection. The team didn't mess up. It was their athleticism, finesse, and cool headedness under pressure that led to their success. Good work team!

Although the team placed 5th overall, they cheered the loudest, helped everyone out, and stuck together throughout the competition. That is why UWSB won the Spirit of the Competition Award for the second time; nice guys don't finish last, they finish 5th.

Despite many hours on the road and 6 A.M. wake-up calls every morning, the team celebrated their hard work together at the end-of-competition banquet. Even after an exhausting weekend, they were dressed to impress and ready to show off the University of Waterloo spirit. After a successful weekend, the team loaded up the bridge and got back on the road, stopping for a quick game of frisbee after their prompt ejection from La Belle Province.

The UWSB team is made up of both undergraduate and graduate students,

all dedicated to learning real world steel design skills. The team focuses on designing, fabricating, and constructing a 20 foot span modular steel bridge at annual competitions. Students spend eight months prior to the competition designing and fabricating pieces that must fit within the dimensions of 3 feet by 4 inches by 6 inches. The competition is based on design aesthetics, structural efficiency, and construct-ability. The UWSB team provides students the opportunity to learn how to cut, drill and weld; these are all skills that will hopefully make them better designers when they go out into the real world.

UWSB represents the University of Waterloo internationally at the annual American Society of Civil Engineers (ASCE) Conference in the Steel Bridge Competition. This April, UWSB attended the ASCE Steel Bridge Competition, hosted by Syracuse University. After an amazing display of technical expertise and skill, the University of Waterloo team placed an impressive 4th out of 13 teams. After a triumphant return to campus the team went straight back to work planning, repairing, and practicing for the CNSBC.

Congratulations to the members on all their hard work and dedication to the team. The team has developed the reputation of being the nicest, friendliest, and most cooperative team at every CNSBC and the University is proud that they have set the standard for spirit at these competitions.

UWSC would like to extend a special thank you to their advisors Dr. Scott Walbridge and Richard Morrison for their valuable technical support.

Big thank you also to all the sponsors but especially the gold level sponsors: Steel Plus, Metal Supermarkets, IBI Group, and ELLIS Engineering. Competing in national and international competitions would not have been possible without their support.

The UWSB team would like to recognize their team captains: Laurent Gérin and Kyle Pellerin, Construction Captains: Steven Chuo and Matthew Tonello, Finance Captains: Nathalie Skaf and Wendy Chikowero, Design Captains: Andrew Robinson and Tim Tedford, Fabrication Captains: Melanie Perreault and Paul Cassell, Public Relations Captains: Setareh Mearian and Kyla Rodgers, Rules and Regulations Captains: Manzora Nero and Angela Li, the Construction Team: Steven Chuo, Melanie Perreault, Yugue Chen, Matt Yang, and everyone else who made it to Quebec City to cheer on the team. And, last but not least, a shout out goes out to Pierre and Patrice, the pair of piers that supported the team when no one else could.

For more information about the team or if you are interested in participating next year, please visit the team's website: <https://www.uwaterloosteelbridge.com/>

Good luck to UWSB in next year's competitions! University of Waterloo expects great things!

Letter from the Editor

Into the EIC Role I Go



Salve and welcome to the Spring 2017 edition of The Iron Warrior! Yes it's that time of year when the mornings are crisp and the afternoons are sweet, and the University of Waterloo campus is brimming with fauna and plant life, with just a touch less of the student population. Personally, this might be my favourite term to be on campus! I love having the long sunny days when sunset does not occur until eight or nine in the evening. Biking also becomes much more enjoyable without the cold biting wind of fall or the multitude of students all across campus! Ah such is the Spring term!

I'm pleased to introduce myself as your Editor-in-Chief for this bright new term. This was a much delayed event, and I figured being Editor-In-Chief (EIC) in my 4A term alongside the beginnings of the Fourth Year Design Project might be fun (although only time will tell)! It was Caitlin McLaren (F16 Editor-in-Chief) who asked me if I would take on the mantle of Editor-In-Chief, and let me tell you, my initial response was a hesitant "I'm not sure". The workload of being EIC has scared me off more than once before, but I have always enjoyed working for the paper. The decision to take up the role really made me look back on my time with The Iron Warrior, which I would like to share with you all now.

My journey with The Iron Warrior started in the Winter term of 2013. My roommate, former-band-mate, and high school friend Alex Lee had joined the paper and urged me to tag along with him. I was an irregular then, showing up every other meeting or so, and reading the paper with minimal contribution. Soon enough the term ended, co-op started, and The Iron Warrior faded in the distance. It was not until the Fall term of the same year that I truly got involved. Alex became Editor-in-Chief that term and further urged me to help out and contribute, and thus began my life as a Staff Writer. My first article was featured in the second issue of The Iron Warrior of Fall 2013. This debut article was for my column Hit Replay presenting the return of vinyl records into the mainstream music market. It was during this term that I discovered how much I enjoyed writing and suffice it to say, the column became a re-occurring item in the paper. Exactly a year later in the Fall term of 2014, I found myself helping out more often than not for the paper, taking on the role of Circulation Manager! It was only then that I truly realized how heavy a stack of

newspapers can be when you are trying to move it from the office all the way to the V1 Cafeteria. Nonetheless, I ended up appreciating the trips to and from the different parts of campus, enough to stay in the role for every term I was on stream until today! The Fall 2014 also marked my entrance into the world of the Iron Inquisition. For most issues of that term, fellow staff writer Jessica Keung and I ran around the Engineering side of campus asking random students seemingly random questions with every issue! The perks included using The Iron Warrior's fancy DSLR camera and receiving silly answers to our questions. It was certainly a lot of fun. The Spring of 2015 was another milestone for my journey with the paper, as it was in this term that I introduced my good friend Gaius Lucius Agrippa, consul of Rome, to The Iron Warrior. Gaius and I collaborated heavily on a column that interested us both greatly: Rome. I have to admit that term was the most I have ever contributed for the paper, with two regular columns, the Iron Inquisition, and as Circulation Manager. The enjoyment I received from being involved with the paper and working with the wonderful people that make it happen is probably what prompted me to say yes to the role of EIC, and I am sure it will be yet another milestone in this journey with The Iron Warrior!

In the few weeks that have passed I have certainly had a taste of the flurry of activity already, and I've definitely enjoyed my spot at the head of the table during our staff meetings. On that note, this term's staff of The Iron Warrior look great! We welcome a few new faces this term and with them some new columns: Taylor Lindblad will be joining us with her new alternative fashion column which was a long time coming (her first article is featured in this issue); Spencer Ann Butler, a friend of mine from back in high school, joins us from UW Science & Business and also debuts in her first article in this issue; Nick Owens from 1B Mechanical is featured in this issue with his first column aptly named Electron-Nick's; we also welcome Arianna Skirzynska from Nanotechnology into our family of Staff Writers; and last but not least look out for Sarah McCurdy who'll be providing us some updates from WEEF. The A-Soc Exec Team will also be joining us this term for their regular updates, so be sure to give those a read!

Aside from our new writers, we also have some of your favourite columns returning this term! Donovan & Tristan are back in action with their Broskies on Brewskies column. Cameron is also returning this term with his column Space Cam; in this issue he introduces us to the world of CubeSats, which is

an interesting piece of technology that makes outer-space more accessible. Gaius Lucius Agrippa is also back this term welcoming us to the customs and traditions of ancient Rome. Last but not least, Cameron once again challenges us with his much loved Iron Crossword! A special thanks also goes out to Raeesa Ashique who has tirelessly helped me out this past weekend with editing and layout.

This term is off to an exciting start. I am positive that with our current team of executives, staff writers, and contributors The Iron Warrior will be in good hands. As a team, we are always looking to improve and change how things can be done for the better. Personally, I believe in being in a state of constant improvement, and I encourage the paper as a whole to challenge where we are now and to try new things and reach more milestones. It has certainly been a wonderful experience to see and be a part of the growth and evolution of The Iron Warrior in the past four to five years, and I am as excited now as I was when I first joined it, perhaps even more so. This term, under the beautiful spring weather, I hope to usher in some positive change not just within The Iron Warrior but to all those that we as an organization reach. Continuing in our efforts to reach a wider audience and be more inclusive, we have invited students and friends outside of the faculty of engineering to be involved with The Iron Warrior and write for us. This term, we are also looking to get more students' voices heard by encouraging one-shot article submissions (We'd love to hear from you! Feel free to send us an article!). We are looking to take advantage of this Spring term and reach new heights! Spring is, after all, a season of growth and change, is it not? On this topic of growth, I would like to extend a warm invitation to everyone out there that we are actively recruiting! We currently have a few vacant spots on our team, and we always love to feature the student body's work. If you are interested in writing, doing layout, etc. for The Iron Warrior, especially if you're a first-year, feel free to come by. As some of our staff graduates every year, we are always looking for fresh blood to join our ranks. So if you want to work with us, or even if you haven't made up your mind but are interested, come to our next meeting! We hold weekly meetings every Tuesday at 1730h in our office, located at E2-2347.

Anyways, that's all I have for this editorial, so until next time, thanks for reading! If you ever find yourself wanting to share something with us or have any questions regarding myself or The Iron Warrior as a whole feel free to contact us at iwarrior@uwaterloo.ca.

See you all next issue.

THE IRON WARRIOR

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Send your submissions for the next issue to iwarrior@uwaterloo.ca.
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The Iron Warrior is a forum for thought-provoking and informative articles published by the Engineering Society. Views expressed in The Iron Warrior are those of the authors and do not necessarily reflect the opinions of the Engineering Society.

The Iron Warrior encourages submissions from students, faculty and members of the university community. Submissions should reflect the concerns and intellectual standards of the university in general. The author's name and phone number should be included.

All submissions, unless otherwise stated, become the property of The Iron Warrior, which reserves the right to refuse publication of material which it deems unsuitable. The Iron Warrior also reserves the right to edit grammar, spelling and text that do not meet university standards. Authors will be notified of any major changes that may be required.

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Trump Makes First Presidential Foreign Trip, As National Woes Continue



**RAEESA
ASHIQUE**
3A ELECTRICAL

“Russia” is the catch word of the Trump administration. The question of Russia’s interference in the 2016 election is ever on-going, with new information continuously emerging. For example, Trump fired FBI director James Comey two weeks ago; the list of reasons for this dismissal has not been solidified (but appears connected to the election investigation), and the Michael Flynn scandal from a couple months ago.

Leaked intelligence is also a common theme in the White House these days; Trump allegedly shared highly classified information with Russia diplomats one day after dismissing Comey. (It is a laughable reality that Trump shares his secrets—with Putin’s people, no less—like a little girl at a sleepover.)

In the midst of these serious issues back home, Trump is making his first presidential foreign trip. Convenient? Maybe, but there can be no escaping suspicions of collusion and obstruction of justice, among other claims.

His itinerary began in Saudi Arabia on Saturday, May 20, where he stayed two days. Next, he traveled to Israel to meet with both Israel’s Prime Minister and Palestine’s President. He will then visit Europe, meeting with Pope Francis in the Vatican in Rome, attending talks in Brussels, and finishing in Sicily at the G7 summit.

A nine-day, five-country presidential trip including meetings in the Middle East can be nothing short of interesting, but relationships with countries in the region are taking unexpected turns.

Trump in Saudi

Trump started off his trip in Saudi Arabia. He flew into the King Khalid airport in Riyadh on Saturday, May 20, where he received red carpet treatment.

On day one, he met with Saudi Arabian King Salman bin Abdulaziz Al-Saud, and they signed a trade deal of \$350bn USD. It will apparently lead to the creation of hundreds of thousands of jobs in both countries.

The agreement includes the largest weapons deal in American history at almost \$110bn. Secretary of State Rex Tillerson says the “package of defence equipment and services supports the long-term security of Saudi Arabia and the entire Gulf region,” and that the goal is to counter “malign Iranian influence and Iranian-related threats which exist on Saudi Arabia’s borders on all sides.”

The arms deal involved weapons—missile defence systems—which President Obama was unwilling to sell Saudi during his time in office. This deal seems telling of the efforts to return to the US’s pre-Obama relationship with Saudi.

Trump was awarded the King Abdulaziz Al Saud medal, the highest civilian honour, for his efforts to strengthen ties between the two nations.

Day two in Saudi was a highly anticipated—or dreaded, as the case may be—address to dozens of leaders from the Muslim world, which was compared to the scale of Obama’s speech in Cairo in 2009.

Interestingly, Trump’s speech was written by senior advisor Stephen Miller, who also wrote the controversial travel ban targeting six Muslim-majority countries.

King Salman opened the Arab Islamic

American Summit in Riyadh on Sunday with comments regarding “some presumed Muslims” who have been falsely associating a peaceful religion with violence and terrorism.

In his speech, Trump also acknowledged the distinction between Islam and terrorism. He said, “This is not a battle between different faiths, different sects, or different civilizations. This is a battle between barbaric criminals who seek to obliterate human life and decent people, all in the name of religion... This is a battle between good and evil.”

He also called on those assembled to work with the US to “drive out the terrorists and drive out the extremists... Drive them out of your places of worship. Drive them out of your communities. Drive them out of your holy land and drive them out of this Earth.”

In the past, Trump has expressed extremely anti-Muslim rhetoric, especially along the campaign trail. He had called for a database of Muslims in the US, a temporary ban on Muslims entering the country, and tried twice to impose a travel ban against several Muslim-majority countries. Legislation from the second attempt is still tied up in courts.

Despite his less-than-pristine track record, and belief stated in an interview last year that “Islam hates us”, Trump’s speech was surprisingly and uncharacteristically innocuous. He even avoided the controversial phrase “radical Islamic terrorism”, which Muslims widely find offensive.

The US and six Gulf states—Saudi Arabia, Qatar, Kuwait, Oman, United Arab Emirates, and Bahrain—are expected to sign a deal coordinating efforts to cut off funds to extremist groups.

Trump in Israel

Day three took Trump to Israel, where he met with Israeli Prime Minister Benjamin Netanyahu in Jerusalem. The goal was to revive the peace process; he has previously called peace between Palestinians and Israelis the “ultimate deal”, but hasn’t offered a solution. It is uncertain how he may manage to achieve this when his predecessors were not able to. During the meeting, he astutely observed, “It’s not easy. I have heard it is one of the toughest deals of all, but I have a feeling that we are going to get there eventually. I hope.”

Instead, he chose to focus on Iran’s nuclear capability, promising that “Iran must never be allowed to possess a nuclear weapon – never ever – and must cease its deadly funding, training and equipping of terrorists and militias.” The US, along with other powers, had negotiated a deal in 2015 allowing economic benefits in return for cutting back its nuclear program.

Trump again called for a joint effort in defeating ISIS, and again criticized Iran. “In my visit to Saudi Arabia, I met with many leaders of the Arab and Muslim world... These leaders voiced concerns we all share about ISIS, about Iran’s rising ambitions and rolling back its gains and about the menace of extremism that has spread through too many parts of the Muslim world.” Regarding the summit, Iran’s new President Hassan Rouhani said – rather ominously – “Who can say regional stability can be restored without Iran?”

Trump will remain in the country for one more day, meeting with Palestinian President Mahmoud Abbas in Bethlehem.

Trump in Europe

On day five, Trump will be meeting with Pope Francis in Rome. This will be an interesting meeting, considering the two



Evan Vucci / AP

US President Trump and Saudi King Salman

men disagree on pretty much everything. Last year, the Pope said that Trump’s obsession with building walls meant he “is not Christian.” However, Pope Francis has promised to be receptive in their meeting: “I will tell him what I think. He will tell me what he thinks. But I never want to judge someone before I listen to the person first.”

Next, Trump is off to Brussels to attend a NATO summit and meet with EU leaders. During the campaign, Trump called NATO “obsolete”, although he has since re-evaluated his position, saying in April that “It’s no longer obsolete.”

The big question regards his stance on Russia. Trump is the only American president who has not approved Article 5, which states that an attack on one member nation constitutes war with everyone in the alliance. At this point, we don’t know what position Trump holds, or whether he will be re-evaluating this as well.

He will finish up the foreign trip in Sicily, where he will be attending the G7 summit. This will also be his first time meeting France’s new president, Emmanuel Macron.

James Comey, and other Russia related problems

President Trump may not be home for the interim, but he is certainly in trouble.

On May 9, Trump fired FBI Director James Comey, due to, apparently, the way he handled the investigation into Hillary Clinton’s use of a private email server. Notably, Comey was also leading the investigation into allegations of Russia collusion in the 2016 election.

On May 16, the New York Times reported on an Oval Office meeting from back in February, in which Trump asked Comey to let up on the investigation into Michael Flynn. He reportedly said, “[Flynn] is a good guy. I hope you can let this go.”

Flynn is the former national security advisor. He had lied to Vice President Mike Pence about a previous phone call with Russian ambassador, Sergey Kislyak, regarding sanctions, which he was not at liberty to discuss. When this inconsistency

in versions of the story came out, Flynn resigned.

The Trump-Comey meeting took place one day later. After the conversation, Comey wrote a detailed memo regarding the discussion, which was part of a larger paper trail he had created documenting Trump’s apparent efforts to influence the Russia investigation; this conversation is the most telling of such efforts. At the time, Comey only shared the notes with other senior officials, so they would not affect the investigation.

An FBI agent’s notes hold up in court as evidence of conversations.

On May 19, the New York Times dropped another bombshell. Trump hosted Russian Foreign Minister Sergei Lavrov and Ambassador Sergey Kislyak in the Oval Office on May 10, one day after firing Comey; the comments from this meeting came out in a document summarizing the official minutes. Trump allegedly told the officials, “I just fired the head of the FBI. He was crazy, a real nut job.” This adds yet another excuse to the growing list of reasons for firing the FBI Director.

Trump also said firing Comey relieved a “great pressure” he felt over the entire Russian investigation, which sounds suspiciously like obstruction of justice.

Spokesperson Sean Spicer did not deny the words, only the interpretation; he says that Trump was referring to political pressure, rather than judicial pressure.

Even more controversially: the Washington Post followed up with more dirt from the same meeting. Allegedly, Trump shared highly classified “code-word” intelligence related to ISIS with the Russian diplomats. This intel had been provided to the US by a partner through a very sensitive intelligence agreement, and the US did not have the authority to pass this information along. In fact, this information was even classified within the levels of government, yet Trump shared it with Russia, almost bragging that “I get great intel. I have people brief me on great intel every day.”

continued on page 5 as “Trump”

France Election

Emmanuel Macron Wins over Marine Le Pen



HASAN AHMED
2T NANOTECHNOLOGY

On May 7, 2017, France elected Emmanuel Macron as the new president of the country, edging out Marine Le Pen, his far-right counterpart, in a 66.1% to 33.9% defeat. This surprised the world, as Macron, the now youngest president at 39 years old, was not expected to win coming up to the election date. He began his campaign in April, called “En Marche!” It’s a socialist-liberalist party and rounded up many volunteers over the course of the campaign period. Members of the socialist party were allowed to be part of

the movement if they supported Macron, so he might have used this strategy to rack up as many votes as possible. This seems similar to what the American voters tried to do; some people would vote Hillary Clinton simply because she “wasn’t Trump.” He was also described as a centrist, who was pro-business and supported the free market, and he also wanted to remain with the EU, which could have been a strong factor in the number of votes he received. Nobody thought Macron would defeat Le Pen by such a large margin. He understood the divide in the country, and wanted to do what he could to fix that, saying “I will do everything to make sure you never have reason again to vote for extremes”.

Marine Le Pen, who has been often

called a sort of “Trump 2.0,” is a right wing nationalist and member of European Parliament, as well as the leader of the National Front (FN). She is known for opposing free trade, believes people should be self-sufficient, and was interested in dropping the Euro for a national currency, as she claimed it was causing price raises. Although she is not a big fan of abortion, she has supported keeping it legal. Le Pen also opposes globalization of France and has made that clear in her political platform. She wanted to leave the EU for reasons related to these. One of Le Pen’s most controversial views was anti-multiculturalism, and many Muslims were scared of what could happen to them if Le Pen came into power. Laws could be in place to prevent illegal immigrants

becoming legal residents.

Does this sound familiar? A far-right leader and an opponent who was favoured by the younger population? These differences split the socialists and the right wingers. It seemed people had seen what happened in the US, and were very unsure if they wanted Le Pen in office. However, there was a low voter turnout—the lowest in the last 40 years. Le Pen accepted the loss, but her movement has not stopped, and she plans to transform it and could probably bring it back to the surface in a few years. Macron now must do what he can to start the sluggish economy up again and maintain the trust of the French population; otherwise, Le Pen could return in a few years with a much bigger advantage.

Recent Spread of Ebola Virus Warrants Preventative Measures

NICK OWENS
1B MECHANICAL

Still fresh in the minds of many people worldwide is the Ebola outbreak of 2014 and 2015, which claimed many lives in Guinea, Sierra Leone, and Liberia, even claiming the lives of some relief workers from the United States and Canada.

The most recent country to experience an outbreak is the Democratic Republic of Congo where, on April 22, a man of 45 years sought help for the virus. Since then, the area has experienced three deaths in under a month as well as a spread of up to eighteen confirmed cases. Compared to its predecessor from only a few years back, this may not appear to pose the same threat, but it is still worth understanding when to exercise caution.

According to the Centers for Disease Control and Prevention (CDC), the outbreak in 2014 was the largest outbreak in history. Furthermore, the World Health Organization was criticized for not responding fast enough to properly contain and treat the virus. Currently, there are more than a hundred people to have come into contact with patients and, due to this, preventative measures are being taken very seriously to ensure that the eighteen confirmed cases are properly treated and that others in the region are at lower risk of contracting the virus.

One potential solution could be a newly created vaccine which greatly reduced cases in the previous outbreak. However, the vaccine, being recent, has not received approval from all medical

regulatory and licencing committees and was only cleared for use during the 2014 outbreak due to the drastic state of emergency. Clinical trials do take time and the safety of vaccine use must always be considered.

Although the cases appear to be spreading, the government, as of yet, has not approved the use of this vaccine on its citizens. Of course, this vaccine may be a key to preventing another epidemic, but as of now, it is still an unlicensed medical product and the government of Congo wishes to continue treating it as such.

Containment is likely the best method for containing the virus right now, even if this may be easier said than done. Despite the common association between the virus and simian species,

the CDC says that it was likely bats who played host to the virus in the previous outbreak. Being small and numerous, bats are a difficult species to control and keep separate from humans, even if patients remain isolated and suspected cases are kept under close watch.

For now, even though this outbreak will require aid and careful containment, signs do indicate that it will not reach nearly the scale of the 2014 outbreak. Understanding the danger that the virus poses, the World Health Organization responded almost immediately and, even though the virus has spread, control measures are underway and patients are receiving treatment. Finally, if a major outbreak begins to look more likely in the future, clearance of the vaccine might just make all the difference.

An Interview with Dr. Eline Boghaert

Winter 2017 Teaching Excellence Award Recipient

**TEACHING EXCELLENCE
AWARDS COMMITTEE**
2017

The Engineering Society would like to extend their congratulations to Dr. Eline Boghaert, who was selected by the Teaching Excellence Award Committee as last 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. Boghaert, and thank you for everything you’ve done to help ensure the academic success of your students!

When did you decide to be a professor?

I’ve always liked the idea of pursuing a career in teaching. When I was in middle school and early high school I thought I wanted to be a math teacher. Once I started undergrad I really enjoyed my chemical engineering courses and some of my summer research positions and thought

that I would like to be a professor. I started my PhD and realized after a year or two that I was much more passionate about teaching than research so I completed the equivalent of a Teacher’s College Program and taught high school math for two years while completing my PhD. When I moved to Waterloo I was fortunate to get a position in the Chemical Engineering Department as a lecturer, which allows me to focus on teaching without having to manage a research group.

What is your favourite part about being a lecturer?

I really enjoy interacting with students and helping them understand and apply concepts. A lot of times students know more than they think they know, they just need someone to guide them and ask them the right questions so that they connect ideas and work through a problem. Working with students and seeing them experience these aha! moments is very rewarding.

What is your teaching philosophy?

First and foremost, I believe it’s important to build a dynamic and safe classroom environment where students are excited to learn, actively engaged, and comfortable asking questions. Second, I think students learn best when they can connect new ideas to previous experiences and prior knowledge. To that extent, I

try to explain more advanced concepts using analogies to things that students can visualize. I also try to structure my courses using a scaffolding approach where we start off with easier problems and then add layers of complexity as the term progresses. While a lot of these problems initially seem very different, I try to emphasize the similarities and the key concepts that are applied.

What unconventional teaching methods do you employ (if any)?

I don’t think I do anything particularly unconventional. For the most part I use a combination of PowerPoint and problem solving on the white board. When it comes to problem solving, working through the problem on the board allows me to show the students what my thought process is for each step. It also allows me to change my approach or elaborate on my explanations depending on student questions and input.

Given the opportunity, how would you improve yourself as a professor?

I would like to work on making my classes more engaging and interactive. It would be nice to incorporate more hands-on activities or demonstrations to help students visualize some aspects of the course content. I also need to work on asking better questions. Rather than

asking questions with a “right” answer, I’d like to incorporate more questions that lead to class discussion.

What message would you like to send to students reading this article?

Don’t be afraid to ask questions! I’ve found that one of the best ways to learn something is to constantly ask yourself questions and then find the answers to anything you are unsure of.



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Dr. Eline Boghaert

Bell Canada Database Hack

1.9 Million Email Addresses, 1700 Names and Phone Numbers



HASAN AHMED
2T NANOTECHNOLOGY

Oh boy, another one of these. Why do these keep happening, especially to big companies? Well, obviously they've got a large amount of information in their databases, so it makes sense that companies like Yahoo! and Bell are targeted frequently for hacks like these and why companies spend a ton on security to ensure customer information is never leaked, as well as methods for catching any attempted hackers. However, just a few days ago Bell lost 1.9 million active users' email addresses and roughly 1700 names and phone numbers. Luckily, the company stated that very sensitive information such as financial statistics and passwords were not lost in the breach.

This was said to be separate from the recent WannaCry ransomware attack, which has gained worldwide notoriety recently after infecting more than 200,000 computers across 150 different countries with victims including banks, hospitals, telecommunications companies and logistics warehouses.

Ransomware is an act where private and/or sensitive information is taken and held hostage until a ransom is paid by the company/individual. This is similar to a real-life ransom, except, obviously, technological. Occurrences of WannaCry recently exploded and affected users all around the world. It recently hit Waterloo too (as I saw in a picture in the Waterloo subreddit), however the University itself was safe from the attack, so don't worry. Anyway, it would prompt you to pay a couple hundred dollars in bitcoin to get your files back. Yeah, hackers suck, but apparently this was patched by Windows so update your computers. In fact, a security researcher named Marcus Hutchins (who is only 22 years old and goes by his twitter alias, MalwareTechBlog) realized within the code was a long URL that was unregistered as a domain name. At the time, he didn't realize registering that domain name would cause the ransomware to shut down; he only did it for tracking and was just "doing his job", but it worked so hooray? I mean, his identity is kind of revealed but at the cost of stopping a large malware, I'd say it's a good trade.

Anyway, back to

Bell: it was not clear how the database was breached, how long it was breached for, and how they even got in. The hacker reportedly released a statement online (along with files of released information) saying that it was Bell's fault for not cooperating, and if they continue to refuse, they'll release the information. The RCMP has not found anything regarding the identity(s) of the hackers, but if it results in the laying of criminal charges, then they would confirm an investigation into the suspects.

What Can You Do?

I've written articles like this before and I always want to remind readers to keep your passwords relatively complex and don't store them in plain text on your computer. Change them often if you really need to, and if you're making a one-time account for a not-very-secure website, you might as well make the password incredibly complex in order to prevent a hacker from obtaining access to anything you might own. Yeah, that's not exactly the best advice in this case, since Bell was the one hacked, but who knows. Better to be safe than sorry.

continued from page 3 as "Trump"

Trump apparently shared information about an ISIS plot regarding laptop usage on airplanes, as well as the targeted location. The Post is withholding most of the plot details.

US officials say Israel is the source of this intelligence. Trump says, "I never mentioned the word or the name Israel in that conversation." However, the issue at hand regards divulging the information itself, not its source.

According to a former senior US official, "Trump seems to be very reckless and doesn't grasp the gravity of the things he's dealing with, especially when it comes to intelligence and national security. And it's all clouded because of this problem he has with Russia."

Trump cannot rid himself of Russia; scandals have dogged every step of his presidency. In a joint news conference with Colombia's President Juan Manuel Santos at the White House on May 18, Trump denied all allegations of collusion, saying, "The entire thing has been a witch hunt. This is the single greatest witch hunt of a politician in American history!"

Trump's intelligence leak would be illegal if committed by anyone else, but as president, he has the authority to declassify classified information, and as a result was most likely acting within the law. There were, however, talks of impeachment as the President headed off to the Middle East.

WEEF NEWS

An Update from the WEEF Director



SARAH MCCURDY
WEEF DIRECTOR

Welcome back to campus for summer. My name is Sarah McCurdy and I am the new A-Soc WEEF Director. First of all, WEEF has some exciting news: in Winter 2017, WEEF's principal value surpassed \$15 million and is currently valued at \$15,144,604! Additionally, after observing our current financials, WEEF approved an increase in annual spending to \$270,000 annually.

WEEF was founded in 1990 by two University of Waterloo Engineering students, John Vellinga (SYDE '91) and Avi Belinsky (EE '90), to "continuously improve the educational environment for undergraduate engineering students". So, they created an undergrad student-controlled endowment fund with the funds explicitly assigned for undergraduate equipment.

WEEF stands for the Waterloo Engineering Endowment Foundation and it is the largest student-run endowment fund. WEEF income is based through donations by the student body, alumni, and the employer matching contributions. The interest earned on the principal amount is distributed out to faculty and student proposals after voting approval by the WEEF student representative council and approval by the student-majority WEEF board of directors. The student council has two representatives from each class that attend and vote on all proposals.

By the WEEF by-laws, WEEF can fund long-term investments that have a direct impact on UW Engineering undergraduates. Every term, proposals submitted by the faculty, student teams, and clubs are presented to the WEEF council outlining: materials needed, the detailed costs, and the impact on Waterloo Engineering. The student

representatives ask questions, propose modifications, and communicate to presenters about the efficacy of their proposals. Once all the presentations are finished and each class has been represented, the funding council votes on the funding allocation. The Engineering department take into consideration what students are funding with the WEEF budget. WEEF communicates on behalf of students through our own funding decisions and through our influence on the faculty's budgets.

You can currently see some of WEEF's investments in your lab instrumentation and in the funded student team materials that have a yellow WEEF sticker on them. Additionally, you can see WEEF's investment through the E5 Sedra Student Design Center, in which WEEF has completed its final payment of its \$1 million funding to.

If you have any questions about how to get involved with WEEF, how to submit proposals, or any general questions about WEEF, please contact weef@uwaterloo.ca.

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Ludent Stife Luv

MARIKO SHIMODA
VP STUDENT LIFE

My name is Mariko Shimoda, and I am your VP Ludent Stife! I will be responsible for improving your engineering undergraduate experience through wild social events, volunteer and outreach opportunities, and MORE.

I hope the first few weeks of term have treated you well! Several lovely things have already happened this term. Engiqueers and Charity Brunch sales have started, and will be continuing weekly. Two rounds of wonderful, LinkedIn-worthy Professional Photoshoots took place on the iconic E5 bridge. Myself and the amazing exchange team had dinner with the 6 delightful German and Austrian exchange engineers. The fantastic Education Outreach team and volunteers ran an educational day of build-

ing and hands-on activities for kids at the MUSEUM.

Last but not least, the Waterloo Engineering Competition occurred last weekend! Make sure to congratulate the 1st place teams who are advancing to the Ontario Engineering Competition and representing Waterloo: Jeff Niu, Jackson Macdonald, Kevin Zhang, and Justin Borromeo for Programming; Het Anand Patel, Armaan Ladale, Eason Gao, and Munir Abdinur for Consulting; Emily Zeng, Kai Wu, Anna Verkhovskaya, and Run Ting Wan for Junior Design; and Josh Li, Ian Lung, Megan Town, and Quinton Millad for Senior Design. The competition ran smoothly, thanks to our marvelous volunteers, judges, diWECtor team, and the terrific commissioner Emily. If you missed out on this WEC and will be in the area next term, make sure to sign up for the Fall WEC!

And there is even more coming up! Come Stargazing with us this Friday at CIF Fields, and learn something new about the sky! Learn how to negotiate your salary with the Women in Engineering Team. Get some exercise, release some endorphins, and toss out your hateful energy at the Ultimate Frisbee Tournament. Relax, sing an angsty song, and eat some s'mores at the Bonfire!

We are also offering a hackathon very different than what has been run in the past! EngHack has partnered with Initium Labs and CapitalOne this term, and is offering bigger and better prizes, tons of swag, BUBBLE TEA, and activities and tech talks running all night long. Applications have officially closed, but we are still looking for some volunteers to help us out on the day (May 26th-27th).

If you want to know what's coming up,

check out the calendar outside the Orifice or online at <https://www.engsoc.uwaterloo.ca/event-calendar/>.

You will also notice that there will be feedback forms up on all Facebook events. I am working with the Feedback team to increase and standardize the metrics and feedback we get from all of you! I hope to learn more about what makes an event memorable, valuable, and overall great for the engineering population, and use that to make our events better.

If you have any questions, comments, concerns, or feedback, I would love to hear it! Shoot me an email at vpstudentlife.a@engsoc.uwaterloo.ca, or visit me in the Orifice Mondays and Wednesdays 2:30-4.

There is no such thing as overcompensating with fun; come out and enjoy an event, meet new people, and pick up a skill or two!

What What WaterlooWorks (and other Goals for the Term)

PAT DUONG
VP ACADEMIC

Hi everyone. Welcome back to campus! I'm Pat Duong, your EngSoc VP Academic for the Spring 2017 term! I deal with all things co-op and academic related.

WaterlooWorks Works (as best it can for now)

One of the big goals I have for this term is to help smooth the transition from Jobmine to WaterlooWorks and collect feedback from students about the new system through a survey after the main round. I will be posting ongoing updates about WW this term! CECA has been very open to feedback and they, along with our WaterlooWorks workshop directors, talked about the new functionality of WaterlooWorks and some useful links (see notes: <http://bit.ly/WaterlooWorksQA>). Coming soon

to the university's WaterlooWorks site is a "Response to student concerns page" where concerns based on student feedback will be acknowledged, classified, and prioritized to be fixed! So bring on all the feedback!

Co-op 2.0

Another goal for the term is to spread the word about Co-op 2.0, which are some new changes/additions to the co-op system in the hopes of strengthening the program and making it more flexible for a wider variety of experiences. This has been approved by Senate to include flexible work terms (e.g. the new definition of what counts as a co-op experience is now a minimum of 12 weeks and/or 420 hours) and a research experience certificate (based on completing three research terms, a to-be-developed PD course around transdisciplinary research methods, and a research capstone). The university is currently seeking a pro-

fessor to develop the research PD course, so please let me know if you have suggestions!

WatPD

The Faculty of Engineering has put together a survey on WatPD after consulting students. The survey only takes ten minutes at <http://bit.ly/uwengpd> and is open until May 31st!

Survey participants will be entered into a random draw for Amazon.ca gift cards (a skill-testing question will be required to receive a prize and the odds of winning depend on the number of entries received).

Mental Health Awareness

MATES, a peer-to-peer counselling service, is now in their second term with active engineering volunteers! Drop-in to talk with a MATES peer supporter any time from 8:30am-4:30pm Monday to Fri-

day in NH 2423 or book an appointment at csmates@uwaterloo.ca. They're there for you if you want someone to talk with about stress, relationships, life, or anything else. I am so glad that there are a growing number of resources available to support students' mental health and well-being.

Also, check out our lovely MHA Blog: <https://medium.com/mental-health-uwaterloo>. Want to share your story or to write for the blog? Email Awn at engsocmha@gmail.com.

Got a secret you want to get off your chest anonymously, post-secret service is up: <http://bit.ly/UWPostSecret>

I want to hear your thoughts/opinions/concerns, so if you ever want to talk to me about anything academic/co-op related and otherwise, my office hours are Fridays 11:30 am - 1:20 pm in the Orifice or drop me an email at vpacademic.a@engsoc.uwaterloo.ca. Cheers!

Upcoming Events Calendar

Wednesday May 24	Thursday May 25	Friday May 26	Saturday May 27	Sunday May 28	Monday May 29	Tuesday May 30	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca/event-calendar/
Salary Negotiation with WiE 5:30PM - 7:00PM	Charity Grilled Cheese POETS Licensed 12:00PM - 4:00PM	EngHack 6:00PM - 12:00AM Stargazing 9:00PM - 11:59PM	EngHack 12:00AM - 9:00PM You@Waterloo Day - Open House All Day	Ultimate Frisbee Tournament - Athletics 1:00 PM - 4:00PM	EngiQueers 6:00 PM - 9:00PM	PEO Speaker Panel 6:00 PM - 8:00PM Board Games 3:00PM - 7:00PM	
Wednesday May 31	Thursday June 1	Friday June 2	Saturday June 3	Sunday June 4	Monday June 5	Tuesday June 5	
Council Meeting #2 5:30PM - 7:30PM Info Session - Exchange Advanced Excel Workshop 7:30AM - 9:30PM	Coverall Sales All Day ESSCO Annual General Meeting All Day Charity Pancakes 11:30AM - 1:30PM Life Skills Workshop #2 6:00PM - 7:00PM	Coverall Sales All Day ESSCO Annual General Meeting All Day	ESSCO Annual General Meeting All Day Bonfire 6:00PM-11:00PM	Laser Tag	EngiQueers 6:00PM - 9:00PM	EngProv 5:00PM - 6:00PM AutoCAD Workshop 6:00PM - 8:00PM	

New Term, New EngSoc



**ABDULLAH
BARAKAT**
PRESIDENT

Hey everyone! I hope the start of your term has been going well. In case you don't know me, my name is Abdullah Barakat, and I am your EngSoc President for the Spring 2017 term! This term may only be about 3.5 weeks in, but it sure has been busy! My overall goal for this term is to put the focus back on the students, and make sure that you guys get the best undergrad experience that EngSoc has to offer.

This term, my Executive team and I have decided to create SMART Goals (Specific, Measurable, Attainable, Realistic, and Time-bound), which will increase the transparency of the work that we are doing, and will allow us to be held more accountable to our council. For my goals for the term, I will be reaching out to the various Engineering

departments across campus in order to gain information based on current industry trends and aim to improve upon the services we offer in order to better cater to the programs that may not benefit much from what we offer. I have also been working on improving the structure and overall way that our council operates, which so far has been a success! Furthermore, since mental health is always an ongoing concern within Waterloo Engineering, I have been pushing for and supporting the continued growth of MATES (Mentor Assistance Through Education and Support) within EngSoc, and will work to create a succession plan for future terms with our amazing MATES Commissioner Awn Duqoum.

I also plan on working with the Federation of Students (FEDS) on improving their procedures for the FEDS Council, as well as the Committee of Society Presidents (COPS), in order to allow for a better sharing of best practices and increased efficiency of

their meetings. In addition to that, since Orientation Week is ever-changing and since the dynamics within the university are adapting to these changes, the role of EngSoc within O-Week has been growing. Therefore, I have been working with Rachel Malevich (the B-Society President) on a plan for EngSoc's involvement in this coming O-Week in order to introduce the Engineering Society to the incoming students in the best way we can.

In terms of what I have been working thus far in the term, I have met with Jill Knight, the FEDS VP Internal, to discuss where we see the collaboration between the two Societies going, including a potential change in the Societies agreement that is shared between the two Societies. We are both very open to a lot of positive change, and so I see a lot of potential for us to better represent and serve our students. I have also been working with my counterpart on B-Soc, Rachel, and with Engineering Outreach to run a few workshops with some groups

of high school students in order to further promote the Engineering Society to the broader community and to encourage interest within students prior to them starting at UW. I have also been asked to sit on a committee that is in charge of appointing the Dean of Engineering for the foreseeable future, and so that has taken up a significant amount of my time.

I will end my update by telling you that this term, we will see our beloved mascot, The Tool, turn 50 years old! We will be celebrating its birthday on June 16th in POETS, so be sure to make it out! With all the hype surrounding the Tool's Birthday, we are running a term-long scavenger hunt (which you can find at bit.ly/SCUNT_S17), where you can win prizes like patches, shirts, and 1 of 5 rare PURPLE HARDHATS! The scavenger hunt will be going on from now until Engineering Day (July 14th), where the person who introduced the Tool to Waterloo, Jim Pike, will be attendance!

That's all I have for this issue, catch you guys next time! :)

POETS IS DIM AF

VP Finance Update

MICHAEL BEAUCHEMIN

VP OPERATIONS AND FINANCE

Hello all! I haven't had a chance to thank y'all for not voting "No" in the Fall last year. I know it was a very compelling option, but I'm glad that I'm here to serve you, the Society! In case you missed my campaign last term, I'd like to go through and re-iterate a couple of my goals for this term. I'll split them up into categories below and explain any work I've already made on them, in the first couple of weeks, then I'll end this issue with a non-goals-related update.

Novelties

My three main goals for Novelties revolve around bringing in some new items, because life is better when we have access to more swag (swiggity). You can expect to see a patch design contest launching within a week from publishing of this article. I also have a design for an actual tool bottle opener keychain (courtesy of the fabulous Johnny Normandeau) that I'm going to be looking at getting for

Novelties by about late June. More design contests and massive order votes will be coming soon, but for now y'all can occupy yourselves with the patches. Speaking of, actually, B-Soc has left us some new patches, so come by and check them out in Novelties—open 11:30-13:30 Monday to Friday. Finally, a Square stand will be coming into Novelties as of mid-late June (hopefully).

RidgidWare

This is actually one of my more exciting updates for now, though I never would have imagined it. I had initially planned on just getting some new stuff into RidgidWare and bringing in some DIY kits (I still am planning on this—details coming soon), but I'm currently in discussions with the ECE lab director, Trevor Smouter, to explore the possibility of explosive growth in RidgidWare! There are a lot of details to work out and it's still in early stages, but since ECE stores is closing, there's a lot of stock without a home, and ECE needs somebody to support students with circuits labs. That's where Ridgid-

Ware comes in; we might be taking over a lot of the work for ECE stores and we will be much better stocked for all kinds of side projects. I'll keep y'all updated as we carry on negotiations with ECE.

POETS

I have a new and righteous goal for POETS. RESTORE POWER TO THE PROJECTOR. The projector lamp finally breathed its last early in the term, and we cannot yet get a replacement. There was a new system implemented by the University that has made it harder to purchase things, but we're working on a fix. If you want more details, find me in person in the orifice during my office hours Wednesdays from 8:30-13:30. Otherwise, POETS has already held a couple of board game nights, and though I brought a Wii to use, the DVD drive is broken, so I'm going to be looking into having that fixed so we can get it back out for gaming use.

Miscellaneous

Last, but certainly not least, I've opened up Sponsorship Applications for

the term, and you can now apply online directly through the EngSoc Website, just apply at the link provided at the end of the paragraph and profit! This is part of an effort by myself and Katie Arnold (the lovely off-term VPOF) on the website to improve the quality of life for those attempting to apply for sponsorship from EngSoc or from the Engineering Capital Improvement Fund (ECIF). Applications will be closing early in June, and presentations will be happening June 17th, so save the date!

(<https://www.engsoc.uwaterloo.ca/services/sponsorship-2/>)

Outside of my goal-related things, a couple of important things to share with y'all:

- The budget passed faster than I've ever seen anything pass in council in my entire life, so I'm immensely grateful for that.

- Reimbursements for directors who have submitted expense statements will be issued starting next week.

Signing off for now, I'll see you all in the next issue.

Communication, Representation, Engagement

(And Other Buzzwords)

STEVEN JIA & CELINE O'NEIL

VP COMMUNICATION

Hi friends! My name is Steven Jia. I'm in 3A Systems Design Engineering and I'm serving as your current VP Communications! If you know the last time a SYDE student was an EngSoc executive, please let me know—I'm actually very curious to hear what the answer is.

Role of VP Communication

So what exactly do I do? My role came about after the recommendations of the Executive Review Committee's report were adopted at the 2015 Joint Annual General Meeting (JAGM). The VP Communications takes on much of the former VP External's responsibilities and the former Communication Commissioner's responsibilities. In essence, I am in charge of overseeing the Society's internal communication channels (mailing list, social media,

marketing, website, etc.) as well as representing the Society to external groups.

Over the Winter 2017 co-op term, I did a lot of administrative work on the internal side to get things ready for this term. Working with my counterpart on the B-Society and both Presidents, I revamped our communication guidelines to make them more modern and relevant (<http://bit.ly/miscdocuments>). I've also updated our mailing list categories based on the main types of emails that EngSoc regularly sends out. Many students have told me that they often get too many irrelevant emails, so make sure to update your subscription preferences (<http://bit.ly/mailengsoc>) so we can start using the new categories! One exciting initiative that our social media director Céline is currently running is a design contest for an engineering Snapchat geofilter. If you have some design chops (or even if you don't but have a cool idea), please make sure to submit a design and be entered

to win a \$25 gift card and other prizes! Finally, something that the executive will be trying this term is weekly exec video vlogs. Check them out to stay up to date and watch our first one here: <http://bit.ly/execvlog1>

On the external side, lots has happened since I've started back in January. To provide some context, the Waterloo Engineering Society is part of 2 larger engineering student organizations: the Engineering Student Societies' Council of Ontario (ESSCO) and the Canadian Federation of Engineering Students (CFES). ESSCO is like the provincial-level EngSoc while CFES is the national-level one. Both hold several conferences throughout the year where member schools meet to discuss goals and initiatives, advocate on current issues affect students, and share best practices with each other. In addition to attending these conferences to represent EngSoc, I also select delegates to bring with me. To make this process more

transparent, I trialed a Delegate Selection Committee last term that consisted of two at-large members who met with me to assess delegate applications and conduct interviews. Since the trial was very successful, I will be entrenching this practice into our Policy Manual at JAGM. Regarding the conferences themselves, both CFES Congress and the First Year Integration Conference went very well. The conference reports for both are available on the website, so please take a look if you are interested! Lastly, we have a new conference website that summarizes all of this information in one convenient place. Check it out at www.uwengconferences.ca and make sure to watch the spiffy conference video I made!

If you ever want to chat, my office hours are Tuesdays 11:30am-12:30pm and 3:00-4:00pm, and Thursdays 11:30am-12:30pm. You can also email me at vpcomm.a@engsoc.uwaterloo.ca. That's all for now—thanks for tuning in!

Hip Your Dyad

Peer Review



CAMERON SOLTYS
4A MECHANICAL

PEER REVIEW

What's this? A new column? Surely The Iron Warrior has enough columns already? In fact, isn't it fair to say that we are inundated with columns no one but the author's mother gives a damn about? (Hi Mom!) Well, my dear friend, inundation is exactly the problem. There is too much research going on, much of it made under oppressive circumstances by addicts who will publish anything for just one more hit of alcohol or, even worse, caffeine. That is why I am here. Every two weeks, I pledge to crawl through the congealed mass of muck that is the corpus of scientific research to find the real gems that have been suppressed. Some are hidden to obscure their great brilliance. Others are simply left to rot in the mid-400s of a 1000-page periodical. Whatever the reason, the lack of knowledge of these ideas is a travesty that I demand be rectified.

For this, my first issue, I decided to play it safe and rummage through a journal whose name just screams excitement and hidden gems: PLOS ONE, published by the Public Library of Science. Oddly, the Public Library of Science (or PLOS, as I assume they do not like to be called) seems keen to distance themselves from their journal; my brief tour around the homepages of PLOS ONE didn't even mention the Public Library of Science. It wasn't until after some desperate searching that I found an encyclopedia entry on PLOS ONE on one of the publicly-created web-based digital encyclopedias. Unfortunately for the

long-suffering Public Library of Science, their name was the seventeenth-through-twentieth words of PLOS ONE's entry.

With the mystery of the paper's sponsor sorted, I was ready to delve into the crap pile to find my buried chest of dragon-pirate gold. And I was not but twelve search pages in when I found my gallium cookpot: a spectacular piece by Janelle Wagnild and Cara M. Wall-Scheffler. (If you combined your name with your partner, widow, and re-marry then do you end up with three last names?) It was, as I predicted above, buried below a horribly dull article about the surprisingly effective use of vitamin B12 to fully treat obesity in hours. I had found it. My white whale. My dyad, as it were. (That was a joke. It will make sense once I tell you the title.) "Energetic Consequences of Human Sociality: Walking Speed Choices among Friendly Dyads."

Truly, Wagnild et al. had made a marvelous work. Indeed, I would like to reprint the work in full, but Canadian copyright law being what it is, I doubt that would fall under fair use. Instead, let me regale you with some of my more favourite lines.

Walking, as the abstract of the paper makes abundantly clear, is a serious business. In fact, it is such a serious business that all humans "have an optimal walking speed..." which they rigorously adhere to. Furthermore, since this walking speed is dependent upon the geometry of each individual's body, if a group of humans were to walk together, some (or perhaps all), would have to adopt sub-optimal walking speeds, which is "an energetic dilemma [especially] for mixed-sex walking groups."

The authors of the study go on to describe their experiment, in which they investigate the method by which the

simplest possible human social group, a dyad, overcomes the energy dilemma. Their findings are truly spectacular, so I will cite this portion of the abstract in full (and give new-to-InDesign Editor-in-Chief Vince Magas the opportunity to flex his skills trying to set up the long-neglected "large quote" format):

"Our findings show that males walk at a significantly slower pace to match the females' paces ($p = 0.009$), when the female is their romantic partner. The paces of friends of either same or mixed sex walking together did not significantly change ($p > 0.05$). Thus significant pace adjustment appears to be limited to romantic partners."

To be clear, my engaged readers, so far I have told you of nothing but the abstract. The paper itself, as I said before, is quite long, so I can only share with you some highlights. Rest assured, however, that their research is comprehensive and complete. For instance, instead of just assuming that romantic couples will walk closer together and therefore more slowly than non-romantic couples, "[leading] to an energetic impact for both sexes," they find two different sources to reinforce their claims. Such rigor would be well-observed by the co-op students who will be half-assing their work reports in just a few short months. And lest you be concerned about coercion and intimidation by the study authors affecting the results in any way, I can assure you that the participants "signed written informed consent forms

approved by Seattle Pacific University's IRB Committee" before any walking was undertaken.

The depth of the research performed for this paper is immense. The researchers tested seven different types of walking that could occur, ranging from a pair of same-sex or opposite-sex friends walking together to a heterosexual romantic dyad (I expect the applicability of this phenomena will be extended to homosexual partnerships in a follow-up work) to a heterosexual romantic dyad holding hands. (On that note, I rescind my derisive comments on the consent forms, recognizing the intense emotional pressure these couples suffered to bring us these results.)

The authors, much to their credit, are keen to discuss the limitations of their findings. For instance, it would not be applicable to some participants: "Unfortunately, not all Partners (sic) had Friends (sic)..." Nevertheless, their conclusions are serious and far-reaching. For instance, the observation that men slow down for their romantic partners is consistent with the thrice-supported fact that "the female reproductive system is sensitive to even the slightest energetic perturbations." (Curiously, the fact that sperm production is independent of energetic expenditure is only once-supported.)

Perhaps most significantly in a world that is increasing fraught with mass-migrations of people fleeing wars, famines, and oppression, the researchers find an unfortunate conclusion. With that in mind, I shall end my paper as they ended their abstract: "In energetically demanding environments, we will expect to find gender segregation in group composition, particularly when travelling (sic) longer distances."



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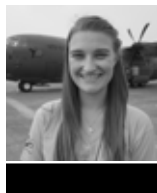
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In The Field: Living Under A Rock



GABRIELLE KLEMT
2N GEOLOGICAL

IN THE FIELD

Hello and welcome to this column. For those of you who don't know me, I'm a second-year geo-eng with very little clue about most things rock-related. This summer, I landed a sick job working for the Ontario Geologic Survey and I am getting thrown hat over boots into a whole new world: 12 weeks in the wilds north of Lake Superior, 12.5 hours from Toronto. Stick around as I go from a rocky start to a gneiss geologist, or maybe at least a respectable geo student!

This summer I'll be facing deerflies, horseflies, blackflies, mosquitoes (and possibly ticks but I seriously have my

fingers crossed against these!!), but I'll also be seeing the Northern Lights, swimming, hiking, and learning the highest form of self-discipline: not scratching my bites! And what am I up in the middle of nowhere to do? Mapping Precambrian (AKA very old) bedrock, which I have zero experience in.

I'll be going there in two weeks, but first I have to train. Survival, health and safety, boating, and how to use bear spray (that was a fun session!)... not to mention learning to drive an ATV and haul a trailer behind an F150. Have I mentioned that I've never even sat in the driver's seat of a pickup? Then there's the small matter of what I got myself into: lots and lots of rocks. We spend at least three hours a day talking rocks in our free time, talks in which I can contribute only questions...

For our two weeks of training, we're living in Sudbury at Laurentian. To

anyone who's ever told me that this is not a nice city, they clearly weren't paying attention to all the outcrops throwing themselves out of the city's landscape like they're trying to reclaim the land. Today after dinner, I went on a 5-minute hike from residence and wound up on a cliff looking out over Ramsay Lake. I stayed until sunset and then trooped home. No, I haven't seen the Nickel yet, but I'm giving it time. I can't wait for this long weekend to barbeque, go swimming, and get to know my field crew who I'll be living with for the next few months!

As I learn more about batholiths, orogenies (and I do know what you just thought you read), granites, and what exactly mapping means, I'll be telling you in an effort to give myself some meaning and maybe giving you some laughs.

Batholith: a bunch of igneous rock that

is formed in magma in the earth's core and pushes its way to the surface.

Orogeny: one formation process for mountain caused by tectonic folding, faulting and bringing rocks from below the crust to the surface.

Midcontinent Rift: a rift that formed about 1.1 billion years ago under North America. The middle was basically beneath Lake Superior and it's responsible for some of the weird rock formations I'll be looking at this summer.

Granite: (the definition that doesn't include "good for countertops"): a coarse-grained rock composed of quartz, feldspars, and micas.

Gneiss: a high grade metamorphic (it's been through some stuff) rock that usually has *gneiss* bands of alternating colours, visible along the highway in the Canadian Shield. Pronounced "nice"... get the pun?

Nuclear-Obsessed World Leaders Will Be Nuclear-Obsessed World Leaders



RAEESA ASHIQUE
3A ELECTRICAL

North Korea tested another intermediate-range ballistic missile on Sunday, May 21. According to state-run news agency KCNA, it was overseen by leader Kim Jong-un, who "approved the deployment of this weapon system for action." They also quoted him as proudly saying that "the missile's rate of hits is very accurate and Pukguksong-2 is a successful strategic weapon."

"South Korean and U.S. intelligence authorities believe North Korea has se-

cured meaningful data in enhancing the credibility of its missile technology," said Roh Jae-cheon, a spokesperson for South Korea's Chiefs of Staff, adding that they will need to further verify whether the North has in fact developed functional re-entry technology.

The missile traveled 560 kilometres towards the sea of Japan; Japanese news agencies say it likely fell into the water. This is notably a shorter distance compared to the previous three tests.

Last week's missile traveled 700 kilometres. North Korea claimed that it was a new type of rocket capable of carrying a large nuclear warhead.

On Saturday, they said that they are capable of hitting US mainland, and on

Monday, added that Hawaii and Alaska are also within range.

Sunday's missile test was the eighth this year, and already the second since May 9 when Moon Jae-in became South Korea's new president. Moon campaigned on reversing the country's previously strict policy of dealing with its northern neighbour which has been implemented for the past nine years, and advocated for engagement. He has already assigned people to reach out to Kim, and is also trying to restore the country's relationship with China. China is North Korea's main ally.

Early last week, the UN Security Council demanded that North Korea desist, saying that they need to "immedi-

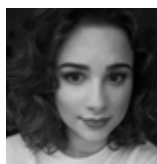
ately [show] sincere commitment to de-

nuclearization through concrete action." The Council met again on Tuesday, as per the request of the US, South Korea, and Japan.

President Trump is currently on a nine-day foreign trip, but is aware of the situation. He has said previously that they will use any means to stop the North's efforts to send nuclear warheads to North America. US Secretary of State Rex Tillerson said they will continue applying economic and diplomatic pressure.

It is well-known that North Korea is developing nuclear weapons and missiles capable of delivering those weapons to target location. Both endeavors violate UN sanctions.

Masterplan 2.0



SPENCER ANN BUTLER
2T MEMEOLOGY

Over the course of the past couple months, I have taken advantage of the 8 hour workday by taking the time between working on projects to map out my own "Masterplan." I was encouraged by a friend who was inspired by Elon Musk to take time to write it all down. I presume Elon sat down one day and basically wrote down "okay, this is what I'm going to do: I will do x by 20xx, I will create a fancy-ass environmentally friendly car by x priced high as a luxury product until the technology can trickle down into the masses, etc." And then he did it. Bloody Elon Musk. I swear to god I will never be fantasized about by a man to the degree to which they fantasize about Elon Musk

Another notable person who wrote a master plan: remember that time Hitler literally wrote a book called "Mein Kampf" outlining his political ideologies and future plans. They should have just let him go to art school, man.

I have been playing around with these articles a lot of inspiration which are worth a read:

"Creating a Personal Masterplan" - Josh Kaufman

"Ideal Lifestyle Costing" - Tim Ferriss

Anyhoo, after numerous iterations I have reached a format that I am satisfied with:

A) There are the 5 categories (I have created 5 but of course more/less could be used): fitness, social, financial, spiritual, beauty.

I am still deciding whether this is too many to focus on at once, yet at the same time I think we are always going to be juggling a certain number of categories to work on in our lives. Therefore I think the idea is to focus on one thing within each category such that effort is actually focused rather than becoming overwhelmed by the sheer infinity of possibilities one could hope to attain within that category.

B) Within each category, a 6 month project is taken up. Within this, a two week experiment or system is implemented.

This was inspired by a comment by Tim Ferriss I liked when I was browsing his podcasts. I'll cite which one in particular. He spoke of how he personally used this method for his goal setting and I found these smaller numbers and less intimidating labels (project rather than goal, experiment rather than e.g. "diet") resonated better with me. A short-term experiment is less intimidating than the prospect of changing one's entire lifestyle for infinity. Further, I would argue that small changes cause a chain reaction of change and the two week experimental time frame may cause a new habit within itself.

I think it is also important to note that these projects should be defined in a way such that even if they are overly ambitious within the timeframe

allocated, they are the actual dream goal that one wants to be aligning their life with. The projects should be defined such that even if the ultimate goal isn't realized, one will have still developed useful skills along the way-inevitable success!

C) Each experiment will be monitored with a daily report—a few lines on how well one has stuck to the experiment, thoughts for future iterations/actions to stick better to the experiment, roadblocks encountered with the experiment, and what went well.

These reports will be reflected on at the end of the week (let's say Friday), a habit encouraged by many successful people in business. Here one will consider improvements/changes to the experiment that could lead to greater success.

An example using the Financial Aspect:

6 Month Master Plan

6 Month Project:

Have enough money to rent an apartment in Toronto in September

2 Week Experiment:

Spend absolutely no money on food (source food at home from groceries, no eating out, buying coffee, buying lunch, going for dinner with friends, etc.) This is because I have noticed the majority of my reckless spending is spent on food (\$400 in a month??) due it allowing for instant gratification, etc. This problem is sourced in my disorganization so to

solve this I will:

-pack lunch the night before
-do proper grocery shopping for the week

-create more time in morning for breakfast (maybe plan outfit night before?)

Daily Log

Monday 13th - Successfully spent no money today. Brought cereal from home to work and used kefir from last week. Brought protein powder from home which kept me full (note: never buy chai flavoured vegan protein power yuck), as well as leftovers. Ate an egg breakfast at home in morning.

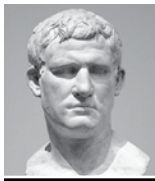
Tuesday 14th - Was super hungry, and not for the cereal I had at work. Went to Longo's and bought sardines for the week's breakfast (linked to beauty goal), crackers and splurged a bit on self-serve breakfast. Was disorganized the night before; I'm so tired when I get home I put off getting organized for the next day and say "I'll wake up early and prepare" but I never do. How do I solve this?

Depending on what you prefer, this masterplan may be great stored on a google doc and/or a dedicated notebook. I always find writing stuff down on actual paper feels great and you could always have it with you.

Another great practice to start would be to do a morning and nightly review of the masterplan. Start your day by meditating on your goals to focus your day and make your dreams a mantra.

May & Maia Goddess of Growth & Warmth

ACTA DIURNA VI



**GAIUS LUCIUS
AGRIPPA**
10B CONSUL

ACTA DIURNA

Salve citizens of Waterloo, I Gaius Lucius Agrippa welcome you once more to the Forum Romanum in our glorious city of Rome! On this day of Maius, in honour of the flowers of spring and the Roman goddess of growth Maia, we bring you the sixth article of Acta Diurna. To celebrate the youth of spring and welcome new life, we will speak of the Roman festival of Rosalia, and of Rome's goddess of springtime, growth, and increase.

Since the time of the early Romans, Maia has been a part of our pantheon of deities. The Osci (Italic people of Campania

and Latium adiectum) from the south of Rome, knew her as an earth goddess, and the Greeks from across the Adriatic knew her as a nurturer. The Greek tradition describes Maia as the daughter of Atlas, the Titan condemned to hold up the sky, and of Pleione the Oceanid Nymph, oldest of the Pleiades. Maia is also known in the Greek custom as the mother to Hermes, as described in the Hymn to Hermes when she had an affair with Zeus which led to the birth to Hermes in the cave of Cyllene. Maia is also to the Greeks known to have raised the child Arcas, son of Zeus and Callisto, who taught the people the art of weaving and baking.

In the Roman world, Maia is known and honoured by many names and also lends her own name to the modern English month of May. In Latin, Maia stems from the word maius or maior (comparative of

magnus) meaning 'larger' or 'greater'. In the earlier days of Rome she is often invoked in prayer with the god of fire and metalworking Vulcan. Often in different traditions Maia is also associated with the goddess of the earth, Terra, the good goddess Bona Dea; in some cases she is also associated with the great goddess or great mother, Magna Mater, also known as Cybele. In some cults, Maia has been associated with the prophetic goddess Fauna or Fatua, of the woods and groves, nurturer of creatures; and by extension with Ops the earth goddess of bounty and the wealth of the earth. Similar to the Greek tradition, Romans also see Maia as the mother of the god Mercury (the Roman equivalent of Hermes) who is known especially in May as a patron of merchants, commerce, eloquence, and a bringer of growth in profit.

Although May as a month is often attributed to and celebrated in honour of the goddess Flora, Maia is often honoured by Romans during the first of May alongside Flora during Floria, when Romans wear garlands of flowers (especially roses) around their necks. Maia is also frequently celebrated during the birthday of her son Mercury during the Ides (15th) of May, after the feast of Lemuria. During the Ides of May, a joint sacrifice is often made to both Mercury and Maia that occurs throughout the merchants' festival that takes place.

Maia, although mostly forgotten in the modern world, has lent her name to this month of May. To many ancient Romans, she ushered in new life, growth, and the warmth of spring. Many sentiments and joys that people in this modern world can still share with us Romans!

Seams Unusual: Lolita Fashion



TAYLOR LINDBLAD

SEAMS UNUSUAL

Welcome to Seams Unusual, the first in a series of articles that will be uncovering interesting and uncommon alternative fashions from around the world. Each installment will look at hallmark aspects and distinguishing features of the unique style, as well as a short history on how it all began and tips on how you can start putting together your own alternative outfit.

In celebration of the very first Seams Unusual, I'll be kicking off with the look that is most near and dear to my heart: lolita fashion.

By far the frilliest alternative style out there, it draws inspiration from the Victorian and Rococo eras. Lolita fashion is unafraid of layering on decadent ruffles and luxurious lace. The common silhouette of a lolita outfit (or "coordinate", in lolita terms) is comprised of a headdress (usually a large bow), a blouse, a knee-length skirt or jumper skirt with an all-important cupcake shaped petticoat—or three!—to give the most adorable amount of poof, stockings

or knee-high socks, and feminine shoes. For the cherry on top, a coord is completed with the addition of a cute purse and loads of lovely accessories. As lolita fashion aims at being sweet, youthful, and demure, those who follow the style are sure to avoid showing skin as much as possible—no exposed shoulders, no bare legs, and no cleavage. Furthermore, high, narrow heels, modern clothing, and drab, boring pieces have no place here.

Although it is still just gaining popularity in the Western world, lolita fashion is certainly not new to the alternative fashion scene. Its roots can be traced back to the 1980s on the streets of Harajuku in Japan. While the history is a little fuzzy and it is still unsure when and why it was given its name, there is a vague agreeance that it was spawned from the ladylike, more casual "otome" style, and "visual kei", a movement where Japanese musicians wore outlandish costumes and extravagant hairstyles and makeup. The first lolita-specific brand, Baby, the Stars Shine Bright, opened in 1988 in the Shibuya district in Tokyo and has been going strong ever since, opening more locations across Japan as well as internationally in Paris, San Francisco, and New York.

Like most alternative fashions and subcultures, lolita fashion has its own

spin-offs and subgenres within itself. The most popular of these subgenres is "sweet lolita", which uses a pastel palette, sugary motifs, curly wigs (often in pigtails), and shimmery makeup, including circle lenses for a doe-eyed look and fluffy false eyelashes. Sweet lolitas are often seen with candy-shaped jewelry and heart-shaped bags, sporting the cutest spin on the lolita style. This is the substyle that Baby, the Stars Shine Bright caters to, as well as another highly popular lolita brand, Angelic Pretty. The two substyles that are the most prominent after sweet lolita are "classic lolita" and "gothic lolita". Classic lolita makes use of a more muted colour scheme of neutrals and jewel tones, with less focus on cutesy prints and more solids and florals. The giant hairbows and colourful accessories of sweet lolita are swapped out for rose hair combs and strings of pearls. Classic lolita is easily the most mature and old-fashioned in appearance of the varying substyles. Gothic lolita is exactly as it sounds: the love-child of the dark, macabre gothic fashion and the romantic, frilly lolita fashion. With predominantly black or grey pieces and favouring symbols such as bats and crosses, gothic lolita is in almost complete contrast to sweet lolita. Of course, these three subgenres are just scratching the

surface of the variety of lolitas to be found in the worldwide community; believe it or not, sailor lolita, military lolita, academic lolita, country lolita, princess ("hime") lolita, and even styles based on traditional Chinese and Japanese attire ("qi lolita" and "wa lolita", respectively) are among the many other branches of lolita fashion. There is even a boy-style version, called "kodona lolita", easing up on the frills and swapping out skirts for shorts. However, kodona seems to be mostly worn by women, and men who have adopted lolita fashion into their wardrobes tend to favour the usual bonnets and bell-shaped skirts common to the style.

Due to the amount of detail, materials, time, and effort needed to create such decadent pieces, lolita is not the cheapest alternative fashion around. Since many lolita stores don't ship internationally, it can also be notoriously difficult to get your hands on brand garments. The options to travel to Japan or use an online shopping service are always open, but just add to the cost of acquiring even basic pieces. Between prices for a new brand-name dress being in the range of \$300 - \$500, the miserable state of the loonie, and ridiculous shipping fees, it may seem impossible for anyone outside Japan to join in on this fabulous and fun fashion. But where there's a will, there's a way, and North American lolita communities certainly have their share of will. Facebook has numerous second-hand sales groups floating around with many members willing to meet at local universities, parks, and subway stations to save on shipping. The foremost second-hand lolita auction site, Lace Market (found at egl.circlly.com), has hundreds of users from all over the world selling their gently used and often mint-condition brand and off-brand pieces at a half to a third of their original price (or, if you're lucky, even less!) and offering international shipping to boot. If all else fails and your wallet has more dust bunnies than dollar bills, you can always thrift a sewing machine and whip up some of your own one-of-a-kind lolita garments. Rather than scoffing at your penniless lack of brand, the friendly lolita community will be proud of your efforts and delighted by your skills and designs!

In this modern age of tight leggings, plain tops, and body image issues, lolita fashion can provide whimsy and confidence to your wardrobe. For many, it acts as a loud way of fighting insecurities and expressing themselves. As a wonderfully exciting style, I would urge anyone to try out lolita fashion; it might just be your cup of tea.

KITCHENER WATERLOO



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Why iOS is Going to Beat Android

Electro-Nick's Electronics

NICK OWENS
1B MECHANICAL

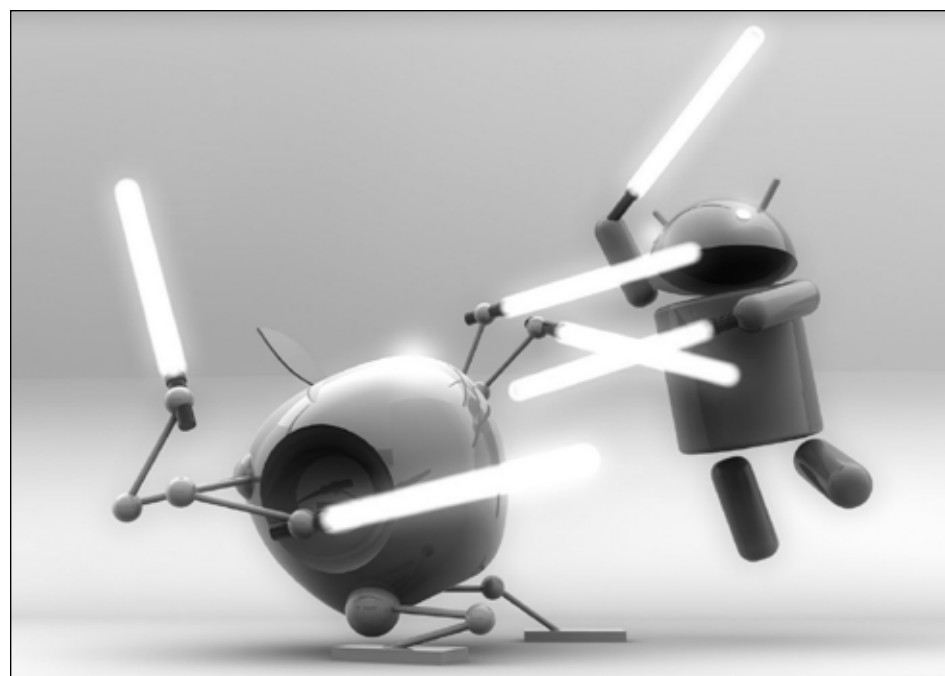
iOS vs Android: it's been the hot topic of debate ever since proto-humans first discovered Ye Old Electronics Store. But which system is really going to succeed? Any completely unbiased person would be able to tell you that Android is smooth, fluent, and user friendly while Apple offers virtually none of these aspects with their products. But despite the slow, unergonomic, downright mind-numbing features coupled together into what we know as the iPhone, iOS is still destined to win the cellular war. But why? Is it due to Apple's clever marketing schemes? No. It's due to something far more insidious. Dating.

In recent studies, iOS users proved less likely to date someone who doesn't have an iPhone. Surely, this means the death of Android as a platform. Of course, you might be thinking: "That's absurd. I'm the proud owner of an Android phone and know how much I'd prefer to have one than the significant other of my dreams." But think of it this way: Android users who were tested did not show quite the same bias that their iOS counterparts

did. This could only mean one thing. A sinister plot.

Years ago, Apple unveiled Siri, their virtual intelligence software. Now it seems unlikely that shortly after, Apple users began to feel less attracted to Android phones. Coincidence? Maybe, and not everybody uses Siri...but of course, that is all part of Apple's master plan. Siri psychologically influences iPhone users to stick with their own kind, while others mingle among the competition, simply to ensure that their children become part of the conglomerate. A long-term plan, but with time, it ensures a day where every person has an iPhone, MacBook, and Beats Headphones. Ladies and gentlemen, the days of Android, Windows, and even Oranges are numbered.

Of course, the only way to fight fire is with fire, or in this case, with a sinister plot. In this reporter's opinion, I'm proposing a full coalition between Android and Axe body spray to create a pheromone enriched phone that will subliminally lure people away from Apple products and back to the right side. Before this can happen, though, Android users must do their part. Check your partner's phone immediately. Don't let



Source: Wallpaper Safari

The only way to fight fire is fire, or in this case, with a sinister plot

them fall victim to iOS. And if you're on a first date, remember: if it isn't Android, it isn't worth your time. It's the only way to ensure a future where all phones are user friendly.

Now, you must keep in mind that this

is only my opinion, but you can trust my opinion. Remember, I'm an expert.

Now get out there and stop Apple.

Editor's Note: This is a completely unbiased article written by an unlicensed "professional"

Broskies on Brewskies: The Revival



Well, here we are again. Donovan and Tristan drinking beers and writing down thoughts. That's some freakin' front page news there folks. It's been a while and we're glad to be back after Tristan's leave of trans-continental absence. In case you missed it, or are new to the Broskies fanbase, Tristan did his 3B term over in Germany and had a ziemlich good time. We also want to dedicate this issue to the memory of Chris Cornell who passed away today. Soundgarden is one of Donovan's all-time favourite bands.

On to the beer though. We're coming back in a classic fashion with a German Blonde from Sawdust City Brewing Company. It's called the Gate Way Kölsch and is just a fine beer. Light in flavour and easy drinking, you could drink a lot of this beer and not have to love it. The ease with which this beer goes down is its greatest strength, and at 5.0% alcohol by volume you could find yourself a little drunker than you'd expect. We unanimously scored this beer 3/6 Beers, meaning that we would drink it again, but would not seek it out.

A friend of Tristan's in Germany explained to him the subtlety of local beer politics, and an important point is that drinking Kölsch is a declaration of allegiance to the city of Cologne. They have a bit of a rivalry with the nearby town of Duesseldorf, where they drink

Altbier. You have to be careful about what you order where, lest you get laughed out of a nice local pub!

Our next beer is Crosswind Pale Ale from the Lake of Bays Brewing Company in Baysville, Ontario. Tristan enjoyed this beer so much that he stopped midsentence to exclaim his enjoyment. I however do not love it as much. It has a nice citrusy flavour, which Tristan finds attractive and I do not. Undertones or hops and a general sweetness lead to an overall enjoyable taste. It has a bit more body to it than the Gate Way Kölsch though, and probably isn't something that you'd want to drink more than two or three of in an evening. We compromised on our rating for this beer, and came to the decision of 5/6 Beers.

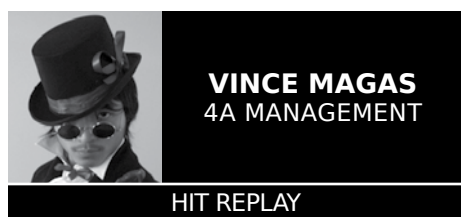
By a cruel twist of fate we ended up

with another beer from the Lake of Bays Brewing Company. The Broken Axe American Pale Ale is an absolute beauty though. Lighter than its cousin, the Broken Axe combines a hoppy pale ale taste with lighter citrusy tones to create a marvelous flavour. Lake of Bays once again knocks it out of the park. A nice malty aftertaste follows the main event and doesn't disappoint. We gave this beer 5/6 Beers and are seriously considering a trip up to the Lake of Bays Brewing Company.

Well that's it for this issue. We hope you enjoyed it, and any of the craft beers you've tried recently. If you know of a brew that you think we should absolutely try please shoot us an email at ironwarrior@uwaterloo.ca. 'Til next time please, please, PLEASE taste responsibly Broskies.

Boat Shoes: Somewhere Beyond the Sea

Hit Replay



We return once again this term to Hit Replay! The term is just about started and we are finally by some warmer weather! Let's hope the summer sun welcomes us, and the summer breeze keeps those sails high. This week on Hit Replay, we go to a favourite that has made a marvelous comeback not just on polished yacht decks, but also as everyday wear for us who prefer grass-covered parks, and white-sand beaches. That's right, this issue of Hit Replay looks to take you somewhere beyond the sea with boat shoes! Sperry Top-Siders, we're looking at you!

So just how did boat shoes come about? Very similar to the history of last issue's Jean Jackets, boat shoes were initially a utility-focused article of clothing. Prior to the invention of boat shoes, sailors and

boatmen struggled to keep a firm foothold on the decks of their boats. The 1930s changed all this with the invention of the modern boat shoe, by one Paul Sperry. Paul Sperry was an avid boater, who became determined to develop a non-slip shoe after slipping and falling overboard while sailing one day. His design of the boat shoe was inspired by his Cocker Spaniel, Prince. It all started one winter day in Connecticut, when Sperry took Prince out for a walk, and was amazed at how Prince managed to run across ice without slipping. The traction Prince managed to generate off the slippery surface caught Sperry's curiosity. Sperry examined Prince's paws, and realized that the grooves on Prince's paws resembled that of a herringbone-pattern that gave them their grip. It was from this that Sperry decided to cut a similar pattern on the soles of his shoes for boating.

In 1937, Sperry applied for a United States patent for his shoe. Initially, he offered the patent to the United States Rubber Company, but was ultimately turned down due to the sole being

expensive. Sperry then tried his luck with the Converse Rubber Company in Boston, who agreed to make the blank rubber soles for Sperry. The blank rubber soles would then be siped (the process of cutting grooves in rubber to improve traction) by Sperry, and the rest of the shoe would be assembled by the Converse Rubber Company. Sperry later on developed a machine for cutting the herringbone-pattern onto the soles and launched the project in his spare time, still maintaining a full-time job in the process. Sperry also advertised his shoes to his fellow members of the Cruising Club of America, and was met with overwhelming success. He received requests for shoes from all 500 members at the time. This inspired him to start a mail-order business for his shoes. In the next few years, Sperry continued to develop the shoe, and work closely with the United States Rubber company in developing a rubber compound for traction that could more easily be siped. This new rubber compound was also developed to be white, so they would not

mark the decks of boats. Perry worked alongside the Commonwealth Shoe & Leather Company on a new design using a specially tanned leather that would incorporate the iconic saddle on the shoes where raw-hide laces were pulled. The iconic Sperry Top-Sider design was now complete.

In 1939, Sperry's shoes gained popularity and credit to the extent that the United States War Department specified his shoes as one of the official shoes of the Navy. A deal was eventually negotiated for the Navy to be able to manufacture the shoes for its sailors.

The shoes never really faded in popularity but have certainly taken a back-seat since their conception. It is without a doubt that they have made a resurgence in recent years! The popular footwear has gone beyond its classic look, appearing in a multitude of styles and varieties. The top-siders have also gone beyond boat decks and are worn daily by many on land. Perhaps you'll grab yourself a pair this summer and rock a classic look from the 1930's!

The Iron Crossword

Delicious Feast

CAMERON SOLTYS
4A MECHANICAL

1	2	3		4	5	6		7	8	9		10	11	12
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ACROSS

- 1: Goes well with green eggs
- 4: Snake that killed Cleopatra
- 7: Sound of living beef
- 10: Small amount, especially of a liquid
- 13: "We ___ the engineers!"
- 14: View
- 15: Bobby ___, famous NHL player
- 16: Greek letter used for density
- 17: Lemon-and-vinaigrette sauce for salad
- 21: Hot drink made from leaves
- 22: Material with very little inter-molecular interactions
- 23: Education Television (abbr)
- 24: Metric unit of power
- 25: Cheaper alternative to taxis
- 28: As opposed to credit
- 31: Solid remains of a fire
- 32: Religion of the Prophet Muhammad
- 34: ___ off, in golf
- 35: What a fisherman does to their line
- 39: Method of preparing squash or potatoes
- 41: Liquid precipitation
- 42: At all times

- 43: Drop, especially a football
- 45: Freed or loosened
- 48: Organization that makes many international standards
- 49: Command
- 52: "___ is me!"
- 53: Word denoting a particular person
- 55: ___ Lo, Scandinavian singer
- 56: Clean
- 57: Reindeer
- 59: University in Cambridge, Massachusetts
- 60: Vase, especially one that holds ashes
- 61: Canada Day, Good Friday, or Christmas Day
- 67: Era
- 68: Another name for a DUI (abbr)
- 69: Fish eggs
- 70: ___ Wan, Star Wars character
- 71: ! (A || B)
- 72: Range of sight or knowledge
- 73: Tailless ape
- 74: Wired Equivalent Privacy (abbr)

DOWN

- 1: Helicopter Association International (abbr)
- 2: A painting or sculpture, for instance
- 3: Used to verify the proper cooking of animal proteins
- 4: Largest continent on Earth
- 5: Large body of salt water
- 6: Antarctic bird
- 7: Mouthful
- 8: Concentrated seam of useful minerals
- 9: Otherwise (abbr)
- 10: Allows one to eat without leaving ones car
- 11: Korean family name meaning "tranquility"
- 12: Quagmire
- 18: Allow
- 19: Press lightly, especially to clean
- 20: Health problem caused by fornication
- 24: "This means ___!"
- 25: Method for communicating with a deaf person (abbr)
- 27: Infamous university student staple
- 29: Maker of honey
- 30: Organization with the motto: "Ideas worth spreading"
- 33: Dallas Mavericks (abbr)
- 36: Room set up to perform experiments
- 37: Used to store grain or thermonuclear weapon
- 38: Helium or nitrogen, for instance
- 40: "Game, ___, and match"
- 43: End
- 44: Country to the south of Canada
- 45: Tube for urine disposal
- 46: Fish that mass off Newfoundland
- 47: Used to open a door
- 50: Realm
- 51: Mean or ill-intentioned
- 54: "The Book of ___," 2010 movie
- 56: Prefix relating to three
- 58: Crazy person
- 60: Short for Ulysses
- 61: Not a real number
- 62: Earlier
- 63: Everything but south
- 64: Object-oriented programming
- 65: 16th President of the United States (nickname)
- 66: "___" Avatar: The Last Airbender exclamation (Same word twice)

Sudoku

#2017-05-23

VINCE MAGAS
4A MANAGEMENT

Medium

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

Hard

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

Very Hard

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

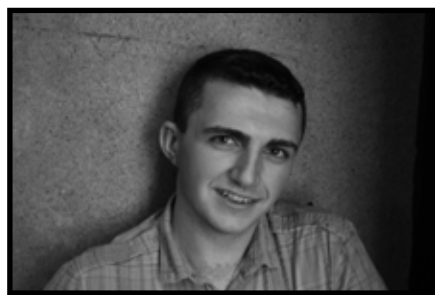
Solutions for previous crosswords can be found on *The Iron Warrior's* website at iwarrior.uwaterloo.ca/distractions.

THE IRON INQUISITION
Emilia Jiao, 2B Management; Vince Magas, 4A Management

"What are your Summer Goals?"



"Drop my fire mix"
Amanee Syed, 2B Management



"Not spend all my money on food"
Andrew Dickson, 1B Mechanical



"Getting my bod ready to swim in the E2 fountains"
Elsie Eskandar, 2B Management



"BUY GRADCOMM PIZZA!"
Jake Harvey, 4A Mechanical



"Sky Dive"
Noshervan Ahmed, 1B ECE



"Do a PD quiz before the night it is due"
Shwapneel Ishraq, 1B ECE