

Note: This document is hosted here for archival purposes only. It does not necessarily represent the values of the Iron Warrior or Waterloo Engineering Society in the present day.

HOW LABOUR LAWS
WILL APPLY TO US

Page 3

MEET YOUR ENGSOC
ELECTION CANDIDATES

Page 5

T CUBED: TAXI APPS

Page 10

facebook.com/TheIronWarrior

twitter.com/TheIronWarrior

iwarrior.uwaterloo.ca

Canadian Athletes Make Nation Proud at Winter Games



M. Smelther

The Women's Hockey team pose for a photo after defeating the Americans 3-2 with two goals in the third and a powerplay goal in overtime.

ELIZABETH SALSBERG 3N NANOTECHNOLOGY

It's been another exciting Winter Games for the Canadian Olympic team in Sochi. Highs and lows, surprises and expectations, it's everything we as fans and as Canadians look forward to every four years. After an extremely successful showing in Vancouver at the last Olympics, the Canadian team is looking for a repeat performance, albeit not on home turf. The Benchwarmer has been keeping a close eye on all of our Olympic stories, and in this issue has highlighted key Canadian performances throughout the Games!

Freestyle Skiing: Moguls

Of the four Canadian women competing in this event, three of whom were sisters, two won medals. Justine and Chloé Dufour-Lapointe took gold and silver respectively, edging defending Olympic champion, American Hannah Kearney, who won bronze. Kearney made a small mistake in her third run, opening the door for both Canadians, who each nailed down flawless third runs.

On the men's side, Alex Bilodeau became the first Moguls athlete to ever win gold in back-to-back Olympics. 21-year-old first time Olympian Mikaël Kingsbury brought home silver helping the Canadians dominate the podium in this freestyle skiing event.

Figure Skating Round-Up:

Reigning Ice Dance Olympic Champions Tessa Virtue and Scott Moir put down a fantastic performance again this year in both the short program and the free dance. In spite of this, American training partners Meryl Davis and Charlie White took the gold this time around by a significant margin (4.53 points). Many figure skating experts felt that this was biased and faulty judging, trying to ensure that the Canadians did not win gold. Nevertheless, these silver-medalists deserve the same recognition they got in Vancouver.

Virtue and Moir also lead the Canadian Figure Skating team to a second-place finish in the inaugural team event. The rest of the team featured would-be men's singles silver-medalist Patrick Chan, Kevin Reynolds (men's singles), Kaetlyn Osmond (women's singles), Meagan Duhamel, and Eric Radford along with Kirsten Moore-Towers and Dylan Moscovitch (pairs).

Freestyle Skiing: Women's Slopestyle & Men's Halfpipe

With slopestyle and halfpipe making their Olympic debuts in Sochi, Canada's athletes were up to the challenge of making Olympic history: Canadians Dara Howell and Kim Lamarre won gold and bronze respectively in the inaugural appearance of this event. Howell won by a wide margin, with a best score of 94.20. American Devin Logan squeezed past Kim Lamarre by a mere 0.4 points to take the silver. In Men's Halfpipe,

Canadian Mike Riddle rode his way to a silver medal with a score of 90.60, 1.4 points behind gold medal winner David Wise of the United States. These performances cap an incredible Olympics in Freestyle Skiing for the Canadians this year in Sochi.

On a side note, Canadian Mark McMorris defied expectations and won the bronze medal in the Men's Freestyle Snowboarding Slopestyle, bringing home one of Canada's first medals of these Olympics.

Short Track Speed Skating: Round-Up

Canadian short track superstar Charles Hamelin was not only looking to defend his gold medal in the 500 m and 5000 m relay, but also to bring home a few more medals in the 1000 m and 1500 m distances after a slight disappointment in Vancouver. Though Hamelin fell out of his specialty 500 m and crashed out of the 1000 m, he took the gold in the 1500 m. His technique of gaining and then keeping the lead helped him win his heat and semifinal before winning gold. In the 500 m distance, 22-year-old Charle Cournoyer defied expectations, winning bronze in his first Olympics, and also his first-ever final. As for the 5000 m relay, Canada's men's team (Charles Hamelin, Olivier Jean, Micheal Gilday, Charle Cournoyer) came up short, finishing fourth in their semifinal in a very tight field, though they did finish first in the B Final.

On the Women's side, the 3000 m relay team (Marie-Ève Drolet, Jessica Hewitt,

Valérie Maltais, Marianne St-Gelais) took silver in an exciting A Final contest. Defending 500 m silver-medalist Marianne St-Gelais finished fourth in the B Final after a close third place finish in the semis. Despite the disappointment this time around, look for her to bounce back in future international contests—including the 2018 Winter Olympics in South Korea.

Men's Super G & Ladies' Downhill Skiing

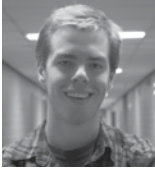
On what was quite an experienced Canadian Men's Downhill Ski team, featuring Erik Guay and Manuel Osborne-Paradis, it was Czech-borne Jan Hudec who broke through for the Canadians, tying for bronze with American Bode Miller in the Men's Super-G. This was the second skiing event in which there was a tie for a medal—in the Women's downhill, Tina Maze (Slovenia) and Gisin Dominique (Switzerland) shockingly tied for gold, with no silver handed out at all. The bronze went to Switzerland's Lara Gut.

Men's Long Track Speed Skating: 1000 m and 1500 m

28-year-old Denny Morrison was never supposed to take part in the Men's 1000 m... until teammate Gilmore Junio gave up his spot in the event claiming that it was "in best interest of the team" to have Morrison skate in his place.

Continued at CANADA on page 9

To Clinton Colwill: My Grandfather



SPENSER GOOD
EDITOR-IN-CHIEF

I will immediately begin on to the main topic of this article, my late grandfather Clinton Colwill, better known to us grandkids as “Grampie,” because he deserves all of these 1700 words. A lot of my friends laughed at this term of endearment, but to us there was no better name for the man. He was everything a grandkid could ask for and more: caring, insightful, and always up for an adventure. He was also a very quiet man, unafraid to speak his mind but also felt no need to fill silence with banter (a quality I did not inherit, for the record). These words do little to describe a man with so many positive qualities, and I think it is valuable for me to expand on the life of Clinton Colwill, a man that I will always be proud to have called “Grampie.”

My grandfather was born in the tiny farming community of Northam, Prince Edward Island on March 3, 1930. He was the third child in a family of eight, and like most Island families at the time, frivolousness was unheard of. He dropped out of school in eighth grade to work on the farm and stayed there until 1963. With advancements in farming technology, the days of the family farm were dying. Determined to make it work on the Island for my grandmother (Jean, still alive and healthier than I will ever be), my mother (Darlene), and my uncle (Barry), my grandfather took over farming duties and worked another job as a bricklayer to try and make Island life possible. Despite working outrageous hours in back breaking jobs, my grandpa foresaw that life on the Island held little future; it would be one of poverty, or of government dependence. Both options were equally undesirable for such a proud man. As such, he sold the farm and moved the family to Toronto. The intimidation presented by such a move must have been overwhelming for a family used to a simple life on a Prince Edward Island farm. Insightful though he was, there was no way my grandfather could have foreseen the role he would have in shaping Toronto when he arrived there.

An immigrant from the same country, my grandfather had to scrape from the bottom of the barrel for years to support his family, which, soon after their move to Toronto, expanded to include my other uncle, Scott. He worked menial, laborious jobs at gas stations and the like for privileged city residents while attending night class to complete his high school education. My grandmother, also no slouch, babysat during the day in their tiny two-bedroom apartment to bring in some desperately needed cash. I was often told that these were hard times, but I was also reminded that there was always food on the table and that a good time was never far off for my grandparents even when life was so stressful. Despite these hard times, I can say with confidence that my grandparents never whined. They did what they could: they

worked, they raised their kids, and they still enjoyed life. Eventually, all the scraping by and determination paid off. My grandfather would eventually obtain his Elevator Technician’s license, a trade that had been taken up by several of his family members and one that still features prominently among my mom’s cousins and younger generations of my family (including my uncle, Scott).

Unfortunately, my knowledge on the next few years of my grandfather’s life is not as extensive. What I do know, however, is that he quickly moved up the ranks to become one of Otis’ top big job foremen. This was a significant accomplishment, especially considering his late coming to the trade, and some severe health issues (when my grandfather was diagnosed with cancer he had to chronicle his entire health history, which took close to an hour, according to my mother). During his memorial service, one of his old elevator friends sent in a letter describing my grandfather as Otis’ “best big job foremen.” His importance to Otis would be highlighted by the biggest job of his career, as an elevator foreman for the construction of the CN Tower. For the majority of the project, my grandfather oversaw the construction of a complex arrangement of elevators in the world’s tallest building at the time. (It was to hold the title for another 34 years.) When my grandfather retired, he was able to proudly state (not that he did very often) that he was integral to the construction of one of our country’s most recognizable symbols and one of the world’s engineering marvels. Only slightly over a decade removed from working for cents on the hour at a gas station, my grandfather had played a major part in building the identity of one of the world’s greatest cities and nations. I’m sure if you were able to ask him, he would state that building the CN Tower was his easiest job yet, a day in the park compared to working at a farm or bricklaying.

My grandfather rarely spoke of his experiences in shaping Toronto, I doubt highly that he believed his contributions were as great as I see them, which is unfortunate, but I respect his reserved nature nonetheless. I’m sure that, to Clinton Colwill, he was only doing what every adult needs to do, to provide for his family by his own means. He did this and more. I hope that my shortened recap of his professional career was not too rife with historical errors. If so, I am sure my family will correct me on it. I think it is also important for you readers to understand why I personally had so much respect and admiration for my grandfather, professional career aside. Unfortunately I am running out of words to illustrate this admiration in great depth, but I want to speak of a few specific traits of my grandfather that struck me as so impressive.

The first trait I want to comment on is how reliable and diverse my grandfather’s skill set was. He was a man of many talents. An outstanding woodworker, he could also act as a plumber, electrician, mechanic, gardener or pretty much any variety of handyman you care to think of. These traits made him a desirable asset for relatives performing renova-

tions or projects of any kind. Not only was he happy to oblige, he was almost always the hardest worker present (with the possible exception of my grandmother, of course) and his ability to simply “get shit done” always blew me away. His knack for swiftly finding the quickest solution possible was uncanny, and I hope that as an engineer I will be able to embody some of his problem-solving ability. Less than a year after a double knee replacement in his mid-seventies, my grandfather went up, cane in hand (except when he needed both for the chainsaw, of course), to his brother Ernie’s for their annual woodcutting weekend, falling and gathering lumber from countless trees. A shining value of perseverance, my grandfather proved that a man is as strong as his will, and I will always be inspired by his grit and determination.

Another story I want to include is one not of work ethic, determination or willpower, but instead one of sheer kindness. Five Christmases ago my grandfather gave me the greatest gift I have ever received, and likely ever will receive. After opening all of our gifts, the five grandsons were called over for one final gift. As Grampie stood proudly nearby, we each pulled a handmade wooden clock from the gift bags. We were all awestruck and deeply touched. I swear he must have started those clocks in April, and I will always cherish the clock that my grandfather made. What I find even more magnificent is that I wager my grandfather would have been just as proud of these handmade keepsakes as he was of the CN Tower. Nothing could have made him prouder than making us happy, and I still miss his calming demeanor and the feeling of safety he provided to us.

At 81 my grandfather was diagnosed with lung cancer, which had already spread to his bones and lymph nodes. Upon being told he had months to live, my grandfather did not even blink an eye. Always true to character, he accepted what was and moved on to prepare my grandmother and his family for the inevitable. I spent as much time with him as I could in his final months, despite how difficult it was for me to watch a man of such stature be crippled by such a terrible disease. I heard of his passing by phone at home while my grandmother, mother, and uncles were by his side at his home in Bradford, Ontario. After hanging up the phone I looked outside the window of my porch and saw a raccoon standing and looking in the glass at me, and I felt a level of calm that did not match the circumstances. After staring at me for a couple minutes, he turned and walked off into the dark. I like to think that this was a reminder that my grandfather is still with me, watching and reassuring. The next day my dad told me the raccoon was probably attracted to the tuna we had barbecued the night before. This could be true. Either way, my grandfather’s legacy stands 550 metres above the Toronto skyline, or in the ticking of his homemade clocks. I can proudly tell my own children and grandchildren about how he built the CN Tower, but for me, it will always be the silent ticking of his clock that brings me peace.

Advertise With Us!

Want to reach a wide, intelligent audience which includes students, faculty and staff at the University?

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

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

For more information, please visit iwarrior.uwaterloo.ca/advertising or contact us at iwarrior@uwaterloo.ca, 519-888-4567, Ext. 32693

Issue #4 Deadline: Friday, March 7 at 6:00pm for publication on Wednesday, March 12, 2013

Send your submissions to iwarrior@uwaterloo.ca

Winter 2014 Publication Schedule: January 22, February 5, February 26, March 12, March 26

THE IRON WARRIOR

The Newspaper of the University of Waterloo Engineering Society

Editor-in-Chief
Spenser Good

Assistant Editor
Lucas Hudson

Layout Editors
Lucas Hudson
Krishna Iyer
Leah Kristufek
Cameron Soltys

Copy Editors
Supreet Kaur
Leah Kristufek
Michael Laanvere
Andrew McMahon
Christy Rouault
Jacob Terry

Advertising Manager
Michael Laanvere

Circulation Manager
Leah Kristufek

Web Editor
TBA

Staff Writers
Meagan Cardno
Allen Chen
Kate Heymans
Lucas Hudson
Nancy Hui
Vismit Joshi
Joshua Kalpin
Derek Kan
Leah Kristufek
Michael Laanvere
Alexander Lee
Sabrina Li
Kevin Liang
Andrew McMahon
Christy Rouault
Ronau Sabharwal
Elizabeth Salsberg
Cameron Soltys
Anjida Sripongworakul
Jacob Terry

Contributors
David Birnbaum
Drew Dutton
Kevin McNamara
Leila Meema-Coleman
Annamaria Reda

ADVISORY BOARD

Off-Stream Editor-in-Chief
Nina Feng

Executive Members
Brendan O’Hanlon
Annamaria Reda
Mathieu Tremblay

Students-at-Large
Liz Celentano
Kelsey Waugh

The Iron Warrior is a forum for thought-provoking and informative articles published by the Engineering Society. Views expressed in The Iron Warrior are those of the authors and do not necessarily reflect the opinions of the Engineering Society.

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

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

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

Growing Food for Thought

KRIS KOLENC
UW AQUAPONICS

UW Aquaponics was created in 2010 as the University of Waterloo's first aquaponics design team and as one of Southern Ontario's only post-secondary school aquaponics teams. Aquaponics is a closed-loop food production system which uses the natural symbiosis of plants and aquatic life to produce both plants and fish as an efficient and consistent food source. In short: the fish waste creates nitrogen rich nutrients for the plants, which in turn filter the water for the fish by absorbing and removing the nutrients from the water. This allows both the fish and plants to thrive off of minimal external input and to continuously clean and recycle the water in the system. The goal of UW Aquaponics is to explore aquaponics as a means to produce sustainable local food and to educate others on sustainable food systems within Waterloo Region and beyond. The group has one operating aquaponic system that can be found on the first floor of Engineering 5. System 2 is in construction and is to be completed by the end of this term.

On March 8 of this term, UW Aquapon-

ics will be hosting the "Growing Food for Thought" Workshop. This is the team's second annual aquaponic workshop which will bring together industry professionals and students to network and share knowledge about aquaponics. This year's workshop features a talk from Nate Storey, a well known academic, innovator and entrepreneur of the Aquaponic community from Wyoming, US. UW Aquaponics hopes that the workshop will encourage student groups from other universities to start their own aquaponics team.

If you're interested in sustainable food systems, urban agriculture, or in just learning more about aquaponics in general, UW Aquaponics is always welcome to new members. Weekly meetings are held every Tuesday at 5:30 p.m. in E5 2103. You can check out the group's Facebook page at [facebook.com/AquaponicsFoodForThought](https://www.facebook.com/AquaponicsFoodForThought) where you can register to attend the "Growing Food For Thought Workshop" on March 8. UW Aquaponics is looking forward to this event as an opportunity to display their new aquaponics system, to learn more about the industry, and to connect with others who are interested in the field of aquaponics.

PEO, Did You Know?



**ANDREW
MCMAHON**
3B ENVIRONMENTAL

On the first of June, the general minimum wage in Ontario will be raised from \$10.25 to \$11.00, but technically that rule doesn't apply to anyone with an iron ring. The Ontario Ministry of Labour enforces the Employment Standards Act (ESA), which sets out the minimum standards that employers and employees must follow. There are a number of professions which are not covered by the ESA, and even more that are exempt from certain sections of the act. As it turns out, a person employed as a duly qualified practitioner of professional engineering falls under the latter of those two categories.

As a professional engineer, an employee is not: entitled to minimum wage, covered by the daily and weekly limits on hours of work, covered by the daily rest period rule, covered by the time off between shifts rules, covered by the weekly/bi-weekly rest period rule, entitled to an eating period, entitled to overtime pay, entitled to personal emergency leave where taking the leave would constitute an act of professional misconduct or dereliction of professional duty, entitled to public holidays or public holiday pay, and not entitled to a vacation with pay.

These exemptions and special rules come into existence as a result of lobbying from industry representatives to elected officials. For those who don't know, lobbying is the act of attempting to influence decisions made by officials in the government. These industry representatives must show how these rules are necessary to complete their work effectively. Documents regarding the details of these justifications are not readily available and as a result, any analyses presented in this article are purely speculation.

The ESA sets out the minimum standards that employers and employees must follow. This means that just because these rules and exemptions apply, it does not mean that they are put into practice often, or even at all. Professional Engineers of Ontario (PEO) states that its mandate is to ensure that the public is protected and that individuals and companies providing engineering services uphold a strict code of professional ethics and conduct and in

order to uphold that mandate, some exemptions needed to be put in place. In the event of some sort of emergency where there is the need for industry professionals to work around the clock in order to right the issue, it may be necessary to enforce some of the exemptions from the act. At the same time, if the exemptions were enforced on a regular basis very few people would pursue a career in that profession, and employee morale would be too low to facilitate dedicated work.

Professional engineer is not the only occupation with exemptions or special rules; architects, IT professionals, lawyers, managerial and supervisory employees, municipal employees, Ontario government and Ontario government agency employees, public accountants, surveyors, and teachers are all included in the government, white collar, and professionals industry group. There are eight of these industry groups to which exemptions apply, each of them having their own list of occupations. The Ministry of Labour has a "Special Rule Tool" on their website (goo.gl/hZBFTu) for anyone interested in looking into this subject further.

A Weekend at Carleton

The Scoop on FYIC 2014

AARON LOBO & DON TU
1B CHEMICAL & ENVIRONMENTAL

On the morning of Friday, February 7, 2014, eleven brave first-years and one even braver VP-External departed from the University of Waterloo for Carleton University. Their mission? No one really knows. Well, except for us, because we went. And we're not saying anything.

Okay, okay. It was for the First Year Integration Conference (FYIC)!

If you didn't already know, the First Year Integration Conference is an annual event held by the Engineering Student Societies' Council of Ontario (ESSCO). It features lectures and workshops geared towards getting first year engineering students engaged with the Engineering Societies at their home universities, as well as with the engineering community at large.

The conference is open to all of ESSCO's fifteen member schools. From the southern reaches of Windsor, all the way up to Lakehead in northwestern Ontario, over 80 delegates converged on Carleton. It was very exciting to meet fellow first-years from all over the province and to see what engineers were like beyond the boundaries of Waterloo – and to be honest, they're not all that different!

Things got off to a great start on Friday with an introduction to ESSCO, along with the Canadian Federation of Engineering Students (CFES), and a quick session on how to network with others. After the opening session, we were whisked away to Tailgators, a pool hall, where a night of fun awaited us.

The rest of the weekend was a great mix of different activities. During the sessions we took part in mock elections, learned about engineering culture, discovered what being on the executive council is like, and, of course, MORE ACRONYMS! The Ontario Society of Professional Engineers (OSPE) and Professional Engineers Ontario (PEO) showed up and talked about engineering after graduation. In an exciting twist, Kim Allen – the CEO of Engineers Canada, the body that advises all engineering groups across Canada – showed up! We got to hear him speak and even got to take a picture with one of the most

important engineers in Canada! Hearing Mr. Allen speak was engaging and informative!

For leisure, we had two main events, both of which took place on Saturday night. First came the banquet, where everyone showed up in their finery with splendid suits and dresses. Carleton's engineering mascot, the Gong, even made an appearance (and it definitely was not as cool as the Tool – but really, what is?). Not long afterwards began phase two of the festivities: Winterlude, an annual event in Ottawa where you could go skating on the Rideau Canal, admire some ice sculptures, or just enjoy a fresh beavertail.

Then Sunday came, and although the goodbyes were bittersweet, we looked back on how fascinating it was to learn about engineering as more than just assignments and exams and we couldn't have been happier. Doing it with dozens of like-minded students from across the province just made it even better. There's no doubt about it - FYIC was a blast and it inspired all of us to get involved. We'd like to thank Dean Sullivan, Allyson Francis, David Birnbaum, Leila Meema-Coleman, and all the EngSoc and ESSCO executives who made it possible for us to attend this conference!

Now, if you're in first year (or even if you're not), it's always fun to get involved with your EngSoc. We're going to leave you with a few, simple things that you can do, as presented at FYIC:

- Attend an EngSoc meeting. Come out and see how your fellow students help run Waterloo on Wednesday nights at 5:30 p.m. in CPH 3607
- Join a committee! There's tons of committees that get to run awesome events or services.
- Become an orientation leader, because Orientation week is great!
- Join an intramural team, because sports are good for you and lots of fun!
- Write for the Iron Warrior! Like us!

Now get out there and do something. Thanks for reading!

KITCHENER WATERLOO



Travel Vaccines & Advice

by Appointment

Health Canada Certified for Yellow Fever

519.570.4208

www.kwtravelclinic.ca

Physicians Certified in Travel Medicine

you deserve a **study break!**
take shelter from school work at

THE BOMBSHELTER PUB ST. PADDY'S DAY!

GREATEST DAY OF THE YEAR!

MONDAY, **MARCH 17TH**

special menu | irish dancers | fiddlers

free t-shirt & keychain

get there early! **doors open 10am**



FEDERATION OF STUDENTS
YOUR WATERLOO STUDENT UNION

19+
id required

ALSO, JOIN US WEDNESDAY, MARCH 12TH! FOR WTFEDS

19+ TOGA DANCE PARTY

TICKETS ON SALE FOR BOTH EVENTS SOON AT THE **FEDS MAIN OFFICE & THE BOMBER**

go to bomber.ca to check out all our events @[bombshelterpub](https://twitter.com/bombshelterpub)

Engineering Society Election Candidates



**Joshua
Kalpin**

Candidate for
Vice President,
Education

**Leila Meema-
Coleman**

Candidate for
President

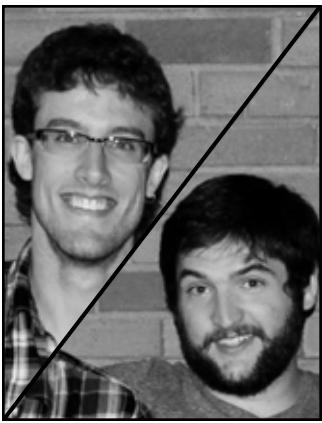


**Heather
Smith**

Candidate for
Vice President,
External

**Abdullah
Barakat**

Candidate for
Vice President,
Internal



**Dylan Dowling &
Cody Bechberger**

Candidate for
Vice President,
Internal

**Puneet
Natt**

Candidate for
Vice President,
Internal

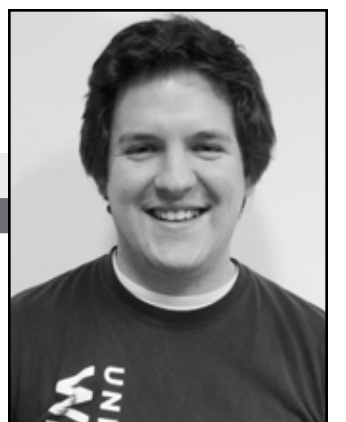


**Jake
Harvey**

Candidate for
Vice President,
Finance

**Kevin
McNamara**

Candidate for
Vice President,
Finance

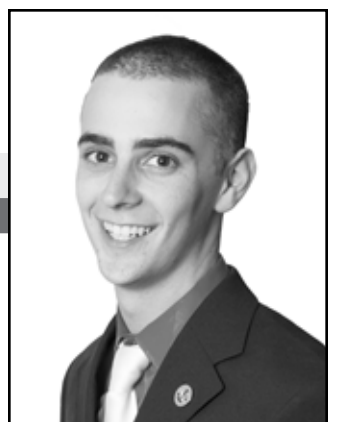


**Anthony
Clark**

Candidate for
WEEF Director

**David
Birnbbaum**

Candidate for
WEEF Director



**Campaigning:
March 3 - March 7**

**Voting:
March 8 - March 11**

Presidential Shortcomings



DAVID BIRNBAUM
PRESIDENT

Hello wonderful IW reader,

If you know about the goings-on of EngSoc, you will be aware that the executive elections are coming up soon. As they close, they will give way to a new set of Executive, including, of course, a new President. As that happens, and my tenure as the President comes to an end, I will of course write the obligatory article speaking about how great of a time I had, and all of that jazz. With this article, however, I wanted to talk about something that you, as a student, should be more concerned about: what I failed to accomplish as President. I still have two months left, and will be hoping to move forward on these, but I am also being realistic in this regard. Note: the purpose of this article is exclusively to highlight where I did not succeed as president. For my accomplishments over the past 14 months, please check out past articles and updates.

At this moment, a lot of you might be thinking that you don't care about that at all, and that you don't really have to. I am here to tell you that you are very wrong. The moment that the engineering student body stops caring altogether about what the Engineering Society does is the moment that it stops serving them. That is why I want to let you know what goals I had that I did not meet, and the other areas that I was/

am lacking as a President. Next issue I hope to talk about what I feel still needs to be done to push the Society forward, specifically talking about ongoing projects.

I will start by talking to those things I promised to you in my campaign that went unfinished. On the advocacy front, although we have gained access to the undergraduate mailing list, we have yet to take full advantage of it. A strategy for communication to the members is something that definitely needs to be created, and I was unable to do that in my term. I was also hoping to have implemented Annual General Meetings for the members, which was unsuccessful. I am happy that a process is currently underway that should hopefully allow those to be a reality by Fall 2014.

The services portion of my campaign is probably where I have failed the most. I had high hopes for the creation of a new style of exam bank which would see us receive exams directly from the Faculty. Although the proposal has been submitted to the Dean's office, it is currently sitting there still. I hope that, failing its progress by the end of this term, my successor is able to apply the proper pressure to get this to the table. The Textbook library was another idea I was pushing, which has had extremely underwhelming results. It seems the skeptics were right, that it isn't going to be well utilized. I recommend to those in charge of the Society in the future either try to focus on the first year books and expand from there, or to shut it down as a failed initiative. Finally, although there has been work put

into hosting an Engineering Society Career Fair, the plan to have the first one during my term was unsuccessful. I hope that the groundwork done will enable EngSoc to host one within the next year or two.

There were some other lofty goals, regarding the Federation of Students, incorporation, and our fees. I am sad to say that in my opinion, all of these have failed, quite badly. Incorporation is being looked into currently by a committee, but my accelerated timeline was not met. I was hoping to push for our fees to be collected through the faculty, which in my opinion is still as far away as it ever was. I had campaigned on trying to forge a better relationship with the Federation of Students as well, and I can say with honesty I almost certainly made that relationship worse. Again, it is my hope that the incoming executive will be able to work with the newly elected Feds Exec to bring our two groups closer together. EngSoc only stands to benefit from a well-established and outlined relationship with Feds.

As for my other shortcomings as President, there are more than a few and this article is already well over my 500 word goal, so I will be brief. Firstly, I really pushed my vision. I came into my term knowing exactly what I wanted EngSoc to look like when I was done it, and didn't want anyone to stand in my way. This is a problem when you are in a position to serve 6000 students. Too often would I get into arguments with our Council regarding something I wanted to accomplish. I lost sight of the fact that

first and foremost I am here to serve them. Even though I may disagree completely with a decision they make, I need to move on to something else, rather than get upset over it. A message to the next set of executive: always remember that even if you disagree with Council's vision, it comes first.

Another big problem I have had was keeping my motivation. I can provide the normal excuses, that I have six courses, other things going on, but I don't accept those from other people, and won't from myself. For some reason I have not been as motivated as I was for the first 12 months of my term. If you are on my executive team, council, or are informed about what I have been doing, I hope you have been overwhelmed this term. You should not accept the low amount of tangible things I have accomplished this term. Although there is still just over a month left, and I hope to significantly increase my output for the month of March, this term is currently self-recorded as a failed one.

I hope this article has enlightened you to my shortcomings as President, both generally and with executing my goals. I hope it has provided at least a little insight into my Presidency, and you can believe me when I say I am one of my own harshest critics. With that said, I do hope to be able to pick up my game for my remaining time as exec, and make my last month one that I can be proud of.

As always, if you have questions or concerns, or additional feedback, please email me at president.a@engsoc.uwaterloo.ca

Decreasing Final Exam Stress



DREW DUTTON
VP EDUCATION

Reading week has come and gone, and we are into the last month of classes. I hope you enjoyed your break, because like it or not, exams are fast approaching. This week I will highlight regulations and policies regarding final examinations. I think we can all agree that exams are a stressful time of year. That being said, the University of Waterloo strives to create a level playing field for all students. Examinations are scheduled with three principles in mind: no student shall write two exams in two consecutive exam periods, no student shall write an exam in the last period of one day followed by an exam in the first period of the next day, and no student shall write more than two exams in a single day. University pol-

icy guarantees accommodation for examination conflicts when a student reports the conflict with the Scheduling Office within seven days of the appropriate examination schedule being released. That being said, if you have neglected to report examination conflicts within this time frame, talk to your professors about what accommodations might be possible. This should be done AS SOON AS POSSIBLE!



Accommodations for religious conflicts are made at the University of Waterloo. The University of Waterloo recognizes and values the incredible diversity of cultures and religion found on our campus. Such conflicts should be reported following the same procedure as above: inform the Scheduling Office within seven days of the applicable examination schedule being released.

Final exams cannot exceed 2.5 hours in duration, and are scheduled for Monday through Saturday. Additionally, there are

four prearranged time slots exams can be written in: 9:00 a.m. to 11:30 a.m., 12:30 p.m. to 3:00 p.m., 4:00 p.m. to 6:30 p.m., and 7:30 p.m. to 10:00 p.m. Exams scheduled outside of these times and days must allow for student accommodation if a legitimate conflict exists. If you should become ill during final examinations, students are required to provide a Verification of Illness Form, available on the University of Waterloo Health Services webpage. Bear in mind that a cold does not count as an illness with grounds for special accommodation, only significant illnesses are grounds for deferred examinations. A general rule of thumb is that if you think you can reasonably sit through 2.5 hours, then you are expected to write the exam as scheduled.

In regards to the act of writing examinations, there are a few rules of which to be sure. This is likely an extremely rare event, but if there are no proctors at the assigned examination room, students must remain in

the room for 30 minutes after the scheduled start of the exam before leaving. Assuming all goes well and the exam begins as scheduled, students must remain for an hour before they can submit their exam and leave. During the last 10 minutes of an examination, all students still in the room are required to remain in their seat. Any students who arrive late for an examination will be allowed to enter and write the exam, but additional time will not be granted. The single exception to this rule is if a student arrives over an hour late, and other students have already completed their exams, in which case it will be at the proctor's discretion whether or not the student will be allowed to write the exam. For the complete list of procedures and policies please visit uwaterloo.ca/registrar/final-examinations/examinationregulations-and-related-matters, and feel free to stop by the EngSoc office if you have any questions. Happy studying, and don't forget to bring your WatCard!

Upcoming Events Calendar							
Wednesday February 26 EngSoc Meeting #4 17:30 - 19:30, CPH	Thursday February 27 Running Club 18:00 - 19:00	Friday February 28 MOT 20:00 - 22:00, POETS	Saturday March 1 March Break Open House 2017 Outdoor Day 14:00 - 17:00	Sunday March 2 Rube Goldberg — Final Build Day and Filming 09:30 - 13:00, Student Design Centre	Monday March 3 Exec Campaigning Global Cafe 11:30 - 13:30, POETS WEFF Presentation Meeting 1 17:30 - 20:00	Tuesday March 4 Exec Campaigning Women in Engineering Day WEFF Presentation Meeting 2 17:30 - 20:00 Running Club 18:00 - 19:00	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca  
Wednesday March 5 Exec Campaigning Alumni Speaker 17:30 - 19:30 Academic Rep Meeting 17:30 - 18:30 Colouring Contest Submission 20:00	Thursday March 6 Exec Campaigning WEFF Funding Council Meeting 17:30 - 20:00 Running Club 18:00 - 19:00	Friday March 7 Exec Campaigning Gradcomm Event #4 11:00 - 02:00 Open Mic Night 19:00 - 21:00	Saturday March 8 Exec Voting Minor Hockey Game 09:30 - 10:30 CANstructions: Buidling 18:30 - 21:00	Sunday March 9 Exec Voting Department Olympiad	Monday March 10 Exec Voting Pi(e) Week Global Cafe 11:30 - 13:30, POETS Digital Eletonics Student Workshop 18:00 - 22:00	Tuesday March 11 Exec Voting Pi(e) Week Interview Skills Workshop 16:30 - 18:30 Running Club 18:00 - 19:00	

Why Conferences Matter



LEILA MEEMA-COLEMAN
VP EXTERNAL

Hello lovely engineering students! As my term as VP External is winding down I wanted to share my thoughts on a topic that has been discussed in EngSoc for some time now. What benefit do we get from being members of ESSCO, CFES and sending delegates to various conferences throughout the year? I am a strong supporter of conferences for leadership development, personal networks and inspiration; and this article will hopefully serve to convince you of the benefits of these conferences.

Every time I open up applications for a conference I think about who the ideal delegate will be and look for that as I am reading applications. It changes based on the conference, for example an ideal

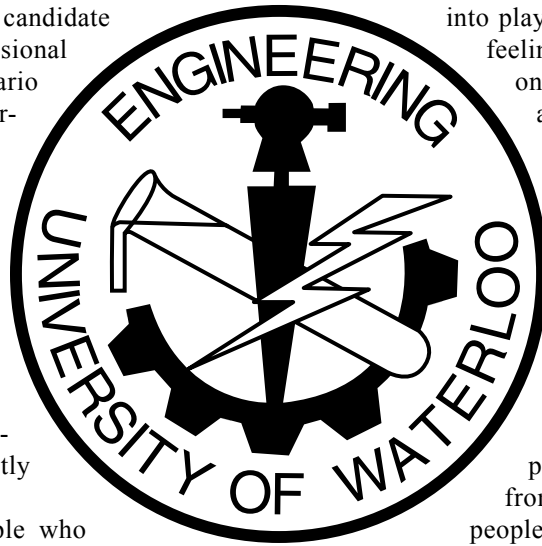
National Conference on Women in Engineering would be someone with a passion for diversity and social change whereas the ideal candidate for the Professional Engineers Ontario Student conference would love policy and governance. Applicants' passion show in their responses and it is always very exciting when someone who fits the conference perfectly applies.

However, people who are that passionate about policy are few and far between, so what then? How do we try and select someone who will benefit the most and take the

most out of the conference experience? That is where the most important takeaway from conferences comes into play: inspiration. That feeling when you leave on Sunday morning after a weekend of discussion on how to make a change and how to make the most of your skills stays with people and serves as motivation. Those are the people who benefit from conferences, the people who dive right into the sessions and bring back the ideas they learn to benefit Waterloo. Conferences did this for me when I

attended the First Year Integration Conference in my 1B term. Before the conference I had not been fully sold on university life and what I as a random first year could do to make a difference. That all changed during that weekend after being surrounded by the crazy energy that is 80 hyper-active first years for over 48 hours straight. I came back energized and had discovered my passion in engineering outreach after a session run by some other schools VP externals.

This experience is not unique to me and my favorite part of every conference is afterwards when I can ask delegates what they learned. They never fail to have an answer and the answers change year after year. Our delegates are still engaged, productive and active learners at all of the seven conferences we attend every year. Until the answer to my question "what did you learn" changes to "nothing" conferences will still be important and still be worthwhile.



Engsoc Sponsorship, Coveralls and ECIF



KEVIN MCNAMARA
VP FINANCE

Hello Engineering Students! I hope that you all enjoyed your reading week, and had some time to get rested up for the rest of the school term. Congratulations to those of you who have finished midterms and good luck to those who are right in the middle of them. Here are some things that are upcoming on the finance front.

Engineering Society Sponsorship is happening now! Each term, a certain percentage off the Engineering Society budget is allocated towards sponsoring student teams and groups on campus. Any student group who is on campus is eligible to apply, and should head over to the Engineering Society Website (engsoc.uwaterloo.ca/sponsorship) and fill out the form. The applications are due at 5:00 p.m. on Friday, February 28 and any group that applies must do a brief presentation to the Sponsorship Committee in the afternoon of March 2. The commit-

tee will then deliberate and allocate the funds, and they will be brought forward at the Engineering Society Council Meeting on March 12.

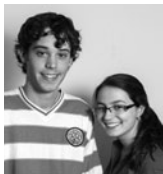
The Engineering Capital Improvements Fund (ECIF) Committee met this past Tuesday to decide where to allocate the funds for the term that go towards improving the facilities of the society and its affiliates, and in general improving engineering student life on campus. These allocations will be brought forward for approval at the Engineering Society Council Meeting on March 12, so keep an eye out

for the results of that.

I am still waiting on the coverall order to come in, but don't fret because they should be on the way soon. To get your Novelties fix for the week, come out to the Fire Sale that will be happening Friday, February 28 in CPH Foyer from 12:00 p.m. to 1:00 p.m. Get the lowest prices ever on some awesome Novelties swag.

That's about all for this week! I hope that everyone enjoys the rest of their terms. As always, please do not hesitate to ask me if you have any questions related to EngSoc finances.

Let's Get Back to Business



**ANNAMARIA REDA
BRENDAN O'HANLON**
VPS INTERNAL

Hello Everyone! I hope you had an awesome and relaxing reading week! The term is starting to come close to the end! However, The Engineering Society is back in full swing and we have some awesome events lined up for you in the next few weeks.

Although two of the three building days have already passed, we are looking for students to help us build a Rube Goldberg Machine! The final building day and filming will be taking place starting at 9:30 a.m. on March 2. If you are interested in helping out, or you want more information on this event, send me an e-mail at vpinternal.a@engsoc.uwaterloo.ca and I'll get you in touch with the right people.

Do you like trivia? How about candy? Then you should come on out to Genius

Bowl on March 19 at 7 p.m. You can sign up on the orifice door in groups of 4-5 and attempt to be this term's Genius Bowl champions. Students are also welcome to attend and watch, while enjoying large amounts of candy!

Our termly Engineering Talent show, TalEng, is coming up on March 20! Our directors are looking for performances of all types. If you play an instrument, dance, juggle, sing, or have any hidden talent you want to show off, head on over to bit.ly/TalEng2014 to sign up and get

a spot in the show! Just want to come watch? This event will be taking place at Wilfs starting at 9 p.m. It's guaranteed to be an awesome time. You can grab some food, drinks and enjoy the show with your friends and classmates.

Be sure to check out our events calendar at engsoc.uwaterloo.ca/events to keep up to date on everything going on! As always, feel free to e-mail me at vpinternal.a@engsoc.uwaterloo.ca with any questions you may have.

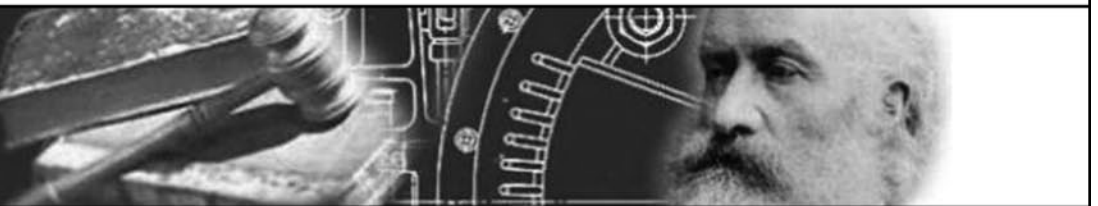
See you later, alligators!



Sandford Fleming Foundation

Professionalism.
Leadership.
Communication.

There's more to an engineering education than engineering.



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 April 25, 2013 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 April 25, 2014

E2-3336, Extension 84008, sff@engmail.uwaterloo.ca
www.eng.uwaterloo.ca/~sff

WATERLOO | ENGINEERING

TransCanada Corporation Employment Information Session

EXPLORE OPPORTUNITIES WITH TRANSCANADA,
A LEADER IN THE RESPONSIBLE DEVELOPMENT OF
NORTH AMERICA'S ENERGY INFRASTRUCTURE.

Join company representatives at TransCanada Day in Waterloo

Employment Information Session
Thursday, March 13, 2014 | 5:30-7:30 p.m.

TransCanada Live-Link Facility
Engineering 5, Room 3102

Food and refreshments
will be served.



Please **RSVP** via the info sessions calendar on the Co-operative Education website, at ceca.uwaterloo.ca/students/sessions.php.



UNIVERSITY OF
WATERLOO

Team Canada Tops Off Winter Games with Hockey Gold



SPENSER GOOD
3B MECHANICAL

We did it. After an outstanding two-week performance by Canada's athletes, throughout which there was no shortage of heart, grit, and determination, Canada's Men's Hockey Team won the nation's tenth and final gold. In what could only be described as mastery, the boys in the red and white outshot Sweden by a margin of 36-24, and won the game by a score of 3-0 in a game that could have easily been much more embarrassing for the silver medalists if Henrik Lundqvist had a weaker game. The first two goals came from arguably the two greatest hockey players in the world and the two captains of clutch, Sidney Crosby and Jonathan Toews. The third goal came from the often maligned Chris Kunitz, who had a strong tournament despite doubts that he was included largely due to his association with Crosby. Toews scored a gritty goal in front of the crease, while Crosby stole the puck off a Swedish defender and took off from his own blue line before he deked out Henrik Lundqvist for a goal that reminds us why he is the best player in the world. Kunitz buried the Swedes in the third with a wrister to cement Canada's place in hockey history and to give the men reason to stand proudly beside their female brethren as hockey champions. I must add that the women had an outstanding

tournament, winning with sheer willpower in a tournament that they were considered underdogs to the Americans. I would focus on them more strongly if they were not covered elsewhere in this issue, because they deserve praise as much as our men do.

Canada's victory came in a much different way than it did in Vancouver back in 2010. Often criticized for their lack of offensive prowess throughout the tournament, they won instead through stifling defense, led by the play of Drew Doughty and Shea Weber. Allowing three goals in their last six games, including none in the last two, Canada's defense was likely the greatest group to ever be iced, and could anchor the team for years to come, if the NHL returns to the Olympics. Also, the goaltending of Carey Price was flawless, causing many skeptics to question the much discussed notion that Price is not a clutch performer. His calm dominance of the Canadian net strongly contrasted Robert Luongo's often nerve wracking play in Vancouver. The questions of Canada's goaltending were strongly rejected by Price, who outdueled perennial Vezina candidates Tuuka Rask, Jonathan Quick, and Henrik Lundqvist, albeit with a much lower shot count than his opponents.

Most amazing was Canada's ability to play a team system, despite the fact that the team was laden with individuals that were used to being superstars on their respective National Hockey League clubs. Playing on the big ice, they refused to give up their defense focused system that relied on short shifts, a

strong forecheck, forcing their opponents to the perimeter and above all, an uncanny ability to avoid mistakes. There were few reckless penalties and even fewer blatant giveaways. Despite criticism on their lack of scoring, they stuck to a team-based system that allowed them to beat the European teams at their own style of game on the big ice. In a stark contrast to the much lauded Russian team, the Canadians embraced the Olympic spirit of teamwork and individual sacrifice. It is a true testament to Canadian values that a team full of millionaire superstars can come together as a team so quickly and effectively, with no complaints of shortened ice time or responsibility, to win such a competitive tournament. Praise must also be given to Head Coach Mike Babcock and Director Steve Yzerman. One has to speculate if their ability to bring a team together so effectively is influenced by their prior history with the Detroit Red Wings, a club that is built upon teamwork rather than individualism.

Although already mentioned, additional praise must be given to Team Canada captain Sidney Crosby. At only 26 years old, he has now captained a team to a Stanley Cup and a gold medal, as well as winning countless individual accolades. Despite the protests of those who are inexplicably unwilling to accept the kid from Cole Harbour's undoubted character and talent, he continues to dominate with undeniable grace and work ethic. Despite misleading tournament statistics, Crosby was Canada's top forward game in and game out, and, once again, when it mattered, he

performed in spades. He returns home with a much deserved gold medal and as a player who has further cemented himself as one of the greatest of all time. He has made Cole Harbour and Canada proud, and I have no doubt he will continue to do so.

Tribute must also be given to the bronze medalist Finnish team. Finland, as pointed out by Teemu Selanne earlier in the tournament, has won more Men's Olympic Hockey medals than any other nation since the NHL entered the games in 1998. Despite a rash of injuries and a team that was largely composed of non-NHL players, the Finns competed hard in every game they played, included a humbling rout of the former silver medalist Americans to win bronze. Teemu Selanne scored two goals in the final game, and played amazingly well for a 43-year-old, the oldest player in the tournament. Selanne now gets to end his career on the international stage with a well-deserved medal, so kudos to the hard working Finns.

However, it is once again the Canadians that get to walk away with gold. Despite doubts of ability to perform on the big ice and of unsteady goaltending, and early criticism of a weak offense, the Canadians stuck to Babcock's game plan and did us all proud. The men who put on the red and white hail from icy ponds all over our great country, and we should all be proud to call them our own. Congratulations from *The Iron Warrior* to all of our athletes, and may we now enjoy four more years on top of the hockey world.



Canada Wins Ten Golds in Sochi, 25 Medals Overall

Continued from **CANADIAN** on page 1

It seems that Junio could not have been more right: Morrison went on to win the silver medal in the 1000 m, giving himself a huge confidence boost to take the bronze in the 1500 m a few days later.

Women's Bobsleigh

Canadians Kaillie Humphries and Heather Moyse won gold for the second straight Olympics in Women's bobsleigh, becoming the first Canadian bobsledders to repeat as Olympic champions. They edged out the Americans by 0.1 seconds, who went on to take silver and bronze respectively. In spite of starting the third trailing the Americans in second, the Canadians were able to regain the top spot after a nearly flawless third run by driver Kaillie Humphries. They waited with baited breath for the other teams to finish up their third runs before finally becoming Olympic Champions once again.

Women's Ski Cross

Ski Cross is a relatively new event at the Olympics, making its debut back in Vancouver four years ago. Canadian Ashleigh McIvor won gold in Whistler, although not competing in these Games, the Canadian

women certainly did not disappoint: Canadians Marielle Thompson and Kelsey Serwa finished first and second, respectively. After a tight start to the final, veteran French skier Ophelie David crashed a few jumps later, leaving only Anna Holmlund of Sweden to try and catch the Canadians down this rocket of a course.

Curling

Canada swept the gold medals in both Men's and Women's Curling events. Men's skip Brad Jacobs lead his team (Brad Jacobs, EJ Harnden, Ryan Fry, Ryan Harnden, Caleb Flaxely) to a 9-3 victory over an experienced British squad one day after the undefeated women's team (Jennifer Jones, Dawn Askin, Jill Officer, Kaitlyn Lawes, Kristen Wall) led by skip Jennifer Jones won 6-3 in a tense gold-medal match against the Swedes. Jones' team was the only one not to lose a single game at the Sochi Olympics.

Last but most certainly not least: Women's Ice Hockey

Of all the Olympic events, there was nothing more exciting to watch than the Women's gold medal game between bitter archrivals Canada and the United States. It's a great game every time these teams play, and these

Olympics were absolutely no exception.

Canada won their round-robin match against the US 3-2, in what was considered an upset given that they had not won a single game against the Americans under new head coach Kevin Dineen. But that was only the warm-up. Be that as it may, the Canadians were not cocky or over-confident going into the gold medal game.

The first period featuring phenomenal saves by Canadian goaltender Shannon Szabados, keeping the Americans at bay as Canada was outshot 11-9 in the period. The Americans had three power plays in the period but were unable to capitalize as the Canadians (and the rest of the country) breathed a sigh of relief heading into the first intermission.

In the second, American captain Meghan Duggan scored on a screenshot to put the Americans ahead 1-0. The Americans were forechecking and defending very well, keeping the Canadians in check. It seemed like the US would win for sure when Alex Carpenter added a power-play goal for insurance in the third, making it 2-0 for the US.

But it's never over until it's over: Canada's Brienne Jenner fired a knuckler at the net, and with a lucky bounce off the knee of American defender Kacey Bellamy, Canada

had new life. With about two minutes left to go, Dineen pulled Szabados for the extra attacker. Now six on five, the Americans fired the puck down the ice in what looked like would be the game-ending empty netter, but it went off the post! The Canadians quickly retrieved the puck in their end, and with the entire country on the edge of their seats, Vancouver Olympic hero Marie-Philip Poulin scored with 55 seconds left in regulation to tie it 2-2, sending the game into a 20-minute 4-on-4 overtime period.

Szabados was again superb in the first few minutes of overtime, making some incredible saves for the Canadians. After one of these fantastic stops, American forward Jocelyne Lamoureux jammed at the Szabados's pads in a goal-mouth scramble, giving the Canadians a 4-on-3 power play. Team Canada returned the favour, when Poulin promptly put her second of the night past American goaltender Jessie Vetter to claim the fourth straight Olympic gold for Canada.

And there you have it—for those of you who missed any of these stories because of hell week, be sure to check out olympics.cbc.ca for a thorough summary of this year's Winter Games. It only happens every four years—so show your support for our Olympic athletes!

The New Face of Social Interaction



LEAH KRISTUFEK
3A CHEMICAL

It used to be that stalking was creepy, and if you met a girl at a party and only got her name you probably wouldn't find her again. Just over ten years ago, that changed. All it took was one restless Harvard University student looking to redeem himself and to poke a little fun at the school at the same time. What he did was create an online directory that was seemingly on steroids. "I think it's kind of silly that it would take the University a couple of years to get around to it," Zuckerberg said about Harvard creating a school wide online directory which had been widely discussed at the time. "I can do it better than they can, and I can do it in a week." Not only did it allow students with Harvard emails to upload pictures and contact information, but it also allowed them to interact with one another. Students could easily find classmates, or perhaps find that person who is a friend of a friend, whose name you can never remember.

Facebook changed the nature of the web and how we interact with each other. It has become a place where we keep in touch with

people by perusing their profiles or seeing posts related to them on our news feeds instead of talking or emailing them in person. This can make in-person meetings a little awkward as we ask about events that were never mentioned to us before. Facebook is not a platform for strangers. It is interesting because it allows people who already know each other or are in the same community, be it school, town, hobbies or even just extended friend circles, to stay in touch like never before. That being said, Facebook doesn't introduce us to new people, so if we grow bored of following our friends and acquaintances we may have to go outside and meet new people for ourselves.

As co-op students relocating every four months, there is no shortage of new people to meet, though it is always nice to see some familiar Waterloo faces. For a very long time Waterloo students on co-op have participated in something called WatPub. Initially it was just a certain pub that students would go to on a specific day of the week, as the internet got more common a mailing list was also added, and today Watpub is on Facebook. So what is the difference between the Watpub of today and the pre-internet Watpub? Today it is much more flexible. People can post pictures of places to rent, or of adventures around

their co-op home town. Spontaneous adventures can ensue from posts like "Who's down for bungee jumping?", or "I heard there are some cool caves, anyone want to check them out on Saturday?", or "I just got some tickets for this event I can't attend."

Watpub isn't always the easiest to connect to, since the co-op advisers don't always administer the Facebook group. It is also a closed group. Some people fall through the cracks and don't end up in the group. On my first co-op, I was up north in an area where there were only seven other co-op students. We didn't have a Watpub group, and I only met one other Waterloo co-op student. It wasn't until almost a year later that I discovered that Facebook has two inboxes, one for people you are friends with or have friends in common with and another "spam" type inbox. Two of the co-ops I never met had actually emailed me at the beginning of the co-op. I really enjoyed my co-op, it was the summer and I met a lot of interesting people, but it goes to show how Facebook can present issues with connecting everyone. The old Watpub simply required the co-op advisers to let you know the meeting place and day, and the rest was up to you. Years later, alumni could go back to those pubs and meet current co-op students.

Facebook and other social media have contributed to more spontaneous group meetings. So that's great, right? We are seeing each other in person rather than being sequestered behind our computer screens. See, parents, we aren't cyborgs yet! That is all well and good as a social network among big groups. When it gets really personal, the rules change. It can be tough to get over a past relationship if the two of you have lots of mutual friends constantly posting pictures that you can morosely go over at 1 a.m. That person is constantly at your finger tips. At any time you can give in to your desire for contact and reach out, only to regret it the next morning.

Social media continues to grow and change. The dating scene has been drastically redone by social media. The app Tinder takes the guessing out of asking someone out. Tied to the location of the user, the app provides pictures of people in their proximity. Users can then swipe the photo to the right when interested or swipe left when not interested, and if both users are interested, they will get a notification. Does this diminish the connection or simply unite people who might otherwise not have met each other? The effects will probably not truly be seen for a couple of years.

More Reliable, Modern Pickups With Rideshares



JACOB TERRY
3T NANOTECHNOLOGY

T CUBED

Perhaps it's because taxis in many Canadian cities are fairly reliable, but I'd never heard of apps like Uber or Lyft until I got stranded in the town I'm working in this term, an hour out of Boston, where a taxi can take up to two hours to show up (if at all) and calling back for a status on the ride results in an unintelligible murmur followed by a swift hang-up.

Ride-sharing apps operate somewhat like a decentralized taxi service, where potential drivers can offer to drive people around for a fee through the app on an as-needed basis. The idea is similar in execution to Airbnb, which allows potential hosts to open up a room in their house from just a night or two to on a monthly basis. With apps like Uber, Lyft, and Sidecar, a potential driver opens up a spot in their car, and can have the spot open even if they're sitting at home, as the app will notify them that someone is interested in a ride.

Uber appears to be the biggest company in this market, operating in 27 countries in North America, Europe, Australia and Asia, including in Canada where it has drivers in Toronto and Vancouver. Beginning with more luxury vehicles under their UberBLACK service, they have expanded to offer rides in SUVs (UberSUV) and everyday vehicles (uberX). They also allow you to request a taxi (uberTaxi) within the city borders of some major cities. What makes Uber and other ride-shares so convenient is that they let you pay with your credit card from your phone, so when you're done the ride you can simply thank the driver and leave the car. Uber also shows you how long the ride will take to arrive and updates it as the car moves, using a GPS installed in the car to determine how far the car is and displaying it on the map in the app.

Lyft is another company seen as the biggest rival to Uber, which started from the other direction (or the bottom, if you will), focusing on everyday people looking for a quick way to share rides. Lyft operated on a suggested donation principle for a long time, before switching to mandatory ride fares this year to better support drivers in the way Uber does. Passengers and driv-

ers are also encouraged to fist-bump when entering the car, in a move meant to invoke friendship.

A third company that often goes under the radar is Sidecar, which lets you go further and pick your own driver and vehicle, and indirectly the price. Drivers have the option as of late to be able to pick their own prices, so a Sidecar passenger can pick the driver with the price they are willing to pay. Sidecar also provides the user up-front with the final ride price, so that there are no unexpected fees or prices as the passenger leaves the car.

As convenient as the services have been for passengers, there has been some controversy introduced by their disruptive nature. One is the issue of surge pricing, particularly from Uber. During peak usage, Uber will apply a multiplier to the normal prices of up to eight times regular fare, which is designed to encourage inactive drivers to pick up passengers and take advantage of the increased wage, but has caused frustration in passengers who need to find a way home. Lyft offers a less dramatic version of surge pricing, which they call Prime Time Tips, that can increase the fare up to twice the regular fare, and they also give all the

money from the increase to their drivers.

All three companies have also seen legal issues in many cities around the United States, as they are seen as competing with taxi dispatchers without a proper license. Legislators argue that this is important for passengers as well since an Uber driver getting into an accident may not have insurance that covers the passengers, leaving the passengers responsible for footing the bill. Taxi companies are also concerned about the threat of these companies as they go through a rather arduous process to license their drivers, however, the companies argue that their drivers are put under more scrutiny than taxi drivers.

With some states approving these services, and others looking to extinguish them, the future of the ride-share app market is uncertain. However, the direction of private car transportation is undoubtedly not going to remain stagnant in the next 50 years, and taxis will have to bend to the pressure of new ideas from new technologies. In the meanwhile, if you get a chance to try them out, it's a pretty cool experience and you usually get the first ride free. Perhaps the taxi companies will adopt some of their methods in the future.

Engineering Culture Shock



LUCAS HUDSON
3B MECHATRONICS

The Canadian Federation of Engineering Students (CFES) Congress, held in the beginning of January, was an eye opening experience for me. Congress is a week long conference where student leaders from across Canada come together to listen to industry specialists, participate in student run information sessions and, most importantly, share and discuss ideas with fellow delegates. Many of the people attending Congress are leaders in the engineering student unions and are no doubt going to be leaders when they enter the workforce. This thought is the source of much hope for a prosperous future but also one of very serious concern.

Out of the 156 delegates listed in the del-

egate package I received, I identified 55 of them as female. A significant minority at 35 per cent, but well over the national average of females in engineering; which has hovered around 20 per cent for over 10 years. For the most part, I observed mutual respect between all delegates. Rarely did I hear a rude or obscene remark and when I did, it was without content. I was taken by surprise during the evening events, especially ones that involved travelling by bus. This was my first introduction to the plethora of lewd songs that are apparently common place. Now, I don't find anything wrong with lyrics that are gross or crude, what I do find repugnant are the songs that are sexist and demeaning towards women. I don't think songs that include lyrics such as "A women came in for a bowling ball... a bowling ball she wanted, fingered and tossed into the gutter she got!" really belongs anywhere in society, especially not in the professional atmosphere of an engineering conference.

I believe lyrics like this harbour an attitude and atmosphere of disrespect towards women and only hurt the efforts to encourage more women to pursue engineering.

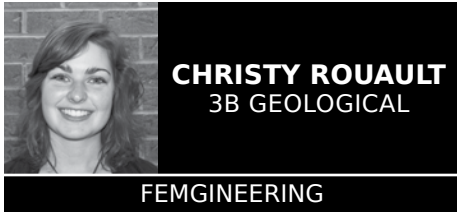
Unfortunately, the chauvinistic songs were not the only instance of sexism at the conference. I met a very well-spoken and thought provoking woman, who I will leave nameless. I invited her to have a conversation about the unsettling things I witnessed at the conference and to also discuss other situations we'd experienced both on campus and in the workplace. After we parted ways to get ready for the evening banquet I received the following text message "I kid you not. As soon as I walked in my room, a bunch of guys [started] singing (to me) 'Tits out for the boys. Tits out for the boys, say what?' Over and over. Until I left."

This type of harassment does not only happen in academic settings. I have heard accounts from my classmates about lewd remarks from supervisors and co-workers,

contempt and incivilities based purely on their gender. I have witnessed a table of grown men — engineers, supervisors, executives — objectify women and casually make misogynistic jokes. They specifically commented on how they wouldn't be making these jokes if other women were there. These men knew what they were saying was wrong, but for whatever reason they felt justified in their actions. I am embarrassed to be working towards a profession where such actions are not only tolerated, but encouraged.

Engineering has a long and rooted culture of disrespect for women. You can see it in our songs, you can see it in our students, you can see it in the workplace. Engineering has slowly progressing towards equality, but it is our job as future engineers to ensure that we continue to grow. Our words and actions shape the environment we all live in. I want to be part of a culture of acceptance and equality. What about you?

Feminism 101—Gender Equality Not Female Superiority



CHRISTY ROUAULT
3B GEOLOGICAL

FEMGINEERING

For most, feminism is an unwelcoming movement. It is a common misconception that feminism is a fight between men and women, when in fact men can be the most influential and powerful players for women's rights, and for a resolution in equality. For this reason, it is important that everyone feels welcome to contribute to the feminist movement rather than remaining on the defense. Realizing that you have power to create change is the first step of becoming a feminist ally. If you aren't doing anything, if you are remaining silent, you are only contributing to the problem.

The more you learn about women's rights issues, the clearer it is that they are immersed in a spider web of issues surrounding our society. The following is a short list of ways you can be an ally

to women in your life and contribute to equality:

1. Forget your preconceptions. If you want to help, you need to forget what you think you know about feminism. For a change to occur, you need to drop your baggage at the door, listen, and learn.

2. Recognize your privilege, no matter what the privilege may be. Your social class, gender, and race may all put you at an advantage over your neighbour; recognize that everyone is not on the playing field. Be thankful, not defensive for the privilege you have.

3. Watch what you say. Everything from sexist jokes to catcalling. Regardless of your intentions, your words can show a lack of respect. Sexism is perpetuated by people who don't necessarily mean harm, through small and insignificant actions like whistling at a girl on the street. If, and when, you slip up, be able to catch yourself, and see that what you say about women is a reflection of the respect that you have for them.

4. Flirt appropriately. There is a fine line between flirting and harassment,

and you should know the difference depending on the situation you're in. Most importantly, know when to not flirt or stop flirting; no means no.

5. Many men are unknowingly contributing to rape culture. Our society trends towards victim blaming. If you don't understand what they are and that they are everywhere in our society, you have likely played a part in it at some point in your life. If you don't want to be a rape statistic, ask for consent.

6. Question pop-culture. Consider that the woman on the front cover of a magazine is promoting an unhealthy body image, is defining women's sexuality, and is likely unrecognizable when not photo shopped. You might be reinforcing this type of "perfection." Western culture is obsessed with how we look, and this is largely driven by pop-culture and money.

7. Listen. Giving the opportunity for a woman to tell you about her experiences and struggles is the most important step of being an ally. Let go of the tendency to defend what other people have done to oppress women, and

take the time to listen. Giving a voice to women in oppression is essential to progress.

8. Challenge sexism. Have you ever played along with a joke that you knew was offensive? This point cannot be repeated enough: remaining silent adds to the problem. Not partaking in sexism is insufficient. To be an ally to women, you need to challenge sexism.

9. Consider how you were raised and the gender roles that you have become accustomed to. Consider that male stereotypes are contributing to the problem, too. Challenge gender roles and specifically, and redefine masculinity. Men should be allowed to cry, show emotions, and go on paternity leave.

10. Acknowledge your stance. There is a strong tendency, especially for men, to claim neutrality in feminism, but you can play a major role in ending women's oppression. Educate yourself about problems around the world and familiarize yourself with the complexity of the issue. If you agree with the most fundamental aspects of equality, claim the feminist title.

Is Microsoft Becoming Obsolete?



ALLEN CHEN
1B CIVIL

It should be no surprise at this point that Microsoft is no longer the dominant player it once was in the tech industry. As the market moves towards more mobile and user friendly technological devices, Microsoft needs to adapt, and quickly too. Unlike the early 2000s, the beginning of this decade presents formidable rivals to Microsoft such as Apple and Google. The past years have presented the success of many tech products, most of which are outside of Microsoft's domain of desktop computing. Mobile devices such as Apple's iPad and Samsung's Galaxy Tablet have profited tremendously. The functionality of these devices have essentially made the use of a desktop computer obsolete in the mainstream consumer base. Among newer devices including tablets, smartphones and new PCs, only 15 per cent run on the

Windows operating system (OS). The Windows division has seen their profits decline by \$2.8 billion from 2011 to 2013.

On February 4, 2014 Microsoft announced a new CEO, Satya Nadella. Nadella was previously the executive vice-president of the Cloud and Enterprise group at Microsoft. There he was in charge of computing platforms, developer tools and cloud services. Nadella was a leader in the development of Microsoft's cloud computing infrastructure. During this period he grew the business into one of the largest within Microsoft, generating one quarter of the total revenue at \$20 billion in the most recent fiscal year. Prior to his employment at Microsoft, Nadella worked with Sun Microsystems. He was born in Hyderabad, India and graduated from the Manipal Institute of Technology with a B.Eng in Electrical and Electronics Engineering, the University of Wisconsin with a MS in Computer Science, and the University of Chicago Booth School of Business.

Nadella is only the third CEO of Micro-

soft since its founding in 1975. The first CEO was Bill Gates until 2000, when he was succeeded by Steve Ballmer.

In addition to Satya Nadella's appointment as the new CEO, Bill Gates will be playing a bigger part in Microsoft as technology adviser. Gates has been mostly absent from Microsoft since 2008, focusing on his work with the Bill and Melinda Gates Foundation. Previously he was the chief software architect with Steve Ballmer as the CEO. Nadella's prior success at Microsoft brings hope of change after a decade of stagnation.

But can Nadella do enough to save Microsoft from failing in the face of increasingly successful competitors? Microsoft has already lagged behind competitors in terms of success in the consumer markets of the tech industry. This has happened despite early releases to get ahead of the competition such as that of the Windows Phone and Surface tablet, both launched before the products of Apple or Samsung. Unsold Surface tablets have contributed a loss of \$900 million, and the division responsible for

the Bing search engine reported a loss of \$1.3 billion last year.

Satya Nadella has stated that "Going forward, it's a mobile-first, cloud-first world." Many would agree with him on this statement, especially if one looks at the numbers. By the end of 2013, global PC shipments declined 6.9 per cent in comparison to figures from the end of 2012. The decline has been consistent for the past seven quarters and is not likely to stop anytime soon.

It is certain that as the company moves forward Satya Nadella will have some difficult decisions to make. Shareholders of Microsoft have been pushing to have non-essential product lines cut to focus more on what has been deemed to be more important to the success of the company, such as the selling of enterprise software to businesses. This would make sense if one observes the recent struggles of Microsoft in the consumer market. However, abandoning product lines such as Xbox, Bing, and the Surface tablet would most certainly be forsaking the work of Nadella's predecessors.



Sandford Fleming Foundation

Professionalism.
Leadership.
Communication.

There's more to an engineering education than engineering.



John Fisher & Roy Duxbury Leadership Awards

The John Fisher Award and Roy Duxbury Award for Leadership are given to undergraduate students graduating in the Faculty of Engineering who have shown outstanding leadership throughout his or her academic career in activities that relate to Co-operative Engineering Education.

Nominations for these awards can originate from student groups, faculty members, or other individuals. 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 April 1, 2014.

The John Fisher and Roy Duxbury Awards consist of a Certificate plus a citation and an honorarium of \$2,000. The awards have been named in recognition of the outstanding contributions made toward SFF by its former Chairs, Dr. John Fisher & Dr. Roy Duxbury.

Nominations Must be Submitted to SFF Office Manager by April 1, 2014

E2-3336, Extension 84008, sff@engmail.uwaterlo.ca
www.eng.uwaterloo.ca/~sff

Personal Credits Notice



If you received a Common Experience Payment, you could get \$3,000 in Personal Credits for educational programs and services.

The Indian Residential Schools Settlement Agreement. The healing continues.

Since 2007, almost 80,000 former students have received a Common Experience Payment (“CEP”) as part of the Indian Residential Schools Settlement Agreement. CEP recipients are now eligible to receive non-cash Personal Credits of up to \$3,000, for either themselves or certain family members, for educational programs and services.

What are Personal Credits? Personal Credits may be used for a wide range of educational programs and services, including those provided by universities, colleges, trade or training schools, Indigenous Institutions of Higher Learning, or which relate to literacy or trades, as well as programs and services related to Aboriginal identities, histories, cultures or languages.

How much are Personal Credits? Adequate funds are available for each CEP recipient to receive up to \$3,000 in Personal Credits, depending on your approved educational expenses.

Which educational entities and groups are included?

A list of approved educational entities and groups has been jointly developed by Canada, the Assembly of First Nations and Inuit representatives. If an educational entity or group is not on the list, please consult the website for more information.

Will I receive a cheque? No. Cheques will be issued directly to the educational entity or group providing the service.

Who can use Personal Credits? CEP recipients can use the full amount themselves or give part or all of their Personal Credits to certain family members such as a spouse, child, grandchild or sibling, as defined in

the terms and conditions. Personal Credits of multiple CEP recipients can be combined to support a group learning activity.

- Children
- Spouses
- Grandchildren
- Siblings

How can I get Personal Credits? Each CEP recipient will be mailed an Acknowledgement Form. If you do not receive an Acknowledgement Form by the end of January 2014, please call 1-866-343-1858. Completed Acknowledgement Forms should be returned as soon as possible and must be postmarked no later than **October 31, 2014**.

How do I redeem my Personal Credits? Once approved, you will be sent a personalized Redemption Form for each individual using Personal Credits at each educational entity or group. Once the Form is received, provide it to the educational entity or group listed. The educational entity or group must then complete and mail back the Redemption Form postmarked no later than **December 1, 2014**.

What happens to unused Personal Credits? The value of unused Personal Credits will be transferred to the National Indian Brotherhood Trust Fund and Inuvialuit Education Foundation for educational programs.

For more information, including how Personal Credits can be redeemed by certain family members of CEP recipients that are deceased, visit www.residentialschoolsettlement.ca or call 1-866-343-1858.

The IRS Crisis Line (1-866-925-4419) provides immediate and culturally appropriate counselling support to former students who are experiencing distress.

1-866-343-1858 • www.residentialschoolsettlement.ca

Remembering Philip Seymour Hoffman

Reflecting on the Career of a Treasured Character Actor



**ANJIDA
SRIPONGWORAKUL**
3A MANAGEMENT

When I think of Philip Seymour Hoffman, I think of Lester Bangs. I think of the short, unruly brown hair, the Ray-Ban shades shielding his eyes from the glare of the Californian sun, the long-sleeved leather jacket worn over a faded, his red The Guess Who t-shirt, and that voice—that gravelly, matter-of-fact voice trashing the 70s’ music scene, the voice of the man who decided to play Iggy Pop at a music station when “it’s a little bit too early” in the day. I think of his words on music, his now-iconic gospel on what it means to be “uncool,” and his advice on journalism, on “being honest and unmerciful” as a journalist, the advice which has stuck to me ever since the first time I watched *Almost Famous* (2000). It’s a Cameron Crowe script, but it took Hoffman to create the real magic in the film, to bring the real life character of Lester Bangs from the pages and to create the role which has profoundly impacted those “uncool” kids and inspired many would-be journalists, including this one.

Hoffman’s scenes, though few, were at the film’s most pivotal moments, and it was his character that stood out the most in the film for me. I loved him in the role. I have loved him for giving us Lester Bangs, for his influential performance despite having the flu during the entirety of his scenes, and for bringing meaning to and being the soul of a film about getting lost in the so-called glories of rock n’roll.

You can imagine me, shocked and shaking my head in disbelief, when I had found out the news, that Sunday afternoon, on February 2, that Hollywood, the world, and us, his audience, had lost him forever. It took time for the horrible news to sink in. My twitter feed was blowing up with people expressing their sadness for the loss, a death that felt more to us like “a robbery,” as one critic put it, than anything else. He was 46, a seasoned, fixed figure in the acting world’s panel of character actors.

Hoffman’s body was found in his West Village, Manhattan apartment. Reports explained the cause of death to be a drug overdose. A heavy drinker and drug user during his time at New York University’s Film School, Hoffman had parted with his vices early in his acting career and had remained sober for more than 20 years, until he checked himself into rehab last Fall. An insider told *Rolling Stone* magazine that his check-in followed his demanding Broadway role as Willy Loman, a salesman so disillusioned with his hopeless life that he was caught in between reality and fantasy, in a revival of Arthur Miller’s *Death of a Salesman*, one of my favorite plays. Hoffman was a character actor whom directors had often

praised for his honest portrayal of characters and for effortlessly slipping into his roles. Repeated performances as Loman, night after night, had no doubt affected him.

Yet he was more than Lester Bangs, a supporting character, and more than Willy Loman, the crucial leading man. Hoffman was fearless, committed, and dedicated to his craft, a force irreplaceable by others in the entertainment industry. His characters were so human, so real, I could not help but to empathize with them, to feel their sufferings, their troubles, be it a loser, a creep, an addict, or a writer. There’s much to look back in Hoffman’s eclectic mix of roles in his filmography, and, as I recently took myself on the journey after I heard the news of his passing, we remember the highlights of his career.

Hoffman collaborated with arthouse filmmaker, Paul Thomas Anderson, multiple times. Many regarded his *Boogie Nights* (1997) role as Scottie J., the shy, clumsy boom-operator who fell head over heels for Mark Wahlberg’s Dirk Diggler, an adult film star, as his breakout role. Hoffman played his character with such an earnest naïveté that I ended up pitying this poor minor character, when he locked himself in his car after a failed love confession, repeating “I’m a f***ing idiot,” in anguish, over and over. Hoffman followed this up with a role in *Magnolia* (1999), as one of the characters entangled in the dramas of Magnolia Avenue, San Fernando Valley, a film which he claimed to be his best. His “shut-up,” scene with Adam Sandler’s character in *Punch, Drunk, Love* (2002) is one of the most memorable film scenes of all time, from the way his character escalated from mere irritation to exploding anger in a matter of a few minutes. (There’s a similar “shut-up” scene, said to have been inspired by this one, in *Breaking Bad* (2008-2013), a performance flawlessly done and heartbreaking to watch from Anna Gunn (Skyler White).) And of course, who could forget his fourth and final Oscar-nominated role as Lancaster Dodd, the lord of a cult in *The Master* (2012), opposite Joaquin Phoenix, as the unsettled Naval veteran who became involved in the cult?

Another haunting role of Hoffman’s is his character, Andrew “Andy” Hanson in Sidney Lumet’s final film, *Before the Devil Knows You’re Dead* (2007). Hoffman starred as a real estate accountant and secret heroin addict, driven so hard into a corner which he can find no way out, that he goads his younger brother, Hank (Ethan Hawke), into robbing their parents’ jewelry store. When a slip-up in the plan triggers a chain of unexpected events that sink the brothers into deeper troubles, Andy starts to spiral out of control. Hoffman’s Andy carries himself through the film’s non-linear storyline with tormented eyes and a voice revealing of his fragile grasp on his inner demons. It was difficult to watch him struggle, to see him lay on the bed, being injected heroin

and musing, heartbroken, to his indifferent drug supplier, how his parts “don’t add up to one me,” a vivid portrait of a broken man on the verge of slipping into mental instability, a man disconnected from even himself.

A role impossible to not mention is Hoffman’s Oscar-winning depiction of the *Breakfast at Tiffany’s* writer and celebrity, Truman Capote, in Bennett Miller’s *Capote* (2005). The film tells the story of Capote during his six-year research for his non-fiction crime novel, *In Cold Blood*, and his association with one of the case’s murderers, Perry Smith (Clifton Collins Jr., or, as you may know him as *Pacific Rim*’s (2013) Ops Tendo Choi, in a performance which blew me away). It’s not just the way Hoffman had transformed himself, in spite of his lack of resemblance to Capote—it’s his shrill voice, his mannerisms and hand gestures, his vanity and the ease with which he glides through the scenes, laughing here and there with a martini glass in his hand. His Capote is also the man behind the façade, the man who reveals his true self only in private with his co-researcher and childhood friend, *To Kill a Mockingbird* writer Harper Lee (Catherine Keener), the man excited by the prospects of his book coming together, the man determined and tenacious in his pursuit for information. Hoffman had made the role of Capote his own, and for that, he was the film’s very essence.

On a lighter note, Hoffman’s turn as the posh Princeton alum, Freddie Miles, in Anthony Minghella’s thriller, *The Talented Mr. Ripley* (1999), is a favorite of mine. The film, based on a novel by Patricia Highsmith, takes the audience inside the mind of a serial killer and impersonator Tom Ripley (Matt Damon). “Come stai?” Freddie asks, cheerful and boisterous, as he bursts out of a red Alfa Romeo sports car, in one of the most iconic character entrances in films. Hoffman’s Freddie, a hedonist luxuriating in the world’s sins, spots Ripley as a poseur from the moment they meet, and steals every scene he’s in afterwards. His final confrontation with Ripley, from his scrutinizing, suspecting eyes, his teasing tricks with the piano keys, to his priceless facial expressions, all directed at Ripley, was brilliantly done. I could not have loved him more.

In between the roles mentioned, Hoffman appeared in theater productions, such as his role as James Tyrone Jr. in Eugene O’Neil’s *A Long Day’s Journey into Night* (2003), in indie films, some good, some mediocre, and even blockbusters. Some may remember him as the villain, Owen Davian, from *Mission: Impossible III* (2006), as the journalist Freddy Lounds in *Red Dragon* (2002)—a performance which Anthony Hopkins (Hannibal Lecter himself), who shared no scenes with Hoffman in the film, came to watch on his days off—or as Plutarch Heavensbee, the Capitol’s new Gamemaker, in *Hunger Games: Catching Fire* (2013).

Still to come are his roles in Anton Cor-

bijn’s thriller, *A Most Wanted Man* (2014), John Slattery’s drama, *God’s Pocket* (2014), both of which were screened at the 2014 Sundance Film Festival, and, of course, *Hunger Games: Mockingjay, Part I* (2014). He had seven days of filming Part II (2015) left before his death, but the films are to be released on schedule, according to the distributor, Lionsgate.

Hoffman was a true artist, an actor who gave himself fully to each role so we can meet the human behind each character. I will treasure the performances he gave, the feelings they evoked, and the moments I felt a piece of myself lost to his characters. You will truly be missed, Mr. Hoffman, for there is no other like you.

IW Poem: Temperature

CHRISTY FUNG
1B NANOTECHNOLOGY

*Wind is blowing in this chilly, busy town.
Your black tux and my white ball gown;
Casual conversations in the crowd, I look around
Les voilà, the crystals of brown.*

*I watch, your silhouette on the balcony
The sky behind you, dark as a starlit sea.
The air’s warming up like a melody;
So near and yet so far, it’s a dream of beauty.*

*Your smile, as warm as the light from the chandelier;
My heart, beating like a ship in a storm,
couldn’t find a pier.
Shivered by a sudden burst of wind, blasting fierce,
You cover my shoulders with your coat,
like my chevalier.*

*Waving goodbye like a little kid,
Eyes glitter, innocent and sweet like this;
It’s the little things about you that warms my heart, I reminisce
In this enchanting night, we almost kissed.*

*Even though the chandelier is beautiful and bright
The crystals are cold to touch, reflecting the wintry light.
I feel the indistinct distance between us, a plight
That leaves my heart in blight.*

*But when the songs play, you did not ask me for a dance.
Standing beside you, blushing, we watch their movements.
The night is sparkling, lingering, yet my wish is of extravagance;
I close my eyes, not to watch it again; not to watch it break, burn, end.*

CHAINSAW
WWW.CHAINSAWLOVERS.COM

\$2 BUCK TUESDAYS
EVERY TUESDAY

\$10 PITCHERS
THURSDAYS BEFORE 11PM

PABST ATTACK
\$4.50/TALL CAN
MONDAY & WEDNESDAY - ALL DAY
FRIDAY & SATURDAY - BEFORE 11PM

DIRTY BURGER DAYS
\$2 BURGERS AND WINGS \$5.50/LB
MONDAY, TUESDAY, AND WEDNESDAY

BIGGIE-UP
ANY DAY ANY TIME
A BURGER AND A BEER FOR \$4 BUCKS!!
ADD FRIES FOR \$2
ADD WINGS FOR \$2
PRESENT THIS COUPON AT TIME OF ORDERING
LIMIT 1 COUPON PER PERSON. OFFER DOES NOT INCLUDE APPLICABLE TAXES. NOT VALID IF REPRODUCED, SOLD OR TRANSFERRED.

SAWDUST AND BEER AT 28 KING ST N, UPTOWN WATERLOO • 519-954-8660 • JOIN CHAINSAW LOVERS ON FACEBOOK

TOP Wayz to Improve China-Tibet Relations



Flickr/Perspective_



WADE WILSON & EDWARD BLAKE
4Z HANDSOMENESS

TOPZ (WITH A Z)

This week US President Obama hosted a meeting with the exiled Tibetan spiritual leader, the Dalai Lama, much to the chagrin of China. Although China claimed that the Dalai Lama is a separatist and warned of damage to US-China relations resulting from the meeting, the POTUS has expressed the desire for China to resume talks with the spiritual leaders of Tibet. The real challenge now is the question of how. Luckily for Barry Obama, the political analysts at Topz (With a Z) are on the case! We have been running some very advanced polisci simulations in our heads and believe that we have found the optimal strategies for how to navigate this very complex situation. So this one's for you, Barry; you other losers can just turn the page because you idiots have no reason to learn the top solutions for improving China-Tibet relations.

Non-consensual Sequestration

You know, a lot of the time when people don't get along it's because they just aren't talking. That's why our first suggestion is to force them together so that they can hash

out their differences. Barry first has to invite over the Dalai Lama and Xi Jinping each to the White House, under false pretenses. He can invite Xi over to pop some popcorn and toss Saving Private Ryan into the VCR, and the DL over to toss around the pigskin. After getting both into the Oval Office, it's just a matter of locking the doors from the outside and playing the waiting game. Oh sure, at first the two will be furious and unwilling to share a word between each other, but after some time the Lama might crack a joke about this is a "Classic Barack" manoeuvre. Xi, softened, might then reply with an idea about how the two should get back at him with a prank of their own, like an increase in tariffs. Before they know it, the ties and robes will be loosening (as well as the presidential liquor cabinet) and the Dalai Lama might say, "hey man, I respect you. I'm not asking to leave you entirely, just to have a little more freedom. You're micromanaging, guy." To which Xi might realize, "you know DL, you're not so bad." At this point, Obama can open the door and let the two men out so that all three bros can go out for some frosty chocolate milkshakes, but not before the Dalai Lama and Xi Jinping give Obama a monster noogie!

Create a Common Responsibility

For this next caper, Barack will have to call in a favour from his pal Ban Ki-moon.

The first step is to invite Tibet to the next meeting of the UN General Assembly, represented by spiritual leaders. Admittedly, this will get China's goat, but not nearly as much as when Ban Ki-moon announces a new assignment for the diplomats of the world: having to take care of an egg as though it's a child, in partners! Now of course the official stance will be that partners are randomly assigned, but in actuality the pairings will be rigged for the wackiest, and hopefully most enlightening outcomes. As you've probably deduced, we propose that China and Tibet be partners on this assignment. At first, tensions will ensue as they project their frustrations onto the other's parenting skills. Tibet might accuse China of repressing the political and religious freedoms of their egg baby, and China might accuse Tibet of not recognizing the financial and economic development facilitated by China. However, after seeing how much the other party cares about the egg, and after a few hilariously close calls, China and Tibet will return the egg in one piece, get an A on the assignment, and resolve their differences. However, once they realize that their mutual friend Barry was behind the whole ruse, somebody's in for a seriously purple nurple!

Shackles of Understanding

The basic idea behind this one is that

conflict arises when there is a lack of empathy. Barack has to find a way to trick the Chinese and Tibetan leaders into a Chinese finger trap (unless that's racist, in which case a super-adhesive or kinky handcuffs would suffice). For the first while, neither person would be able to get anything done as they would constantly face opposition from the other party. Only when they learn to work together will anything get done. Interestingly enough, as they learn to cooperate and are bound together in friendship, that which has been physically binding them together will release them. But as soon as the two leaders are free, you can bet that Obama is getting a gnarly swirly!

Fight to the Death

Choose one fighter from the Chinese politburo and one from the Tibetan spiritual leadership. No rules, no mercy. Winner takes it all: power, glory, and exclusive rights to give that prankster Obama a wedgie he won't soon forget!

BO, we recognize that there are a lot of options here for you to decide between but we can guarantee that anyone of these will nicely and neatly resolve your international diplomacy problems in 22 minutes, with everything back to normal in time for another zany adventure next week. Until then, Topz (With a Z) out.

MBET IS DIFFERENT.
ARE YOU?

MBET

MASTER OF BUSINESS,
ENTREPRENEURSHIP
AND TECHNOLOGY

The MBET - designed to meet market needs

The Conrad Business, Entrepreneurship and Technology Centre at the University of Waterloo is the leader in entrepreneurship education, offering an experiential Master's program that is positioned at the interface of business and technology. Our specialized program will provide you with the knowledge-base, real world experience, and access to networks you will need to launch your business career in the technology start-up sector and beyond.

APPLICATIONS TO THE MBET PROGRAM ARE NOW BEING ACCEPTED. FOR MORE INFORMATION VISIT UWATERLOO.CA/CONRAD



DISCOVER MBET NOW!

ATTEND AN INFO SESSION VIA WEBINAR

SCAN THE QR CODE OR EMAIL MBET@UWATERLOO.CA FOR MORE INFORMATION

WATERLOO | ENGINEERING



COO3151

Point Vs. Counterpoint

Should the Northern Gateway Pipeline be Approved?

POINT

ALLEN CHEN
1B CIVIL

The Enbridge Northern Gateway pipeline is a proposed project linking Bruderheim, Alberta to Kitimat, British Columbia in order to transport oil from the Athabasca oil sands to foreign markets. This pipeline extends thousands of kilometres and consists of a westbound pipeline from Bruderheim to Kitimat which transports bitumen oil and an eastbound pipeline which transports oil condensate. This project will be managed by the Canadian oil company, Enbridge Inc.

Many local residents of the proposed pipeline site are concerned about damages during construction to the natural environment. In addition, it is quite well known among most Canadians of the severe environmental impact of an oil spill or leakage. Enbridge is quite aware of them as well, and has put forward countless protective measures to ensure that the environmental impacts of building and to maintain that a pipeline such as the Northern Gateway will be minimal.

Pipelines are often the method of choice in transporting resources such as oil. They are considered to be the safest form of transporting oil, according to Federal Natural Resources Minister, Joe Oliver. Pipelines also generally accommodate a greater volume of petroleum products than other conventional transport methods, such as railways or trucks. They are the most environmentally friendly method of transporting oil over long distances. The distance from Bruderheim, Alberta, where the oil is situated and Kitimat, British Columbia is 1777 kilometres. With the additional barrier of the Rocky and Coast Mountains, methods of transport such as shipping with trucks would be unreasonable in terms of cost and energy.

With an expected volume of transported oil to be 525 thousand barrels per day, the design of the pipelines have been carefully planned to be as risk free as possible. The thickness of the pipes are designed to be 20 per cent thicker than the standard requirements. Precautions were made to prevent easy corrosion and weathering of the pipes through the application of a durable coating system. The construction of the pipeline will go through land that has, for the most part, already been disturbed, and careful consideration has been taken to ensure that the pipeline will not affect adjacent water systems. The pipeline will be monitored around the clock, 24 hours a day, 365 days of the year. Aerial surveillance is planned to be done frequently every two weeks. Additional safety features include "132 remotely operated isolation valves on each pipeline, dual leak detection analysis and additional in-line inspection systems to ensure safe operation of the pipeline." In compliance with strict regulations, emergency response teams will always be readily available should any situation arise. Leaks in the pipeline are to be stopped as soon as possible, and any contaminate soil or water is immediately removed and treated. All leakages or spills are to be reported to provincial and federal regulators immediately.

The installation of the proposed Northern Gateway pipeline will benefit the provinces of Alberta and British Columbia greatly in terms of economic growth. Many new jobs will be created in BC with the project, with over 3000 in construction along with 560 long term positions.

The jobs from the pipeline construction and management will also provide workers with many useful skills that are transferable to several industries outside of pipelines. Thus, even workers on the shorter term contracts should easily find a new job with newly acquired transferable skills.

The Northern Gateway project is projected to generate \$1.2 billion in tax revenue alone for British Columbia, with an additional \$4.3 billion from labour related income in the next 30 years. Also in the next 30 years, billions of dollars are expected to be contributed to the national GDP by this project. \$32 million will go into the pockets of families and communities every year from the newly created jobs.

Around 30 000 jobs will be directly and indirectly created during the construction of the pipeline and 2500 are expected to be permanent when it is operational.

In Alberta, 1100 construction jobs along with 380 long term positions will be created. Like in BC, the Northern Gateway project will benefit the communities of Alberta. A 30-year \$100 million investment on communities in proximity to the pipeline construction will ensure that the long term benefits will greatly exceed any immediate risks or disadvantages.

The long term rewards of the Northern Gateway pipeline will provide plenty of funding for public works, education, and other services for communities.

Perhaps the greatest benefit economically will be for Canada as a nation. Canada has the third largest crude oil reserves in the world. With the currently operational pipelines, Canada can only sell the oil to the United States. The Enbridge Northern Gateway pipeline will open new markets internationally to sell Canadian oil. With the pipeline, Canada will be able to ship its oil from the Alberta oil sands through BC to Asia, where Canadian oil is in high demand. There have been some claims that not selling the oil internationally could harm Canada economically. If foreign buyers can't buy Canadian oil, they will simply look elsewhere.

There have been concerns of the pipeline project being detrimental to the First Nations lifestyle especially in British Columbia, where the pipeline goes through several reserves. Haida First Nations on the west coast are primarily concerned with potential tanker spills. Northern Gate representatives have stated that such tanker spills are rare, one in 15 000 odds, and are getting increasingly so as safety measures and technology improve every year. In 2012, there were no major oil spills anywhere in the world. Enbridge is offering approximately \$380 million to the First Nations communities that are situated on land which the pipeline goes through. This amount is to be paid out over the years of operation of the pipeline.

Overall, it is necessary to establish the necessary infrastructure today in order to benefit as much as possible in future opportunities. The Enbridge Northern Gateway pipeline will benefit communities and families in both provinces of its operation with billions in spending over the next few decades. Canada will experience significant economic growth and prosperity from this project, with thousands of new jobs and training opportunities that will help Canadians in future endeavors long after work on the pipeline is complete.

DEREK KAN
1B CIVIL

The Northern Gateway Pipelines Project is a proposal by Canadian oil and gas company Enbridge, to construct 1177 km twin pipelines from Bruderheim, Alberta, to Kitimat, British Columbia. The eastbound pipeline would import hydrocarbon natural gas condensate, while the westbound pipeline would export bitumen from the Athabasca oil sands diluted with the condensate. The oil would then be transported from Kitimat to Asia. What could possibly go wrong? Boosting the economy, right? It's a bit more complicated than that.

First off, Enbridge doesn't have the most reliable history, with several incidents relating to pipeline installation, spills and non-conformance to government regulations. In June 2013, the Canadian National Energy Board forced Enbridge to disclose safety measures at 125 of its pumping stations. It revealed that 117 of 125 stations did not comply with safety rules set by the board. In 2010, Enbridge was responsible for the Kalamazoo spill where over three million litres were spilled into the Kalamazoo River in Michigan.

There is no denying that building such a pipeline is sure to have major environmental consequences. The pipelines would cross nearly 800 streams and rivers including the Fraser and Stikine Rivers, two of the world's greatest salmon spawning rivers. The BC portion of the pipeline also runs through earthquake and landslide territory, which has obvious risks.

The Gateway is supposed to be built through British Columbia's Great Bear Rainforest, one of the world's largest intact temperate rainforests. The rainforest is home to a variety of wildlife and tree species, some of which are over 1000 years old. The damage done to the rainforest would be devastating and irreversible.

Currently a moratorium, or temporary prohibition of activity, on large tanker traffic in the Dixon Entrance, Hectate Strait, and the Queen Charlotte Sound exists because the route is extremely dangerous for large tankers to navigate. This is saying something. If it is clear that these waters are dangerous, why would you plan to have ships in the strait? It makes no sense. This greatly increases the chance of an oil spill during transport in such stormy conditions. If the port at Kitimat is established, the oil is expected to get to Asia via this treacherous passageway on the coast of British Columbia. The large vessels would have to move along narrow channels known for strong winds and tides and dense fog with many sharp turns. All of these aspects make the safe passage of oil from Canada to Asia unlikely.

A recent study from Simon Fraser University, using internationally accepted scenarios, calculated the likelihood of nearly 800 spills over the 50-year lifespan of the Northern Gateway Pipeline. Because bitumen can sink in water, major spills would be almost impossible to clean up, putting local and regional economies and water sources at risk.

There is also the concern of the extra carbon dioxide emissions the pipeline will encourage. Six per cent of Canada's greenhouse gases are produced from the refining of Alberta's tar sands. Doubling the production will double emissions to an annual 90 million tonnes of CO₂ equivalent by 2020, which in no way aids Canada's already diminishing environmental reputation.

Opposition to the Northern Gateway

COUNTERPOINT

pipeline is virtually unanimous among the First Nations. Several alliances have produced formal declaration rejecting the intrusion of oil pipelines on aboriginal lands. A total of 130 First Nations groups, including those along the proposed pipeline route, have signed the Save The Fraser Declaration, declaring opposition to the Enbridge project through their traditional territories.

Enbridge has offered a "10% equity stake in the \$5.5 billion proposed project, over the next 30 years, to participating aboriginal groups." They also say they will put "one per cent of the pipeline's pre-tax earnings into a trust, which is expected to generate \$100 million over 30 years for non-Aboriginal as well as Aboriginal groups." Is bribing with money enough? Let me answer that for you. No. The damage done by oil spills and leaks is a major threat to their land and water, something that cash incentives cannot repay. The Yinka Dene Alliance, and many other First Nations groups, oppose the project because of the threat it poses to the environment, their ways of life, and their land rights.

These small compensation packages do not compare to the damage done the their lives and the environment around them. The Fraser River and its tributaries are the lifeline for nations living along the area, and a threat to the river is a threat to all those who depend on it. The aboriginals are not only looking out for themselves, but also for future generations and the preservation of the environment.

Finally, the big question of economic impact needs to be addressed. Installing the Northern Gateway Pipeline does not necessarily guarantee it to be an asset to the economy. There are plenty of economic costs related to the project, including the disruption of existing employment, potential job losses due to oil spills, and the economic costs of carbon emissions. Even without any oil spills, the traffic of tankers and the pipeline itself pose a big risk to thousands of existing jobs in the fishing and tourism industry. The small number of jobs created for building and maintaining the pipeline would not compare to the resulting risks.

For the last ten years, the increase in tar sands exports has driven up the Canadian dollar. This results in Canada's exports becoming more expensive for countries to buy, making manufacturing exports more expensive and less competitive. Known as the "Dutch Disease," this pattern has contributed to the loss of over 600 000 manufacturing jobs over the last nine years in Canada. The pipeline will only make things worse.

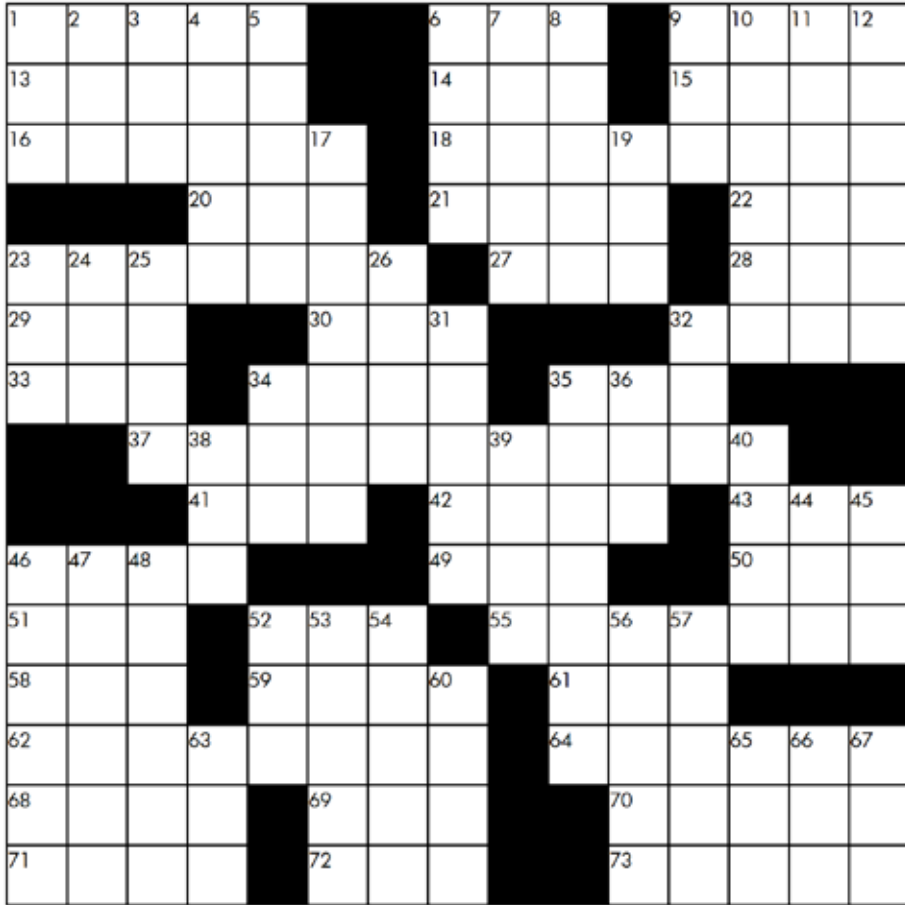
Robyn Allen, a noted Canadian economist, points out that the premium price received for exporting oil to Asia would force the price up in Canada by two to three dollars per barrel, dampening the Canadian economy and negating any benefits accruing from the pipeline. A new study from the University of British Columbia also states that the cost of cleaning up a major spill on the North Coast of B.C. could reach \$9.6 billion, eradicating any benefits from the Gateway project.

The choice is simple. On one hand the government works to exploit our natural resources as quickly as possible, maximizing short-term profits while degrading Canada's environment, killing jobs, eroding our democracy and ensuring climate change. On the other hand, we can work together to use our oil resources to create a renewable energy economy allowing for sustainability for generations to come.

The Iron Crossword

Guess What I'm Playing Nowadays

NANCY HUI
3T CIVIL



DOWN

- 1 ... --- ...
- 2 “___ Emperor, morituri te salutant!”
- 3 What most boys become
- 4 Along with salt, is the traditional gift of hospitality
- 5 Standard character system
- 6 A small plateau
- 7 After the best-before date
- 8 An herbal abortifacient
- 9 Aladdin’s alter ego
- 10 Merchant
- 11 Member of Iroquois Confederacy
- 12 Supposedly, you have no manners if they raise you
- 17 Alchemical still
- 19 A thing you stub
- 23 How you address EDCOM
- 24 Cinnabar, to mercury
- 25 Third son of Jacob and Leah
- 26 Barrel or jelly
- 31 They’re slightly less believable than legends
- 32 Pride
- 34 Towards the stern
- 35 The forefront of an attack
- 36 Consumed
- 38 Profit minus cost
- 39 Having mixed white and coloured hairs, like a horse
- 40 Reserve Officer’s Training Corps (abbv.)
- 44 Charge
- 45 Result of drinking excessively during pregnancy (abbv.)
- 46 Measure of reflective power
- 47 Minted a word?
- 48 Toothed like a gear
- 52 Type of fair
- 53 Proficient magic user?
- 54 Consumption patterns
- 56 Begin, like a problem
- 57 Bird homes
- 60 Ackbar’s surprise
- 63 US tax agency
- 65 Harrington of Game of Thrones
- 66 Between E and NE
- 67 Third installment of Nolan’s Batman trilogy (abbv.)

ACROSS

- 1 Brazilian dance in 2/4
- 6 ___3K, featuring a man and some robots watching bad movies
- 9 Affirm
- 13 Sets of six balls in cricket
- 14 Guess at YYZ
- 15 Jay of talk shows
- 16 Long-lived Roman philosopher
- 18 Guard
- 20 Plague
- 21 In addition
- 22 ▼
- 23 Member of the armed forces
- 27 What you take for an eye
- 28 Ballad
- 29 Wrath
- 30 Tattoo honoree
- 32 Ages
- 33 Iteration (abbv.)
- 34 Competently
- 35 Pussy (slang)
- 37 A secret agent
- 41 What you put at the end of a list when you’re out of examples (abbv.)
- 42 Sharpen
- 43 Iffy
- 46 CPA concern
- 49 Droop
- 50 E.g. Darjeeling
- 51 John
- 52 Groovy
- 55 Subtleties
- 58 Large
- 59 Check syntax, spelling, and grammar
- 61 Exist
- 62 What you will someday be
- 64 Hazarded
- 68 Exploit
- 69 Group of adults meddling in the affairs of children (abbv.)
- 70 Reek
- 71 Chances
- 72 Measurement for 50-across?
- 73 Aromatic organic compound

Sudoku

#2014-03

LUCAS HUDSON
3B MECHATRONICS

Easy

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

Medium

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

Hard

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

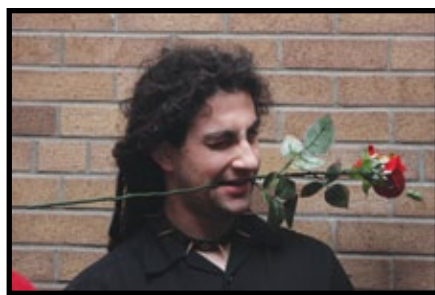
Issue 4 Deadline:
Friday, March 7 at 6:00 p.m.
Send your submissions to:
iwarrior@uwaterloo.ca

THE IRON INQUISITION
Lucas Hudson, 3B Mechatronics

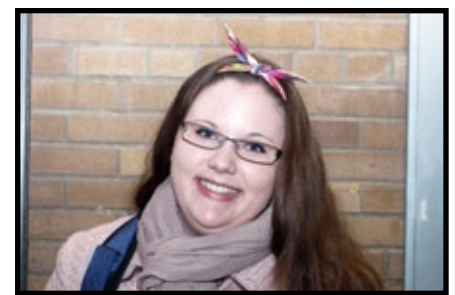
“What do you think should go in E7?”



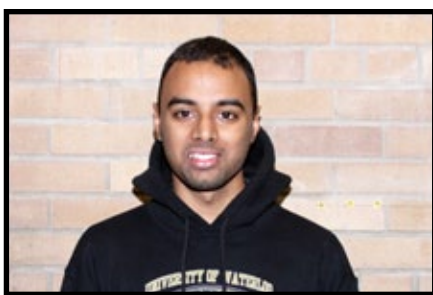
“Quidditch! Obviously.”
Liz Celentano, 4B Chemical



“Long distance Mordor race.”
Kal Sobel, 4B Mechatronics



“Marriage.”
Stephanie Des Cotes, 4B Chemical



“Ring Toss.”
Siddarth Parkash, 4B Computer



“Basketball.”
Gordon Stublely, 42 Mechanical



“Ring Bashing!”
Stephen Kraemer, 4B Mechatronics