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You Need to Vote on June 12 and Here's How



Flickr @knehcsg

Election Day is June 12. If you are eligible to vote, bring your supporting documents to your polling station and vote!



NANCY HUI 4A CIVIL

WHEN do I vote?

Provincial elections are on Thursday June 12. Advanced polls and special ballots were last week so it's too late for that now.

WHO can vote?

If you are over 18, a Canadian Citizen, and a resident of Ontario, and have not voted in the current election, you can vote. You can vote in the Region of Waterloo

f you live here even temporarily

2) Show one piece of ID with your name and photo, and another document with your name and address. The first piece of ID can be a health card or student card. The second piece of ID can be a hydro bill, signed rental agreement, tuition statement, government cheque, or university correspondence addressed to you at your temporary address. Perhaps you have one of those lying around.

If you live in residence, a letter will be provided by the University of Waterloo to you, stating that you currently reside in Waterloo.

3) Take an oath and have a bro vouch for you. Aforementioned bro must be **REGISTERED** to vote in the same riding as you. This bro may only youch for one other person during the election.



WHERE can I vote?

Since you missed the advanced polls which were conveniently in the SLC June 4 and 5, you must now enter your temporary address here to find your electoral station: faq.elections.on.ca/faq/ performsearch.do?type1QuestionId=1

WHAT do I need to bring with me to vote?

Hold on to your knickers; this is complicated.

You need to prove three things: your name, your photo, and your address. You can prove these things in multiple ways:

1) Show a piece of ID with your name, photo, and address on it, like a passport, or a driver's licence. This is probably not an option if Waterloo is only a temporary home.

WHY should I vote?

There are some interesting pieces of legislation up in the air, including those involving tuition grants, new public sector jobs, and public transit.

Kitchener-Waterloo is also the only three-way race in the entirety of Ontario, as confirmed by several analysts. That is, no party leads by more than three percentage points.

However if you don't vote, you are forfeiting your moral right to complain when the party you hate most wins, because you are partially the reason they won. Way to go. <Insert least favoured party here> will be sending you undecided and inactive voters some flowers and thank-you baskets to thank you for not aiding their enemies. ENJOY YOUR PANSIES, YOU APATHETIC PING PONG PADDLES.

Public transit, along with education and the Ontario Tuition Grant are among the priority issues for students in the Kitchener-Waterloo riding, the only three-way race in the province.

Danielle Scott

Second Issue and Finally Voting



NINA FENG EDITOR-IN-CHIEF

Hello there reader. Hope school's been alright. Hope life's been alright.

So here's the second issue of the Iron Warrior this term. In many ways, putting this thing together went better than the first one. It took slightly less time, and there was very little to do in terms of initial set-up. Computer still bluescreened three times, but no harm done; been saving very frequently. In fact, it kind of gave me a nice 2-minute break each time. The fact that I wrote this Sunday evening and did not scramble to do it Monday morning is a good indication of how things went. Granted, I probably should be writing these before production weekend even begins, but procrastination is apparently my way of life.

The number of late articles increased dramatically this time around, probably since people are starting to get busier and busier with schoolwork. I myself still had two lab reports and an assignment due Monday that I could not start until Sunday evening, as well as two interviews and a presentation to prepare for later in the week. If I weren't EIC, I probably would have skipped out on newspaper stuff as well. As frustrating as can be sometimes, it's understandable, especially since a fair bit of you were ill. That being said START GET-TING YOUR GOSH DARN ARTICLES IN ON TIME, THOU ARTLESS CLAY-BRAINED BARNACLES! I BITE MY THUMB AT THEE! Seriously, though. I reserve the most ire for those who don't turn in articles at all, despite having said they would (I'm guilty of that too... sorry previous editors). Luckily, these cases are rare.

Thanks so much to Nancy Hui, the absolute bad-ass who wrote three articles, made the crossword, and still managed to come in and do Iron Inquisition and copy edit the majority of the articles in WordPress. Thanks also to Elizabeth Salsberg, for getting two columns written along with copy editing in my time of need. You both rock, never change (within reason, of course). I seriously doubt that this thing would have been finished in time without your help.

This issue covers quite a few topics, gu the most notable being the provincial election. Remember to vote if you can, and if you so choose to. If no party or candidate appeals to you, maybe the Point-Counterpoint will help you decide your course of action. Be sure to check out the EngSoc updates, as they're always informative and it looks like they have a lot going on this term. This includes the Joint Council

Meeting, the ESSCO conference, various events, new stuff at the Novelties shop and, for those of us tired of Jobmine (i.e. everyone), switching to WaterlooWorks.

We're also reporting on some of the things going on around the globe, including the anniversary of the Tiananmen Square Massacre in Beijing, the World Cup troubles in Brazil, and the recent Syrian election, occurring right in the midst of their civil unrest.

Vincent Magas' Hit Replay is back, telling tales of the record player this time around. We also have a new column addition! Meagan Cardno is writing Game of Thrones Conspiracies, delving into the many theories surrounding Martin's epic tale and its TV show. Read these at your own risk; spoilers are a given.

Moving on to the topic of this letter, which also seems to be the theme of most of this issue: the Provincial Election. Or rather, my boring run-of-themill election experience.

As someone who likes to be informed on such things, being allowed to actually have a say in the election results (albeit a small one) was kind of exciting. This was my first time voting, as I was just shy of 18 during the last election (also provincial) in Fall 2011, when I was in 1A. Eighteen-plus-two years of my life leading up to this. Alright not really, but there isn't much else that we get to do when turning 18. We're legal adults, yes, but it seems like 16, 19, and maybe 21 come with more incentives to survive to those ages. In Canada/Ontario, we reach the age of consent at 16, and are allowed to drive. Age 19 comes with what many might consider the fun stuff: buying alcohol and smokes by yourself so you don't have to rely on other people to get it for you. You can start getting into clubs without a fake I.D. and there's the added bonus that you no longer have to convince people that your name is actually McLovin'. Not that any of that applied to me anyway. Those teenage years were as boring as they could get.

Age 18 is a bit trickier, a little more obscure. I suppose getting away with criminal activity does become substantially harder at that age. An 18-year-old can go to jail for something that a minor might just get a slap-on-the-wrist for. We can join the (regular) armed forces without parental consent. You can also appear in porn once you turn 18, so I guess that's something to look forward to if it's in your future aspirations. For those of us for which none of the above applies, there's not many more new privileges than voting. Well, that and we can also go see certain movies without being accompanied by an adult, because congratulations, we ARE adults! While the voting age has lowered from its roughly pre-WWII value of 21 years old, 18 is still arguably a haphazard number to set

it at. Being a legal adult by no means ensures one's ability to make an informed decision when choosing a political position or candidate to vote for. Perhaps the voting age can be further reduced in the future, a debate that has already begun.

Either way, with the way things are now, I'm of age and fully intend to exercise these newfound rights from here on out, unless I ever feel that it's more effective not to. I voted at the advance poll held at the SLC on June 5, and it was every bit as exciting but also anticlimactic as I'd imagined it'd be. I actually hadn't known they were occurring until a classmate mentioned it (thanks Amy!)... I really have been on the ball lately. Plus I wasn't sure that I had the right support documentation to vote. Despite how much pain Bell internet has given me over the past few months, their bill sure came in handy as the utility bill/ proof of me living in Waterloo. Deeper research into the candidate platforms had to occur pretty quickly, but I like to think it was an informed decision.

I didn't decline my vote, as I'd previously been considering. This was partially because I didn't dislike the candidates equally, and also partially because I wanted my first ever vote to be an "actual" vote. So there, I did it. I performed my duty as a citizen in a democratic election. I drew an "X" on the piece of paper, folded it as per the diagrams given and placed it in slot on the cardboard box. It meant very little as an individual, but I guess it adds up when we do it en masse. That's the thing with our current system of government. While certain individuals can exact a decent amount of influence, the average, 'regular citizen' can only spark change when joined by a large number of other citizens that are similarly insignificant individually. As I walked out the door, the kind lady thanked me for voting, and for the next few minutes I felt that I did a good thing, which perhaps I did. I keep hearing that it's better than not having done anything at all in any case.

Whatever your plans for June 12, do what you think is most effective. It's your choice whether you vote Liberal, PC, NDP, Green, or none of the above (not to be confused with None of the Above, an actual political party in this province). Just...do whatever. You're allowed to.

Thanks for reading this slightly incoherent, choppy, sleep-deprived musing with no discernable point. If you've made it this far, I applaud you. I'm not sure what I hope to achieve with future editorials, but it'll hopefully be more interesting with more substance. I was going to write about dinosaurs this issue, but I changed my mind. Perhaps I'll do it next issue, or the one after. Good luck with midterms, see you next issue!

FIRON WARRIOR

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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*

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

Freedom to Know: Tiananmen Square Massacre



EAH KRISTUFEK 3N CHEMICAL

Few of us in the western world could forget the iconic image of a man staring down a line of tanks in an otherwise empty street. The Tiananmen Square Massacre which happened 25 years ago on June 3rd and 4th, 1989, was the government response to pro-democracy student protests that were taking place across China. Government troops open fired on the camped protesters officially killing 246 people, although the true number is thought to be closer to 2000.

In China discussion of the events that took place 25 years ago is heavily censured and records of the events have practically been erased from the public memory, not to mention the history books. Students learn about China's triumphs, new advances in technology and industry, but seldom are they encouraged to look back. As the quarter century anniversary approaches, veteran activists have found themselves under house arrest and the families of the fallen protestors are being watched closely. They have limited access to Tiananmen square and their loved ones graves. In Hong Kong, Victoria Park was packed with people bearing witness. Organizers expected some 150,000 people to attend a candle light vigil on Wednesday night.

The early 20th century philosopher George Santayana wrote "Those who cannot remember the past are condemned to repeat it" in 1905. It is common in communist countries for history books to be re-written and talk of the past forbidden. Protestors both in China and Ukraine are looking for very similar things: a stop to corruption and political favoritism. They



Even as the 2022 FIFA World Cup host (Qatar) is being reconsidered after prolonged investigation of bribery, the 2014 World Cup remains mired in controversy mere days before its commencement. Kind of like a student held back from graduating under Policy 71. Remember, kids: self-expertize, don't plagarize!



Iconic images such as that of "Tank Man" have largely been censored in China.

want freedom of speech and freedom of movement and the chance to attain prosperity similar to many EU countries. Democracy often comes at a very high cost. The bloody protests in Kiev's Independence Square this winter just goes to show how little things have changed.

Despite censorship, the internet is breaking through the iron fisted rule of the Communist Party of China (CPC). Social media sites such as Facebook (blocked in July 2009) are valuable parts of communication networks for activist groups. In fact the internet is such a threat to the CPC that the Tiananmen square massacre anniversary, June 4. is a day when the internet grinds to a stop known as "Internet maintenance day". The internet can be a life line of anonymity, connecting those in China to activists who have fled to places with less censured internet.

Protesting is dangerous. Physical reprisals, prison time, house arrest and death are all potential consequences of speaking out. The harder activists struggle the more the CPC tightens it's grasp. One man, not a student but a laborer who attended the protest, is believed to still be in prison. For many families silence is the price for peace of mind. When journalists asked Chinese academics about Tiananmen square protests, many were completely ignorant. Others only vaguely knew what had taken place.

The Tiananmen Square Massacre is not the only big event being remembered this month. June 6th was the 70th anniversary of D-Day, when troops scaled the beaches of Normandy, changing the course of World War II. That too was a struggle for freedom, freedom from occupation and freedom from the problems caused by extreme taxation after the first World War. It is a future worth fighting for.

Brazil: A Bloomin' Brouhaha

high-speed rail rail link between airports and cities. These infrastructure links were especially important to the World Cup, considering that Brazilian organizers have scattered the games across the entire country rather than clustering them. Now athletes may have to carpool through gridlock like other working class plebes. Heavens forbid that they show up late for the game and screw up the television networks' broadcast schedules.

Behind Schedule

Stadium construction behind is chedule. Airports in nearly 12 host cities are teeming with construction workers installing parking lots, check-in counters, and overdue expansions. Meanwhile, stadiums are still struggling to set up cellular networks for tens of thousands of tourist smartphones. Temporary bleachers in some stadia have still not been tested under their designated load. Although Brazil is in hot publicity water right now, it will be nothing if a bench fails and sends fans plummeting to their deaths - or at least indignity. In total, only half of the projects promised for the World Cup have been delivered, and many of these are only partially completed. In school this would be what is known as a "FAIL". Fo' shame In particular, Rio de Janeiro, which is to host both the World Cup this year and the 2016 Summer Olympics, is overwhelmed by deadlines. Between 30 000 and 170 000 families in Rio de Janeiro have been forcibly relocated, with little compensation provided and incomplete

relocation plans prepared. At least when Brazil abandons its stadiums after being unable to pay for the upkeep of overpriced green technology, the displaced families can begin squatting in in the facilities.

High ticket prices are also taking Brazil's World Cup away from the lower classes - which is ironic because football is only the most popular sport in the world by virtue of low equipment requirements. Brazil has negotiated a 50% discount for students and the elderly, but this is not enough. However, World Cup regulations also require that no World Cup merchandise of any sort is sold within 2 kilometres of a stadium, and that broadcast of events is limited to bars sponsored by the official beer provider of the World Cup. This will suck for actual Brazilians because aforementioned bars will be full of tourists; watered-down, overpriced beer, and obnoxious product placement.

The World Cup kicks off on June 12th in Sao Paolo! Hopefully it will be an excellent opportunity for FIFA executives to reconsider selecting Qatar as the 2022 World Cup host.

Overbudget

Seven years ago, a budget of \$13.3 billion was established for the tournament, with the majority to be spent on infrastructure to support the World Cup, including highways, transit, airports, and seaports. Since then, most of the budget has been blown on stadium development - particularly in the implementation of "green" technology and renovation of existing grounds. But as green as they are, solar panels don't grow on trees. Neither do the pricy water recycling facilities retractable stands. Furthermore, or maintenance of these space-age stadiums is expected to be 10% of their construction cost. One doesn't need to take engineering economics to understand that this greatly increases the net present value of the project.

Furthermore, 13 of the 50 original infrastructure projects have been scrapped as a result of budget overruns, including



Fotos GOVBA January, 2014

The 2014 World Cup in Brazil has been plagued with money problems, construction delays, and public unrest.

Brace Yourselves - Joint Council is Coming!



Hello again everyone, I hope you have been enjoying your term so far. Midterms are right around the corner, and things are getting busier than ever for EngSoc!

Our Joint Council meeting is coming up in two short weeks, the day after Summer Leader Retreat, on Sunday June 22nd at 10am in DC 1351. Some changes that are being proposed include the adoption of new governing documents, which are being recommended by the Governance Review Committee. This motion, if carried, will result in an election being held at the meeting for eight Board of Directors' seats: four for A Society and four for B Society. Elections are also being proposed for two Chief Returning Officers, and for the at-large members

for an Executive Review Committee. The Executive Review Committee will be responsible for objectively examining the current EngSoc executive structure and proposing a rearrangement of the executive duties, including the creation or retirement of executive positions. If you are interested in running for any of these positions, please read the Joint Council material available on the Society website and come out to the meeting! Be prepared to present a very brief speech detailing your interest in the position and any experience or skills you have, whether they be EngSoc-related or not. All interested students are encouraged to attend and run, regardless of whether or not they are class reps!

Also coming up at Joint Council is a motion to create a Teaching Excellence Award. The Engineering Society is hoping to begin the process of recognizing teaching excellence in the Faculty of Engineering, whether that be by a professor, lecturer or lab instructor. This new policy, if adopted, will regulate the termly formation of a Teaching Excellence Award Committee, which will collect nominations from students and present the award to one winner per term. The winner will then be nominated for further awards both campus-wide and externally. It is the hope that this recognition of exceptional teaching will motivate instructors to work to increase student satisfaction with their lessons, and allow those who go above and beyond to be recognized by the student body in a meaningful way. This will also hopefully increase exposure of Waterloo Engineering teaching excellence to the rest of Waterloo and to external groups.

Two more big things that the Engineering Society is trying to adopt are Mission and Vision statements, which serve to define the purpose and direction of the Society. These have been written and rewritten over the past three years by six previous sets of executive, and are finally ready to be presented and adopted! These will also be voted on at Joint Council, and hopefully be incorporated into the new bylaws to be preserved for years to come.

In other news, Leadership Award applications are still open until June 15th – that's this Sunday! The award description, nomination package and eligibility requirements are all available on engsoc.uwaterloo.ca. The award is \$1000, so please be sure to check it out before the deadline!

All Joint Council items and awards mentioned in this executive report are available on the Society website at engsoc.uwaterloo.ca. If you have any questions, or have anything else you'd like to hear about or ask me, please shoot me an email at president.b@engsoc. uwaterloo.ca, or come by the orifice anytime! Talk to you soon B-Soc, and I hope to see you at the meeting!

ESSCO Epiphany: How ESSCO Benefits the Average Engineering Student



A question often raised about the Waterloo Engineering Society's membership in the Engineering Student Councils' Society of Ontario (ESSCO) is the following: "What does ESSCO actually do for the average engineering student at Waterloo?" Sure, it's evident that ES-SCO benefits the students who attend its four annual conferences. However this is typically only about 40 students out of over 6000 engineering undergraduates, or 0.7% of the undergraduate population. So, what benefit are the other 99.3% of students getting? I myself asked this same question until a recent epiphany I had this past weekend at ESSCO's Annual General Meeting answered it: ESSCO offers unparalleled leadership development, as well as the generation of new and well-used services for our members.

An ESSCO conference generally consists of several presentations targeted at developing an aspect of a school's

Engineering Society. For instance, at the First-Year Integration Conference (FYIC) in 2013, Queen's University gave a presentation regarding their successful First-Year mentoring program. The following Fall, Waterloo implemented its own version of Queen's First-Year mentoring program, which was successful in helping numerous First-Year students develop their academic, social and professional skills. Other services the Engineering Society provides that have been directly implemented from sessions at ESSCO conferences include the Textbook Library and plans on how to implement a Career Fair. Note that these ideas were heard and implemented during the 2013-2014 school year. If you were to look back a few years, many more services undergraduate students use every day were probably the direct result of an ESSCO conference.

Other important sessions that occur at ESSCO conferences are Forums, which are an opportunity for Ontario Engineering schools to discuss solutions to issues that their engineering societies face. For instance, this past weekend at ESSCO's Annual General Meeting, a forum was held on inclusivity in Engineering Societies. A huge problem many Engineering Societies face is that their organization appears to certain students as clique in which only a certain "type" of person may be a member. The reality is that every engineering undergraduate student is a member of their Engineering Society, regardless of their background or personality. As such, it is the Engineering Society's responsibility to ensure that it is providing events and services that appeal to its entire student body. The inclusivity session focused on brainstorming practices that should be eliminated, as they alienate students from their Engineering Society, as well as those that make the Society more inclusive for its members. The ideas generated during this session will be used to ensure Waterloo's Engineering Society is benefitting each one of its members.

From my experience with Waterloo's Engineering Society, it is evident that many of the leaders working diligently to improve the Society's services have gained significant leadership development from ESSCO's conferences. On both 'A' and 'B' society combined there have been a total of 9 Directors, 3 Commissioners and 4 Executives that have attended the First-Year Integration Conference in either 2012, 2013 or 2014. That is 16 student leaders whose contributions to the Engineering Society have been improved directly by ESSCO. In turn, having strong leaders for the Engineering Society ensures that the services it provides to its members will be of the highest quality.

All in all, the benefits of the Engineering Society's membership in ESSCO to the average engineering student are evident: ESSCO benefits engineering students by indirectly introducing services to improve student life, as well as by providing personal development for the leaders who implement these services. If you are interested in being part of the provincial discussion that moves our Engineering Society forward, be sure to apply to attend ESSCO conferences, the next being ESSCO's Professional Engineers Ontario Student Conference in November 2014! Email me at vpexternal.b@ engsoc.uwaterloo.ca if you are interested in applying.

					Upcomir	ng Events	Calendar
Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Check out up-to-
June 11	June 12	June 13	June 14	June 15	June 16	June 17	the-day event

EngSoc Meeting #3 17:30 - 19:30 <i>DWE 3522</i> Coffee House 19:30 - 22:30	Bollywood Dance Workshop 18:00 - 20:00 POETS	GradComm Event 11:00 Freezie Friday 11:30 - 13:00 POETS	GradComm Event			Puppy Day 11:00 - 13:00 POETS De-Stress Yoga 18:00 - 20:00	postings on the EngSoc website at engsoc. uwaterloo.ca
POETS		FOLIS				PAC Studio 2	
CONVOCATION	CONVOCATION	CONVOCATION	CONVOCATION	CONVOCATION	HELL WEEK	HELL WEEK	ENGINEERING S
Wednesday June 18	Thursday June 19	Friday June 20	Saturday June 21	Sunday June 22	Monday June 23	Tuesday June 24	
		Freezie Friday 11:30 - 13:00 POETS	Summer Leader Retreat	Joint Council 10:00 - 13:00 DC 1351		WiE 3D Printed Keychain Workshop 17:00 - 19:00	
		MOT 19:00 - 21:00 POETS				EngSoc Hockey 17:00 - 18:00 CIF	
HELL WEEK	HELL WEEK	HELL WEEK					

Google Maps on WaterlooWorks!



PERMEG KENTH **VP EDUCATION**

Hey there everyone!

In this issue I would like to talk to you about WaterlooWorks. Last week I got to take a look at a demo of the new software and it looks really good. In my opinion it looks much better than JobMine. This software will be bestowed upon us in the fine term of winter 2015. I know a lot of you have questions about WaterlooWorks hence this article will give you the information about the software and I will also be clarifying some of the rumours about the changes we will see.

Let's start off with an introduction

to WaterlooWorks. The Co-operative Education & Career Action's (CECA) purchased the system from ORBIS Communications in order to replace the existing recruiting system (JobMine). During the development stages CECA consulted students, employers and staff before making any process changes.

As all of us have heard that WaterlooWorks is completely different than JobMine and this is because of the new features that are being introduced:

• Jobs can be opened in multiple browser windows

• 24/7 access with planned outages (similar to those on Learn for updates/ maintenance)

· Advanced job search/keyword job search

· Save individual job searches i.e. search

for jobs and save the list you searched so you can come back to it

• Save a job list that has a particular criteria and get notified when new job is posted that meets your job list criteria.

• Employers have the opportunity to comment when ranking.

• Unlimited PDF resume uploads

• Upload cover letters separate from resumes (upload more than one document when applying for jobs)

• Employers have the option to post the salary in the job description.

 Google Maps is available when looking at the job positing to locate the company and directions from the place of interest.

CECA kept in mind priorities listed by the students and made changes to the new system. Some of the changes and feedback points are in the table below.

Even though WaterlooWorks is a completely new system the overall co-op process is not changing. The tool used to apply for jobs is different but the posting and application period, interview process, and other co-op processes will remain the same. One of the process changes is the one free "no rank" per term. This gives students the opportunity to decline a position after they have been ranked (a valid reason will be needed and shown to the employer). This can only be done once in a term per student.

We are planning to set up a booth with CECA in the CPH foyer in the first week of July. So look out for that. If you have any questions about WaterlooWorks or any other academic concerns come see me in the orifice or send me an email on vpeducation.b@engsoc.uwaterloo.ca

Priorities	Outcome
Ability to distinguish between jobs that are new, already applied to, short-listed, etc., e.g., by colour coding or other methods	Each job will have indicator tags identifying if they are new, have been viewed, applied to or shortlisted.
Ability to review more than one job at a time, i.e., to do side-by-side comparisons	Jobs can be opened in multiple browser windows to allow for comparing/contrasting of postings.
Enhanced filtering/ sorting capability, including the ability to progressively apply search criteria to your job results list to further refine it	Will be able to sort search results by location, keyword, work term duration, program or level.
Ability to create your own categories to assign jobs to (besides "short-list") or add notes to jobs	Not included due to level of customization required and associated costs. Can shortlist jobs as well as mark them as not interested (to remove them from search results). Can also save search criteria.
Ability to save and re-use job search criteria, plus automate searches to run at prescribed intervals to alert you of jobs meeting your criteria	Included. Students can save search criteria and choose to be notified by email if a job meeting the specifications is posted. Students can also re-run multiple or single saved searches at the same time.
Key-word search - easier to use and ability to search beyond what's currently displayed on the screen	Two separate keyword searches were added, one that searches location based fields attached to jobs and one that searches job details to match inputted keywords.
Ability to identify jobs with a potential "best fit" or "score" based on your profile information and desired search criteria	Students will be provided with links to jobs posted by their program. The "best fit" feature is still being explored, and will hopefully be introduced in the future.

GINEERIA

VP Winternal Update



by the Engineering Society office (CPH 1327) to sign up! It's \$15 for undergrads and \$20 for alumni/faculty/staff, and it gets you a bus ride to and from Toronto, a lunch before the parade, a sweet tiedyed shirt (you can tie-dye it yourself if you come to our tie-dying workshop on Thursday June 26th), a sweet patch, a standard-issue rainbow flag, some colourful beads and a noisemaker, as well as enough water to keep you hydrated all day while marching! Needless to say it's going to be an unreal experience for anyone going, this year it's not just the 'Toronto Pride

Patches and T-shirts and Contests, OH MY!!



Howdy all y'all engineers out there!! I hope everybody has had an awesome first month of class!!

I am pleased to say that the Novelties design competition is going very well so far. We have received a lot of in the past.

Remember that the contest ends on June 22nd, so there is still time for you to submit cool ideas!!

In other Novelties news, there will be a firesale happening sometime after midterms - the details will be on Facebook and in my next IW article. The details will include time (probably lunch hours), day (TBD), place (probably CHP foyer), and the price reductions for the items on sale (who knows?).

Semi-Formal is also going well! We've confirmed that we'll be running it in conjunction with MathSoc, and that it'll be at Turret nightclub on Laurier campus on July 18, so get excited for that as well!

Hello friends! Some cool things have

been going down in my neck of the

woods. We've finalized the date for

TalEng! It's going to be on July 7th

now, and it'll be held at the Bomber here

on campus! They have their summer

appetizer and drink menus out so it'll

be a grand ol' time! The planning for

Some neat events that are coming up in the next couple weeks are Coffee House on Wednesday June 11th (the ever! day this paper comes out!) following People the EngSoc meeting, and a Bollywood a r e Dance workshop on Thursday June 12 in POETS. After that we arrive at hell week, but on Tuesday there will be a destress yoga session and puppies to pet! Hell Week will end with the Middle of Term party in POETS, and the week after that on Tuesday the 24th there's likely going to be an EngSoc Hockey game!

Now as alluded to in my last article, World Pride is coming up fast! We've ordered some sweet shirts and patches, as well as a loads of other swag for people who come on the trip. Oh, and TICKETS ARE ON SALE NOW! Swing

making the trip from all the over globe to part of be a weeklong this celebration, and it's going to be ridiculous!

Parade', it's World

Pride, and this

is the first

time that it's

being held

in North

America

That's all I'll say about it for now, in the next IW I'll give a rundown of the day itself and all the craziness that will surely ensue. Have fun getting ready for midterms and such, good luck!

submissions!! Don't great forget, we are also looking for more department specific patches, so if you have an idea or concept for a patch that would represent your department well submit please your idea!! You email can an image (jpeg, png...) vpfinance.b@ to engsoc.uwaterloo.ca, or if you have a handdrawn picture then you can drop it off in the Arts mailbox in the orifice. If you want to submit an image but you don't have photo editing software (MS Paint might not cut it) there are many online platforms you can try. I have had good luck with designing patches in pixlr (http://pixlr.com/editor/)

My final Novelties update is that we will be replacing the travel mugs with a new design once all of the current stock is sold out!! The new design is much sleeker than the old one. I would like to give a huge shoutout to Kevin McNamara for ordering these on A-soc, he really picked a great replacement design!

Within the next week I will be opening up ECIF applications, so if you have a good idea for a capital purchase to improve student life on campus I want to hear about it!! I will also be opening up Sponsorship applications soon so if you are involved on a student team that needs a little extra funding stay tuned!! The total funding for ECIF is 5% of all student fees, which is approximately \$2000, and the Sponsorship funding totals \$5000.

That's all for me this week! I wish everyone the best of luck on midterms!! Study hard and pass all your classes!!

Hemp: A Study in Sustainability

LUCA WILLMER RESEARCH TERM

Recently I found myself and some friends in a discussion about the government's role in promoting sustainability, in light of the recent reports on climate change. One of them mentioned the controversial history of the hemp plant and how the Canadian government has recently changed its legislation on the matter. My research led me to an interesting case study in environmental economics and government regulation.

Hemp, or Cannabis, is most widely known for producing the drug THC, which is a large contributor to the black market in North America. As it turns out, however, the plant exhibits some other remarkable properties more suited to agriculture and industrial cultivation. A December 2003 report on Cannabis from Agriculture Canada states:

"[Hemp's] advantages are hard to beat: it thrives without herbicides, it reinvigorates the soil, it requires less water than cotton, it matures in three to four months, and it can yield four times as much paper per acre as trees. Hemp can be used to create building materials that are twice as strong as wood and concrete, textile fiber that is stronger than cotton, better oil and paint than petroleum, clean-burning diesel fuel, and biodegradable plastics. In addition, it can produce more digestible protein per acre than any other food source." Early colonizers of North America embraced the crop as a reliable source of durable food and fabric, so much so that it was considered a staple for early settlers. In the early 20th century, however, growing concerns about the dangers of smoking marijuana led to strict regulations on who could legally grow cannabis. For a long period growing and cultivation of Cannabis was illegal. This law persists in the United States

The root of this problem lies in the distinction of different species under the genus Cannabis. Unlike poppy plants and opium, where offending species can be easily identified, all Cannabis plants contain at least some psychoactive compounds. Theoretically, all Cannabis has potential as a drug. This is a serious problem for any regulating authority.

In 1994, Canadian businesses and provincial governments came together to research hemp cultivation, and in 1998 it was re-authorized by the federal government. As it turns out, the optimal strains for industrial use (hemp fiber, seeds, and oil) consistently contain levels of psychoactive compounds so low that it would be nearly impossible to use them for illegal purposes. Today, a simple chemical analysis can verify these levels so that registered cultivators may grow this crop legally.

Although the majority of hemp grown in Canada today is bought by the health



Hemp is a remarkable, sustainable plant with multiple applications.

foods industry, a number of other fields are gaining serious momentum. A 2005 summary of industrial hemp by the government of Canada outlines numerous research projects designed to progress the production possibilities. These include efforts into developing hemp pulp and paper, packing material, insulation, and ceiling tiles, as well as optimizing the economic benefit via more efficient cultivation practices.

To me, this is a true example of scientific progress and public interest

overcoming obsolete government practices for the benefit of the environment. Surely hemp alone will not save the world of its environmental issues, but in my opinion applying the same basic principles on a much broader scale would be a huge step in the right direction. A little scientific thought and a critical approach to government goes a long way - and I cannot think of a better group of people than the future engineers of the world to make this a reality.

Political Reform Important for Development

IAN MURRAY 3A ELECTRICAL

EWB is an organization that accelerates development by innovating systems. It's an approach that has evolved out of observation: that no amount of commodity (be it shoes, wells, job-training, whatever) can alleviate poverty as long as governmental, market, environmental, and other kinds of societal systems are failing. Decades of the traditional charity-based model of the commodification of aid has only resulted in increasing demand for aid. Meanwhile in America since 1966 the bottom 90% has only had an average gain compared to inflation of \$59, while the top 1% has almost tripled their income. In Canada, the distribution was more equal throughout P.E. Trudeau's time, but from about 1987 on has been similarly disproportional. Many ideas

of classical economics like the GDP, the value of energy (oil is sold in the US Dollar and Nixon detached it from any physical meaning in 1971), or inelasticity of certain market supplies such as the labour force, aren't working to provide indicators of social growth or development of society, but they're still prevalent in the narrow rhetoric of our political institutions.

Over the past half century, institutional values and concerns have become more removed from more people's values and concerns. The realities of work and personal life become disjointed. It's reflected in the

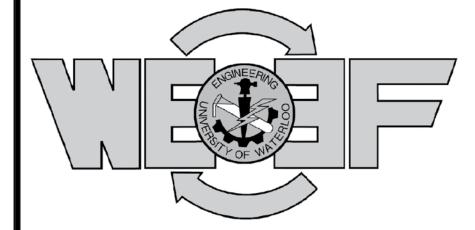
growing amount of people who have no faith or participation in our political

institutions especially. Just how well is our democracy currently functioning? Not comparing policy, but the integrity and value of our system, in 1933 30% of the German population elected Hitler to a minority government while in 2011, 16% of the Canadian population elected Harper to a majority government. Hitler had some work to do to get absolute power as a leader. In our institution, a majority government means that there is majority of parliament which, as members of the political party led by the prime minister, have to vote in unity with

the prime minister. The executive branch of government is meant to provide a higher level of oversight than parliament, but is also controlled by the prime minister.

The previous winning electoral strategy, as commented on by Harper, was to the convince support bases which they knew would support them to vote. The PC's public messaging is limited to short-term economics and ill-defined public growth. The Liberal's strategy has been to moderate and dilute policy to have the widest support base possible. The NDP's strategy seems to be to convince support bases that they're Liberal. And nobody's voting Green in a first-past-the-post system anyway. How do we engage?

For development's sake, the systems of the society need to respond to their citizens. Whatever your engagement may be, development demands of you the responsibility to give the institutions something to respond to, and something systemic.



Deadline for submissions is FRIDAY JUNE 27TH 2014.

Submit designs to <u>weef@uwaterloo.ca</u> or the EngSoc office (CPH-1327)

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Design Contest run by the Engineering First-Year Office, and the Waterloo Engineering Endowment Foundation (WEEF)

Should Disenfranchised Voters Still Vote?

4A MECHANICAL

POINT

With the provincial election right around the corner, more and more voters are becoming disenfranchised with the three main political parties. Voters are tired of the bickering, vote buying, politicking, and general dishonesty of the Liberals, the Progressive Conservatives, and the NDP.

Many people will accept this as a fact of the democratic system, and choose not to cast a vote. This is not the right course of action. There are three better ways to show your displeasure with the current parties in Queens Park.

The first is to vote for a fringe party. In the Kitchener-Waterloo riding we have the choice of Stacey Danckert from the Green Party and James Schulz from the Libertarian Party. There are currently only representatives from the three main parties sitting in the Ontario Legislature. Elizabeth May of the Federal Green Party has shown us how much of a difference just one fringe party representative can make. She has a disproportionately powerful ability to make her voice heard in the provincial legislature.

A second option is to spoil your ballot. You can spoil your ballot by identifying yourself, marking more than one option, or destroying your ballot altogether. It is generally perceived that you are not able to follow simple instructions, and should not be taken seriously.

A much better option than spoiling your ballot is declining your ballot. From the Ontario Elections Act:

"An elector who has received a ballot and returns it to the deputy returning officer declining to vote, forfeits the right to vote and the deputy returning officer shall immediately write the word "declined" upon the back of the ballot and preserve it to be returned to the returning officer, and shall cause an entry to be made in the poll record that the elector declined to vote. R.S.O. 1990, c. E.6, s. 53."

Declined votes will be tallied and counted separately from spoiled ballots. It is an intentional way to show that you displeased with the current situation, and care enough about it to show up to a polling station. A declined ballot has a clear message, and it will be sent to the decision makers of our province.

If we look at it from the perspective of mainstream party policy makers, we will see them trying to grab votes. Nonvoters have always been considered a lost cause for parties, the amount of work to convince them to vote is much more than convincing someone who voted for a different party. When these policy makers see that a significant number of people declined their vote, they will try to target this demographic. The biggest hurdle of getting people to the polls has been overcome when policy makers target these voters who declined.

Here is where your voice can be heard, as they reach out to understand more about this new engaged demographic, you can express your displeasure with any part of the current political system. These parties want votes, you have them. They will listen and form platforms that will move towards positive change. A new engaged demographic is the best thing a party could ask for, so this is your chance to be part of that.

A disenfranchised reader may believe that elected officials never listen to voters' concerns. That is a valid belief, but if they were to listen at any point, it would be while preparing for an election. This idea also revolves around the concept that the Canadian democratic system is not entirely broken.

Let's assume for a moment that voting in the present Canadian democratic system is a futile action and decision makers never listen to the concerns of the electorate. If this is the case, I do not see it changing any time soon, not enough people are ready to start the revolution. The only feasible way to change this today is work within the existing system to push for change.

A voter should practice their ideal form of democracy whenever possible. Since everyone's ideal form of democracy will be different, it is hard to generalize. In my ideal form of democracy, voters should not be forced to vote for someone they do not support. They need another option. A declined vote is this option. I encourage the disenfranchised reader to consider what their ideal form of democracy would look like. If that vision includes voting "none of the above", a declined vote in this election will support that vision. It won't change everything right away, but it is progress in the right direction. You have to start somewhere.

Not voting is analogous to deferring your vote to the general voting public. By not voting, it is generally perceived that you are ok with letting others elect someone to represent you. It is also perceived that you are ok with everything going on in Ontario right now. This is fundamentally different than a firm "I don't support the current parties" provided by a declined vote. Voting in the current system is a game of generalizations. All Progressive Conservatives are not the same, just as all vote decliners are not the same, and all those who choose not to vote are not all the same. But the generalizations are still

FILZAH NASIR 3A ENVIRONMENTAL

Let me begin this with a qualifier: I vote. At every election since I turned 18 (the arbitrary age at which I am considered mature enough to participate in this activity) I have dutifully headed to the polls to check off the name beside a candidate whose policies I mostly disagree with in order to prevent the candidate whose policies I completely disagree with from being elected. Ta da! I have performed my civic duty. Now I can go hide from politics for the next four years.

Voting is heralded as the most important act of political engagement we can participate in. After all, everyone gets an equal voice and together we get to collectively choose our leaders and governing parties. What possible reason could one have to reject this opportunity? Those who do so are considered poor citizens who don't take their civic duties seriously. In certain countries there are even fines for not voting. Which is ridiculous. I'd like to take this opportunity to argue that the act of not voting can be just as (or more) powerful a political statement as casting the ballot.

The arguments for not voting are wellknown and vast. Among the most common is the far too often realization that the choices of candidates and leaders simply do not reflect our vision. What to do, when say as a struggling student all you'd like is to be able to graduate university without thousands of dollars of debt and the best a political party is able to offer you is a tuition freeze at current levels, (\$14000+ a year for UW Engineers!)? Clearly, no one meets the requirements of what you're looking for in someone to represent you. Proponents of voting will tell you the answer is simple: Reject your ballot! Go to the polling station and don't check of any of the candidate names. Make it clear that you are not satisfied with any of the presented ideas. But while rejecting a ballot will make your disagreement with the current choice of candidates clear, it will show a tacit agreement with the system of voting itself. And I for one would like to question that system.

Let's pause for a second to understand Canadian "democracy." Canada has what is termed a representative or parliamentary democracy. In this system voters go to the polls every four years or so to choose between a set of candidates to represent their local region. Most of these candidates belong to a federal (or provincial) party. The party with the most candidates elected becomes the governing party and its leader the Prime Minister (or premier). The governing party now has the right (as granted by "the people") to rule for the next four years and implement any regulations they choose, change any policies and basically follow the whim of the party leader until the next election when they will have to justify (or hide) some of their actions to the public. This sounds exaggerated but you only need to consider the actions of the current Canadian government under Stephen Harper to understand that within Canadian "democracy" a governing party can pretty much do as they please. From partisan politics, to the idea of representative democracy itself, there are obviously a lot of problems with this system and it wouldn't be hard to understand why someone might disagree with it completely. I, for one, would count myself in that category. So what use is rejecting a ballot to those of us who'd rather do away with the system of

COUNTERPOINT

representative democracy altogether? What if I'd rather we as a society work towards a world of direct democracy and collective decision making (suspend your ridicule for a moment and work with me here)? What do we get out of voting – even if it's to reject a ballot? Not much. In fact we might harm our own cause by voting and tacitly claiming we are okay with the current system.

But let's step away from theoretical discussions of representative vs. direct democracy and re-examine the system we do have. The question we're discussing is whether disenfranchised voters should reject their ballots as a form of expressing their discontent. Here's my issue with that statement: the idea that disenfranchised voters will always exist. Disenfranchisement describes the denial of a right or privilege, most commonly used to describe denial of power. So a disenfranchised voter is one who feels that they have been denied the power their vote should have.

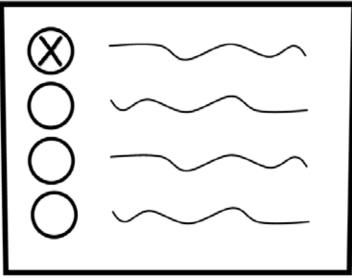
I would argue that within the current political system, all voters are disenfranchised. And this is a problem that is directly tied to the concept of voting itself. Think back to a high school civics class when you were first taught the about the political system. We learned the roles of all the different actors, the Prime Minister, the House of Commons, the Governor General, the Senate and even the Queen. Each of these people played an important role in the political system. And what about us the average citizens? Our role was to elect the people who played the important roles. This is what we have been taught as the main way to engage in politics – by voting. Other forms of political engagement, from petitions to protests and direct action (and writing news articles) are rarely taught.

And this is a truth that proponents of voting rarely seem to catch on to. Important political change rarely happens through transfers of government. Throughout most of history in fact, political change has happened through groups of people engaging in the political systems outside of the box that is deemed appropriate. From the anti-apartheid movement in South Africa, to the end of Vietnam War in the U.S. and even the Quebec tuition strike, it's easy to see that political change is actually brought about by recognizing that we as citizens hold power, not just the ability to mark a ballot.

So yes, disenfranchised voters can reject their ballots and show their discontent to the vote counters at the poll and increase the statistics of unhappy voters by a margin of 0.001%. And if that's something you're set on doing please do so. But if you truly feel disenfranchised and unhappy with the current electoral system (and you should!) then I would urge you to also find other ways of engaging in politics that will leave you feeling less disenfranchised and more aware of your ability to create change. A university campus is probably the best place to become an active political citizen. Find a local organization or group that is working to change something you care about (be it the ridiculous amounts we pay for tuition or the lack of vegetarian food options on campus) I guarantee you there's a group of people out there trying to change it. As someone who would consider myself a very politically engaged citizen voting actually falls pretty much at the bottom of the list of political activities in which I engage. Finally, I'll leave you with the words of Emma Goldman, revolutionary and labour rights activist "Voting doesn't change a thing. If it did, they'd make it illegal."

Opinion 🗩

7



made in our current system.

As an engaged citizen, you can choose what generalization you would like to fit into. No vote, candidate, or party will make Ontario into a perfect place, but they all make progress to a subjective version

of it. You may not fully agree with any party, but you should pick the one that is the closest. If no party is the closest to your vision of a better Ontario, send that message with a declined vote. No matter how small an action is, if many people will take that action, it will lead to a change. Please vote on June 12th.

Biased Syrian Election Brings Little Change



MEAGAN CARDNO 2B NANOTECHNOLOGY

On June 3, Syria held its first multicandidate presidential election in over forty years. Dr. Bashar al-Assad of the Ba'ath Party won his third term as president with over 88.7% of the vote, while opposition Dr. Hassan Abdullah al-Nouri and Mr. Maher Abd Al-Hafiz Majjar gained 4.3% and 3.2%, respectively. While a total of twentyfour candidates submitted applications applications to run for the presidency, only the three mentioned met all the required conditions for running, including the support of thirty-five parliament members. It is hardly a fluke that Assad's victory was so large- his two opposing candidates were little known amongst the public, and seen by many as only figurative contenders needed to label the election as multicandidate.

Official results label the voter turnout at 73.42%, but there is much criticism surrounding the legitimacy of these numbers. Voting was only held in areas controlled by the government, excluding about half of the country that was currently under occupation by rebellious factions. However, it is also worth noting that the civilian population in these areas is notably lower than the government-controlled areas, which includes the majority of the highlypopulous urbanized areas. It also cannot be overlooked that all of these estimates do not account for the thousands of civilian causalities that the civil war has caused, and those who died before being able to vote.

Another large demographic of the Syrian population includes the displaced refugees currently living in other countries— it is estimated that 2.7 million of these refugees either abstained from voting or were legally ineligible to do so. Contrastingly, most of the 1.1 million Syrian refugees living in Beirut, Lebanon were extremely desperate to vote, some believing that they would not be allowed back into Syria if they didn't.

Both the EU and the United States have condemned the vote as illegitimate, claiming that it cannot be considered a genuine democratic victory when large percentages of the population are not permitted to vote, and when held amidst an armed civil conflict.

Official reactions from organizations known to publicly support the current Syrian government are all very likeminded, repeatedly praising the 'transparency' of the election, claiming that the victory would certainly lead to 'stability and national agreement' within Syria. Assad himself takes his victory as a clear sign of the legitimacy of his regime.

In reality, even after the election, little has changed within Syria. Both Assad and rebel factions show no sign of coming to a compromise, and there is no sign of the conflict ending any time soon. The length of this war could be thought of as the most critical factor impacting the opinion of Syrian civilians— where once people cried out for justice and a change in government, they now struggle

to even attain basic necessities. It is no surprise that the public would be tired of fighting— above all else, they must be seeking for some sort of conclusion, just so the conflict can finally end.



Scores of Syrian refugees are amongst those omitted from the presidential election.

The Oil Change: U.S. Ups Ante On Reducing Emissions



The Obama administration has recently announced a new path forward on cutting greenhouse gas emissions. For starters, the new plan is intended to reduce coal-based emissions by 30% by the year 2030. This could throw a wrench in Canadian Prime Minister Stephen Harpers' grand vision of energy as an international (especially American) powerhouse energy supplier.

The United States government is strongly encouraging Canada to jump aboard the climate change train, but climate change and environmental issues appear to only be a priority for our government if they somehow inhibit Canadian energy production, be it oil and gas or electricity. That being said, the Harper government has long been an advocate of aligning with the United States on carbon cuts, putting Canada in a bit of a sticky situation. The United States has been Canada's main trading partner in not only electricity but other forms of energy as well. This relationship is key to Canada's economy, and with the United States potentially reaching a state of 'energy independence,' Canada must continue to make energy products that present a formidable outside energy source. Canadian energy needs to be as competitive as possible with U.S. domestic energy supplies. So the answer is simple right? Show our loyalty to our neighbours by aligning with them on the coal initiative—and the coal initiative only. Examining this new bit of climate-change policy alone, one can easily arrive at the conclusion that

it is specifically targeting coal emissions and nothing else. What Harper will want to ignore is that this is only one of many potential new emissions-reduction policies that could come into place in the U.S.

Other greenhouse gas emissions reduction policies could significantly affect exports of heavy crude to the U.S. and further delay pending pipeline projects such as TransCanada Corp.'s Keystone XL. Greenhouse gas emissions from Alberta's oil sands are among the highest in crude oil production, and Alberta alone accounts for about one third of Canada's total greenhouse gas emissions. Going back to the coal issue, Alberta is also Canada's largest consumer of coal-based electricity.

However the Canadian coal story is not all bad. Canada not only uses significantly less coal-based electricity than the U.S., but some provinces have taken further steps to decrease the use of coal-based electricity generation and move towards renewable sources. Ontario is one such example, recently phasing out coal as a source for electricity generation.

In terms of overall emissions, adopting the coal policy in Canada would not have as great an impact as in the U.S. because coal is not as widely used here as it is south of the border: As a comparison, coal accounts for roughly 40% of U.S. electricity whereas it accounts for only 10% of Canadian electricity. Canada is also rich in alternative electricity sources, so it may be realistic for us to get out of this coal jam.

Nevertheless, if the U.S. climatechange train continues to chug on (and that's a big if), Canada will need to reduce greenhouse gas emissions, particularly from the oil sands, which will sooner or later become (and arguably are already) a policy target. Looking at this situation, making our energy products cleaner and economically attractive to the United States could in a sense, be killing two birds with one stone.



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California Approves Self-Driving Cars



BRIAN CHAN 2B NANOTECHNOLOGY

So what are your thoughts on cars driving around the city with no driver situated behind the wheel? Dangerous, cool, magical? Well, that will up for Californians to decide. Yes, the California Department of Motor Vehicles (DMV) has approved rules that allow the testing of autonomous motor vehicles. These rules will be placed into effect on September 16 2014 and the newly adopted regulations require companies to apply for a designated permit and obtain a \$5 million dollar insurance bond for protection.

So what does this actually mean? Machines are taking over!! RUN FOR YOUR LIVES!!!! Well not really. The vehicle may be automated but the operator must remain in the driver's seat at all times just in case there is a need for the last minute split decisions on the road. The operator of the car must have even more training than the usual driving course, get more permits, more defensive driving training etc. Talk about easier lives, having self-driving vehicles, but instead in actually requires to put in more effort. Now there is another issue with this. If the tests are unsuccessful and cause more casualties than benefits, it is possible that the DMV will rescind their decision and put an end to self-automated vehicles.



Autonomous Vehicles have been given the green light in California.

Canadian ISS Robot Capable of Self-Repair

ZACHARY GINGRAS 2B NANOTECHNOLOGY

Dextre, also known as the special purpose dexterous manipulator (SPDM), is one of Canada's robot contributions currently living on the International Space Station alongside the Canadarm2. It has the very important task of assisting with dangerous spacewalks. And now, it is capable of replacing the need for spacewalks altogether

Dextre is currently in the process of a week-long repair job of old cameras on the Canadarm2. The most impressive part about all this though, is it is happening entirely without any human assistance. That means that these two robots are performing the first ever robot self-repair in space.

This is a huge advantage for the people aboard the ISS, because it will reduce the amount of risky spacewalks that the astronauts need to perform. It will free up their time not only during the walk, but in the weeks of preparations that lead up to them. This could even open up the way for future concepts, such as robotically



Using Dextre will reduce the number of dangerous space walks performed by astronauts on the ISS

servicing satellites in space!

However, Dextre isn't flawless yet. He has his own drawbacks and can

only deal with special, compatible tools and hardware. But even at its current capacity, he is already reducing the risks tag team.

astronauts need to take. We'll make sure to keep an eye on Canada's robotic space

Apple unveils iOS 8, Swift Programming Language



On June 2 2014, at the Apple Worldwide Developers Conference (WWDC), Apple Inc. announced the iOS 8, the latest update to their operating system for their mobile devices like the iPhone and iPad. The company also revealed major changes intended to streamline and help developers with application development and publishing. Several new features have made their way onto the iOS. For example, you can now add voice messaging to your text conversations using recording software packaged with the OS. Another thing that is new is the inclusion of family sharing. Now up to six people can share purchases and merge iTunes accounts on an account, provided they use the same credit card. In addition, it offers new options to parents to protect the safety of their kids, by locking their kids from using their credit cards without permission. It also allows parents to keep track of their kids with iPhones through real-time GPS tracking, which may ruffle a few feathers of privacy advocates. Another new feature is quicktyping. iOS 8 will predict the words you type to ensure make texting and surfing the net faster, easier, and more convenient. Of

course, Android devices and others have had this feature for months now, but it's a good sign that Apple finally caught up.

Apple has also taken steps to improve health for the iOS 8. There are many health apps already on the store to help you keep track of your exercise and nutrition, but all their information is stored in individual apps. Apple's new health app will synchronize all health data from all your apps. In addition, you can now embed an emergency card into your unlock screen in case you get into a medical emergency. There were also minor improvements made for integration with Mac OS devices, as well as to Siri and to the photography portions of the iPhone. Overall, with the exception of the family sharing feature, the iOS 8 does not feel like a huge improvement over the iOS 7, but it has made small steps in many directions to improve the overall iOS experience. On the developer side of things, Apple announced some big changes. The biggest change was the introduction of Swift, Apple's new programming language for apps. Prior to Swift, apps were coded in Objective-C. Swift is designed to make it faster and easier for developers to create apps for the iPhone, iPad and Mac by stripping away some of the more complicated features of Objective-C that were unnecessary for creating apps.

Swift also comes with Playgrounds, a feature which will allow programmers to receive instant feedback on changes they make to their code; with traditional languages, programmers needed to compile their code before they can run it, which could potentially be time consuming. For those who like to program in Objective-C though, there's no need to worry. Swift and Objective-C will use the same compiler, so you can

Swift cannot handle, you can switch over to Objective-C to handle it. Swift seems to be a welcome change and upgrade for iOS app developers over the outdated Objective-C.

Overall, Apple's big announcement at WWDC was a mixed bag. There were a few small improvements for consumers over the existing system, but, aside from family sharing, nothing huge or breathtaking. However, there is reason still program like you used to. It is to be excited if you're a developer, as Apple's Swift language promises to make coding apps easier, faster, and more flexible than ever.

possible for an app to have source code comprised of bits of both languages, and if your app needs to do something that



iOS 8 offers new features and is a minor improvement on iOS 7

Mid-Year in Review



ALBUM OF THE WEEK

Instead of covering a single album this issue, I took some advice and decided to go over my favourite 7 songs and albums of 2014 so far. It's been a quiet year compared to last, when we were looking forward to releases from Daft Punk, Vampire Weekend, Kanye West, and Chance the Rapper. However, this isn't to say that there hasn't been some great music released this year as well:

Songs:

7. Beyoncé – XO

6. Cloud Nothings – I'm Not Part of Me

What sets Dylan Baldi, lead singer of Cloud Nothings, apart from other innumerable punk singers is his ability to craft indelibly melodic hooks and then get them to work in the context of a hard-charging punk song. Although his voice, a bratty whine, occasionally has difficulty keeping up with the vocal acrobatics, the shoutalong chorus is easily one of the catchiest pieces of depression released this year: "I'm not telling you what I'm going through." The drums pummel along behind him, giving the song an urgency to go along with its unprecedented accessibility.

5. Ariana Grande ft. Iggy Azealia – Problem

4. Coldplay – Magic

"Still believe in magic / Yes I do / Of course I do." On one hand, "Magic" is a Coldplay single through and through: the pretty falsetto, the wordless vocal bridges, the hope permeating throughout it. But look deeper and there is something different about it; it's restrained (for Coldplay) and the hope is counterbalanced by themes of loss. Ghost Stories was Chris Martin's break up album and "Magic" is the greatest break-up song they've ever written.

3. Future ft. Andre 3000 – Benz Friendz (Whatchutola)

Normally when another rapper features on a Future album, they fall into his weird emo-rap orbit. Many even try their hand at his signature Auto-Tuned croon. The notable exception, from Future's new LP Honest, is "Benz Friendz." Andre 3000 comes out from his seclusion and Future lets him take the song to his own strange place, content to come along for the ride. Although the theme is ostensibly similar to Kanye's classic "Gold Digger," Andre spends some time navel-gazing ("White button downs and emery scrubs/I had to write her birthday down because my memory sucks") while Future jolts the song to life with his sung/yelled chorus.

2. Sun Kil Moon – Ben's My Friend

Mark Kozelek, aka Sun Kil Moon, is having a pretty normal day for the duration of "Ben's My Friend." He goes shopping with his girlfriend, eats lunch, calls up his family, and goes to a Postal Service concert. The devil is in the details, however: the lampshades he bought cost \$350, the walls of the restaurant are covered "with sports bar shit," his dad is fighting with his girlfriend, and then the real kicker - the Postal Service, fronted by Ben Gibbard of the song's title, is playing a show to 8000 young people while Kozelek stands in the back. He went because Ben's his friend, but he can't find a place to park, he's too old, his feet hurt. So he leaves early to sit alone in his hot tub and ruminate: "and it was quiet, and I was listening to the crickets / and Ben's still out there selling lots of tickets / and though I know there's a tinge of competitiveness / But Ben's my friend and I know he gets it." But then by the end of the song, his jealousy and depression fade, and Kozelek is back in the studio recording the last song on his album, which turns out to be this one.

1. How to Dress Well – Repeat Pleasure

How to Dress Well is the work of a single twenty-something named Tom Krell. Back in 2010 he was one of the pioneers of the indie RnB movement, colloquially known as PBRnB, along with others such as Frank Ocean, Miguel, and the Weeknd. On "Repeat Pleasure," a single from his forthcoming LP, he pushes the boundaries of traditional RnB, melding it with softrock and even electro. His clear falsetto is high in the mix and his older murky production has also been stripped away, leaving chiming acoustic guitar, sprightly handclaps, and whispering choirs. It is music that defies categorization in the best way possible.

Albums:

6. Future – Honest

5. Beyoncé – BEYONCÉ

"Probably not gonna make no money off this, oh well" Beyoncé sings at the end of "Haunted." BEYONCÉ went on to sell 800,000 copies in its first week on iTunes alone, making it the best selling album of all time in the iTunes store. Either way, there was no way that she wasn't going to make money off of this thing. But I understand what she meant. BEYONCÉ is not the same animal as previous hit-laden LPs 4 or I Am... Sasha Fierce. It's deeply dark and experimental; synthesizing sounds from underground RnB artists like the Weeknd and the xx. There are no surefire hits like "Halo" or "Countdown," and Beyoncé intermingles her singing with whispered raps. It's a weird album for sure, not just relative to other female pop artists, but objectively as well. But it is incredibly cohesive, both thematically and aesthetically, and an extremely immersive listen.

4. PUP – PUP

3. Sun Kil Moon – Benji

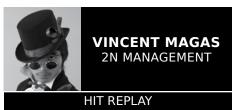
2. The War on Drugs – Lost in the Dream

Lost in the Dream is a study in muted contradictions. The music is smooth and calm, harking back to the soft-rock heroes of the 80s: Rod Stewart, Don Henley, and Tears for Fears. The songs are long and meandering, taking time to open up and reveal their beauty. But the lyrics reveal something different. All songs focus on anxiety or dread or despair, with the mood spiralling downward even as the music buoys it. It's a startling juxtaposition, and because of it, Lost in the Dream is an album you can either put on in the background, or dive into the lyrics with headphones, alone in your room.

1. The Hotelier – Home, Like No-Place There Is

Emo is still a word that causes dirty looks from a lot of people in my demographic. In spite of this, there has been a huge resurgence of emo music in the last two years, with bands looking past the genre's pop stage in the mid 00s (which was also great), and back to second wave emo bands like American Football, The Promise Ring, and Sunny Day Real Estate. The Hotelier's new album is a perfect introduction to this genre revival: it has a perfect mix of twangy Midwestern singing and hardcoreindebted screaming, it has twinkly guitars and punishing riffs, and, true to its genre, it has the most confessional and emotive lyrics I've heard all year. With its focus on addiction, loss, and death contrasted with huge choruses, Home, Like NoPlace There Is is the most visceral and best album of 2014 so far.

Record Players – Playing the Song Again



Hit Replay is back again this term for another set of hits, trends and vintage love! Two terms ago, Hit Replay made its debut on the Iron Warrior featuring an article on the beloved vinyl record. As we now know, vinyl records sales have started to rise (and if you didn't know that, time to jump online to the Iron Warrior website and checkout the Hit Replay article featuring vinyl records on Volume 34 Issue 12 of the Iron Warrior from Fall 2013). So now Hit Replay kicks off this term with an article on the lovely record player! Where else to play your vinyl records but on one? Modern record players, also known as phonographs or turntables, are simply devices which reproduce sound, that are recorded on vinyl records: not unlike your cassette players for cassette tapes or your CD players for CDs. They are composed of three main parts: a motor-driven turntable which rotates a plate that the record sits on, a tone arm which holds the cartridge containing the stylus, and finally the stylus itself, which follows the groove track on the vinyl record. Typically, a regular record player setup would be to have the record player connected to a pre-amp which raise the low signal levels from the record player

to usable levels for the amplifier. An amplifier or stereo receiver then follows next in the signal chain and then finally the loudspeakers.

First a bit about the history of record players! The first phonograph was built by Thomas Edison (known as the "Edison Cylinder Phonograph") in the 1870s and was purely mechanical. The first few versions of the phonograph operated with a large tin cylinder unlike the modern flat disk vinyl record. The phonograph was hand-cranked and produced rough reproductions of the recorded material at best. Thankfully after a few short years, Alexander Graham Bell's Volta Laboratory made improvements on both the cylinders and styli that were being used in phonographs which improved the reproduction quality. By 1887, Emile Berliner invented what came to be the modern vinyl record which recorded material on a flat disc instead of Edison's original cylinders. By the turn of the 20th century, even better audio technology and falling prices allowed record players to become a standard household item in North America. Record players of all sorts appeared, many of them loaded with numerous features: fully automatic turntables, disk changers, and even automatic players which allowed you to select the start track. Dark clouds appeared over record players and analogue technology in the late 80s and early 90s when there was a shift into cassettes and compact disks. The pop and

scratch free CDs became the more common mode of storage for audio. With the decline of vinyl records turntables fell out use, save for those of us who were analog lovers. In recent years however, people hit the replay button and turntables along with vinyl records saw an increase in sales. Audio enthusiasts, Hi-Fi lovers, hipsters, musicians and nostalgic music lovers pushed turntables back into shelves and vinyls back in music stores.

One of the best things (or arguably the worst for some!) about record players is the hands-on experience of listening to a record. A record is placed on the mat of the turntable and an adapter is used depending on the type of record being played: whether it be a 33 1/3 rpm, which came in 12 or 10 inches record; 45rpm, 7inch record or the older 78rpm, 12-inch record. The next step was to select the speed based on the record,

and start the turntable drive. The tone-arm was then lifted either using a cueing mechanism if the turntable is equipped with one, or manually with your hand. The needle is then carefully and gently placed onto the leading track of the record. As the record spins, the variations on the groove causes the stylus to vibrate a transducer then converts the mechanical vibrations from the needle into electrical signals. These signals make it through to the pre-amp, the amplifier or receiver and then finally the loud-

speakers and voila, music!

Ultimately, record players are loved for their fair reproduction of music while giving it that warm sound only found in analogue devices. There's no surprise that Hi-Fi lovers, Vintage enthusiasts and music fans have a special place for them in their heart! So why not go out there and buy yourself one?



Once almost obsolete, record players are now making a comeback.

Evil vs Evil



When all the protagonists in a movie are evil, it makes things more difficult for the viewer. Should they empathize with Villain 1 or Villain 2? The sociopath or the psychopath? The axe-wielding murderer or the creepy torture dude?

In a way, lacking a sympathetic hero makes a movie more engaging because it keeps the viewer uncertain of how they should feel - instead, letting them draw their own emotional conclusions in the lack of any traditional templates as to how they should feel. It's not to say that any two unlikeable schmoes will do, however. They must be smarter, stronger, or faster than the viewer. To be incompetent inspires contempt. But grudging admiration admiration that is earned by the character's great and terrible deeds, rather than by designated "hero" status, is best. Antiheroes are usually way more popular than heroes, anyways. Han Solo has more fangirls than Luke Skywalker. Batman is way more interesting than Superman. And a movie pitting villain against villain rather than hero against villain - where once was simpleminded, formulaic admiration is now conflicted fascination.

One could further state that the current political situation in Ontario is one of Evil vs Evil vs Evil, and that the voters are the researchers or townsfolk stuck between them. While there is no way for the redshirts of the world to bring about total victory, their best strategy is to put their lot in with the least evil choice. For example, in Freddy vs. Jason, the townsfolk side with Jason, because while he has a higher body count, Jason is much more predictable and usually confines his murdering to Camp Crystal Lake. Freddy, on the other hand, tends to actively stalk children. Similarly, in Alien vs. Predator, one would rather side with the Predator than the Aliens, since allowing the Alien to get loose would turn Earth into a no-holdsbarred xenomorph breeding ground. On the other hand, Predators tend to leave the planet after gaining sufficient honour from their kills.

To side with neither villain - or to abstain from voting altogether - is to resign oneself to being gored in the path of the beast.

Here's five movies depicting the struggle

of evil against evil.

Hard Candy (2005)

In one corner we have Ellen Page playing a precocious prebubescent psycho, Hailey, with a penchant for TORTURE. In the other, we have Patrick Wilson as a photographer, Jeff, who may or may not be a PEDOPHILE. Their arena is a smartly furnished modernist house! You choose who to cheer for :D

This movie successfully made me very uncomfortable. Ellen Page is... well, perfect. Patrick Wilson does fine - in a normal movie, he'd probably put in an outstanding performance, balancing the roles of victim and predator. But in Hard Candy he just can't hold a candle to her morbid genius. Most people have only seen her in fairly PG-13 ingenue roles. Seeing her in as a younger, more innocent-looking villain is a brilliant shock to the system.

I also liked that Hailey - although preternaturally cold and remorseless - is not perfect. She screws up occasionally. Her entrapment of Jeff is imperfect. He breaks loose several times, and she fails to fabricate convincing stories for the neighbour.

Good luck trying to guess how it all ends.

Alien vs. Predator (2004)

A team of Weyland Industries scientists in Antartica investigates a heat bloom. They wake up a Xenomorph queen just as a ship of Predators land. Then the Aliens fight the Predators, with the scientists caught in the crossfire.

Well, Alien vs. Predator is an acceptable monster movie. It has a modicum of suspense, creepy things in the dark, and alien-impregnation gore. One might wish for the humans to have more sense - being scientists and all, wouldn't they be WHMIS certified and know not to touch potentially biohazardous extraterrestrial wing-wong without an MSDS? But obviously here the humans are simply raygun fodder for the CGI bogeymen.

The only thing elevating Alien vs. Predator above the ilk of Freddy vs. Jason is the pedigree of one of its protagonists. Alien is a milestone of the aliensuspensefully-impregnating-everything genre, while Aliens was responsible for the establishment of the Space Marine type of mook. I'm not sure what Predators did for the genre. Compared to the phallic-shapedstabbing-tongues of the Xenomorph, the Predator's tentacled helmets are deep-fried calamari.

Freddy vs. Jason (2003)

Freddy from Nightmare on Elm Street is trapped in Hell after his franchise died. He manipulates Jason Voorhees, who is also in Hell after his last Friday the Thirteenth movie in 1993, to rise from his grave and kill children on Elm Street in his name. Jason cottons on to Freddy's plan eventually, but not soon enough: this movie should be called Freddy and Jason, BFFS 5EVA.

I accidentally watched the first twenty minutes of this movie when I was ten. It's really not as scary as I thought it was. And there is only one bit of gratuitous nudity. So yeah, it's campier than anything else. Freddy wears a Mr. Rogers sweater and his facial burns resemble swiss cheese more than Harvey Dent's bad side. Meanwhile, Jason has a huge, manipulable Freudian excuse - preventing him from being truly terrifying - and actually reminds me of the Pyro in Team Fortress 2.

Sweeney Todd: Demon Barber of Fleet Street (2007)

Benjamin Barker (Johnny Depp), barber extraordinaire, returns to Fleet Street after escaping imprisonment by Judge Turpin (Alan Rickman). But alas, his wife has poisoned herself with arsenic after the Judge raped her, and his daughter is being raised as a ward of the Judge. Mrs. Lovett (Helena Bonham Carter), being smitten with the barber, helps him reestablish his business in the guise of Sweeney Todd, so that he may take revenge on his enemies by slitting their throats while in the barber's chair and turning them into meat pies sold by Mrs. Lovett.

Sweeney Todd is a masterfully produced musical. The crawling stench gothic 1833 London atmosphere is perfectly rendered. The cast is perfectly morbid. Johnny Depp doesn't smile. It's like Les Miserables simultaneously more and less melodramatic, and infinitely more stylish, particularly without Anne "I Finally Have An Oscar" Hathaway hogging all the publicity. Alternately, it's like watching Tim Burton trying to out-Burton himself and succeeding. Even happier numbers like Mrs. Lovett's absurd seaside fantasy ditty - are surrounded by rot and cynicism.

Naturally, there are no happy endings in

Sweeney Todd. Les Mis had a bit a the end where everyone who died was apparently singing in parades through happy democratic la-la heaven. None of that in Sweeney Todd. Almost all sympathetic tendencies possessed by the characters are stomped out by the bloody finale, too, which is a downer for anyone hoping for redemption. So yep. Major kudos to Tim Burton for staying true to his characters throughout.

The Good, the Bad, and the Ugly (1966)

Three men in the Civil War-era Wild West - the good, the bad, and the ugly become aware of the existence of a secret stash of gold in a graveyard. But no one of the three know all the information needed to get to the gold, and all three are enemies.

I loved this movie, because for such an iconic and parodied western - it still felt fresh and unexpected. The plot twists were difficult to predict, the characters generally avoided being stupid, and the settings - ranging from desolate deserts to grimy battlefields - were gritty and savage, having been filmed in Spain. Surprisingly though, The Good, the Bad, and the Ugly contain multiple instances of humour, mostly in the form of sarcasm from "the good" whenever he can be bothered to dignify another character with speech.

The Good, the Bad, and the Ugly also features Ennio Morricone's most famous score. It is absolutely excellent and integral to maintaining the tension in several scenes - particularly the three-way Mexican standoff at the climax.

One can certainly appreciate that the morality of all the characters is ambiguously evil. "The bad" is a stonehearted, sociopathic mercenary. "The ugly" is an unstable, murderous bandit. "The good" is an amoral bounty hunter who runs scams with "the ugly" to collect bounties, and ends up stranding "the ugly" in the desert, 70 miles from civilization, on foot. Yet clearly one is to cheer for "the good," and to wonder whether he is to choose to ally with "the bad" or "the ugly." Why? Because he's Clint Eastwood? Because he has a tenth of the lines of any of the other leads and snarks in almost all of them, while "the ugly" is prone to fits of buffoonery and "the bad" will happily murder anyone and everyone for profit? Well, never mind that. This film would be over in 90 minutes instead of 180 if there was only one villainous character.



The SFF Memorial Leadership Award Nominations

In recognition of the late Professors Saip Alpay and Wm. C. Nichol, and Sam Ceccerallo, Robert Elligsen, later former students of the Faculty of Engineering

The Leadership Award is granted to an intermediate-level undergraduate student in the Faculty of Engineering who has demonstrated outstanding contributions to the Faculty in the promotion of extra-curricular activities, including, but not limited to: Intramural Athletics, promotion of Engineering Society and Sandford Fleming Foundation events, competitions, etc., and for the support of associations, both on and off campus.

Nominations for the Memorial Leadership Award can originate from student groups, faculty members, or other individuals. A Letter of Nomination and Letters of Support from colleagues, faculty, and others familiar with the nominee's accomplishments are extremely important and form the major basis upon which the Executive Committee of the Sandford Fleming Foundation will form its decision. Nominations must be submitted to the Foundation by August 31, 2014 and/or before the last day of the student's 3A term.

The Memorial Leadership Award consists of a Certificate plus a citation, and an honorarium of \$1,000.

Nominations Must be Submitted to SFF Office Manager by August 31, 2014

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Election Candidate Platforms: A Sum-Up Highlights from the May 28 Candidate Debate



As most of you probably know, a provincial election will be held in a few days on June 12. If this is your first time hearing about this, perhaps you need to get out from under your rock more. For many of you, this is your first chance to potentially vote, so it is important to know the parties, their values and platforms. On May 28, the local MPP candidates for the Waterloo-Kitchener Riding held a debate in the Great Hall of the SLC. Representatives from the Liberal, NDP, Progressive Conservative, and Green Party all had a chance to get their platforms and values across to potential voters. Naturally, many people would have missed the debate due to scheduling conflicts or ignorance of the event. I will sum up what was said in the debate to aid you in making your vote:

Catherine Fife, NDP

Catherine Fife is the NDP candidate for Kitchener-Waterloo, and also the incumbent, meaning she was elected previously in 2012, and will be her defending her MPP position. She has a background in education, having served as a trustee and chair for the Waterloo Region District School Board, as well as Vice President for the Canadian School Boards' association and President for the Ontario School Boards' Association.

On the issue of rising tuition rates, Fife says the NDP is committed to freezing tuition rates and to taking interest off student loans immediately. Fife claims that the Liberal 30% off tuition plan doesn't apply to a large portion of students who need it most, such as parttime or adult students.

Regarding the quality of university education, Fife wants to hire more fulltime teachers which would result in smaller class sizes. She would like fewer part-time instructors at our institutions. and would prefer them to be replaced with committed full-time instructors, as fulltime instructors would improve quality of education. Fife would encourage a greater amount of integration and cooperation between the public school and university institutions. Fife would pay for by cutting bureaucratic waste in the provincial government, streamlining funding, and cutting executive salaries and bonuses.

Regarding employment, Fife says the NDP would support emerging technologies and companies, draw investment to Ontario, and improving transit by raising taxes by 1% and using the money on transit, as well as cutting back on advertising for it. She would use the Quebec and Manitoba models as baselines for improving youth employment.

Jamie Burton, Liberal

Jamie Burton is the Liberal candidate for the riding. She is a co-founder of Dolphin Digital Technologies, an information and communications technology company. She is the recipient of the 2013 Rogers Woman of the Year-Entrepeneur award, as well as the 2012 Oueen Elizabeth II Diamond Jubilee Award. She introduced herself at the debate with a poem. This received mixed reviews, but I applaud her for the attempt.

Regarding tuition rates, Burton says the Liberals will provide an 80% increase to education funding, and that they will continue with the plan they currently have in place. The Liberals will also put a stop to the rising cost of rent for students

across Ontario, and that online credits will be in place by 2015.

Burton says that the Liberals will encourage innovation and growth to improve university education quality. Burton sees the University of Waterloo as a rolemodel for other schools and would try to have other schools follow our example.

On employment, Burton points to the Liberal track record in their previous term, pointing out there was net job growth while the Liberals were in power, and that the Liberals will continue to add jobs if they are elected again. She also wants to improve transit to the GTA to make it easier for people here to find jobs in Toronto, and she would create a plan to allow high school students to work for several months before going to university.

Finally, regarding transit, Burton says that the Liberals already had a plan pre-election, and will continue forward with that plan if they're re-elected. The Liberals have already set aside \$25 million for bike paths and transit, and \$29 million for transit infrastructure.

Stacey Danckert, Green Party

Stacey Danckert is the Green Party candidate for the riding this election. She recently graduated from the University of Waterloo with a Doctor of Philosophy in Psychology.

On tuition, Danckert says the Green Party will move tax credit rebates to upfront money, and will extend OSAP. They will also drop graduate student fees.

On education, Danckert says the Green Party will merge the Catholic and Public School Boards together, resulting in a savings increase. Danckert would also incentivize co-op programs and apprenticeships. She would also separate research from teaching, creating dedicated roles for each, instead of

forcing professors to do both when they might be poor at one of them.

On employment, Danckert wants to expand co-op programs and apprenticeships, increasing tax credits for companies who accept co-op students. She would increase funding for companies developing and working with green technologies, and would overall increase money available to start-ups to encourage grassroots development in Ontario.

On transit, Danckert said that it is a priority for the Green Party. She would look into the feasibility of electrified tracks to improve speed and efficiency. She also said that she would not increase taxes for transit.

Tracey Weiler, Progressive Conservative

Weiler is the PC candidate for the election. She is a self-employed business analyst that has previously worked for Research in Motion and PricewaterhouseCoopers. From 2008 to 2012, Weiler was also an instructor for Wilfrid Laurier University's MBA program.

Weiler says the Conservatives will freeze tuition rates and that they do not tie OSAP to high school grades.

Weiler will provide incentives to businesses in Ontario, thus indirectly encouraging companies to aid the community, for example by taking on apprenticeships and co-op students.

On transit, Weiler stressed the need for two-way all day GO trains, and investment in infrastructure. Weiler stated that transportation is a priority for the Conservative Party.

Hopefully this information will aid you in choosing who to vote for. Whatever to do, make sure you get out to vote and make your voice heard on June 12!



Laurel L. Ruswwurm **Catherine Fife, NDP**

Feds MPP Candidate videos Jamie Burton, Liberal

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ELIZABETH SALSBERG 2B NANOTECHNOLOGY

BENCHWARMER REPORT

The Toronto Blue Jays are the proud owners of the third-best record in baseball and have been red-hot of late. If they keep up this unbelievable play, the Jays could be giving the Raptors a run for their money as the best Toronto prosports team this year. The roster appears to be delivering on last year's promises. Let's take a look at what's got the Jays on a tear.

Pitching is Clicking

The starting rotation has been pulling their weight, contributing at least five innings of real baseball before turning things over to the already-sturdy bullpen.

Jays Coming Off May Tear Workhorse starter Mark Buerhle is having a career year, with 10 wins so far. Rumour has it Buerhle is slated to be the

starter for the American League All-Star team. Drew Hutchison has also been a consistently good starter for the Jays (4-3, 3.50 ERA).

The bullpen has been rock solid for the most part, lefties Brett Cecil Aaron Loup leading the way. Dustin McGowan's recent migration to the bullpen has been a huge success. Closer Casey Janssen has been sensational with an eyepopping 0.00 ERA and a perfect 11 of 11 in saves to attempts.

Sweeping up in the Field

While there's no question that pitching has been good this season, sometimes help in the field is what the team needs to win. Jays fielders have answered the call this season, led by right fielder Jose Bautista and super-athlete third-

_baseman-turnedsecond-baseman Brett Lawrie. In Friday's game against the St. Louis Cardinals, Bautista made a phenomenal play to the plate, a wicked throw right on the money to erase a potential tying run in a tight 2-1 game. Brett Lawrie continues to daze and amaze with his infield play, moving over to second base from his usual place at third for a one-two punch with shortstop Jose Reyes through the middle of the infield. Better hit the ball well away from these two guys to avoid a double play.

Hitting up the Opposition

This is one lineup you'd never want to face on paper. Jose Reyes, Melky Cabrera, Jose Bautista, Edwin Encarnacion, Adam Lind, Brett Lawrie... it's down to the 7th hitter before it's worth intentionally walking a player. The Jays have been the kings of the long ball with Edwin Encarnacion leading the way with 16 homers in May. Bautista has also been in fine form with 15 dingers going the distance. Lind has been hitting .412 in his past 10 games. Need I go on? These are very hungry hitters indeed; that have banged up and chased away opposing pitching throughout the month of May.

They will need to stay red-hot to keep the ball rolling through the rest of the season, particularly in the always-tight American League East. If the Jays can make May last the rest of the season, we'll have a very exciting baseball season on our hands.

Water Water Water:

Where to Get it

MATT MCLEAN **4A MECHANICAL**

Water. You are 70% water and most people don't drink enough of it. As the days become hotter, we all go searching for more water to reduce our stress, increase our energy, and maintain our body functions.

Water fountains across campus provide a fresh, clean and free source of water. They seem to be in every building in the most convenient locations. But not campus water fountains are built equally. Some provide bottle filling capacity such as those in E5, some filter the water like the ones in CPH, and some simply dispense water as in E2. A select few water fountains barely function at all.

My nano friends made me well aware of the water fountain on the second floor of the QNC. It has a beautiful spout for filling your water bottle with a great

flow rate. But when you go to take a drink out of the fountain, you practically have to suck the water out. There are old fountains like this all across campus. They quench your thirst by making you never want to drink out of a water fountain again.

These low flow rate fountains get the distinction of the second worst fountains on campus. The worst fountain has to go to the boondoggle fountains of E5. Upper years may remember that E5 was built without a single water fountain. These fully featured water fountains were installed shortly after the building opened. They have all the bells and whistles, filters, bottle sensors, automatic shutoffs, bottle counters, and the list goes on. These darlings of the water supply industry are great, when they work.

The water fountain on the second floor of E5 is pretty much always out of commission. Typically this is due to the circuit breaker in the plug powering the fountain blowing. Those who spend a lot of time in E5 know that this can usually be fixed by resetting the breaker in the centre of the plug. For a water fountain as fancy as this one, it should be much more reliable.

Water fountains on campus should aspire to be the fountain in E3 near the extension to E5 on the first floor. In a non-scientific Facebook poll on my wall, 4 out of 5 people agreed that this is the best fountain on campus. The stream of this fountain is strong, the temperature is cold, and the water always tastes great. Just one sip of this water will melt all your stress melt away and get you going for the rest of the day.

So next time you find yourself getting frustrated by bad water fountains, don't reach for bottled water. Take a trip to E3 and enjoy the best water fountain on campus (as declared by me).



This fountain located in E3 is a pretty darn good water fountain.

Sleep More: Be Better

since we are always so tired, stressed, and possibly hung over? We don't notice the difference from 2-3 hours of sleep a day to 7-8 hours cause hell, there are so many other things to care about.

course is hard and life really sucks. This also explains the reason why we make such careless mistakes on exams and face-palming when we hand in an assignment or exam

> realizing that impossible equation we

> > a s

our productivity on the days that we are not rested, we just sit around and do nothing and on the days where we are full of energy we are jumping, skipping, studying and getting things done. But microsleep what is that? Well, most of us have felt this once before. It is where we essentially involuntarily sleep when we are awake. Imagine you are in class, so very exhausted and your eyelids are drooping. Then the next thing you know, you are in your third class studying a completely different subject and possibly in a entirely different classroom and you can't recall how or what you've done from the first class until that third class. That is microsleep. It completely screws with us and can be very dangerous. Imagine if this happened while you were driving, or walking in downtown Kitchener where traffic is very heavy, you would not know what you are doing until you snap out of the microsleep naturally or if you get hit by some vehicle or mugged by some person without knowing. Now that would be dangerous. So the ultimate lesson to take from this is that sleep is important and not just to get 1 or 2 but at least 7-8 hours in order to be your most productive state, study better, and be a better engineer.



ENGLIFE IMPROVEMENT

A popular question people tend to ask is do I really need so much sleep? When

we sleep, it seems that we are actually not accomplishing anything during those 7-8 hours, lying on a comfortable bed, snoring (most people do!!) and dreaming. For us engineers, we know how it is; there is never enough time in a day to get all the things we want to or have to get done, well DONE!! From homework, to the gym, to studying for these blasted exams, partying hard during the week, there is no time left over especially if 7-8 hours of the day is dedicated to sleep. That's why we cut down the time to 5 hours, hell maybe a nap instead to get us through the night and to the next day where we have even more tasks to complete. However, our view of the need of sleep is completely wrong: If we want to study harder, party harder, get more work done, those 7-8 hours of sleep are crucial to completing those tasks!

So why is sleep so important, for us

In reality, the without crucial 7-8 hours of sleep a day, our brain doesn't really function properly. It has been proven that it results in poor decision making, difficulty solving problems, controlling your emotions, behaviour and coping with change. Sleep deficiency has also been linked to depression, suicide and risk-taking behaviors. This will explain our stressed out behavior and our panic attacks when the professor pulls out some long, fancy, complicated equation, and our continuous thought that every

to solve actually solvable. Lack of sleep affects

trying

daytime performance. This means that your body will involuntarily make one less productive and undergo a state of microsleep. We all have the effects on

Book Review: Escape from the Bedside – A Memoir



FILZAH NASIR 3A ENVIRONMENTAL

In Escape from the Bedside, Sharon Baltman tells us the tale of her life and her 40 year career of practicing medicine and pushing the boundaries of her career.

Baltman takes her readers on on selfdescribed "journey of life-long learning" through the stories of her life, from the mundane - the daily duties of a doctor, to the extraordinary - her travels through Asia, Africa and the Middle East.

Following a brief description of her childhood, Baltman's story begins with her decision to pursue a career in medicine and the instantaneous resistance she met. For a young woman in the sixties, becoming a doctor was a radical idea and Baltman was forced to defend her choice to everyone around her. The forms of resistance varied - from family members who encouraged her to follow an easier career such as teaching to those who told her that she could never be a doctor because of her "big breasts." But the greater the resistance, the more Baltman was convinced that this was what she was meant to do, and her stubbornness earned her a spot in the University of Toronto's pre-med program. Of course medical school was only the beginning of her career as a woman in a maledominated field. In an interview about

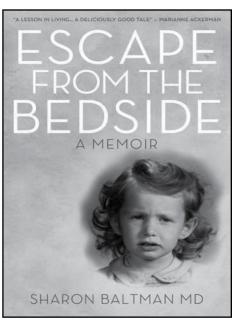
the book, Baltman reflects on the strides that have been made for women in these fields -- and also the amount of work that still needs to be done. The majority of medical school students today might be women but there are still plenty of maledominated fields out there - engineering being a prime example. For Baltman it's easy to identify with the difficulties faced by these women. She talk about having no female professors or role models while in medical school and not recognizing that as a strange thing. But her perseverance is what has allowed her to now become a role model to the young women still struggling in maledominated professions.

Even after graduating from medical school, Baltman's career choice came with difficulties. As a woman entering a profession with male colleagues and male superiors, Baltman was often faced with tough choices about professional ethics. From an alcoholic supervisor to working with a surgeon who refused to believe a patient's story about being conscious during surgery Baltman faced a lot of difficult choices about speaking up to her superiors. She talks about the complications of professional ethics and about learning to find her own voice and being true to herself. She insists that her approach has always been to "face adversity with humour and dignity and being true to ourselves."

Despite the difficulties she faced, Baltman did not follow a traditional career and instead chose to continue learning and expanding her knowledge throughout her life. Although large NGOs have made practicing medicine overseas easy today, Baltman travelled overseas as part of a mission in order to practice medicine in a tiny village in Ghana. She also spent a year working in Israel. Baltman has an incredible love of travelling and the learning that comes from seeing different parts of the world - a love she has passed down to her daughter.

But Baltman's unique approach to her career is not just present in where she's worked but also in the work she chooses to do. From learning non-traditional forms of healing such as acupuncture at a time when they were ridiculed by many people in her profession, to pursuing her passion for listening to patients and understanding patients, to eventually practicing psychotherapy, a unique form of medicine that focuses on patient stories.

Escape from the Bedside, a book 10 years in the making, is a great read about one woman's journey towards a career that is meaningful. From students entering into professional fields to professionals with years of experience everyone will be able to find something to connect with in Escape from the Bedside. The book is available for purchase at Words Worth Books in Uptown Waterloo and the first three chapters are available to read on Amazon.





S Baltman Top: Escape from the Bedside, a memoir about narrative medicine and being a female in medicine

Bottom: the author, Sharon Baltman

An Advice Column for the Meteorological



June 11



Hot and muggy, with a little rain. High of 24. A good day for beginnings and new phases. Get started on that assignment! If your birthday is today, expect to find everything just a bit easier. Beware: that goes for both positive and negative things! Exercise caution and willpower.

June 12

Exact same weather as yesterday. It is a

inspired! Take some time to exercise your creativity. Write a poem. Paint a picture. Explain away what happened last Friday. If it is your birthday today, your friends have prepared a surprise party... Happy Birthday!

June 15



Very sunny, with a high of 23. If possible, protect yourself from the sun with a parasol. While you are at it, knock back a few cups of tea, put in a monocle or two, and go crazy with all that Jane Austin jazz. If it is your birthday today, a tea party might not be amiss.



A chance of thundershowers, whatever good day for repeating yourself – but not those are. High of 22. Carry an umbrella, and possibly a towel to be safe. Keep track of that towel. Make sure you keep on top of everything: this is a day when things might go wrong. If it is your birthday today, then I am well and truly sorry.



Sunny, and a high of 23. Absolutely nothing will happen today. Relax. It is a time to recover from mental taxation. If, however, your powers of concentration were not taxed sufficiently this term, you will soon receive a visit from the Mental Revenues people.... you don't want to get booked for mental tax evasion. Fortunately, June 18 birthdays receive a mental tax rebate.

June 19



High of 22, with isolated showers. Not that we expect you to be showering with other people or anything. Today is a good day to clean up your act. Get rid of some bad habit that makes you think less of yourself. Some excess? Some timidity? Work to change that. If it is your birthday,

22. It is one of those dull, idyllic days that seem so nostalgic when you're not having one. Read a book in a tree, go on a boat ride (also in a tree, why not), take a nap in the sun. Heck, take a nap in the fluorescent lights of your classroom. You do it every day. Let's just be realistic those pale, sickly lights are all you'll see this summer. Birthday people: might as well skip class. It comes once a year!



Clouds, rain and sun. dT/dt = 0. Even with all of the parameters changed, there will be nothing to break the monotony of weather. That, and your life. Try to shake something up today! Make a negative change this time... virtue grows so dull. Take up smoking. Hobnob with the lower years. If it is your birthday, you have my permission to go beautifully insane.



other people. Examine everything today. Accept nothing on authority. Question all rules, laws, deadlines, and policies. If it is your birthday today, question that too.

June 13



Sunny with cloudy periods. High of 21. Self-sacrifice is the order of the day. Be kind to other people; you never know how it may come back to you. Share your resources, particularly answers to difficult questions. "What is the meaning of life?" "Who am I?" "Chapter 3, question 12b?"

June 14



Again! The weather is becoming truly unoriginal. You, on the other hand, are June 17



Sunny again, with a high of 23. It's a good day for self-discovery today. Not in the metaphysical sense - get into a big wooden boat, and make a map of yourself. Oppress the natives you find on your distant shores. Replace all of your ideas with spoon-fed concepts. Once you have the colonization down, congratulations! You are prepared for your midterms. Birthdays have been banned by the Empire of Ideas.

June 18

make it a milestone. (Protip: milestones are made by significance, not numbers of years.)

June 20



Sunny with cloudy periods. High of 22. Prepare for a difficult day. There will be conflicts. There may even be blood. Be ready for the worst. If you are strong to overcome all of your adversities, rich rewards will follow. If it is your birthday today, the adversities are your job. Try to make life difficult for 364 other people, in order to build their character and gain them those rich rewards. What are you, selfish?



Nice sunshine, but the high is still

June 23

June 22



A bit cloudy, with a high of 21! We have gone down a whole degree! The day is looking down for most people, too. Try to counteract this downward slide with an opposing force. However, if it is your birthday, you will not be successful at counteracting this sinkage. Into the ground you go.

June 24



Cloudy, with sun too. High of ... you guessed it... 22. Today will give you an opportunity to prove yourself. You will find a similar proof in chapter 2, page 27. Do not copy this proof directly. If your birthday is today, you may use your birth certificate as an alternative proof.

$\mathbf{R} + \mathbf{L} = \mathbf{J}$



GOT CONSPIRACY THEORIES

Anyone who has talked to me in the past nine weeks knows that I become slightly obsessive when HBO's Game of Thrones is in season. Well, 'slightly' is putting it rather mildly- once you engage me in conversation about anything concerning this series, you will have a hard time making me shut up. As a personal favour for my friends who are struggling with my constant babbling, I have volunteered to use my energy to write a column about the series, particularly about the many theories that fans of the show and books have formed in an attempt to debunk some of the mysteries that surround George R. R. Martin's complex story.

As a general disclaimer, all of the theories discussed here are in no way confirmed in canonical material, and of course, this column may contain some very serious spoilers concerning the series. This week, there will be spoilers for the entire first season of *Game of Thrones* and the first book of the same name in the *A Song of Ice and Fire* series. If you have not finished at least up to this point, read no further (unless, of course, you really don't care about spoiling the series, to which I must ask: don't you love yourself?)

One of the series' earliest and most pressing mysteries concerns Jon Snow, the bastard of Winterfell— more specifically, his parentage. From the moment we are introduced to Lord Eddard Stark we are told of nothing but his incredible sense of duty and honour, and yet within almost the same breath, we are introduced to his illegitimate son, conceived by an unknown woman, who we only know is not Ned's wife, Lady Catelyn. It seems a contradiction towards the very basis of his character, especially in the fact that he is consistently hesitant to discuss the circumstances of Jon's birth throughout the series. Ned Stark is not one for secrets, instead choosing to remain (at times stupidly) honest about his actions and mistakes— but he insists on keeping this particular secret with him even to his unfortunate death.

While there are a few theories floating around the internet regarding possible women Ned Stark could have been with and seen fit to protect, most of these are shrugged aside when the oh-so-famous R + L = J theory is explained in full. It suggests that Ned was keeping secrets not to protect himself, but for the sake of Jon and his mother— Ned's sister, Lyanna Stark.

Long before his rebellion against the Mad King Aerys Targaryen, Lyanna was betrothed to Robert Baratheon. While it is made undoubtedly clear that Robert is madly in love with the beautiful Lyanna, Ned suggests in the books that it was not a mutual love, as Lyanna was very wary of Robert's all-around unfaithful nature regarding women.

After his victory at the Tourney of Harrenhal, Rhaegar Targaryen, prince and heir to the Iron Throne, declared Lyanna Stark as his Queen of Love and Beauty— a scandalous choice for the customary title, as Rhaegar was married to Elia Martell, and Lyanna was betrothed to Robert. Not long afterwards, Lyanna was stolen away by Rhaegar, prompting a (rather complicated) sequence of events that ultimately lead to the start of Robert's Rebellion.

The next time Ned Stark sees his sister is near the end of the war. At this point, Rhaegar was already killed by Robert Baratheon at the Battle of the Trident, and the Mad King Aerys was already killed by Jaime Lannister in King's Landing. Despite this, three knights of the Kingsguard (sworn to protect the royal family) are present defending the tower where Lyanna was hidden, unwilling to leave their post. A battle ensues, which only Ned and his ally Howland Reed survive. Ned proves a rather unreliable narrator at this point, remembering only that he found Lyanna dying in her own blood, pleading "Promise me, Ned" with her last breaths.

Many fans speculate that this promise was for Ned to protect Jon Snow, Lyanna and Rhaegar's child. This would thus explain why Ned lied about Jon's parentage even to his closest friend, Robert Baratheon, as he harboured a maddening hatred for all Targaryens and would not react well to learning that the woman he loved had a son with the man he hated above all others. This theory would also explain why the Kingsguard insisted on defending the tower even after the death of their king and princeif Lyanna and Rhaegar were secretly married, it is possible that Jon could be considered an heir to the Iron Throne, as the Targaryens were known to practice polygamy.

There are numerous subtle references throughout the books that support this theory. Rhaegar is remembered by all (save Robert Baratheon) as a valiant and noble man, and not one that would abduct a woman against her will. It is likely that he and Lyanna shared deep affections for each other, and that Lyanna would thus plead to see their child safe with her dying breath. Ned is also hesitant to ever call Jon his son, instead referring to him as "his blood" and naming him as some sort of family, but never mentally including him amongst his own children.

The implications of this theory are quite numerous– does this make Jon a viable candidate to sit the iron throne? If so, did he forsake his claim when he joined the Night's Watch? Would this revelation make Daenerys his friend or foe? Rhaegar was her brother, but Jon's claim to the throne, as a legitimate son, would be stronger than hers as a sister. How many people would want to see Jon dead if this 'truth' of his birth got out? Would Jon even WANT the throne?

George R. R. Martin has stated that he plans on revealing the truth of Jon Snow's birth in a future book. If the R + L = J theory is to be believed, Ned's unfortunate beheading would leave only a single person who knows of this truth: Howland Reed, a Crannogman from the Neck who has been suspiciously absent from the series, choosing instead to remain inside the safety of his mobile castle, Greywater Watch. The theory has stood the test of time, with fan speculations first rising in 1996, when A Game of Thrones was first published. However, eighteen years of acceptance has lead many to think the theory almost too obvious to be true, and nearly clichéand Martin is nothing if not a smasher of clichés traditionally associated with the fantasy genre.



There has been much speculation on the parentage of Ned Stark's bastard who knows nothing

Striking it Rich in the Yukon



Mining is a big industry in the Yukon, which all started back in 1890s with the gold rush in Dawson City, not to be confused with Dawson's Creek. More commonly known as the Klondike,

the North". Eggs were sold at \$1 per egg, which roughly converts to \$100 today, and women dressed in Parisian silk. Who would have thought that a mining town, only accessible while the Yukon River was ice-free, would be home to riches other than gold? Miners didn't just appear in Dawson with these riches. The first miners would haul a ton of goods through the Chilkoot Trail. On average, it would take 40 trips to transport all the goods through the mountain passageway. They hauled enough supplies to last them a year. Those that made it big stuck around for longer and enjoyed the rich lifestyle up North. The stories I enjoy about the gold rush are about its women, or lack thereof. A lot of miners would send for their significant others on the first ship in the spring. They would come but as soon as the last boat out of Dawson was about to cast off for the winter, many of them would leave, some without a warning. I don't blame them, it would take a determined person to stay up north during the winter. The north is as isolated as it is cold. Dawson City hasn't changed much since its inception. The historic buildings still stand, even those that have been wrecked by permafrost. The streets are lined with wooden sidewalks and the statue of good ol' Diamond Tooth Gerties is still standing. The hustle and bustle from the gold rush is renewed every

summer as tourists flock the city, and dies down every winter as those brave enough to bear the cold visit.

If you find yourself up North, hike

the Chilkoot. Rumor has it that there are supplies along the way that didn't quite make it to the Klondike.



the gold rush in Dawson City ended as quickly as it started.

The most interesting part of the gold rush isn't the amount of gold that was found, but rather, the lives of those who lived there well after its prime. I'm reading a book titled *I Married the Klondike* which is a memoir of life in Dawson City, as the gold rush began to die down. It was written by Laura Berton, the mother of Pierre Berton, a school teacher in Toronto who departed to teach in Dawson City. It details life in Dawson after the big boom was over and creates images of luxury and comfort.

You'd expect the gold rush to be scenes of old men with scraggly beards and missing teeth holding panning for gold by the river day and night. I won't deny you this vision, as it was probably true in some cases, but what I learned in my short time up North made me rethink the Klondike. Dawson City, in its heyday, was known as "the Paris of

Mining in the Yukon dates back to the 1890s in Dawson City.



- **39** Spanish or Filipino marinade
- **41** The first man

42 What YOU'RE going to do on June 4 A sudden gush

"What will you be doing on June 12th?"

59 Stir



57 Quite the opposite of 56-down

Sudoku

NINA FENG 3A ENVIRONMENTAL

Ea	isy							
					3			2
	8		2			9		1
		9		5			7	8
7		3		6	9		8	
				7				
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3	1			2		5		
8		2			5		1	
9			7					

Medium

Hard

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

Issue 3 Deadline: Friday, June 20 at 6:00 p.m. Send your submissions to: iwarrior@uwaterloo.ca

2

3

The Iron Crossword

NANCY HUI

4A CIVIL

10

11

12

13

5 Protagonist of Breaking Bad



3 Not a shower, perhaps

"Sleeping at home or studying in a computer lab." Jie Lin, Electrical



"Maybe I'll be voting..." Usama Hamid, 2B Civil



"Recovering from Bomber..." Steve Jeon, 4A Civil



"Two interview conflicts and a midterm..." Diana Dickso, 2B Management



"Database systems midterm, URA meeting, getting ready for my birthday." Hannah Gautreau, 2B Management

IRON WARRIOR

"A whole crap ton of work, but at least I already voted." Ninja Phang, 3A Water & Soil