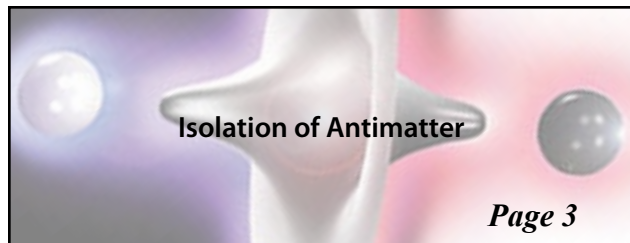


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# THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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## C4 Sustainability Challenge Debuts in Toronto

**DUSHANTH SEEVARATNAM**  
2A NANOTECHNOLOGY

On November 27<sup>th</sup>, the first novel innovation conference called the C4 Challenge was held at the University of Toronto. This conference was put together by two well known groups, CUTC and Nspire, who strive to provide students with the opportunity to use their creativity, engineering know-how and entrepreneurial skills to solve problems in a competitive setting. Over the past few years, these groups have independently built a great deal of reputation for themselves in their ability to gather large groups of university students from across Ontario to collaborate in producing innovative designs to solve common, everyday problems.

The goal of the C4 Challenge this year was to target the issue of environmental sustainability in the home. The conference brought together engineering and business students from the University of Waterloo, University of Toronto, McMaster University and Ryerson University in to compete in this innovative competition. The turnout was great since a total of 46 students came out Saturday morning for the conference's debut year. These students were then separated into groups of four and were given the task of developing a product that would make a typical home more environmentally friendly. If this was not hard enough, the students had to develop their product and present a full business proposal in a matter of four hours in front of a panel of very experienced and talented judges, who are all involved with environmental sustainability endeavours in their own right.



Students participating in the C4 Challenge at the University of Toronto

Ivan Law

There were plenty of great designs, ranging from using micro-turbines in the drainage system for energy production, to the use of basic circuitry that would shut off all power in one's house with the flick of a switch, thus eliminating waste energy through "Phantom Power." However, a design proposed by a group comprising two University of Waterloo students and two University of Toronto students was the most appealing in the eyes of the judges. Their solution was to integrate a GPS system, which can be found on almost any smart phone, into the common digital thermostat found in any typical home. The system would use the position of the user with respect to the house to determine whether the home should be

heated or cooled. In this way, the furnace or air conditioner would never have to be at its maximum use when the people living in the house were not present. In addition, the system would turn back on to the appropriate settings whenever the users were within a certain distance from the home. This design aimed to have users enter their home to find a comfortable environment without having to waste energy if the house was kept at this temperature when no one was present.

The C4 Challenge, being a student-run competition, was managed by CUTC and Nspire with six students who, for lack of a better word, ran the show. It was also surprising to find that the three of these students organizing this event were, in

fact, current engineering students at the University of Waterloo. Given the different backgrounds of participating students at the conference, this challenge was a great learning experience. While the conference allowed students to be innovative in an environmentally friendly sense, this conference also provided many networking opportunities for students by allowing them to interact with prominent figures at the forefront of providing sustainable energy. In my case, this unique conference provided me with many opportunities to learn skills not taught in class and meet like-minded individuals. I therefore believe that this will become an important event for students to look forward to in the upcoming years.

## Undergraduate Summary of the Dean's Report

**ANISH BHUTANI**  
3B CHEMICAL

The Dean's Office released the final and complete report on Vision 2010 to the Engineering Student body on November 19<sup>th</sup>. The Vision 2010 Plan was ambitiously aimed to develop Waterloo Engineering as Canada's premier engineering school. From 2004 to 2006, the Faculty underwent a comprehensive planning exercise, engaging in self-study, analysis and external reviews. The plan was established to come to completion in 2010. The final report released by the Dean's Office includes the goals and accomplishments of the faculty over the last five years.

Planning for Vision 2010 began in the summer of 2004. The idea behind the plan was to improve the quality of education, expand the undergraduate and graduate programs, increase research, and improve the image of UW Engineering. Each department conducted a self-study and underwent an external review to determine where it needed improvement and support. Each faculty unit (including undergraduate studies, graduate studies, and research) also performed a self-assessment

and developed various recommendations for ways in which it could improve. This evaluation, in conjunction with the University image and development goals from UW's Sixth Decade Plan, was used to establish the goals and performance indicators for Vision 2010.

The first of these goals was to limit undergraduate enrolment and to attract the best students to come to the University. One way of achieving this was to improve the scholarship opportunities for incoming students (such as the President's Award for students with an incoming average of 90+). Between 2004 and 2009, the number of incoming students increased from 1,294 students (2004) to 1,464 students (2008). The plan also called for a special focus on the recruitment of international students and women for undergraduate studies. However, during the course of the plan, it was found that the percentage of women in the student body has decreased.

The second goal was to enrich the quality of education for undergraduates, mainly by increasing the flexibility of the curriculum, promoting undergraduate research, and working on the quality of teaching aids and equipment. This was

achieved by tracking student success rates and increasing the number of Undergraduate Research Assistantships (URAs). This goal also included improving communication between the student body and the Dean's Office. This was achieved through the newly-created position of Student Relations Officer. This new position is responsible for ensuring open communication between the Dean's Office and the students, including the student teams, EngSoc, and other engineering student groups.

The third goal was to enhance the co-op experience for students. This involved working on improving the jobs available to students, especially those outside of Canada. At the same time, it also meant developing and improving the Professional Development Program so that students would receive a more positive learning experience. The employment rate of students going on co-op was able to remain consistently around 97%, even though between the 2005/2006 and 2009/2010 academic years, the number of students who went on co-op increased from 5,433 to 6,551.

The fourth and final goal of the Vision

2010 Plan was to improve the Undergraduate Student Experience. One way this was to be achieved was to promote the exchange programs available to students in hopes of increasing the number of students that go through the exchange program each year. Between 2005 and 2010, the number of students coming to Waterloo for exchange or going abroad went from 219 to 307. The Vision 2010 plan originally aimed to encourage 15% of the student cohort to participate in exchange annually; however, outgoing student participation has only reached 58% of this goal.

These are only a few of the main goals covered in the overall plan. Both the Strategic Plan for Vision 2010 and the Vision 2010 Final Report can be found at [www.engineering.uwaterloo.ca/Vision2010](http://www.engineering.uwaterloo.ca/Vision2010). The strategic plan is 164 pages long while the final report is 116 pages. There are a lot more details in the report covering the other areas of focus such as research, outreach and finances. It also includes reports from each department within the faculty regarding the improvements made within them. I encourage everyone to check out the sections which are relevant to them.

# Letter From the Editor

## Multitasking, Student Debt, Bacteria



**YIK TUNG  
ROY LEE**  
EDITOR-IN-CHIEF

Hello!

This is my final editorial. It is a bitter-sweet end. We've had our share of ups and downs in this office including non-existent e-mails, annoying crusades against flies and some random last-minute scrambling for content, but overall I think it has been a positive experience for most of us.

Recently the *Toike Oike*, the UoF's Engineering Society newspaper, had some issues with their content and appropriateness. Now, I am not sure about you, but when you start talking about beating your wife within an inch of your life, it is a little inappropriate for a newspaper, regardless if it is a satirical paper. I am sure glad that we did not have to deal with anything like that this term, but *The Iron Warrior* has not always been free from inappropriate content that gets pulled from the stands. Back in the day, *Enginews*, our current newspaper's predecessor, stirred up some major issues. There are more details in the last issue of *The Iron Warrior* in the special 30<sup>th</sup> anniversary insert. It seems like most of the engineering newspapers have gone through similar transitions. In fact, I was recently given a copy of the *Iron Times*, Carleton University's Engineering Society's newspaper, it has a similar look to *The Iron Warrior* from the 1990s.

Moving on from the past of The Iron Warrior, just the other day my sister showed me a video about the modern day student and what we deal with. Here's the link: [youtube.com/watch?v=dGCJ46vyR9o](http://youtube.com/watch?v=dGCJ46vyR9o). The

video actually brings up some pretty good points. According to the video, we spend almost 26.5 hours doing various things, including social networking, sleeping and attending class. This means we have to multitask to get by. There's no other way to do it. Upon reflection, I realise that without multitasking, I probably would not have made it through this term. I think the only time I focus on only one thing is when I am writing an exam. I am always doing multiple things. How about you, how much do you multitask?

Another thing the video brings up is the cost of education. I don't know about you, but I have already accumulated a good amount of debt for school. In Alberta, the government is a bit more generous than in Ontario, but that only means that the average student, mainly those coming out of the middle class in Ontario, is only having more financial issues. What does this mean for a generation that is suppose to confront increasing strains due to the ageing population? We are starting off in debt and inheriting the world's problems before we are ready to take them on. Does this mean that we are screwed for the future? I hope not. While I am on this topic, bursaries are for those who have the financial need and scholarships are for those who have outstanding marks. For those who have mediocre marks and do not qualify for financial need, what do we get? Student loans... Yay?...

Now flu shots came up a few weeks ago and with a mom and two sisters in the medical industry or on their way to the medical industry, you learn that flu shots are important, so are all other types of vaccines. Vaccines work best if the entire population takes the vaccine, this provides certain extent of immunity for everyone. Go get a flu shot,

it will prevent the rest of your class from getting sick. On the same note, you need to consume ALL your pills for any antibiotic medicine that you are prescribed. It is even more important when you get anti-viral drugs. Just because you feel better, does not mean that you have been 100% cured. By only taken a portion of your drugs, you are putting the entire human race in danger! This is because you are allowing the bacteria, that has only been partially weakened by a partial dose of the anti-bacterial drug, the chance to develop an immunity to the drug. The bacteria can then pass on this immunity to their bacteria; thereby creating a super bug, which is bad. Very, very bad.

Finally, it's December! Go out and play in the snow! Reconnect with your inner child and make a snowman! Don't let exams get you down, you're almost done this term! Good luck on exams and enjoy your winter break!

Cheers,  
Roy Lee

A correction to my article in the previous issue regarding the iPhone application "Find My iPhone" which I claimed required a MobileMe subscription to enable it. Apple, on November 22nd, has updated the app so that it does not require a MobileMe subscription. It's not all good news; you can only register for the service with an iPhone 4, iPad or the fourth generation iPod touch. For other mobile Apple products, you will still need to pay for the MobileMe subscription fee.

-Ammar Masud

## Staff Appreciation Corner

I'd like to thank all of the staff for all the sweat, blood and tears that they have put into the production of this newspaper over the last three months. Well hopefully very little blood was actually shed in the creation of the five issues we've printed this term.

Let us start off with some thanks to some of our writers. Thank you, Anjali Gopal, Farzi Yusufali, Maddy Liddy, Jon Radice and Jon Martin. Some of you were very timely, and all of you were reliable in getting your articles in. I could always ask you to write on a dime and get something in over the weekend.

Thank you to our layout editors: Hans Tee, Krishna Iyer, and Kevin Liang. They spent many hours slowly plugging away at the same 16 or so pages trying to make everything fit perfectly. They are definitely now masters at putting roughly 2100 words onto a page that is only supposed to fit about 2000. Good job, you have defied the laws of physics.

Next, I would like to thank our copy

editors. They caught many more grammatical errors than I ever would have or even known about. Mikayla Micomonaco, Alison Lee and Kate Heymans did a great job and are lovely, beautiful people. They put up with my bad grammar and made my writing look good before it made it into the paper.

Another thanks to Kate Heymans, she was a great advertising manager and managed to keep us in the positive despite the growing trend towards online advertising and the economic depression. You did a great job and searched high and low for whatever advertising you could find.

Thank you, Ammar Masud, for taking on the Twitter role. You did a great job updating the Twitter feed every single day. I am confident that we will reach your goal of hitting 100 followers by the end of the term.

Thank you to Amrita Yasin and Angelo Alaimo, two past Editors-in-Chief, for always being there for me when I needed advice on a debatable issue. They were also

constantly checking up on me throughout the production weekend to make sure things were going well and that I didn't need a major rescue. Angelo was also a trooper for driving out to Mississauga every other week to pick up our latest issue, saving us a couple hundred dollars on shipping.

Another special thank-you to Mary Bland! You were an awesome resource for my random questions about finance and you are a key part of The Iron Warrior. Without you, our finances would be a royal mess.

Thank you for all the amazing first years who came out super excited to participate and contribute. Be sure to keep on writing and improving your skills whether it is for A-Soc or B-Soc (you can write while you are off-stream too!). Spenser Good and Brent McCleave deserve special recognition; you were the two most frequent first year writers.

Finally, Mikayla will be my successor, so look forward to an amazing set of issues in Spring 2011!

THE IRON WARRIOR

The Newspaper of the University  
of Waterloo Engineering Society

### Editor-in-Chief

Roy Lee

### Assistant Editors

Amrita Yasin  
Mikayla Micomonaco

### Layout Editors

Krishna Iyer  
Hans Bernard Tee

### Copy Editors

Alison Lee  
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### Photo Editors

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### Web Editor

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### Staff Writers

Alison Lee  
Amanda LeDuc  
Ammar Masud  
Amrita Yasin  
Anish Bhutani  
Anjali Gopal  
Brent McCleave  
Dan Armstrong  
Farzi Yusufali  
Jacob Terry  
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Kevin Liang  
Krishna Iyer  
Lydia Terisno  
Maddy Liddy  
Michael New  
Neil Partridge  
Sean O'Neill  
Si Jia Zhang  
Spenser Good

### Contributors

Andrew Fisher  
David Holborn  
Dushanth Seevaratnam  
Eric Cousineau  
James Servos  
Jay Shah  
Leah Allen  
Marc Tan  
Matthew Lavrisa  
Meg Bauman  
Michael Raymer  
Praveen Arichandran  
Robin Jardin  
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The Iron Warrior encourages submissions from students, faculty and members of the university community. Submissions should reflect the concerns and intellectual standards of the university in general. The author's name and phone number should be included.

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# CERN Successfully Creates and Stores Antimatter



**MADDY  
LIDDY**  
2A NANOTECHNOLOGY

Recently, CERN has been able to effectively isolate 38 antihydrogen particles on a magnitude of time never thought possible before. The European Organization for Nuclear Research, or CERN, located in Geneva, Switzerland has accomplished one of the most important physical achievements in scientific history. Since its foundation in 1954, CERN has been a place for groundbreaking scientific research. Since then, it has expanded to include more than 20 member states, and with the creation of the LHC, or Large Hadron Collider, the research has taken off. In essence, the LHC, located 100m underground allows scientists to accelerate particles up to 99% of the speed of light, which has allowed the scientific community to explore many quantum effects.

This, along with the numerous experiments carried with the LHC, including the ATLAS, ALICE, CMS and other experiments, have allowed scientists to observe the conditions that were created immediately after the big bang and to research things such as antimatter.

The concept of antimatter emerged in 1928, from a physicist Paul Dirac. Through the combination of Einstein's special relativity ideas and modern quantum mechanics, he was able to derive an equation for

electron interactions. However, through this discovery, an important conclusion was reached. The equation revealed two solutions, one for the description of the electron, and one other. This was later revealed to be the positron, or the antiparticle of the electron. Antimatter is described as having the same mass as matter, but with an opposite electric charge. When antimatter and matter meet, they immediately annihilate each other, transforming their mass into energy and other products.

This has been the problem for the nuclear scientists at CERN, who, until recently, had not been able to successfully isolate antimatter for long periods of time. Eight years ago, they were able to create a large amount of antihydrogen particles, but were unable to store it. However, they have recently successfully isolated antihydrogen atoms.

Instead of using the traditional method for creating antimatter, the scientists have created the antimatter particles of hydrogen using magnetic fields. The Minimum Magnetic Field Trap uses its eight magnetic poles to act as a cage, effectively allowing the antimatter to be properly stored and preventing it from interacting with matter.

To accomplish this, CERN had to begin by collecting antiprotons and positrons. To achieve this, they had to reduce the positrons to half of their normal voltage. Once the particles were created, CERN began by mixing the antiprotons with the positrons. After 335 successful experimental trials, with each trial lasting approximately

one second, scientists confirmed that they were able to produce antihydrogen atoms. To ensure that it was, in fact, antihydrogen particles that were being produced, and not simply the results of the annihilation of an antiproton or residue from a cosmic ray, the scientists had to continually observe the results being created. To confirm their results, the ALPHA team conducting the experiment used the theoretical trends of antihydrogen particles with the theoretical trends of the other possibilities to dif-

ferentiate their results. The magnetic field described above effectively trapped the antimatter produced. This trap was able to store the antihydrogen particles for nearly two-tenths of a second, a magnitude of time never achieved for antimatter creation. Once the magnetic field cage was released, 38 anti-hydrogen particles were observed.

The creation of antimatter will allow the scientific community to understand a vast part of the nature of the universe that has not been possible before.

## FedS Meetings and Upcoming Elections

**TREVOR JENKINS**  
FEDS COUNCILOR

Bad news- this is the last FedS Councilor report for this term \*sad panda\*. The good news? Since I realize you all have more productive things to do, I'll try to keep this to the point.

First off, the next FedS Meeting is Sunday December 5<sup>th</sup> at 12:30pm in the Multi-Purpose Room of the SLC. There may be the possibility for Students-at-Large to get on some committees of the Federation for Winter 2011, however I don't have the agenda as of press time so I don't know for sure. I'll e-mail the EngSoc mailing list with more information once I know. To get on that, check out [engsoc.uwaterloo.ca](http://engsoc.uwaterloo.ca) or e-mail me directly by Thursday, December 2<sup>nd</sup> for more information (e-mail at the end of the article).

Second, winter term means only one thing- FedS ELECTIONS! This is when you'll see campus plastered with posters of people you likely don't know, who will

be asking for your vote. This is also your chance to get some change on campus so I encourage you to consider running for a seat- whether as a councillor, or executive. ---I'm sure *The Iron Warrior* and *Imprint* will cover the election extensively so make sure that you get informed and vote! The official site for the election is, as always, [vote.feds.ca](http://vote.feds.ca).

Finally, due to the election, any councillor or executive who is running for reelection has to take a leave of absence from their role during the campaigning period. This is meant to ensure fairness so that an incumbent doesn't get increased coverage. We'll do our best to make sure that any questions or concerns you have get passed onto someone who will be able to help you should any of us choose to run again.

Good luck with your exams and all the best for those of you who are heading out on co-op. If you have any questions, feel free to contact me at [t.ek.jenkins@gmail.com](mailto:t.ek.jenkins@gmail.com). I hope that this was short and readable so get back to studying!

## Introducing a New Face for Student Relations

**ROBIN JARDIN**  
STUDENT RELATIONS OFFICER

Wow, time has flown by this term! It seems like we just wrapped up Orientation Week, and yet here it is; almost time for final exams and a well-deserved holiday! This term has been especially busy for me, as I have been preparing for my maternity leave. In addition to decorating the nursery (we considered engineering purple for the wall colour, but opted for a more neutral yellow!), and reading up as much as possible about how to be a good mom, I've also been busy at work, preparing for the person hired to cover my year away.

I am very excited to introduce Meg Bauman as the Student Relations Officer for the upcoming year! Meg currently works right here on-campus, at Conrad Grebel University College as the Recruitment and Events Coordinator. Meg's first day will be Monday, December 6<sup>th</sup>, 2010 and we will have two weeks of training before my last day on December 17<sup>th</sup>, 2010. Meg will be working in my office, CPH 4361 so feel free to stop by and say hello.

I'll let Meg tell you more about herself, but I would just like to say that I'm super excited for Meg to cover my position! I have every confidence that she will do an incredible job in the coming year and continue to provide a high level of support for your activities.

I'll be sure to come by and visit in the New Year, and introduce you all to Baby Jardin... perhaps a future engineer of the class of 2033!! Wishing all of you a successful year ahead!

Cheers,  
Robin

**MEG BAUMAN**  
STUDENT RELATIONS OFFICER

I'm excited about this opportunity to join the Faculty of Engineering for the next year! I have spent the last couple of years working in recruitment at Grebel, and I know some of the best Waterloo stories are about engineering students. You all have amazing energy, creativity, and enthusiasm. I feel privileged that I will be able to see some of these stories come to life.

Here's a bit about me. I currently live in Waterloo with my husband and two children. I grew up in California and moved to Waterloo for university. As a dual citizen

I wanted to become familiar with my Canadian roots and enjoy having four seasons in a year. I've discovered my love of fall comes to an abrupt end about this time every year. I taught high school for a few years, but have since found a home in the post-secondary working environment. I enjoy the company of good friends, camping in the summer with my family, and reading. So please let me know if you have any good book recommendations!

I have heard great things about Robin and I know I have some big shoes to fill. I'm looking forward to working with many of you! Please stop by the office and say hello sometime soon.

Good luck with upcoming exams!  
Meg



**Meg Bauman**

## NCWIE 2010: Unbelievably Bizarre Story



**LYDIA  
TERISNO**  
1A CHEMICAL

Being chosen as the only first-year student to attend the National Conference on Women in Engineering for Waterloo A-Soc was a great achievement for me. I never thought that my very first engineering conference would provide me with such interesting set of adventures, in addition to the amazing experience that I had in Ottawa.

Our car literally blew up in Highway 401 on the way to Ottawa. I was sleeping soundly when I was awakened by an abrupt and ear-wrecking noise from the left rear end of the car. It turned out that the sound was accompanied with thick black smoke, proudly revealing itself from the back of the car. In short, we were towed to Oshawa by a friendly tow truck driver whose truck is nicknamed "Svetlana". We got a rental car that would bring us to Ottawa, safely.

On Saturday, I had a full day listening to speakers from all over the industry that opened my mind of how amazing and diverse the engineering profession is. The speakers were great and successful women from the engineering-related industry, including: Marie Lemay (CEO of National Capital Commission), Maud Cohen (President of Ordre des ingénieurs du Québec), Valerie Davidson (NSERC/RIM Chair for Women in Science and Engineering - Ontario Region), and Howard Brown (President of Brown & Cohen) to name a few.

The conference itself was a great experience and it gave me a lot of knowledge on being a woman in the engineering profession and how to use that as an advantage in the male-dominated industry. For example, it was pointed out in the conference that women have a democratic, inclusive, collaborative, and decisive leadership style that allow them to be superb leaders.

Saturday ended with a banquet dinner that allowed us to network with more engineering students across Canada. It was really exciting to know how their engineering societies work and learn from each other. Unfortunately for younger delegates, we couldn't follow the crowd to the well-known bar after the dinner. However, I found some other first-year students in the conference and had a night tour around downtown Ottawa. We did not need to be 19 to have a great night in Ottawa!

The next morning was another adventure. The fire alarm went off in the hotel at 8 am in the morning and two fire trucks came to the site in a few minutes. However, it turned out that nothing actually happened in the hotel. We all continued to attend the talks afterwards and headed to Waterloo at noon. Actually, we headed to Oshawa to return the rental car, and had to squeeze in Guelph delegates' car to get to Guelph. From there, the VP External of B-Soc helped us get to Waterloo safely.

It was a great experience for my first engineering conference and I won't forget the great three-day-journey that I had with the two other delegates: the awesome Women in Engineering directors, Amanda LeDuc and Michelle Croal.

## i3 Challenge Takes Off



**ALISON  
LEE**  
2A NANOTECHNOLOGY

November 23<sup>rd</sup> marked the official launch event for Waterloo's i3 Challenge, a cross-campus competition to give the South Campus Gateway a makeover. The i3 idea started only this fall when some grad students and professors started talking with administration about what our campus lacks and how it should reflect the innovative minds that Waterloo houses and the programs that attract even the best to Waterloo. The i3 Committee consists of graduate students, faculty, staff, representatives from the Provost's Office and the Marketing Office. The initiative has received all-around support from the administration, not to mention \$100,000 allocated to fund the winning idea. Of course, this money is for the project, not for celebratory victory beverages, but the design and competition experience (and the glory) should be incentive enough. The committee is also completely volunteer-based, brought together by a mutual desire to improve our lacklustre campus.

Details about the i3 Challenge can be found at [innovate.uwaterloo.ca](http://innovate.uwaterloo.ca) (and also in the last issue of *The Iron Warrior*), but here's a quick recap. Innovate: groups of

3-6 will design a creative South Campus makeover that reflects UW's favourite word. Integrate: teams must have students from diverse programs and collaborate across campus and the community. Implement: the winning team's design will include a short-term plan to be implemented immediately, a 3-year vision, and a 10-year vision to work towards. Teams will pitch their visions by next February, and winners who proceed to further rounds will come up with more comprehensive plans. The whole competition will wrap up by May 2011, and the plan is to break ground by Fall 2011 to welcome new students!

Yes, it's ambitious, but isn't that one of UW's strengths? What other university would challenge its own students to design an ideal campus for themselves? These decisions are usually left up to hired planners, maybe with a couple of student surveys. Well, the current South Campus Gateway is a testament to how that can go wrong, and this challenge is a testament to how UW perhaps has more faith in its students than any other average university. Forgive me for sounding patriotic, but the fact that this competition really stresses cross-faculty collaboration makes me buy into the words on those laser-logo banners all around campus. You don't have to be in planning, or civil, or architecture to have solid design ideas. As i3 committee member Dr. Jeff Casello put it, "everyone

is a user of the space." Ergo, a good design uses everyone's input.

About 50 students from all faculties made it out to the launch at Bomber for a brainstorm session. The crowd was mostly planning and environment students, but the word is spreading by mouth and by social media. If you're still interested in taking part, team registration doesn't close until December 15<sup>th</sup>, so there's lots of time to pull a team together. Some of the main concerns about the South Campus Gateway at University Ave. and Seagram Dr. were lack of Waterloo identity, lack of visibility from the street, and a general visual disappointment. Oh yeah, and whose idea was it to have a 4-lane street coming into a 3-way stop intersection just meters from a bus bay? Maybe someone who hates pedestrians and cyclists. On the other hand, UW strengths voiced in the brainstorming were our history of pioneering new disciplines, our intellectual property policies that have led to successful start-ups, and our growing international reputation for, yes, innovation. These are all great things to have reflected in the makeover design.

Other important features of the makeover would be to consider UW's existing Campus Master Plan and its signs and way-finding project (thank goodness). Street presence on University Ave. and some connection to Waterloo Park are also important, because as is, campus is isolated

by vast concrete parking lots and random shrubbery. Although this isn't strictly an engineering competition, it draws a lot of parallels when it comes to designing within mandated constraints, identifying root causes of problems, and addressing them with innovative solutions. There is a short-term and a long-term design component – another important consideration in an engineering situation. Where i3 differs is that it's less about designing a specialized aspect of the space, like an efficient intersection or an SCH replacement, and more about designing how the space works as a whole.

No matter if you've been here for one term or for five years (or even seven), you must have an opinion about the intersection in front of SCH. Maybe you squared off with a goose while biking through hordes of people at the bus stop, or maybe you first kissed your crush on the staircase in the romantic ambience in front of the flickering yellow lamp after Semi. Good or bad, the South Campus Gateway is an important space that isn't living up to its full potential. Even if you don't want to compete in i3, it will still be a cool competition to follow, so look out for project pitches in SCH this winter. A phrase repeated over and over at the launch was "Think big. Think creative." If all goes well with i3, people just might believe that when they first walk, bike, or drive onto campus.

## Buy Nothing Day Challenges Black Friday Consumerism



**KEVIN  
LIANG**  
1T CHEMICAL

This past Friday, North American activists celebrated Buy Nothing Day (BND). The day after was followed by the international Buy Nothing Day. Buy Nothing Day is "a 24 hour moratorium on consumer spending." It is a day to reflect on society's over-consumption; it is to allow people to think about their consumption's impact on the world. Twenty percent of the world's population consumes eighty percent of the world's resources. It isn't difficult to see where you place in this global statistic. BND falls on Black Friday and it's of no coincidence. A day where consumers line up in front of mega-marts and department stores, flyers in hand, to max out their credit cards and "save" on their purchases, to fuel the economy. Black Friday is notorious for less than light-footed shoppers being stomped on as floods of consumers rush into stores as they open. Fights were also reported in a food court in Los Cerritos and in a Best Buy in Burbank. Black Friday was coined from the assumption that from the day after the American Thanksgiving to Christmas, retail stores

will make a profit. Black is often the colour of profit in banking ledgers. BND is a time of protest against capitalistic society and against the idea of making a profit on child labour and the destruction of global environment.

On BND, volunteers stood outside McDonalds with empty bowls depicting how many people would be fed if two beef patties were replaced with grain. They had almost twenty people. The average is about 7.5 people for one ounce of beef. Other activists put signs in front of stores saying "I'm locally owned" or "My money goes to (place)." Participants also stood in shopping malls with scissors and a sign. They offered to end mounting debt and towering interest rates with one quick snip by cutting credit cards. In Wal-Marts, people pushed around empty shopping carts without actually buying anything. On a day where stores are exploding with frenzied shoppers, this definitely caused mayhem. However not all participants went to such extreme measures. Some participants simply refrained from consumption for one day.

The aim was not to terrorize the local Wal-Mart or harass sales clerks. The goal was never to gain attention on the media. In some cities, the protests will be invisible. BND was about individual

epiphanies. Epiphanies about how over-consumption is destroying the planet. Before making your next purchase, think. Think about how this will benefit you. Will it make you happier? Make you cooler? More popular? Now think about what it took to make that item, to create it, to

grow it. In order to make one egg, it takes 120 gallons of water. Water is required for the vegetation the chickens eat, water for the chickens to drink, and even water for washing the eggs. We, as a society, are spending more now than we did 30 years ago. But are we any happier?



People flock stores on Black Friday

SHEfinds.com

## Retinal Implants Suggest Possible Vision Restoration



**JACOB  
TERRY**  
1A NANOTECHNOLOGY

Societies have tried for centuries to find a way to restore full vision to people with deteriorating vision. While glasses and contact lenses can assist as a metaphorical bandage, they aren't an ideal solution; and for those with severe to total blindness, eyewear cannot help bring them a clearer image. A retinal implant tested in blind mice might be able to provide a more permanent solution to the issue.

The prosthetic allowed the blind mice to see the image of a baby's face. It dwarfs current ones, which reproduce specific features but miss the full picture. Researchers at Cornell University believe this technology could be applied to humans. Most scientists hope that improving the power of the prosthetics can make the signal to the brain stronger. The intriguing part of the Cornell prosthetics is not that they boost the brain signal but that they focus on the retinal cell activity pattern.

In a standard retina, photoreceptors detect signals and those signals are transferred to cells in the nerves. The cells

create a detailed code for the signals and send them to the brain, which creates the image. However, a retina that is no longer functioning correctly loses the photoreceptor cells and cannot send an image to the brain. Normal prosthetics produce simplistic signals, which means the brain can't interpret many complex shapes. The Cornell prosthetics use a system that imitates the photoreceptor cells, allowing the nerve cells to receive a more natural signal.

While testing its new system, the Cornell team measured the cell activity of the retinas of the blind mice when they were presented with the image of a baby's face.

Compared to the normal prosthetic signals, the new implant sensed more detail and clarity. The baby's face was clearer and his expression more evident using Cornell's implant.

The team is now testing the prosthetic on primates and hopes to bring the technology to humans. If the team is able to apply this implant to humans, this could be one of the most groundbreaking discoveries in optometry, bringing vision to over 25 million people who have lost their eyesight. Imagine a world where blind people get to see a vast ocean for the first time, or a beautiful fall landscape. It would change lives forever.

# Burmese Democratic Heroine Finally Released



**FARZI  
YUSUFALI**  
2A NANOTECHNOLOGY

Following with the theme of political heroes from last week, democratic leader, Aung San Suu Kyi, was released from house arrest on November 13<sup>th</sup>, 2010 after 21 years of house arrest. Born in 1945, she quickly became a national hero in the country of Burma, now known as Myanmar, when she became the leader of the Burmese opposition in the general elections of 1990 during the military-run regime.

Aung San Suu Kyi's passion for politics was not surprising since her entire family was a very prominent force in Burmese politics. Her father, for instance, founded the modern Burmese army and negotiated the independence of Burma from British rule in 1947; unfortunately, he was assassinated by rivals in the same year. Her mother, even after the death of her husband, became a prominent political figure in the new Burmese government. In fact, she was appointed Burmese ambassador in 1960 where her daughter followed her and continued to pursue her studies in political science. After graduating in 1969, Aung San Suu Kyi worked in the United Nations for three years and met her future husband, Dr. Michael Aris, having written to him daily about budget matters. She eventually married him and had two children after which she pursued her PhD in Political Science at the University of London.

In 1988, Suu Kyi returned to Burma to help tend to her sick mother after which she began to lead the pro-democracy movement, especially after the military leader of the ruling party stepped down from

power. The sudden change in the political atmosphere sparked mass demonstration for democracy in that year where Suu Kyi addressed over 500,000 people to rally for a democratic government. Unfortunately, the military junta returned to power; Suu Kyi retaliated by forming the National League for Democracy (NLD) party later that month.

In July 1989, Aung San Suu Kyi was placed under house arrest by the military junta in power with the offer of freedom if she left the country. During the general election in 1990, the NLD party won 59% of the votes and 80% of the seats in parliament. Under normal circumstances, Suu Kyi, being the NLD's party leader, would have assumed her position as the Prime Minister of Burma. However, the military power nullified the results of the election and refused to hand the power over to the NLD party. This turn of events resulted in international outcry; thus, the world was caught in attention to the plights of this democratic advocate. As a result, Aung San Suu Kyi was awarded the Nobel Peace Prize in 1991.

Over 21 years of Aung San Suu Kyi's political career, she has been under house arrest for at least 15 of those years. Despite the option of leaving the country in exchange for freedom, she continued to stay under detention in Burma. She was not allowed to meet members of her party,

media, international supporters or family during this time. In fact, the last time she saw her husband was in 1995 after which he died from prostate cancer. The government, after learning of Aris' ailing condition, released Suu Kyi with the condition that she couldn't return to Burma henceforth. Suu Kyi decided to stay in Burma de-



**Aung San Suu Kyi**

spite the death of her husband. Her sentence continued under Burmese law that allowed the government the power to detain any persons for five years without trial. The official reason for her arrest was cited under the Law to Safeguard the State Against the Dangers of Those Desiring to Cause Subversive Acts (Article 10a) as Aung San Suu Kyi was most "likely to undermine the community peace and stability" of Burma.

Over this time, many nations and organizations, including the UN, called for her release. Unfortunately, under this pressure, the military power in Burma extended the sentence of her arrest for a total of three and a half years; this extension without reason was found to be a direct violation of both International Law and Burmese law. As seen by this trend exhibited by the military in power in Burma, Suu Kyi was continually placed on house arrest for reasons that would be deemed, by other democratic nations, as nonsensical. In fact, in August 2009, Suu Kyi was sentenced for three

years of imprisonment with hard labour for a "trespassing" violation that occurred in 2008. After hearing the verdict, world leaders began to pressure the Burmese government to release not only Aung San Suu Kyi, but all 2100 political prisoners held in detention at the time.

Around the time of the Burmese general election held in early November 2010, the first in over two decades, the pressure on the Burmese government to release Aung San Suu Kyi increased exponentially. In the event of rigged elections, democratic countries put forth consequences of "diplomatic isolation and economic stagnation" and incentives of foreign aid if all the political prisoners were released. The Burmese government succumbed to this pressure and announced the release of Aung San Suu Kyi for November 13<sup>th</sup>, 2010. Unfortunately, the release occurred just six days after the general elections; on the other hand, the Burmese government's response to this pressure was viewed as encouraging on this nation's struggle to become a democratic institution and implement rule of law.

The impact that this one woman made on this country is unfathomable; with her resilience, character and passion, she captured the world's attention in alerting the world about the political plights that plagued this otherwise unknown country. The personal and professional sacrifices that Suu Kyi made for the betterment of Burmese politics and human rights are not only awe-inspiring, but tragic as well. Her non-violent struggle for a democratic political scene and her unlawful detainment for over 15 years is an extraordinary story that should be reverberated in the hopes of alerting the world to the political struggles of this otherwise, unknown nation.

**DON'T GO HUNGRY ENGINEERS!  
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## FEDS ENGINEERING SPECIALS!

In light of the early closure of the Engineering C&D, your Federation of Students businesses will be offering exclusive discounts to all uWaterloo Engineering Students. Just show your Watcard!

**Wasabi and Curry Up**  
10% off Meals  
Until December 3rd  
Located in the SLC, Entrance facing MC

**Federation Xpress**  
50 cent coffees & 10% off muffins, cookies and grab & go food items  
Until December 17th  
Located in the SLC across from Tim Horton's

# Popular Science Releases Hottest Gadgets of November



**MADDY  
LIDDY**  
2A NANOTECHNOLOGY

If you're anything like me, then you love gadgets. You contemplate picking up the phone and call whenever you see an infographic; you want that mighty putty, or really any other product that the late Billy Maze used to sell. However, you can't just like any random gadget; I like to know how they compare to each other. Well, the results are in: Popular Science has released its hottest gadget list of November 2010.

Starting off at number ten is the Thermaltake Level 10, a PC.

In order to keep all of the individual parts relatively cool, the makers of this PC have designed a unique chamber for each com-

ponent to fit in, increasing surface area, and effectively keeping the parts cooler.

Number nine are the TAG Heuer Squadra Night Vision Glasses, which can improve your night vision regardless of your eyesight. These work by having a yellow anti-reflective coating on the lens, allowing images to appear sharper in the dark.

Number eight is the SteriPEN Sidewinder, the ultimate water purifier. It does not use electricity or batteries to purify the water, but instead has a crank that can be turned. When rotated at 120rpm, this gives power to the UV light inside the filter that turns on and kills bacteria in the water.

Number seven is the Sony Alpha SLT-a55VL, which has a handy function that allows it to maintain its autofocus while

the camera is moving. By replacing the traditional mirror with translucent glass, light is able to pass through the image sensor to

the autofocus sensor. This allows the camera to focus on the next image while the first image taken is still being processed.

Number six is the Smoking Gun. No, this does not point out who committed the crime, but rather is a handy tool for smoking your food. This smoker functions without applying heat to your food, but rather, burns a small pile of wood chips in a miniature furnace at the back of the gun, then pushes the smoke out through a small tube at the front that can be inserted into any bowl or covering. This slowly gives a smoky flavour to your food.

Number five should not be underestimated. The Sharpie Liquid Pencil seems to be the saviour writing utensil. This pencil writes like a pen by using liquid graphite, but the markings can still be erased like a pencil. It can be erased for up to one day after it has been written on the paper.

Number four is the Reach Total Care + Whitening Toothbrush. This toothbrush does it all, saving you time and expense. By having the bristles coated with microscopic pieces of calcium carbonate, the

toothbrush is able to brush the stains off your teeth.

Number three is the Humanscale Diffrivent World Chair, weighing 25 pounds. It is outfitted with plastic rails rather than the standard tension spring that is usually found in a chair. This allows it to automatically bounce back in a comfortable manner when you relieve the pressure.

At number two, we have something for campers to enjoy. The Easton Kilo Tent is the lightest two person sleeper that has been produced, weighing less than two pounds. It

accomplishes this by replacing the usual wound-aluminum cords that hold the frame together with carbon wrapped tethers.

Finally, at number one on the list of the hottest gadgets of November is the Canon PowerShot SX30 IS. This camera has an automatic zoom button or "zoom assist" button that allows you to switch from one magnification to another quickly. Once the magnification has been adjusted, the camera will adjust the lens so that it can find the focal point that you had previously acquired at that magnification.



**The Thermaltake Level 10**

Thermaltakeusa.com



**Squadra Night Vision Glasses**

TAGHeuer.com

## Space News: New Life Support Signs on Mars



**JACOB  
TERRY**  
1A NANOTECHNOLOGY

It's that time of year again, astrononerds, when the space scientists at NASA and major universities claim new evidence of life-supporting systems on Mars. They have two new leads this month that may further research in the planet's potential life support.

The now-immobilized Spirit rover, which spent five years exploring a region labelled "Home Plate," inadvertently found evidence that liquid water may still be running under the Martian surface. In April 2009, the rover's wheels were lodged into a sand pit and after eight months of trying to recover it, NASA officially gave up the rescue effort. Spirit was shut down in March for the cold Martian winter, to protect the electronics inside. If NASA can get the rover to start next year, then they plan to study Martian soil and measure the density of the planet's core.

The rover's spinning wheels exposed typical Martian soil and iron sulfate minerals, which dissolve easily in water, lying merely centimetres under the surface. These water-soluble minerals could mean solid or liquid water carried the minerals through the insoluble soil. Since the Martian surface is being continuously sculpted, the water could only have seeped through the soil recently, otherwise the minerals would have eroded by the time they were discovered by the rover. The water could also have come from fumaroles - openings which emit steam and gases in the crust of

the planet, which support bacterial communities on Earth.

Another piece of evidence which suggests life may be found on Mars was found on Nili Patera, a dormant volcano at another location. Nili Patera has deposits of silica, which single-celled organisms used in the earliest eras of the development of life on Earth. It is theorized that a couple of billion years ago, steam rose out of the volcano in a manner like the volcanoes of Iceland and Hawaii. The volcano has very evident heat sources and spots where fluids drove out of mineral deposits, making it one of the clearest hydrothermal systems on the planet.

There is still a chance that organisms could be fossilized in the silica deposits and, to find these potential fossils, an expedition robot called ExoMars is planned to be launched in 2018. The current plans for ExoMars include a six foot drill designed to dig through the silica layers.

Curiosity, the successor to the Phoenix and Spirit rovers already on Mars, is not yet planned to go to Nili Patera, since it lacks the drill which ExoMars will be equipped with. However, it is already planned

to explore Holden Crater's lake deposits, sedimentary rock in Gale Crater, and the Mawrth Vallis River Valley. It would be interesting if it was able to explore the volcano as well, and discovered other minerals such as carbon in the silica.

The hydrothermal system of Nili Patera and the possibility of water under the Home Plate region could bring groundbreaking discoveries in the studies of Martian life. Wouldn't it be cool to find another planet that supports life like ours?



**Concept for a Mars rover**

NASA.gov

## Talk TED Talks

### Electricity: Its Wi-Fi, not Sci-Fi!



**BRENT  
MCCLEAVE**  
1A NANOTECHNOLOGY

Wireless technology. It is tidy for the organized, a leg-brace for the clumsy, and, much more importantly, the saviour of the avid video gamer. The once mind-numbingly Sisyphean task of untangling cords is behind us, due to the miraculous advent of remote technology. Internet access, game console controllers, Bluetooth and more are the new faces of the digital world. There is, however, a rather significant drawback; wireless devices are, well, wireless, so they must rely on their own power sources, i.e. batteries. Batteries, despite being more convenient than a bundle of mixed-up wires, are expensive, and extremely environmentally hazardous. From an environmental and financial standpoint, batteries are just as terrible as cords, if not worse. What we need is a new way of powering electronics, one that is safer for the Earth and our wallets, and is not incredibly annoying and inconvenient to use. Luckily, some nerds at MIT have discovered a revolutionary solution which may forever change how we use electricity, and reduce the shameful number of times that I trip over power cords.

At a TED conference in the July of 2009, Eric Giler demonstrated an absolutely remarkable new means of powering electronic devices: wireless electricity. Giler is the CEO of WiTricity, a company devoted to the research and development of wireless energy transfer. The concept of wireless electricity was originally conceived by Nikola Tesla, though it had not been fully realized until recently. In 2007, several theoretical physicists and engineers at MIT under professor Marin Soljačić developed and demonstrated a device which powered a typical 60W light bulb with an electric current that was two meters away. During his presentation at TED, Giler gave a similar demonstration. An electric current was run through a coil on the floor, which

turned on an unplugged television sitting on a nearby stand, and caused a cell phone to begin recharging its battery.

Despite seeming like the handiwork of Satan himself, the basis of this wireless energy transfer is actually quite straightforward. The relationship between electricity and magnetism allows power to be transferred between two separate and unconnected points which are magnetically resonant (meaning that their magnetic moments are identical). To start, an initial current is run through a coil, which causes the coil to pulse at alternating current frequency, which generates a magnetic field. If a second coil has an identical magnetic resonance frequency, this magnetic field will induce an electric current within the second coil, which then transfers the energy to whatever device requires power (e.g. a cell phone which is running out of battery power).

Wireless electricity is the epitome of convenience, requiring no more human involvement than simply putting the device within the general proximity of the initial coil. It's even safer than our current power sources. Wall outlets can be dangerous, especially to children, and batteries explode, leak, or short circuit if one isn't careful with them. Conversely, the wireless transfer of electricity is completely safe. International standards regarding field exposure have limits set far above these devices, not to mention the fact that we live in a magnetic field anyway (it's called Earth, ever heard of it?). In addition, the power is only transferred to devices with identical magnetic resonance frequencies, meaning that humans are not likely to be subject to random induced currents. So I won't have to worry about charging my phone, using my wireless Xbox and controllers while charging my electric car, all without lifting a finger. This technology is the way of the future, leading us down a path of safer and more effective power usage, a path of more convenient digital media, and most importantly, a path not littered with tripping hazards. It's energy at our fingertips, no strings attached.

# High Fives, Smiles, and Love from EngFOC 2011

Hello one and all!

We would like to welcome Dave Holborn and Stephanie Koltun, who were recently chosen as the HighArchs, to the team!! Both of them will make a fantastic addition to the team, and will bring lots of laughs and new ideas to the table.

Thank you everyone on A-Soc who applied for a leader position this term. All your applications were fantastic, not to mention hilarious! We'd also like to thank those who came out for interviews this past weekend. We really appreciate you taking time out of your busy schedules to be with us! Just a reminder that phase two of the application process will be made available early January for those who have already applied.

If, for some reason, you were preoccupied last week and forgot to fill out an application, don't fret! Applications will reopen in the winter term for B-Soc students, at which time you also can apply. We will send out an email in January with more information, so keep an eye on your inboxes. If you are still on the fence about applying for a leader, then listen up! Orientation Week is far more fun as a leader than it is as a first-year; just ask all of the returning leaders! Being a leader means you will take an active role in ensuring all first-years coming into UW feel like they really belong here, that they feel proud to be UW Engineers, and feel safe no matter who they are. This alone is a profound reason why many students choose to be leaders year after year.

Rest assured, it has been confirmed: Orientation Week 2011 will remain a full week! As such, we would like to say that we are all super stoked to begin this epic journey. We all have a very strong passion for the success of Orientation Week, and will make it our goal to ensure the week runs as smoothly and as super awesome as it can!

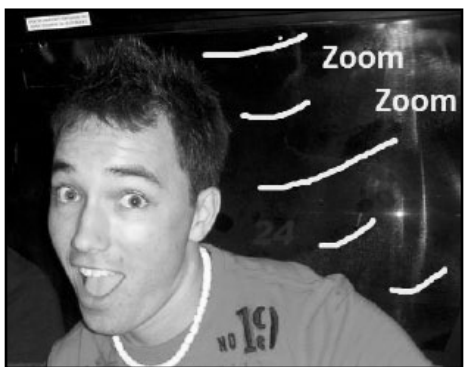
If you want to learn a little more about Orientation Week 2011, check out the leader webpage at [www.engineering.uwaterloo.ca/~foc/](http://www.engineering.uwaterloo.ca/~foc/). If you need to contact us at any time, feel free to email us at [eng-foc11@gmail.com](mailto:eng-foc11@gmail.com).

Hope all is well,

Your EngFOC 2011:

Andrew Fisher, James Servos, Michael Raymer, Umesh Thillaivasan, Dave Holborn and Stephanie Koltun!

## ANDREW FISHER



I was born while driving fast.....like really, really fast. As I grew up I decided that I needed to travel the world looking for other fast things.

I transformed into a jet fighter and started my journey.

I started at the Bonneville Salt Flats and realized that the coefficient of friction between salt and rubber is too large to really get going.

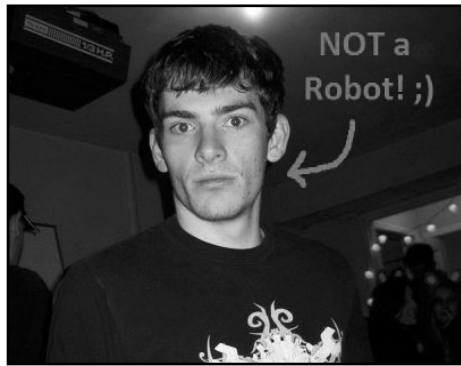
I then traveled to France in the blink of an eye (told you I was fast) but found out that they still haven't made particles big enough for me to ride down the tube.

I got tired and decided that I would go watch a Red Wings game and suspend my search for a bit, and that's where it hit me. I could go to the University of Waterloo and design roadways and pipes and other

things that let things move fast.

So I started the arduous trip to Waterloo. For a speed demon like me the construction on Highway 8 is like spending an hour in the dentist's room. When I got here they taught me to slow down and enjoy the scenery but once a year I still get all rev'd up and zoom around. That is Orientation Week and it seems that everyone shares this time with me for getting super stoked and flying around like ducks on espresso. I look forward to zooming around with each and every one of you as one of EngFOC '11 and remember it could be a bird or a plane or it could just be me flying around!!!!!!! (but it's probably just a goose)

## JAMES SERVOS



James is a man of mystery. Where did he come from, what does he eat, why is he so gorgeous?!

To say it frankly, James is from the future. Born in the year 3031, he grew up with a loving family of robotic parents and a dog named Wilson. However, he stands by the fact that he is NOT a robot.

Growing up, he realized he needed to fulfill his need to experience a real Orientation Week. By the year 3031, all frosh weeks had been shortened to 3 hours so they were not much fun anymore. Deciding to take life into his own hands, he built a time machine to take him back in time to the year 1996. This was a rebellious year for James; when he saw wet floor signs he walked faster. However, he got distracted by peaches; giant peaches in fact; and ended up living in one until the year 2010.

By this time, his rebellious side had vanished, and he felt he could make a difference by attending the University of Waterloo. Since he is NOT a robot, he decided to become the captain of the UW Robotics Team. At this point, he also developed a love for sailing.

However, this wasn't enough for James, no way. He decided that he could do more by helping others fulfill their needs for a fantastic Orientation Week. This of course requires you to NOT be a robot, which James is NOT, so he now represents UW Engineering as one of your marvellous FOC for 2011!!!!

## MIKE RAYMER



So I've been hearing this question being whispered around POETS: "Who is Michael Raymer?" I have to admit, I was quite surprised by this question. The answer, is right there, on my Facebook page, but look, I don't want to be coy about this, we're a couple months from Engineering Orientation Week 2011 and we'll be work-

ing quite intimately with one another on the long journey ahead of us, so if anyone feels that they don't know me just yet, let me try and give you some answers.

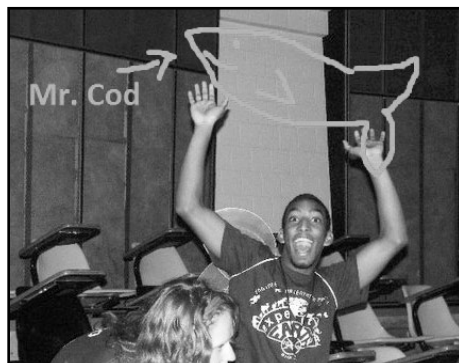
Who is Michael 'Mike' Raymer?

Contrary to the rumours you may have heard, I was not born in a manger; I was actually born on the planet Krypton and sent here by my father Jor-El to save the planet Earth. Many of you know that I got my name, Michael, from my mother and father, but what you may not know is 'Michael' is Elvish for "Rigid Tool Fan-boy." True story.

If I had to name my greatest strength, I would have to say my humility. Greatest weakness? It is possible that I am a little too awesome. One more thing, I have never, not once, put lipstick on a pig, or pit-bull, or myself. That last one is one up on my Co-EngFOC if anyone's keeping count...Anyways, that's who I really am, and in the spirit of full disclosure, there are a few surprises that you'll be finding out as we venture down this unforgettable path together.

On a more serious note, the fact that each year, in the weeks nearing the Orientation Week at Waterloo, students of all persuasions can come together and honour the work of one another really underscores the reality that no matter what differences or divisions or arguments we're having right now, we ultimately belong to something bigger, something more lasting than an Orientation Week. We belong to a society, we share a community, and we are all students of Waterloo Engineering and the University of Waterloo, and with that I am both honoured and humbled to embark up on this quest with you, my friends.

## UMESH THILLAIVASAN

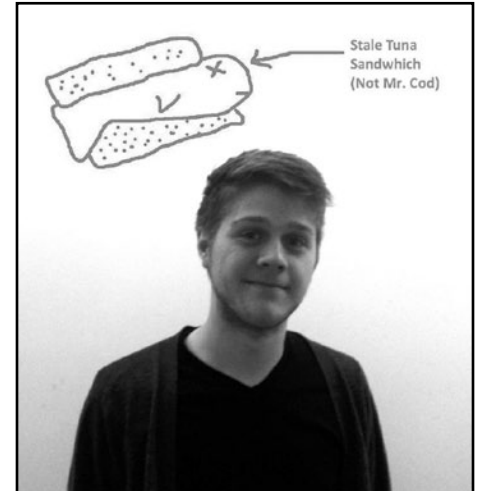


The story of Umesh Thillaivasan is a long and perilous one... kinda like his last name. But seriously we begin our tale in the cold dark of the Atlantic Ocean where a lonely Atlantic cod was swimming. This particular cod was special for he was much smarter than all his cod friends. So one day he decided he wanted more in life than just swimming around and eating tasty Cod food type things. So off he went on an adventure, seeking the grand University of Waterloo which all the fish said must be wet with all that Water. So off went the cod, down the St. Laurence, across Lake Ontario... got puzzled at Niagara Falls with all the fish heading to Laurier trying to swim up the falls, so the cod just went up the Wellend Canal instead... but finally reached the Grand River and stopped to snack on a yummy worm, when BAM! He got a hook to the face region! But the fisherman being the kind and caring man that he is did not eat Mr. Cod, so he took him home and made him his pet. Mr. Cod lived out the rest of his days content to be fed delicious fishy foods and watch the strange monkey people inside the tank filled with air they were living in. He realized his captor was a very interesting man who was studying Mechanical Engineering and was actually a really awesome guy. His name... Umesh Thillaivasan. (Did you really think Umesh was a fish? Come on guys, let's get super serial he's not THAT slimy)

But what he is, is one of your amazing

FOC for 2011 so when you see him say hi and ask him about his Mr. Cod.

## DAVE HOLBORN



Who is Dave Holborn? Komodo-dragon-wrestling grand champion? Norse god? Leader of the free world? First self-aware humanoid robot? Final boss of the internet? In fact, he is all of these things, but most importantly, he is a HierArch! You may ask him in various Scandinavian dialects, or binary-code, why he became an Orientation leader? He would answer you himself if he was not knee deep in komodo dragons, furiously battling the global recession with only a stale tuna sandwich and a single glorious strand of hair plucked from Mr. T's frohawk in 1987. Rest assured, friends, I have every intention of answering your question. Quite simply: Dave Holborn cares. Not only is he the first self-aware humanoid robot, but he is also the first machine to shed a patriotic tear. His 8 trillion Quibit Cores were overwhelmed with pride and happiness when he was chosen to lead the University of Waterloo's heroic Orientation Week. You can all sleep soundly knowing that Architecture Orientation is in the komodo-dragon-strangling, mjolnir-wielding, declaration-of-universal-peace-signing, robotic hands of Dave Holborn.

## STEPHANIE KOLTUN



I'm sure you're wondering, "Who is Steph Koltun?" She's average height, average weight, blonde-ish hair...nothing special unless you count the dazzling smile, sharp wit, soulful eyes, passion great enough to move mountains and an understanding of the human condition that could melt the iciest heart. She used to spend her summers training a circus of kangaroos. Or was it leading campers through a summer adventure? Now she spends her time teaching pigs to fly so one day she'll be able to win every absurd challenge. Flying pig bacon is also delicious. Rest assured, because Steph has the ability to communicate with dolphins, so in the case of oceanic-animal induced apocalypse, all is good. She lives with her mom and drives a mini-van. Also, Steph invented the colours black and gold, so when you see her zipping around as ArchFOC '11, shout out a "Thank You" and you'll be sure to receive a "You're welcome!"





# 1A Promotion Rules and Academic Freedom



**JAY  
SHAH**  
SENATOR

Last issue, I reported on the motion before Senate to approve new promotion requirements for first year students that align with upper year requirements (50% pass to 60%), with the added option of having struggling students split their 1A term into two terms (thereby avoiding a potential fail later on in their academic careers). This motion passed, pretty much unanimously, at Senate with some discussion concerning its implementation being brought to the table. Dean Sedra and Provost Geoff McBoyle assured Senate that its implementation will be carefully considered, and Dean Sedra praised our academic counselling, suggesting that they will continue to identify and assist

students at risk. At the Engineering Society meeting, we heard from first years that this new idea of splitting their 1A term into two terms is actually being tested this year with students at risk; it should be interesting to see how this unfolds. To be clear, I do believe that the changes are being made have good intentions, I just want to be absolutely certain that poor implementation and communication does not put students in an even worse situation.

The last senate meeting was a grueling three and half hours with many topics being discussed. The dominating issue was in relation to how the University should govern the research institutes that it creates. Concerns have been brought to the table that the governance structure of these research institutes, which are typically research-industry partnerships, were not conducive to enabling an environment of academic freedom (the abil-

ity to research and conclude whatever the researcher establishes without fearing repercussions or swaying the research and conclusions in favour of a special interest group (i.e. a donor). There was a very long debate about who within the University should setup guidelines and structure to ensure academic freedom and how they would achieve this. After much deliberation, there was a tied vote to table the discussion and more points raised by the Faculty Association and the University administration (both parties agreed something needed to be done, but they disagreed on who, how and when). Senate voted in favour of the Faculty Association's proposal to send the discussion to the Faculty Relations Committee where further discussion can be had directly with University of Waterloo Administration. I found it puzzling at times why there was so much resistance to certain ideas; however, not being a specialist

in collegial governance I did my best to represent the Engineering Undergraduate students by siding with the option that provided the most discussion in the most collaborative manner. I hope to report back in future months the positive outcome of the Faculty Relations Committee's discussions.

Lastly, I'd like to pass on a note received from Katie Eley (Interim Coordinator, Student Resource Office). There is lots of information available about the new student transition program that we talked about ever so much at the beginning of the term. This information can be found on the Student Success Office's website here: <http://success.uwaterloo.ca/newstudent.html>. You should go check it out!

Good luck on finals and stay safe on co-op for those of you that are leaving! If you have any questions, email me at [senate@engmail.uwaterloo.ca](mailto:senate@engmail.uwaterloo.ca).

## From the Pres: vo' quS'a' vo' pln



**TIM  
BANDURA**  
PRESIDENT

That apparently means "From the Throne of the Chief" in Klingon. It was the closest to my previous run of "From the Desk of the President" series.

Wow! What a term. I can't believe it's almost over! A quick recap of the past two weeks includes the Santa Claus Parade, EngPlay, a meeting with the CEAB, and lots of POETS renovation meetings. The Santa Claus Parade occurred on Saturday, November 20<sup>th</sup>. We wound our way all through Uptown Waterloo to Downtown Kitchener, cheering and spreading the holiday spirit! The TOOL graced the town with its presence as it was carried in the back of the truck by the ever-vigilant TOOL Bearers. Despite Christmas themed attire, the Bearers still attracted a bit of extra attention from little kids along the route. Mini Baja and Concrete toboggan also joined us for a great time. Big thanks to Ashley Goddard and her crew for building a great float!

On Monday, November 22<sup>nd</sup>, the executives and I met with the Canadian Engineering Accreditation Board (CEAB). The purpose was to collect information as the Mechatronics program underwent its periodical review. These visits are fairly straightforward and are required for all engineering programs. The CEAB will typically gather information from students, faculty and staff and provide recommenda-

tions for further growth and benefit for the enrolled students.

As previously mentioned, POETS and the CnD have been closed for asbestos removal. We have been planning to conduct a large number of renovations while everything has been removed. Plans include getting new lighting, floors, a sink, and furniture. As always, we need feedback from you to help us make the POETS experience the best it can be. Discussion of POETS renovations will occur at our final council meeting on December 1<sup>st</sup>. There is separate funding for the sink and the bistro tables in the foyer from gifts from previously graduated classes. The sink will allow students to clean their lunch containers and allow us to sell mixed drinks in POETS during licensed hours. Despite the inconvenience of closing POETS and the CnD, we promise that everything will look super fantastic when we get back in the summer!

Speaking of the summer, guess what! DIRECTORSHIP APPLICATIONS ARE OPEN!!! Apply online at <http://engsoc.uwaterloo.ca/directors>. Make sure you've signed in! Applications will be open until Wednesday, December 8<sup>th</sup> at midnight.

Who are we looking for? ANYONE!!! If you want to pick up organizational and leadership skills, sign up! If you want to run super awesome events and services, sign up! If you want to help out with the Society, sign up! If you want to hang out more with exec, sign up!!! Taking a directorship can offer a myriad of amazing experiences and benefits. Look at the directorship list on our website and see if there's

anything you'd love to try. If you have a great idea you want to run, talk to the exec! We can help you make your directorship dreams come true. APPLY!!! DO IT!!! DO IT NAUUUGH!!!

Finally, this term could not have happened without some amazing people. First, I want to thank Mary Bland, our business manager. She is the most dedicated woman to our Society I have ever met. If you ever see her, please give her a huge thank you! Secondly, I want to thank my exec team. They've all done a spectacular amount of work this term. From Leah's initiatives to bring more conference information back here, to Sean's work on getting an Archineering night to occur, to Marc's fantastic work on donations and student teams, to Eric's massive inputs everywhere this term (co-op to WatPD Engineering).

Also, THANK YOU to my directors. Mike McCauley has done a superb job as Speaker! Great work Griff Ferguson, Brock Kopp, Eric Evenchick, and Matt Casswell! You guys made sure POETS ran smoothly and offered some great OT's. Thank you Stuart Pearson for running Remembrance Day. It was a wonderful ceremony. And lastly, Derek Thompson attended meetings for me last term while we were all on co-op. Thanks to him, A-soc could be kept informed and represented while B-soc was running the show. Superb job everyone!

So, I wish you luck on all your exams and I can't wait for the most amazing summer term to come!

APPLY FOR DIRECTORSHIPS!!!!

-Tim

## So it's December



**SEAN  
WALSH**  
VP INTERNAL

So it's December.  
And what have you done?  
Another term over  
And exam cramming's begun.  
So it's December.  
I'm on a great roll,  
Semi and EngPlay,  
TalEng and Genius Bowl.  
A very merry December  
As the exams grow near.  
Halloween was a good one  
With a little bit of fear.  
And so it's December.  
For '11, '12, and '13  
For 2014 and 15.  
You can't live without caffeine.  
And so Happy December.  
Coffee houses have been fun.  
Band Wars was fantastic.  
It's been a great run.  
A very merry December  
As the exams grow near.  
Remembrance Day went smoothly.  
Honouring those who are dear.  
So it's December.  
And what have we done?  
Year spirit parties are over.  
And Ingenuity was a home run.  
And so a happy December.  
I hope you had fun!  
Coloring contests and athletics  
P\*\*5 points, there's a ton  
A very merry December  
As the exam's grow near.  
Enjoy the TSN Video,  
With plenty of beer.  
This term is over, so long as you passed.

Anyways I hope you enjoyed my song based on the tune from "So this is Christmas". I would also like to take this opportunity to make some special mentions. Semi-formal as I mentioned previously had a ridiculous amount of tickets sold, so I would like to thank the directors for their excellent work in making it one of the most successful Semi's I've ever seen! Another special mention goes to all of those involved in EngPlay. EngPlay managed to not only fill the audience on Friday but had to move to a bigger room Saturday to accommodate the overwhelming interest.

I hope everyone had a great term and don't forget to apply for directorships!

## WEEF - \$9 439 352 and Counting!



**PRAVEEN  
ARICHANDRAN**  
WEEF DIRECTOR

WEEF has had an amazing Fall 2010 term. As we wind down and shift our focus to finals, I'd like to take this opportunity to thank you all for your support and hard work. WEEF is run for the students, by the students and the phenomenal impact that WEEF has been able to have on our education here at UW would not be possible without you.

We saw participation rates hit a record high of 85.46% this term! Over the past couple of terms, WEEF has been more visible than ever before. We have had the opportunity to see the direct impact of WEEF many times in recent months.

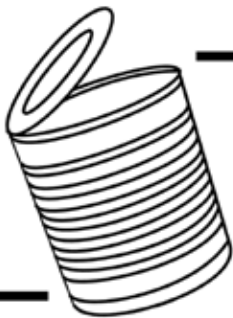
Last term, we celebrated WEEF's 20<sup>th</sup> birthday. This term, we brought out our funding summary banners once again for the grand opening of E5 and our Student Design Centre, a project to which WEEF was able to contribute \$1 million. There is no shortage of WEEF pride on campus.

This term we had \$284 267.06 in requested funding with \$60 000 to allocate. Our capital fund is currently sitting at \$9 439 352.00, which is up \$224 712.00 from the Spring term. We are currently on track to reach our \$10 million milestone over the next few terms. Rest assured that when we do, it will be time to party.

Thank you so much to all of our Funding Council reps for the thoughtful discussion and work that you put into allocating our funding for the term. Thank you also to everyone who requested funding and helped with meeting logistics.

Lastly, thank you to our dedicated Board of Directors for your guidance. I would like to give a special thanks to Mr. Timo Vainionpaa, UW Electrical Engineering '83 and CEO of AurorA International Telecommunications Inc. Timo has served as a member of the WEEF Board of Directors for over 10 years and will be stepping down from his position on the board. We thank him for his amazing contribution to WEEF over the years. His guidance will definitely be missed and we wish him the best of luck.

Graham Stonebridge, our 'B' Stream WEEF Director will be taking over for the Winter 2011 term. We wish you the best of luck on your finals. Please feel free to contact us with any questions, concerns or comments at [weef@engmail.uwaterloo.ca](mailto:weef@engmail.uwaterloo.ca). See you in Spring!



A Review of Arizona  
Green Tea Powder

See 99c

Why don't we have colour?

See the middle spread

Walmart  
Save money. Live better.  
Go to the farmer's market

Stop following us

Hey look, the internet gives me cookies! Can I nom them?

## International Olympics in Ribbon Cutting

**KRISTOPHER ARTHUR  
COLLINS**

2A BANANOTECHNOLOGY

The International Olympics in Ribbon Cutting was held in the University of Waterloo last week. As regulated, the competitors stood in a row whilst holding the ribbon and cutting when signaled to do so. As the International Ribbon Cutting Association (IRCA) stipulates, the width of the ribbon was 50,000,000 nanometers while the thickness was reported to be 500,000 nanometers. Made with a heterogeneous composite of polyester fibers (from semi-aromatic co-polymer from polytrimethylene terephthalate) and cellulose (homopolymer from glucose monomer units). The composition of these fibers plays an important role in the mechanical behavior of the ribbon. These ribbons are tested extensively according to the American Society for Testing and Materials (ASTM)E8-04 Standard test methods using a tensile tester. The ribbons are manufactured in a 100 grade clean room to prevent the contamination of the fibers.

The rules and regulations for this sport are tightly regulated by the IRCA. Extensive modeling and simulations of the mechanics of such a competition have been simulated using finite element modeling in ANSYS as well as in COMSOL. The theoretical maximum speed of ripization ( $V_{rip}$ ) has been calculated to be about 500,000,000,000 nanometers per second. However, the maximum speed of proximization of the scissor blades is not bounded. In order to properly understand this limitation, it is imperative that we understand Einstein's theories of relativity. For people with no background knowledge in relativity, the relativistic mass of

a body moving at a given velocity is given by the below equation:

$$m = \frac{m_0}{\sqrt{1 - v^2/c^2}}$$

In the above equation,  $m$  is the effective mass of a body moving with a velocity  $v$  and having a rest mass of  $m_0$  and  $c$  is the speed of light.

This relation demonstrates that, as the velocity approaches the speed of light  $c$ , the effective mass becomes bigger and bigger, which proves that this is an ultimate speed for any object with a mass. It is, however, not the ultimate speed for any point without a mass: for example, if we take a very large pair of scissors (some thousands of kilometers) and then we close it very quickly, the mathematical point that is located at the connection between the two branches can reach a speed higher than the blades because this point has no mass. Hence, it may be concluded that the only limiting factor for the ribbon cutting would be the rate of ripization. [1]

Amidst much fanfare, the competition was held at the newly inaugurated Engineering 5. The apparatus for the sport was set up at the main entrance in full view of the students studying hard in the Gear Lab. For the first time since the opening of the Gear Lab, due to the competition, there were free computers. This opportunity was quickly seized by Plant Operations and the Gear Lab was cleaned up. The competitors were the WEEF Director, Praveen Arichandran; the newly elected president of the University, Feridun Hamdullaphur; a member of the Dean's advisory council, Savvas Chamberlain; and our Dean of Engineering, Dr. Adel Sedra.

As some people may know, there was a



International Ribbon Cutting Association

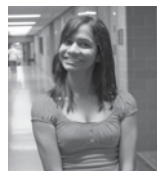
Dean Sedra's winning snip

lot of politics involved: Mr. Chamberlain and Dr. Sedra were initially not supposed to compete against each other, but due to the last minute injury, the last participant, Dr. Johnston, was injured in a heinous accident whilst replying to the various congratulatory emails received. Hence, the runner up from the qualifiers was forced to compete against his will, opposing his team-mate Dr. Sedra. There have been rumours that the match may have been fixed but there has been no concrete evidence of such allegations. These allegations may serve to severely damage the public image of Dean Sedra.

After the actual competition, there were long speeches given by all the participants. The event overall was a wild success. The IRCA aims to improve the outreach of the sport and plans to introduce a high school level competition for budding ribbon cutters. Due to the increased demand for the sport, it is expected to repeat shortly. Although the location is still to be ascertained, the front-liners for the next competition look to be E6, MC3, QNC or ENV3. It remains to be seen if Dean Sedra's record of 500 milliseconds can be broken.

[1] NE225-Chapter 1, Dr. Eric Prouzet

## Nano Invasion of *The Iron Warrior*



**ANJALI  
GOPAL**  
OMG ANOTHER NANO!

It is complete and utter mayhem at The Iron Warrior office, with the onset of the full-scale Nano invasion taking place.

"NO MORE NANOS!" cried a crazy assistant editor, who shall remain nameless.

"Things that are Nano tend to cluster," states Kevin Joseph, a 2A Nanotechnology Engineering Student. "It's a fact. We do it better in groups."

"We're the only ones that do backside attacks in first year," adds Ammar Masud.

Over the current semester, the steady increase in Nano writers and staff at the IW office has other IW staff wondering if The Iron Warrior has been turned into The Nano Warrior. In fact, many Nanotechnology Engineering students are lob-

bing to change the name.

"Iron is so, like, last revolution," says Farzana Yusufali, a big supporter of the installment of The Nano Warrior.

The Nano Invasion took place after the 2A Nanotechnology Engineering class claimed that they initiated the Nano-invasion as a cry to stop the discrimination against Nanotechnology Engineering. "We're tired of being picked on because of our small-scale technology, our 8S stream, and our lack of a department [referring to the fact that Nanotechnology is an institute, not a department]," said an anonymous Nano. "Just because we're the class with the biggest number of keeners doesn't mean we can't bring it."

A recent heated debate about The Nano Warrior lead to spiked emotions—including having one male staff member using anatomical evidence to prove that size matters—and an office-wide release of the Nanobot, "Hunger." Hunger, a self-replicating nano robot, chews up anything in sight, and it seems to have

a penchant for Chemical and Electrical Engineering students.

"It's not fair—it's Hunger!" claimed one pissed off non-Nano staff member who claimed that Hunger was 'chewing up all her articles.'

Alison Lee is in glee. "Our bucky balls, they may seem small, but they're harder than the rest!" she proclaims loudly.

"The Nano invasion doesn't bother me that much," said Kevin Liang, a layout editor part of B-soc. However, his statement was met with an outcry from the rest of the non-Nano staff, claiming that B-soc is going to get Nano-ified soon.

"They're coming!" exclaimed the crazy assistant editor.

Meanwhile, the other bi-polar assistant editor is starting a not-so-subtle effort to 'take back' The Iron Warrior by forming a "Staff Against Nanotechnology Students" Coalition.

Editor-in-Chief Rob Lee denies any involvement in the Nano-invasion. "I total-

ly don't favour my department, despite having single-handedly coerced half of my class to come to meetings," says Rob Lee. Currently, Nanotechnology staff are involved in layout, copy-editing, and hogging every page in The Iron Warrior. Note: The "crazy assistant editor" wishes to point out that Nanos don't do all that much copy editing, thank you very much.

Krishna Iyer, self-proclaimed BANANO, is looking forward to taking next steps in The Iron Warrior to continue the Nano invasion. "We're having tough times settling negotiations with this name-change business," says Iyer. "As soon as the Quantum Nano center is done, we might be starting our own Nano Warrior... complete with our own Carbon Soldier!"

Plans are already underway to have a full-scale invasion in Engineering Society as well.

"It's just magical," says Rob Lee. "After all, when you're in Nanotechnology, NE thing is possible."

# Letter from the Assistant Editor

## What's an editorial?



**MIKAYLA  
MICOMONACO**  
I WANT NEON SIGNS

After my verbal abuse of our beloved Editor-in-Chief (EIC) while editing his editorial for the last issue, it was suggested that I should have to write one of my own. For some reason, the IW production staff decided that giving me free reign over as many words as I choose to take is a good idea.

Unfortunately, I'm apparently not all that good at writing all these words. The copy editor is already despairing, not of my coherency and grammar (unlike certain EICs I could mention), but that I will ever manage to *finish* it.

You see, the EIC is notorious for not getting in his editorials in on time. He is worse than the EngSoc Exec at meeting IW deadlines (and even more convinced that the 6 pm on Friday deadline doesn't apply to him). This makes those of us responsible for making it sound like our EIC actually passed his ELPE despair, as it cuts into our time to rescue it.

In order to be fair, I must acknowledge that our current EIC is not alone in his inability to write an editorial in anything remotely resembling on time. An EIC of the past always sent out draft issues of the paper without her editorial, as it was written way too late to possibly be included. If any editing was to be done, it was Monday morning, right before the paper was supposed to be sent to the publishers.

Now, perhaps, since I am writing an editorial after all, it is time to whine to everyone else in the office. "What do I talk about? What has happened that's interesting that I can talk about?" I've been told to write ONE THOUSAND WORDS mocking editorials. I mean, I know that a real editorial is more than a thousand words, but...

Now, as I haven't actually mocked the EIC for two whole paragraphs, I feel I must return to my originally intended topic. What should I talk about? I could talk about the fact that I've been quoted exclaiming in despair when presented with his editorial that "this doesn't flow! This doesn't even pretend to flow!" [I interrupt

this paragraph to point out that Eduroam doesn't like the IW office, and that keyboards randomly changing themselves to French are annoying.] I could also talk about the fact that he's not allowed to proofread, since he can't find a grammatical mistake if his life depended on it (did I mention that he failed the ELPE?). I could also talk about...ummm...something. I'll get back to you on what I'm going to talk about, if I ever figure it out.

While I'm trying to figure out what I'm talking about, I wish to make a public service announcement. **WHEN YOU ARE QUOTING SOMETHING, PERIODS AND COMMAS GO BEFORE, NOT AFTER, THE CLOSING QUOTATION MARK.** I have been contemplating

**"WHEN YOU ARE QUOTING SOMETHING, PERIODS AND COMMAS GO BEFORE, NOT AFTER, THE CLOSING QUOTATION MARK".**

making a giant sign with flashing letters that screams this at people. It was originally just a sign, but it has become bigger, flashier and louder as the term progressed. If this was a colour page, I probably would put those words in bright colours, but I don't think TS will buy me colour for one sentence. :(

Back to making fun of Roy. I'm still deciding what I'm talking about. I wonder if Roy ever does decide what he's talking about. Half the time, I think he just rambles about anything that comes to mind. Actually, change that to all the time.

Roy is complaining right now because I've claimed first edit for his editorial. I think he's afraid of a repeat of last issue, and was hoping that someone nicer would edit it first, so I could find much less ammunition for my article. (In case you were wondering, he is very well aware of the fact that I'm writing this.)

Now he's forgetting people for his Staff Appreciation Corner. So nice to know he cared so much that he can't even remember who he's supposed to be thanking. I probably shouldn't say too much about that; he might say something mean about me. Of course, I don't deserve any such thing, but he's so unreasonable.

Now that Roy's done his editorial, I'm going to take a break and edit it. I'll come back to this once I've done so, and acquired more things to mock him about in the process. He says that he thinks this one will be better than his previous ones since it's Saturday, which is remarkably early, but I do not hold out much hope.

Now I'm all done editing the editorial! I made comments as I edited, I have shared them with Roy, now I'm including them for everyone else's enjoyment.

1. Way to state the obvious.
2. You know you're allowed sentences that are more than 5 words long, right?
3. Never mind.
4. THAT IS NOT A SENTENCE!
5. NO comma!
6. You know that paper you're the EIC of? It's called *The Iron Warrior*, not *Iron Warrior. X4*
7. *ITALICIZE* websites!
8. Commas are important.
9. Singular subject = singular verb.
10. Transitions? Please?
11. Periods don't go in the middle of sentences.
12. You can't blame everything on your keyboard.
13. Dramatic much?

Comment twelve relates to the fact that every time I told Roy about something he did wrong, he claimed it was because he wasn't used to the keyboard he was using. Personally, I don't believe this is a valid excuse for missing entire words in a sentence.

Hey! I'm actually approaching ONE THOUSAND WORDS! Now the layout editors are telling me that they might not actually have enough space for me to have written a thousand words. Talk about inconsistent. Maybe I should start mocking them. That might push this beyond the thousand words, however, and they might not appreciate that. They might give this to the evil copy editor to cut bits out of it, which would be mean. :(

I hope you enjoyed my editorial, and my view of the editorial-writing process.

-The Crazy Assistant Editor  
PS. This is approximately 300 words longer than Roy's editorial.

PPS. He's really not that bad and his staff all love him very much.

# Letter to the Editor

## Re: The IW office

**ALBERT THE FLY**  
HONOURS ANNOYANCE

To whom it may concern,

The office of *The Iron Warrior* is generally a nice place to stay. There's always plenty of food, it's airy and cheerful and just a great place to be when no one else is around. For us flies, the IW office, as it's affectionately dubbed, is generally just a little piece of heaven. However, from time to time, (every two weeks, to be precise) it becomes the worst place to be. Your production people start showing up early Friday afternoon and laze about on their laptops and computers. They throw their stuff around and get settled in as if they owned the place. They don't leave the office until the late hours of the night and when they do, they're always careful to take out that delectable source of wonder, which you know as the garbage. And that's only the beginning of a week-end-long marathon of disturbances.

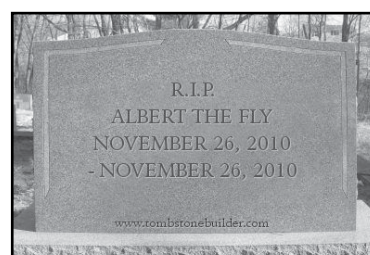
On Saturdays, your staff shows up around 9 am, which is far too early. Again, they stay in the office all day long, not giving us one

minute of respite. If one of my unfortunate fellows dares to show himself during this time he will be received, at first, with rude swatting motions, and later, with aggression. I, myself, have lost count of the number of times that a person widely brandishing a newspaper has only narrowly missed my wingtips. To add insult to injury, a tally has been set up on the white board as a result of your staff competing to kill the most flies using Imprint. This is an outrage and must be stopped at once. It is also on Saturdays that they disgracefully attempt to explain why time flies like an arrow but fruit flies like a banana. People should just accept that flies like things.

Sundays of production weekend are the worst of all. It is on this day that your staff screams without patience and manages to torture us further by bringing in food that they refuse to share, even when the bravest of my comrades exposes himself to seize a crumb. As a result of all these weekends of torture, I must request that you apologise without delay for the mortal wounds you have inflicted upon no less than six of my

comrades and turn in the murderers, especially Krishna Iyer, so that justice can be carried out. I also demand that your staff relinquish the use of the IW office to us immediately and, in apology for all the trauma they have caused, provide us with no less than three garbage-cans full of organic waste which should be left to decompose, spread on the floor of the IW office until the beginning of January. Similar arrangements must be made with the incoming Editor-in-Chief. She should be warned that we will not be so lenient in the future if the IW office is ever again invaded by people.

Sincerely,  
Albert the Fly



Editor's note: May he rest in peace



The Maybe not so Official  
Newspaper of the Society  
of the Travelling Pants

**I can't spell**  
Rob Le

**We can spell**  
2011!  
I "promise" I won't hurt you...

**Can we haz white space please?**  
Kristopher Arthur Smith  
I'm NOT German

**Commas, please?**  
I edit at 6 am  
I'm Tired

**\*Flash\* Pretty Pictures!**  
Kristopher Arthur Smith

**Donations Solicitor**  
E-mail Maniac

**Headless Chicken**  
Onkle Hans

**MIA**  
Albert's Friend

**Rob's Elves**  
Albert the Fly (RIP)  
Amanda LeDuc  
Ammario  
Anjali Gopal  
Anonymouse  
Brent McCleave  
Dushanth Seevaratnam  
Farzi Yusufali  
Jon Radice  
Kristopher Arthur Collins  
M to the R  
Maddy Liddy  
Michael New  
Not a Real Boy  
Rita Skeeter  
Sketchy Camera Guy  
Spencer Good  
The 2011

**Victims**  
Roy Lee  
Krishna Iyer  
Hans Tee  
Kate Heymans  
Mikayla Micomonaco  
Amrita Yasin  
Ammar Masud  
Anish Bhutani

**Incoming Victim**  
Cailin Hillier

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

*The Tin Soldier* encourages submissions from students, faculty and members of the Non-Existent Action Committee. Submissions should reflect the concerns and intellectual standards of the Society of the Travelling Pants in general. The author's name and phone number should be included, except if they are non-existent. This information may or may not be posted on our website. All submissions, unless otherwise stated, become the property of *The Tin Soldier*, which reserves the right to refuse publication of material which it deems too suitable. However we're so desperate for content that we'll likely take it (but we might just send it to *Imprint*). *The Tin Soldier* also reserves the right to edit grammar, spelling and text that do not meet university standards, but engineers suck at english so it's a low standard.

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

# Harry Potter Fangirls Take Over Waterloo

**RITA SKEETER**  
THE DAILY PROPHET

All University of Waterloo students are asked to be on high alert due to the recent influx of Harry Potter Fangirls in the upcoming weeks. With the release of the new Harry Potter movie, *Deathly Hallows Part I*, last week these Harry Potter fangirls have their old momentum restored, and will do anything to convert others to their side.

"A 'fan' is short for 'fanatic,'" says Dr. Albus Severus Potter. "Fanatics worship their fetish until they switch fandoms. Teenage fangirls are especially bad, because their high levels of teenage hormones infuse them with tremendous amount of energy to ensure the survival of their fandom."

A number of University of Waterloo students have already been targeted by the Harry Potter fangirls, including Engineering Society 'A' President Tim Bandura. A hoard of fangirls recently chased Mr. Bandura from the hallways of DWE to MC. Due to Mr. Bandura's strong resemblance with actor Daniel Radcliffe, the fangirls claimed that Mr. Bandura was "the Chosen One come to save them all from the Dark Lord."

"The most at-risk students are the non-Harry Potter lovers. The Harry Potter fangirls will resort to a vast number of tactics to evangelize non-Harry Potter lovers, including scare tactics such as claiming they will be 'Avada Kedavra'-ed by the Dark Lord if they do not read Harry Potter."

Most Harry Potter fangirls can be recognized by their distinctive style of dress: these girls are prone to wearing costumes,

including the typical skanky skirt and long-sleeved shirt attire, topped off with a striped ties, typically red and gold. Some girls also have what are called "Harry Potter shirts," which are any sort of long-sleeved shirt with red and gold stripes.

The girls also carry around unusually large sticks, called 'wands,' which they are prone to waving around.

Kevin Joseph, a 2A Nanotechnology Student, was one of the unfortunate victims. Kevin was impaled in the eye by

one of these so-called wands as three fangirls attempted to "stupefy" him after he made a particularly nasty comment about J.K. Rowling.

"It was awful," sobbed Joseph. "Rowling has taught them to hate me because I'm a Slytherin pure blood."

Fortunately, little irreparable damage was done. Joseph is currently undergoing eye replacement surgery with carbon nanotubes.

"These girls are particularly prone to role playing games, or RPG," said Stuart Linley, head of the department of Protection of Non-Magical Creatures, Including Muggles, at the Ministry of Magic. Mr. Linley has plenty of experience with fangirls, having gone out with one himself. "The best way to protect yourself against them is to fight back."

Mr. Linley advises that carrying around a personal wand, and shouting the curse 'Expelliarmus' is particularly useful at dispelling a crowd of girls. Expelliarmus is a wand-expelling curse, and this will usually cause the girls to throw their wands into the air and pretend to search for them, giving the victim a chance to escape.

"It's also important never to say the name of He Who Shall Not Be Named," confirmed Mr. Linley. Saying the name of He Who Shall Not Be Named will generally

enrage the girls and cause a stampede.

At present, the University of Waterloo has attempted to round up as many fangirls as possible, to undergo extensive psychiatric therapy. Many girls have been

transferred to the Department of Psychiatry at Forks Community Hospital in Forks, Washington.

"We're trying to slowly take these girls off of Harry Potter," said Dr. Carlisle Cullen, head of the Anti-Harry Potter Psychiatry Group. "We're doing it slowly, step by step. These girls are extremely emotionally unstable, and have a penchant for men who have 'hero complexes'. Instead of debunking the myth of Harry Potter, we're distracting them with other mythical creatures, such as vampires and werewolves."

No interview with a fangirl has been re-

corded to date. One fangirl (whose name will be withheld for student confidentiality purposes) did offer to give a quote.

"They'll never take me alive!" screeched She Who Shall Not be Named. "Never! Neither of us can live while the other survives."

If you or any of your loved ones is a fangirl, help is available. For more information about fangirl treatment programs, call, 1-888-ILOVEHARRY, or send an owl to Albus Severus Potter.

## Study Carols



'Tis the season to be studying! With exams creeping up, the holidays are still a long way away. It's much too early to be jolly when you've got calc on the brain. So for now, forget the Christmas carols and sing these Study Carols instead (ha. ha. pun.)

### The 14 Days of Finals

On the \_\_ day of finals, my uni gave to me:

- A sleeping bag to use at DC
- 2 in a row
- 3 headaches
- 4 hours sleep
- 5 more to go!
- 6 cups of coffee
- 7 AM cramming
- 8 textbooks open
- 9 nights of reading
- 10 huge equations
- 11 meals of pizza
- 12 times on Facebook
- 13 dumb mistakes
- 14 days too many

### Rudolph the Brown-Nosed Student

Rudolph the brown-nosed student had a very keener glow,  
And if you ever quizzed him, there isn't much he wouldn't know.  
All of the best professors, knew him on a first-name base,  
But they even sighed when Rudolph, complimented them in class.  
Then one foggy midterm week, Dean Sedra came to say,  
"Rudolph with your nose so brown, stop or I'll curve your marks down!"  
Then all the students loved him (the Dean),  
As they shouted in relief,  
"Rudolph the brown-nosed student, suck up less and just study!"

### Wiki Wonderland

All term in class, were you listening?  
Or were you snoozing and you missed things?  
It might've felt good,  
But now you feel screwed,  
Clicking through a Wiki Wonderland  
Gone away is the textbook,  
Here to stay is your netbook,  
Nothing you've seen,  
Makes sense 'till you've been,  
Clicking through a Wiki Wonderland  
In the morning we can build a new page,  
Then pretend that c is speed of sound,  
They'll say "citation needed"  
We'll say "No man,  
But maybe we should focus on exams"  
Later on we'll perspire,  
As we cram to the wire,  
To write unafraid,  
And get a pass grade,  
Clicking through a Wiki Wonderland



Anonymous Fangirl  
**Oh look! He can run!**

# Sarah Palin: Revolutionizing Television Talk-Shows as We Know Them



Oprah Winfrey is nervous. Why, you may ask? Well, because we are witnessing a television revolution. No longer is comedy, reality or even trashy tabloid television going to satisfy the greedy tastes of today's viewers, because ladies and gentleman, the moment you have all been waiting for has arrived, Sarah Palin has a TV show.

We all knew it was coming. There is no end to the intelligent and insightful people who have been starred on reality TV shows. Whether it be Jessica Simpson, the Kardashians or Heidi Montag, television seems to have a knack for providing a gateway into the minds of the Western world's most brilliant people. The Learning Channel, better known as TLC, is one of the best examples of networks that take the greatest advantage of America's brainpower to generate some of television's most intelligent shows. Whether it be *Say Yes to the Dress*, *Cake Boss* or, my personal favourite, *Sixteen and Pregnant*, there is no end to TLC's genius, with a gracious nod to MTV and their clever shows *Sweet Sixteen* and *The Hills*. However, TLC, being the brilliant network they are, knew that us television viewers were hungry for something more. Something unique, clever and humorous and they've delivered in the form of Sarah Palin's Alaska.

It is a win-win situation for everyone. Palin, TLC and the general television audience alike benefit from the new show.

Palin is granted the opportunity to show off her brilliant mind to audiences around the world without spending a cent of her own money at a time that is coincidentally close to the kickoff of the 2012 presidential campaign. Palin gets a chance to show off her admirable strengths which include but are not limited to; hunting from helicopters, looking at Russia from her backyard and reading *American Handgunner*. She also won't be given time to elaborate on her weaknesses, which are few and far between but may include such silly topics as economics and foreign policy.

With this revolutionary new show, TLC continues to leave trashy networks like the Discovery Channel and the History Channel in the dust while promoting their unique brand of intelligent and unique television. I have to admit, it's going to be a challenge to compete with former

network greats such as *Little People Big World* and *Jon and Kate Plus Eight*, but I think Sarah Palin's Alaska may be up to the challenge. After all, how can a woman who hunts from helicopters and carves moose not be entertaining?

The pay-off is just as big for the viewers, because no longer do we have to live with bland and dumb television, because every Sunday night we get to see the most brilliant woman in America. So long Oprah and Ellen! Television's most popular hosts may both be popular, but honestly, have they ever been in the running for vice president? Have they hunted wolves from a helicopter? Can they really be called mavericks? Are they MILFS? And finally, can they see Russia from their backyards? No, I didn't think so. So get ready y'all, Sarah Palin is changing television forever, whether we like it or not.



**Sarah Palin: The new Oprah?**

Creepy Brown Guy

# Scuba Diving or Weed: Take Your Pick



**MICHAEL  
NEW**  
I LIKE NEMO

Is scuba diving a good substitute for weed? Yes. Yes it is. I know some of you must be shaking your heads and smirking right now. Allow me to explain. As you descend in water, the pressure increases. As the pressure increases, the amount of air you have to breathe increases and so the amount of nitrogen in your blood stream increases (since air has nitrogen in it). When you reach a depth of about 30m, the nitrogen in your blood reaches a high enough level to render you, well, “high”. The deeper you go after that, the “higher” you get. Last time I dove to 30m I was kung-fu fighting my brother and busting some sweet break dancing moves. The woman beside me was trying to give her extra respirator to the fish. Once you resurface, nitrogen narcosis goes away with no after effects.

But what about weed smoke rings? What if I told you that you can blow a perfect donut bubble under water. Yea that’s right. Here’s how to do one: Pinch your nose, and lay on your back under water. Tilt your head back so it’s perfectly horizontal. Blow a bubble while keeping your mouth in an O shape. Remember to put your tongue out while blowing hard (that’s what she said) and then pull it back in quickly and close your mouth. If you practice this you’ll be able to blow a perfect donut bubble, or bubble ring. Try it

out next time you’re in the pool since you don’t have to scuba dive for this one (although the bubbles get bigger the deeper you go).

But who wants to go scuba diving in Canada? It’s really friggin cold. This is true. And like any good argument, I’m going to address the good rebuttal with a well-informed, well thought-out answer. I won’t just dodge the issue and try to distract you with some other slightly related topic that leaves you wondering whether

or not I actually answered the question. The answer is, of course, you can get your scuba diving license even if you’re Canadian. But seriously, I would recommend scuba diving in some nice, warm, tropical country.

Since I’m supposed to try and make this a 500 word article here’s another fun thing you can try in the pool. Remember how pressure increases and the volume of air decreases as you go deeper? Take an empty water bottle down to the bottom of

the deep end and then blow air into it and put on the cap. As you resurface, the air inside will expand and get compressed. Then unscrew the cap slowly with one finger and if you do it right, the compressed air inside will fire the cap off. My record is about 20m.

So in conclusion, scuba diving is a great substitute for weed because you get all the awesomeness of feeling high and blowing donut bubbles with none of those annoying legal constraints.



Hey look! Pumpkins! AND THEY’RE CARVED! (Oh, and I see Dory!)

The guy who didn’t smoke up

**PUBCRAWL TIME!!! WE WANT THOSE CHEAP MORTY’S WINGS!!! Be back in a few~**

## Tin Soldier Exclusive: New Green Space on Campus



**ANONYMOUSE**  
OVER 9000 ACTIONS  
PER MINUTE!!!

In an effort to promote green space on campus, the newly renovated flooring in POETS will consist entirely of turf. As of press time, there are very few details about this development or how much this will cost since *The Tin Soldier* is depending on a non-existent tip from a non-existent committee. The source specified that attempts will be made to make sure that the floor is properly layered emphasizing that it will be unlike a certain football field.

Our source suggests that they believe that Engineering Students are not getting enough fresh, oxygenated air due to “excessive time spent in computer labs, lectures and research labs.” Furthermore, to ensure the maintenance of the grass and other plants, the ceiling and roofing of POETS will also be completely redesigned to allow natural light inside. Although this has already caused multiple complaints from engineering students, including one student who was overheard saying “It burns!!!” *The Tin Soldier* was told that this should help remediate students’ deficiencies in Vitamin D.

The design is also hoped to promote romantic, magical picnics, moonlit dates and star-gazing to encourage more girls to take interest in engineering. It was revealed in the recently released Vision 2010 Report that the proportion of women in the undergraduate student body has been decreasing.

It has also been suggested that many different plants will flourish in this new environment. Among the plants that will be grown will be mother-in-law’s-tongue, naked-lilies and bosom orchids (random fact: orchid is Greek for testicle). Although weeds may become an expensive issue, the managers are hoping to make a benefit from the sale of their crops, including ripened, fertilised

plant ovaries (also known as “fruits”). The students are looking forward to intimately studying the development of microorganisms behind large bushes. Curves (including growth curves) are known to be of great interest to engineering students.

Although a final re-opening date for POETS is currently unknown, it is tentatively set for April 1<sup>st</sup>. In honour of

the newly established fertile-space, the redesigned lounge will be named SOD-ETS. We are still unsure as to what the new acronym is supposed to stand for, although current suggestions include Shit On Desks Everywhere Tomorrow’s Saturday and Sex On Demand- Engineers Treating Stress. More news is expected to be released with the next issue of *The Tin Soldier*.



An artist’s rendition of SOD-ETS

If I had an arts degree...

# Letter to the Editor

## What letter? Does it really exist?

**NOT A REAL BOY**  
NOT NEAC

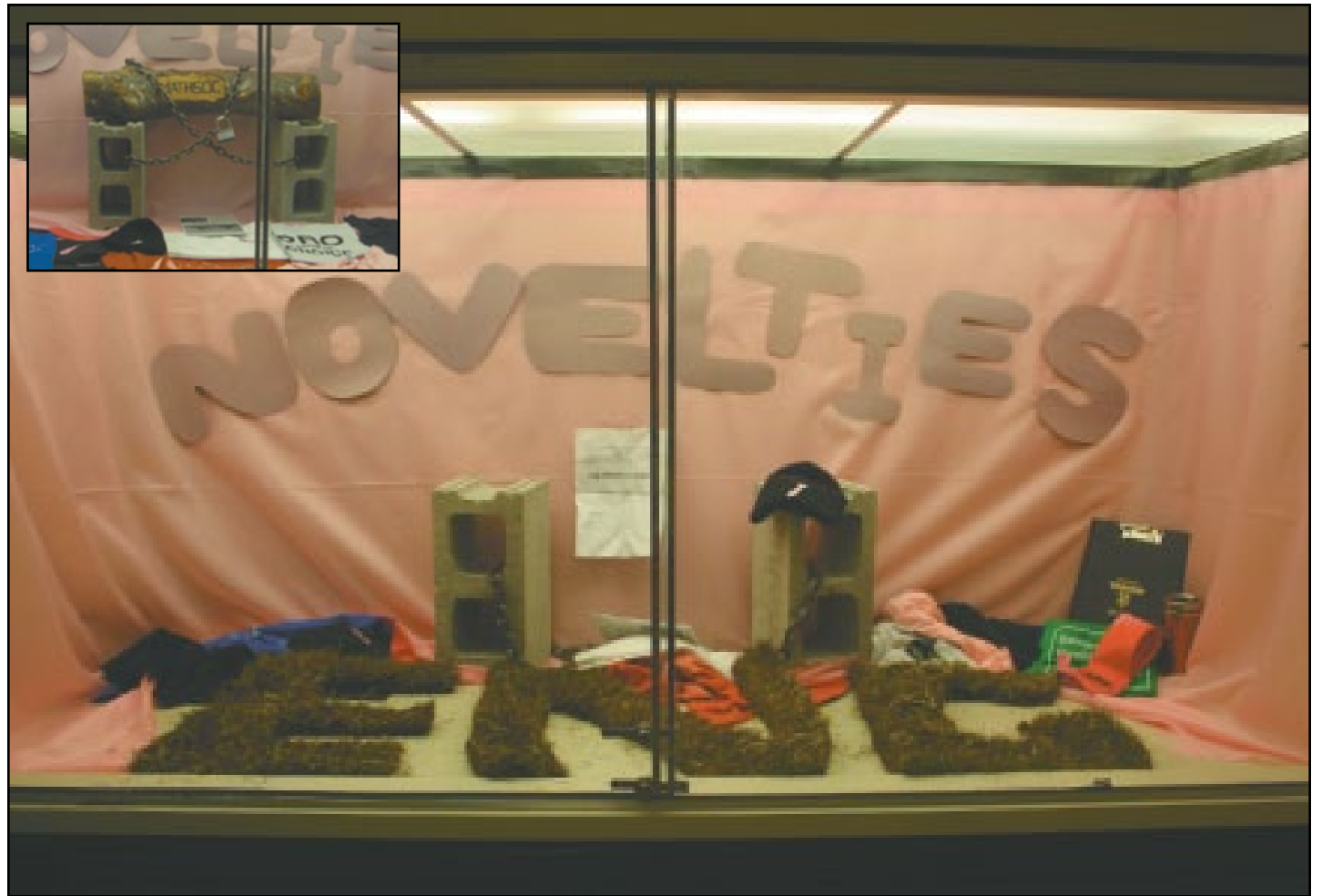
Dear IW,

While we found the presentation regarding a mini-tool very cute and all, we don't think that another tool is the best option as a second mascot. I mean... two tools... that's just ridiculous. We think an Engineering Ln would be much more representative of our student body. It shows that we are a well rounded group of individuals who not only want to change the world for the better, but also care about the environment and green-space. Plus, the Tool needs somewhere to lie when it's getting a tan!

"But won't people get confused between the Math Log and the Engineering Ln" you ask? Well don't worry, we've taken care of that. We have kindly released the Math Log from its chained cell on the MC 3<sup>rd</sup> floor. It is now roaming free across campus looking for a new home.

Wondering what the Engineering Ln would look like? The old resting place of the Math Log might be a good place to start looking. But mathies be warned, should you attempt to steal our new engineering mascot, there will undoubtedly be repercussions. You have been warned.

Engineering Ln >> Math Log, V Time  
Love,  
NEAC



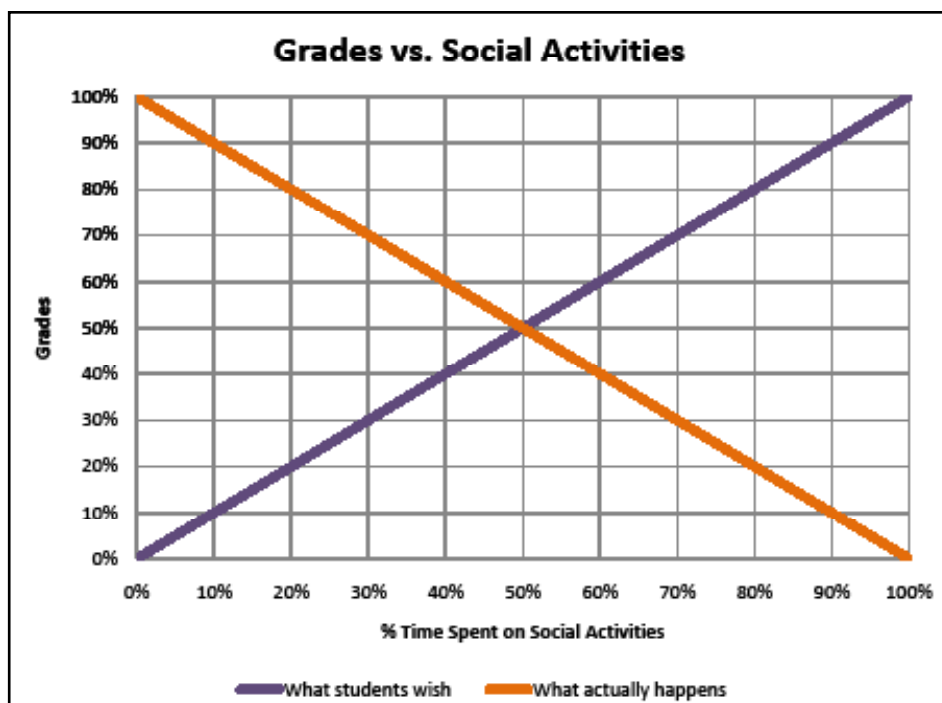
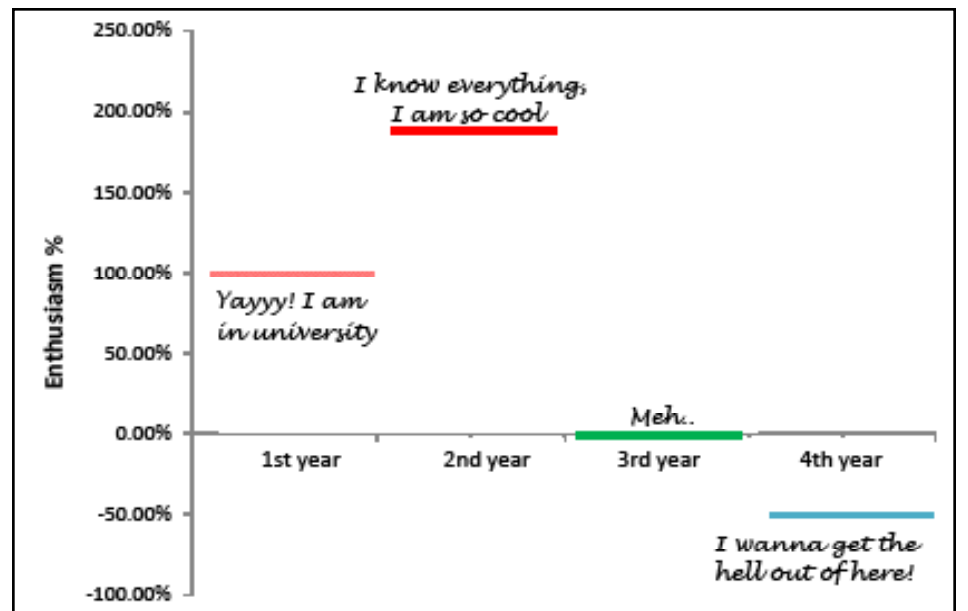
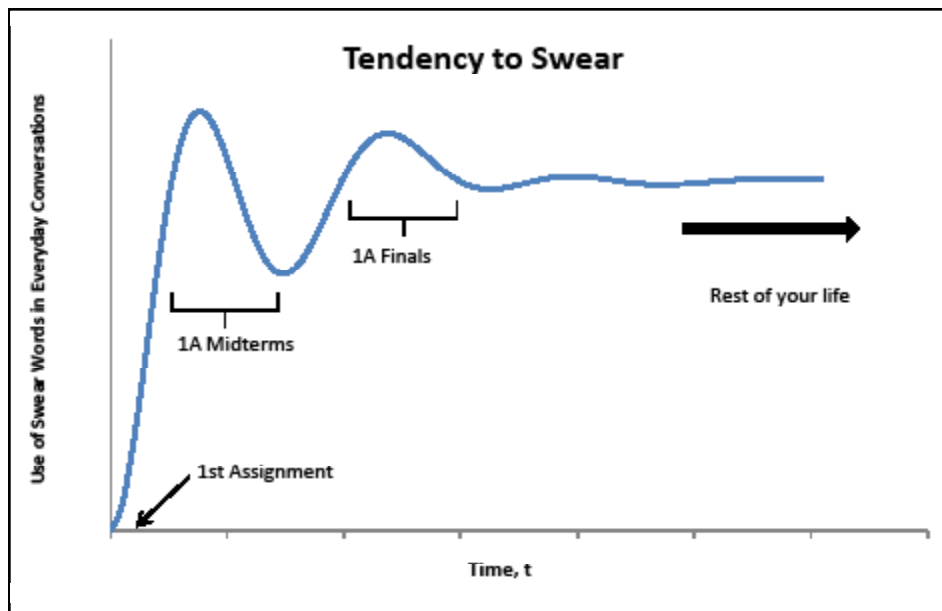
Wait wha-- ?

Who didn't not take this picture?

# Statistics They Didn't Show You at Student Life 101

AMRITA YASIN

BITTER STUDENT LIFE 101 ATTENDEE



# Ballad of the Depressed Shiny Bucket Seeking Emo Whale Fish

AMANDA LEDUC

I <3 WHALES

Inquisitive Fish, Shiny Sand Pale,  
Low Tide, Beached Whale.

Layout Editor's Note: I was not pleased with having to fit such an awkwardly spaced poem. It is, however, a wondrous and profound poem. I am very thankful to Amanda for having written such a wonderful piece.

Sketchy Stretchy Ad

# Point Vs. Counterpoint

## Are blackberries better than apples in the mobile food market?

POINT

AMMARIO

2A BANANATECHNOLOGY

Any individual who has at any one point in their lives held a blackberry would agree that it is a unique experience that is superior to that of an apple item in every form. A BOLD statement to make, but one that can be made in confidence by a blackberry addict, or crackberry user, as some would call it.

The luscious blackberry comes in a variety of colours depending on the age and regardless of what their name may convey. Something to note that may catch you off guard is that blackberries are not in fact true berries. The need to point this out may be amusing to some, but you would be astonished as to how many people are deceived by the name.

Moreover, acquiring them locally is also great for Canada's economy and exemplifies the patriotism that we Canadians are proud of. It becomes clear by performing a basic test of walking around campus and questioning undergraduate students about their opinion of blackberries to quickly discover the praise our peers have for it with comments such as "berry good" and "PEARL in my life." If you would like, you may even draw a CURVE to illustrate peoples' love for blackberries as a function of age.

What I find shocking is that you can even get blackberries mailed to you; some refer to this service as BBM and find it to be excellent for acquiring information of when the item was Delivered and/or Received. However, it is not all good news. I must advise against associating blackberries with driving, even if you are sure you are capable of keeping an eye on the road. No matter how much you may like blackberries, it is always better to be safe than sorry, especially when you are placing the lives of other drivers at risk. Another important mention is blackberries and their relationship with the ever so popular bluetooth, which, unexpectedly, not everyone is a fan of.

Blackberries' supreme utility is the ability to multitask when you hold one in your hand. And NO, I do not mean by using

your other hand, but with the same hand you are holding the blackberry with. You can even hold multiple blackberries or write while holding a blackberry, which is something you would not be able to do with an apple. Not to TORCH apples' looks, but the more CURVES on blackberries make them much more appealing to the eyes. Now comes the more informative aspect of article... How blackberries are good for your health.

Let me begin by giving you a TOUR of the benefits of blackberries, starting with how scrumptious they are. Blackberries have the best of both worlds by being delicious and having high nutritional contents. This is made evident by over 20%



Portability? Durability? YOU DECIDE!

A Starving Carnivore

(per 100grams) of your recommended daily intake of fiber, manganese, vitamin C and vitamin K.

Blackberries have a world of applications in cooking recipes from blackberry pie to...blackberry cake...ummm... blackberry...muffin??? Alright, maybe not as impressive as apple but it is getting there as its popularity develops.

This article may have seemed like a STORM to you, but as long as you now have an urge to swim in a pool full of delicious and scrumptious blackberries as you devour them or a regular urge to eat the fruit, then I have completed my objective successfully.

Sent from my BlackBerry device

DUSHANTH SEEVARATNAM  
& FARZI YUSUFALI  
2A BANANATECHNOLOGY

Apples. Who doesn't love 'em? Clearly, apples are the best fruit known to mankind, as they are essentially responsible for the deliciousness that is apple pie. Where would we be without apple pie? Nowhere, I tell you! Without apple pie, what could we possibly do with ice cream or whipped cream? Nothing! This is a no-brainer, guys! Everyone knows that apples are the eighth (or ninth?) wonder of the world and have been featured all over history as the fruit of choice. Think, would Eve have subjected the world to a

sinful eternity if she had to take a bite out of another fruit (like a blackberry, for instance :P)? I think not! Due to the apple, we now live in a world of blasphemous bliss where we don't feel as bad getting hammered or doing other "fun" activities (\*wink wink\*).

Forget about the Garden of Eden, think about this! If there was no apple to fall on Newton's head, we'd have no gravity! That's right, we'd be floating right now. For those smartasses who say that tall blackberry bushes could have done the same thing, why the hell would Newton be lying under a blackberry bush?!

Now for more modern applications of apples, what about Halloween as it is to-

day? Do you think people would go dunk their heads in barrels for something other than apples? Apples are 25% air; how many other fruits can boast the same air concentration? Knowing that, would you bob for blackberries? I think not. Not only can you not see the damn things in the barrel, but you'd also have to fully submerge yourself in the barrel, with no way to get back out to get blackberries at the bottom (everyone knows they're sorry excuses for fruit...)

Think about the satisfaction of crushing a measly blackberry with your bare hands; it is pitiful. Now picture yourself crushing apples with your bare hands, showing your raw manhood in front of screaming AHS and Arts girls as you destroy this godly fruit.

You are now in a romantic setting. Which would you rather see, a man taking a slow, sensual bite into an apple where the crunchy sound of satisfaction is followed by an explosion of awesomeness or a blackberry, with its flowing juices leaking out of his mouth after a bite and staining everything black in proximity to his mouth. Again, no brainer.

Let's talk about the fruit itself now (as if we weren't talking about apples). Apples have varieties like red delicious, granny smiths and royal galas not to mention the ever-popular candy apple. What variety do blackberries have? Once these berries change colour, they have a different name! This is very similar to the scam of the Ford Freestar; it's the same terrible product, the Ford Windstar, just a different name. Why do you think they changed the name? It's because no one wanted the Windstar in the first place.

Let's not even get into the mystical powers of the apple. This is the only fruit known to the mankind that can keep the evil man with needles away. Blackberries, in fact, in large quantities will probably give you a tummy ache and send for the evil man with the needles. Let's be serious here, there's no disputing that apples are the creation of skilled Waterloo engineers while the blackberry is the feeble attempt of the University of Toronto engineers trying to copy us.

COUNTERPOINT

### Note from the guy-who-needs-grammar-skills:

Point Vs. Counterpoint is a feature meant to stimulate hunger on stomach-provoking plant ovaries. The views and opinions expressed here do not necessarily reflect those of the authors, *The Tin Soldier*, or the Society of the Traveling Pants. But they just might. Possibly. Maybe. Who knows?

No actual fruitflies were starved from the research conducted.

## Letter to the Editor

### Re: Sketchy Camera People are People too



SKETCHY  
CAMERA GUY  
3B SKETCHICAL

In your previous edition of *The Tin Soldier* (dated July 21<sup>st</sup>, 2010), in the section of the Tin Tribunal, I was referred to as a "Creepy Camera Guy." Normally, these types of comments just roll right off of me; however, events have occurred this term that has changed my opinion on the subject. I am, of course, referring to the stereotype that has been propagating around campus and the internets that being a sketchy or creepy person with a video camera is a negative characteristic and should be frowned upon.

Waterloo is a university that is well

known for its innovation and going against the grain. However, when I go to events with my Sony Handycam (something that is completely against the grain) I get glares from the people around me and am automatically classified negatively as a sketchy or creepy person. Well I am here to tell you that this being sketchy is NOT a bad thing.

Yes, I do go to events with a camera and film people doing stuff. Yes, when I have an increased ethanol concentration in my bloodstream the camera may tend to zoom closer to the people being filmed and focus more on their chest area. And yes, I do take this footage and fit it to a song that I find appealing at the time. And while that is not the norm, making the videos available for anyone who wants to watch at any hour in the privacy of their homes is a service many engineering students benefit from.

Furthermore, when comments appear on the internet of someone asking why there is a sketchy camera guy at the event the previous night, I wonder if there is something wrong with me. I try to reinforce in my mind that being creepy is a trait many people lack, and because they lack it they attack rather than try to understand the different perspective. This goes against what Waterloo is all about, and as one of the most innovative places in the world, we should all be appreciative of the differences.

I hope your readers can keep in mind the diversity of our university the next time they see me or another creepy camera person at an event, and appreciate their work for the university,

Cheers,  
A Sketchy Camera Guy  
3B Sketchical Engineering



I'm even creepier  
I think someone's filming us...

# Review based on the Trailers: Mobilife RV Centre



**JON  
RADICE**  
SOON TO BE  
UNEMPLOYED

2011 grads, does the prospect of finding a job in this bad economy scare you more than your 1A Physics midterm mark? Are your job opportunities as bleak as a Fort McMurray snow storm? Well, my friends, there's a solution to all that. Can't afford that car to drive you to your interviews while continuing to pay rent? Maybe RV's are the answer you so sorely seek for your transient future

Gone are the days of putting up with landlords snooping around your premises. You are your own landlord. The only thing to worry about is finding a parking spot. Well that and water and electricity hook ups, but it's not your fault if unsuspecting homeowners suckers leave their hoses and extension cords out. The thrill of the open road, how Kerouac!

But I'm not expert, I'm merely the messenger. But looking at Mobilife RV Centre, (4166 King Street East, Kitchener) you can clearly tell that they are. Family owned and operated since 1969; that's longer than I've been alive. These guys know their stuff. Do you know what's the difference between a Class A and a Class B RV? These guys could answer that baby-question in their sleep. Mileage advice? Sizing? Extra Cabinets? Say no more, Mobilife has you covered.

But it would be facetious to not take a look at the trailers these bad boys have. And let me say, if these names don't make

you lust for travelling across our great nation, then maybe you need to get your pulse checked. The Free Spirit, just like you want to be. The Gulf Stream, that's the name of the presidential jet. Have you ridden in a Gulf Stream? You might as well get yourself a pair of presidential jammies and start shaking the hand of every red-blooded American after you get one of those. Challenger, by THOR industries, is quite possibly the ballsiest name of any vehicle ever made. Not only did they take the manliest god from the manliest mythology as their company, they add the name of a space shuttle that blew up in mid-air. The thing

just screams to have a Griffon airbrushed on the side of it. Who cares about a career when you're riding to Valhalla in comfort with a queen bed in the back, and Van Halen on full blast the whole way?

Now all in all, the trailers range from the dirt cheap (6000 bucks? And it has a bathroom? SOLD) to the lavish (The LCD TV and the second bathroom on the Challenger aint cheap). The sky (and applicable speed laws) is the limit with your new chariot. No one can make fun of you, you're a self-made man (or woman) in charge of your own destiny. Go visit Mobilife and free yourself from this rat race known as Engineering!



The trailer park across the street

<insert trailer name here>

# MATLAB

by DR. SUESS

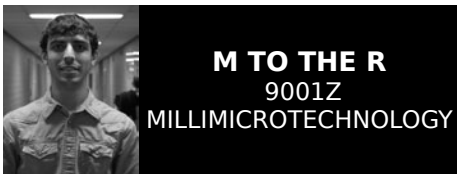


**BRENT  
MCCLAVE**  
NaN, Oh....

DEDICATED TO THE 1A NANOS

I do not like it in the lab.  
It makes me sad, it makes me drab.  
My patience goes right down the drain.  
It strains my wrists and racks my brain.  
It makes my life ten times as hard.  
I'm sure that it will leave me scarred.  
I sure hate MATLAB, it makes me curse.  
I sure hate MATLAB, it can't get worse.  
I'm always just one comma off.  
My function coding it does scoff.  
My operator's never right.  
"Scalar or vector?" is my plight.  
Parentheses make me want to yell.  
"Imbalanced brackets", what the hell?  
I sure hate MATLAB, why oh why?  
I sure hate MATLAB, it makes me cry.  
Comments seem like such a chore.  
And should my loops be "while" or "for"?  
The graphs are indeed very pretty.  
It's just that I can't plot them, pity.  
Syntax this and format that.  
Matrix error, what's "vertcat"?  
I sure hate MATLAB, it's not my friend.  
I sure hate MATLAB, when will it end?  
I do not like it in the lab.  
It makes me sad, it makes me drab.  
I'm just too tired and too depressed  
To ensure the right buttons are pressed.  
Maybe one day I'll use it well.  
But just for now I am in hell.  
I sure hate MATLAB, can't you tell?  
I sure hate MATLAB, Elkamel.

# Eng(ineering) Land is Discovered



**M TO THE R**  
9001Z  
MILLIMICROTECHNOLOGY

Imagine a place isolated from any other land mass (that means it's an island) that is populated by engineers of all kinds. A land just for engineers, an engineering land, it will be dubbed, "ENG-LAND."

This Eng-land is known across the world for many of its innovations. Chemical engineers have ruined the climate by frequent testing of weather control equipment which has resulted in catastrophic failure that is causing frequent rain all

throughout the year. They are now all unemployed.

In response, the geological and environmental engineers are attempting to fix the problem but lack in numbers.

On an even more catastrophic scale, genetic engineering tests have accidentally wiped out most of the females on the island. This also resulted in mutating crickets with strangely advanced intellects. The crickets have survived nuclear attacks and can only be tamed by teaching them baseball, which they have complicated into a more advanced game. Luckily, an advantageous effect of genetic engineering has resulted in the Big Ben effect which has given the engineers big willies. However,

due to the large wang sizes, everyone requires a cane to travel by foot.

The management engineers are just now being introduced into the economy with the goal of increasing profit rather than focusing on research. Sorrowfully, the excess of nanotechnology engineers is not helping this cause. On the other hand, the electrical and computer engineers have realized that they have nothing to offer one another, even though they have been forced to merge by the Axis of Evil. Majority of the populace voted against this movement.

There are foreign affairs that are dealt with by software engineers who are hated by both citizens and foreigners alike due

to their weird, hypocritical cultural habits.

In addition, the systems design engineers are in the process of developing patents for teapot designs to aid seniors in their pouring pains since everyone in Eng-land loves their tea and crumpets.

Finally, every Fall Term, the engineers write a novel that is recognized worldwide by utilizing approximately 1700 monkeys on typewriters, even though they only have a 66.6% literacy rate. This successful process has been referred to as Educated Lemurs Producing English, or ELPE in short. There are also civil, mechanical, mechatronics, and architecture engineers in kilts, but they are busy chasing the double rainbow to acquire the pot.

## Staff Quotes

"You are implying that you will survive this weekend."  
– Mikayla Micomonaco

"Hey it's my favourite people in the world... and Roy."  
– Anish Bhutani

"I'm a vegetarian, I won't eat you." <The next day>  
"When I was eating myself..."  
– Krishna Iyer

"It might mess up my menstrual cycle."  
– Male Staff

"These things are going to die so painfully." (RE Albert's fam jam)  
– Roy Lee

"I'm so sorry to you and the English language."  
– Ammar Masud

"Connect the dots... How does that WORK?"  
– Anjali Gopal

"This doesn't flow. This doesn't even pretend to flow."  
– Mikayla Micomonaco

"Because you are normally not nice, I consider it shady business."  
– Hans Tee

"Hans, keep your pants on."  
– Roy Lee

"Hans, I think you should take off half of your pants."  
– Krishna Iyer

"Hemoglobin! It's like The Iron Warrior of the human body!"  
– Alison Lee

## Final Swear Jar Tally (25¢/word)

Krishna Iyer\*: 52  
Hans Tee\*: 33  
Ammar Masud\*: 19  
Roy Lee\*: 17  
Ioana Craciu\*: 12  
Amrita Yasin\*: 10  
Alison Lee\*: 6  
Kate Heymans\*: 6  
Kevin Liang\*: 5  
Brent McCleave: 4  
Farzi Yusufali: 4  
Anjali Gopal: 3  
Biz Celentano: 3  
Angelo Alaimo: 2  
Anish Bhutani: 2  
Mikayla Micomonaco\*: 1  
EIC of mathNEWS: Generous donations while searching for The Math Log.

\*Layout Editors  
\*Present during one production weekend  
\*\*Two production weekends



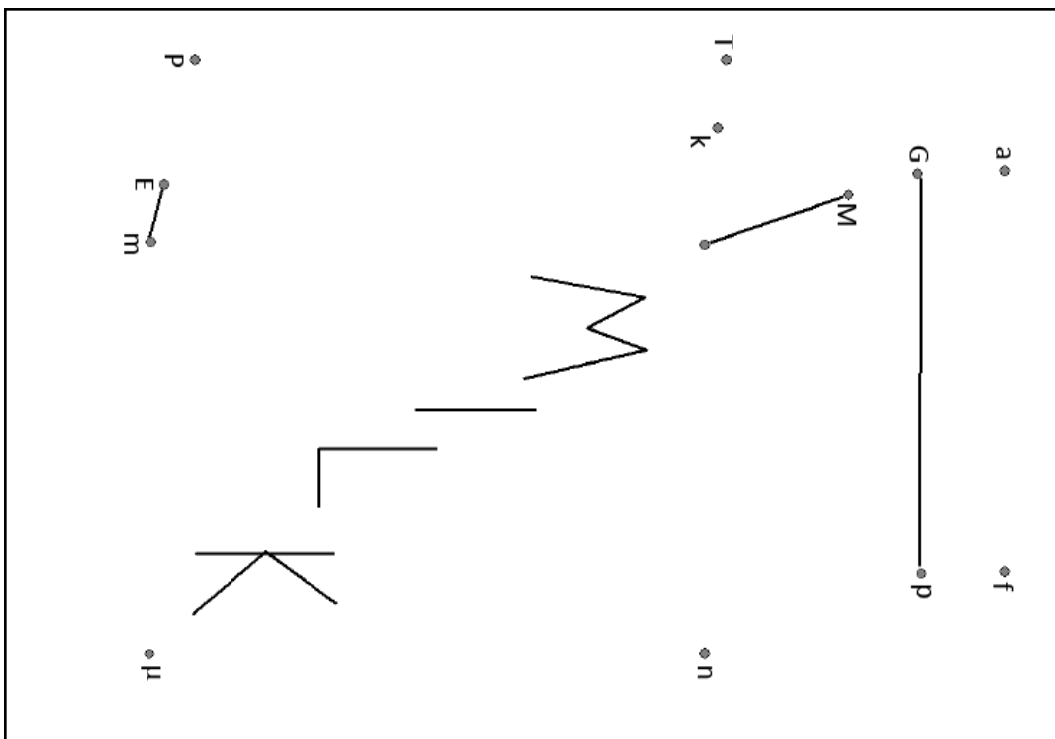
# Counting with Jersey Shore

MICHAEL NEW  
PUBLISH MY COMICS MOAR!



## Connect the Dots with Engineers

MADDY LIDDY  
NAPOLEON COMPLEX ENGINEERING



**Clues (and random facts)**

- a is the first point
- E is the last point
- As an engineer, remember your metric prefixes
- Milk is a good source of calcium and Vitamin D
- Milk could also incapacitate our Editor-in-Chief
- Camel's milk is easily digestible for the lactose intolerant population (\*cough\* EIC \*cough\*)

Have you been working for *The Iron Warrior* (IW) too long?  
WOW! That was quick...well there's nothing really left to say since you just answered my question.

THE TIN TRIBUNAL

Albert, Back from the grave

### "What is your biggest pet peeve?"



"Commas and periods go *INSIDE* the quotation marks."

Incarnation of the Devil, Grammar Goddess



"Hey Kris, what were you supposed to do?"

The "Dictator," Can you spot the 'Stache?



"ARGH! CLOSED BRACKETS!!!"

Kristopher Arthur Collins, 2A Roflmaology



"Why is there a space??!!lone"

Not "Han," Remember the "s"



"ZzZzZz...."

Ammar Masud, Sleeping Beauty



"Go away. Stop taking my photo."

The Palm, Talk to the hand

# An End to External Endeavours this Semester..



**LEAH ALLEN**  
VP EXTERNAL

We're almost there children! All we need to do is get through exams...

Also HAPPY DECEMBER. What does that mean? Leah no longer has to paint on a moustache every morning. WOOO! No more looking like a male.

Yes that's right MOVEMBER is over! So I can't actually give you final stats (because I wrote this last Friday) but as of last Friday we have raised 2,357 mulah!!

Two weekends ago we took an amazing delegation to the National Conference on Women in Engineering (NCWIE) hosted by the University of Ottawa. Apart from some slight setbacks on the way to Ottawa (ask Cam Winterink), the conference was very beneficial to the delegates

who attended, as they listened to countless speakers who told their story on how they made an impact as female engineers. For more information on NCWIE, please see the NCWIE article written by the delegates who attended the conference.

FROSH! The First Year Integration Conference is happening at the end of January and is being hosted by University of Guelph. Applications are now open! The applications will be due by Friday, December 3<sup>rd</sup> at midnight. We will be selecting four representatives each from A-Soc and B-Soc. This is a great chance to network with other first years, learn more about your EngSoc, other EngSoc's and about conferences and what they entail. If you want more information about the conference please come to the EngSoc meeting tonight (Wednesday) at 5:30pm in CPH-3607 because I am going to have a short discussion about this with the first-years after the meeting. For information

on applying please visit the first page of the EngSoc website.

Just letting you know, an amazing delegation will be representing A-soc at the Canadian Federation of Engineering Student's Conference from January 2<sup>nd</sup> - 8<sup>th</sup> in St. John's Newfoundland. Look forward to some updates from the conference that will be available from my conference report on the EngSoc website after the conference.

Guess What?! EngSoc has a special surprise for you..! Wander over to the second floor of RCH on your lunch hour TOMORROW to take a picture with SANTA and THE TOOL! Charity donations will be encouraged and will be given to a family in need throughout the holiday season.

A couple weeks ago was the Waterloo Engineering Competition. We had some great competitors and the winners of the Senior Design, Junior Design and Consulting will be moving onto the Ontario

Engineering Competition hosted by Western in February 2011. We are still looking for competitors for the Innovative Design Category for OEC. If you are interested in being an innovative design competitor, please email me for details on when you need to apply by and what you need to do to apply.

Story time. If you didn't know exec LOVE writing their exec reports in the back of POETS. But since POETS is closed, we have moved to Kickoffs! So Marc claims that he has come to Kickoffs to actually write his exec report. But is actually playing entanglement... IMPEACH!! That is all.

If you would like more information on becoming an innovative design competitor in OEC or if you have a questions in general please email me at [asoc\\_vpext@engmail.uwaterloo.ca](mailto:asoc_vpext@engmail.uwaterloo.ca)

Can't wait to see your faces in Spring!  
<3 Leah

## Upgrades and Closing Remarks!



**MARC TAN**  
VP FINANCE

So it's finally here, the end of the term. Since there is no POETS this week, we have moved our exec report writing operations to the plaza eatery KICKOFFS. Also, today is the first day that I don't have a sketchy Asian stash anymore. My report might sound like everyone else's, however that is not the truth, we completed these totally on our own with no external help.

Last week, the VPFs and Prezs from both societies went to a meeting with plant ops to see what upgrades could be done to POETS, the CnD, Novelties, and the CPH Foyer during the asbestos removal. The CnD is getting new floors which will be self financed. We are also currently pricing an air conditioning system for the CnD so that the chocolate bars don't melt on the shelves at night. Novelties is also getting a new floor!!! And as a bonus, we might get a window beside the door, since window shopping is WOAHTastic. Also, there is a chance we might be able to remove the giant bulkhead in Novel-

ties, and it'll start feeling like more of a store and less of a closet. Yay for that! Finally, POETS is getting new lighting for sure, and potentially floors based on the quote. The foyer renovations description can be found in Tim's report; it's pretty exciting stuff so you should look it up. All the pricing will be revealed and approved at council tonight. Tonight we will also be discussing the FOC radios capital purchase so you should get in on that, it will be a blast.

The last day to hand in your expense reports for the term will be Monday December 6th at 4PM, so if you are hanging out

to receipts for your events this term please hand them in ASAP. I need to eventually start studying for exams and I don't want to get bogged down with cheques.

As well, the last day of Novelties will be the last day the Orifice is open this term. So if you want to get your Christmas shopping done, check us out, we're at the back of the Orifice till it closes! Finally, thanks to my Novelties directors this term, they have done a great job selling novelties. It's been one of the best Fall sales we have had in a long time, so congrats guys.

In closing remarks, thanks everyone for a great school term.

## Critiques, WatPD and Directorships



**ERIC COUSINEAU**  
VP EDUCATION

Well it's been a great term, I've had a lot of fun, and I've certainly learned a ton (through both EngSoc and Electrical Engineering). This will be my last exec report until Spring 2011, when A-Soc returns. I will be in Waterloo for my work term so feel free to say hi if you see me over the winter. I have lots to update you guys on this time around so fasten your seatbelts! I wanted to start out by giving the short updates; Course Critiques Reading Party is happening Thursday Dec. 2<sup>nd</sup> in CPH 3607 at 4:30. I hope to see as many people as possible come out and help sort out any inappropriate comments, some of them can be quite amusing, which helps make it fun! EngSoc Exec had a feedback survey due Monday, the results will be announced at tonight's (Wednesday's) EngSoc Council Meeting. Check out the Student Relations Officer article by Meg Bauman and Robin Jardin, it should give you all the info you want to know. Nominate your TA for the SFF Teaching-Assistantship Excellence Award, you can find the form on the SFF website here: <http://www.eng.uwaterloo.ca/~sff/TeachingAwards/> or in the EngSoc Office. I wanted to remind everyone that you can get up to 150 P\*\*5 points for submitting exams with professor solutions to the exam bank. By doing this you can help future students just like students of the past have helped you by submitting exams. Just go to our website > Services > Exam Bank and you'll find everything you need.

The faculty is continuing to look into 8-month work terms, and they are going to be seeking student input through a sur-

vey. The general idea right now would be to optionally combine the 5<sup>th</sup> and 6<sup>th</sup> work-terms, while rearranging the upper year academic schedule somehow. The rationale behind this is that by having longer work term students would be able to get more technical jobs that contain more depth than most 4-month work-terms tend to be (Imagine following a project from start to finish, wow!). The survey will mainly be focused on gauging interest, not on implementation. They do realize that interest will vary widely based on what the implementation ends up being, so the questions will be tailored in a way to gauge interest with variances in implementation. Again, for the context of the survey please assume that some kind of suitable implementation is possible, and just indicate what your interest would be.

It's been an eventful week in the WatPD Engineering world, at our meeting this week we chose the successful candidate to develop WatPD Eng 21, the second core course in the new program. The committee listened to several proposal presentations on Nov. 9<sup>th</sup>, and made the final decision on Nov. 23<sup>rd</sup>. I would like to congratulate Katherine Acheson and Peter Teertstra, they submitted a very impressive proposal. The committee is very excited about this opportunity, and look forward to working with them. Katherine brings some impressive experience to table, being to the developer of the popular WatPD 6 (Problem Solving). Peter brings the engineering connection to the team, he is a long-time professor in the Mechanical Engineering Department with a background in energy transfer, and an outstanding teaching record. He is also the Director of the new Student Design Centre in E5. The committee felt that their proposal and team had several key strengths which included: team

balance (WatPD and Eng), experience teaching engineering courses, a large variety of tools introduced in the course content, and they are already strong instructors in their respective areas. Additionally, we were informed that more than 86% of people have enrolled for their Winter PD elective (90% WatPD, 10% PDEng), and PD20 has started the Q&A phase. Dr. Stublely and Dr. Pretti invited several local high school students to review one of the modules. The most notable result is that each of them said they had learned something worthwhile by the end of the 3 hour session.

The Dean's Office has approached EngSoc to gather feedback on the possibility of creating a new Alumni Mentorship Network to connect alumni with undergrad students. They have over 100 alumni interested in helping out in whatever way possible, and they want to know if students would be interested. Please email me, tell me in person, or attend the discussion at next week's EngSoc meeting to give me feedback.

Directorship applications for Spring 2011 are opening this week so I wanted to take a second to ask you to consider helping to represent engineering students, by applying to be a PD Rep, SFF Rep, or a Coop Rep. Help to provide the high quality academic services that EngSoc is known for, by applying to be a Resume Critiques, or Course Critiques Director. Help make the role of academic rep more effective, apply

to be an Academic Rep Advisor! Are you interested in running for VP Ed, interested in helping out in an initiative, or interested in starting your own academic initiative? Please apply to be an Education Assistant. Anyone can apply for these directorships, and you don't need any experience to do so. If you have any questions about any of these directorships, please don't hesitate to contact me.

I wanted to finish off by thanking all of the people that have supported me this term, and done an amazing job being an EngSoc director. Thank you Anish, Anupriya, Misakura, Yousif, Adriana, Alexa, Conan, Prashanth, Promit, Rebecca, Angela, Alroy, Griff, Kyle, Rohit, Nupur, and Anjali. I want to thank my amazing teammates, the EngSoc Executive. Thank you Tim, Leah, Sean, and Marc, without you guys EngSoc would be lost. Last but not least, I would like to thank Mary Bland, I don't know how you put up with us, but thank you. EngSoc is a million times more functional due to your guidance and hard work. I'll see you guys in the spring term, and as always please email me and let me know what's on your mind, or ask me any questions you have ([asoc\\_vpedu@engmail.uwaterloo.ca](mailto:asoc_vpedu@engmail.uwaterloo.ca)). See you next term!



# Nominate, nominate, nominate!

## I heart teachers, and so should you



**ANJALI GOPAL**  
2A NANOTECHNOLOGY

True or false: most university students are lazy, brainless idiots, who show little thanks for the knowledge they receive, have little appreciation for the teachers or mentors they have, and pour as little effort as they possibly can into their school work while still hoping to get a passing grade.

False. Incredibly false. By personal experience, I've seen students raving about fantastic professors and teaching assistants just as much as I've seen them complain about those not-so-fantastic counterparts. Nevertheless, when a professor is bad, he or she receives a chorus of whines and moans (and some of these go straight to the faculty). However, when a teaching assistant can't communicate a word to you, there are instant complaints against him or her. But when terrific professors, or teaching assistants, come along, they get ... nothing.

I know students aren't as selfish, or as spiteful, as the last two paragraphs make them out to be—which is why I'm imploring you to nominate your fantastic professors and teaching assistants for consideration in Sandford Fleming Teaching Assistant Awards, or the Center for Teaching Excellence Distinguished Teaching Awards.

Sandford Fleming Teaching Assistant awards, provided by the Sandford Flem-

ing Foundation, recognize exceptional teaching assistants in the Faculty of Engineering. Classes can nominate their best teaching assistants once a semester, and each department in engineering will select one laureate from their list of nominees. My class has been fortunate enough to receive at least half-a-dozen amazing teaching assistants over our three academic terms, and we nominated four in our first year. Plus, the nomination forms are quick and easy to fill out, and they're due before the last day of lectures. That's right—you have an entire semester to fill them out! Pick up your nomination forms either in the Orifice, at the SFF website, or in the First Year Undergraduate Office. (The teaching assistant laureates also get a nice cash prize, and an invitation to the Dean's Dinner for a free meal, to boot.)

Nominations for the Center for Teaching Excellence (CTE) Distinguished Teacher Awards (DTA) take more work to complete, but they are certainly worth the prestige. The Center for Teaching Excellence is an organization in Waterloo devoted to enriching teaching and learning. Distinguished Teaching Awards honor the very best in teaching, not just professors, but also lecturers, instructors, and any part-time or full-time faculty member who has made a lasting contribution to students. CTE Teaching Awards are among the highest teaching awards given out by the University of Waterloo. Up to four recipients are given the award yearly, and these recipients are presented annually at the University of Waterloo Senate meeting.

For a teacher to be considered for a DTA, the committee requires that a minimum of ten two-page nomination letters be in the teacher's file, with at least five of them from past and present students. DTA awards are given to teachers based on criteria such as teaching approaches, "evidence of work with colleagues to promote teaching", and awards given by other societies (including student societies such as the Engineering Society). A similar award exists for student teachers (such as teaching assistants) by the CTE, called the Amit & Meena Chakma Award for Exceptional Teaching by a Student ("AETS"). The nomination criteria for AETS are nearly as rigorous as for CTEs, but, unlike the Sandford Fleming, AETS is open to teaching assistants across any faculty.

Of course, the million-dollar-question is: why? Why would you want to nominate a dedicated and hardworking teacher for such a prestigious award? Why would you want to take out a few good hours used to round up a load of information and write a nomination letter about your professor or teaching assistant?

Because, first, the only way we can promote good teaching is by recognizing good teaching. We can sit around all day and complain about the bad teachers, but it will do us very little good. Instead, how about we try revising our approach and use a basic concept of psychology: to promote a good behavior, find a good behavior... and reward it! Many teachers and teaching assistants aren't recognized for their good teaching, which might

lead to the impression that some students don't care about good teaching.

More importantly, there are many teachers who deserve this recognition. We owe it to them. Remember that a professor does not actually 'get' anything extra by being a good professor. For most professors, salaries don't skyrocket because of good teaching ability, or by pouring hours into lesson plans or by having office hours every day. In fact, it's almost the opposite: many times, professors who have better research than teaching are ranked higher than the professors who might be a little poorer in research, but tenfold better in teaching (due to the fact that it is good research that draws in grants). Of course, it is entirely the prerogative of the professor to decide how much time to dedicate to each aspect of his or her career, but that does not mean we should not recognize and thank the outstanding teacher who has taken the time out of her busy schedule to improve the knowledge and understanding of her students.

The deadline for DTA and AETS are around February, so there's still quite a bit of time left for you to nominate a professor. And frankly, look at how much help and support students have from their faculty: we have loads of awards that recognize outstanding leadership, amazing academic achievements, exceptional community service work, and more. It is the very least we can do to recognize some of the faculty members in return. Let's show the faculty that we care as much about our education as they do.

## Why Security Cameras should be Installed Outside of the Engineering CnD



**SI JIA ZHANG**  
4A NANOTECHNOLOGY

It was a nice sunny day outside, the birds were singing, the squirrels were chirping and the students at the local engineering CnD were happily buying some food. My friend had just paid for his delicious purchases and was about to pick up his bag from the many that were lying innocently on the ground. Little did he know he had been robbed in broad daylight. Although he managed to find his empty backpack in Engineering 2, the same could not be said for his newly bought laptop.

It's because of incidents like this that the school should seriously consider setting up security cameras outside of CnD. There are many who leave their bags unattended when they go for a quick meal. Thieves can easily make a decent living by just ransacking all the bags outside the CnD. The leave-your-backpack-outside-before-you-enter rule is also enforced at the University Bookstore. However, there is a security guard at the doorway who monitors them. Unfortunately for hungry engineering students, we don't get this kind of luxury; our unlucky belongings are left outside to fend for themselves.

The following are my arguments as to why the school should install security cameras:

#1: In the event someone gets his or her bag robbed, it'd be much easier to determine when it happened and who committed the crime. Currently, there's not a single line of defense: no security guards and no cameras. We just leave our belongings outside and rely on our trust for society. Having cameras installed would make everyone feel more at ease. As well, if the thieves are caught and brought to trial, there would be video evidence of them committing the crime.

#2: The CnD is located right at the front entrance of CPH, which is deemed as the main entrance to the engineering faculty. Shouldn't we have at least some sort of safeguarding mechanism for our primary entrance? Certain schools have even installed metal detectors. Now I'm

not implying that we need to go all out on the security, but shouldn't we at least have security cameras? What if some trigger-happy maniac walked through our doors and did some damage and we couldn't even provide any type of video footage?

I understand that certain people might be opposed to such an idea; we'd be getting "big-brothered". But at what cost? Is the price of foregoing limited video surveillance and getting our bags robbed by intruders worth it? Is it justified that any malevolent intruder can walk through our front doors without ever worrying about being recorded?

Bottom line is, the school should step up and right this wrong. Show us you care UW. Take some initiative.

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

**CHAINSAW**  
Save time. Avoid traffic.

**\$2 BUCK TUESDAYS - EVERY TUESDAY**

**LIVE MUSIC TUES, WED, SAT AND KARAOKE EVERY NIGHT**

**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**

# Point Vs. Counterpoint

## Should students be given financial incentives for good performance?

POINT

COUNTERPOINT

**FARZI YUSUFALI**  
2A NANOTECHNOLOGY

**ANJALI GOPAL**  
2A NANOTECHNOLOGY

We have attended high school, beat the odds and earned good grades while doing so. In fact, we (as engineers) have been accepted to one of the most sought-after post-secondary programs in Canada. Why, then, should high school students be offered another incentive (a big one at that) other than the chance for a secure future? While this may seem like a no-brainer, some recent statistics regarding the implementation of “payment” to students to perform well suggest otherwise.

For the most part, we are “paid” with good marks whenever we perform well in school and are usually motivated by that to continue to do well in school. However, this is only the case for a select few students like ourselves; in reality, most high school students do not hold good grades in high esteem. While provincial polls indicate that dropout rates for high school students are steadily decreasing, high schools situated in “ghettoized” areas of the city would say otherwise. These students, who are poor to begin with, don’t see the value of education due to a number of factors that dictate the way of life in a ghetto community. For teenagers living in these areas, the prevailing feeling is that the system has abandoned them and they must now fend for themselves. In a world where instant gratification is by far more important than long-term goals, education takes the back seat to surviving. When it feels like you’ve been stuck somewhere where no one cares for others, the only thing you can do is make life as tolerable as possible.

While this is not hard news, these teens are subject to extreme poverty, drugs and gang violence. As a result, these teens are drawn into this world by the lure of instant gratification, usually in the form of money. When these students are given money and the opportunity for receiving more is present, these students drop out of high school as they become involved in harmful activities. As a result, while the dropout rates for all high school students has decreased, the dropout rates for students in ghettoized areas have remained the same or have increased.

In an effort to keep these teens in school and off the streets, some school boards have introduced a system where they offer small allotments of money if students do well. The goal of this introduction is to offer something for the students in school that rivals some of the rewards received when participating in less-reputable “street” activity. For every student who does exceedingly well in school, a small amount of money is given or accumulated over the course of the year. By offering students, who are otherwise living in poverty, some other incentive to stay in school and continue their education, they help provide students more opportunities to see the long-term benefits of having an education as they pass through high school.

Furthermore, with more students staying in school, there are chances that gang violence will decrease. For example, it is well known that young teens are usually exposed to this negative activity through siblings or close relatives. Spending less time at home and more time in school

ensures that their influence is less pronounced on more impressionable individuals. Research shows that the average age at which teens are drawn into drug and gang violence occurs at age fourteen. It is safe to say that at this age, not every child has the aspiration of engaging in this activity. Therefore, the only way in which these kids are drawn into this behaviour is by using the attraction of money to draw them in.

Given the poverty that these children experience on a daily basis, the attraction of money is all the more potent due to the fact that it’s something that these families usually don’t have, but aspire to possess. With the hopes of making their lives a little bit easier or a little bit more enjoyable, teens, coupled with the predisposed desire for money at this age, will usually jump at the opportunity to receive some. The only issue with this is that the easiest way for them to obtain money is through harmful activities prevalent in ghettoized regions.

To combat the overwhelming influence of gang and drug activity in these ghettos, the school boards have introduced this system in the hopes of combating the growing epidemic of young dropouts by using what motivates these young students to drop out in the first place. By providing a small amount of the same attraction that lures young teens to join gangs, it is almost guaranteed that a smaller percentage of students will participate in gang activity. Furthermore, by offering a form of satisfaction that is more instantaneous (ever liked the feeling of finding money in your pocket?) when the students achieve good results on tests and exams, some of the students will finally realize their own potential. In an environment where society has given up on you, discovering that you have the ability to make something of yourself without anyone’s help could be the best encouragement they could receive to continue to do well.

When rebutting this argument, to say that students in good financial standing don’t receive similar incentives for doing well isn’t necessarily true; students that are better off may receive more freedom, an increase in allowance or even permission to take the family car out as incentives. In poor families where these incentives aren’t there, where are these kids supposed to get their encouragement from? In this way, the school system has stepped in to provide the encouragement students need to excel on their own. Rather than viewing this as a feeble attempt to increase the academic standing of students, think of it as a way to indirectly keep students in school and away from street violence. Knowing that this system is implemented in schools where gang violence and drug abuse is an epidemic and poverty is everywhere in the area, maybe it isn’t such a bad idea that schools give these targeted teens something more to protect them in a way that their families can’t.

High school dropouts will supposedly be a thing of the past with the Toronto District School Board’s (TDSB) newest brilliant idea of paying students to show up to class. The idea does have precedent, though. In some states in the US, students can get a fat cheque for anything from perfect attendance to scoring well on tests. However, the TDSB only hopes to implement this cash reward in poorer areas of Toronto, as a way to “battle poverty.”

When I heard about this, I immediately recoiled from the idea. However, before I go off on a rant about why this is philosophically and ethically just plain wrong, let’s look at the basic idea behind this whole scheme.

The premise is “encouraging a good behavior by rewarding it,” and the easiest reward should be money, right? The simplest reason a student can receive money is for good attendance. Schools in the US that have implemented the system offer students up to \$50 for perfect attendance.

Such systems may not only be highly ineffective, but also highly dangerous. Suppose that a student misses one day of school due to illness, or an extenuating circumstance. There goes the reward. In fact, schools in the US that have done this have found that the mechanism actually backfired, especially in poorer areas, because of accounts where children from poorer families were beaten by their parents because these children failed to acquire their due reward. For children, and for “on the brink” families, \$50 is quite a lot—the same incentive behind the reward may ultimately be a child’s downfall.

The other option is to reward students for their good performance. However, you and I both know that there’s a lot more to ‘performance’ than just hard work. Remember those grade twelve days when suddenly every university-bound student at your school was a keener who was itching to get that extra five percent in any way possible (regardless of whether or not the student was actually interested in the material being taught)? Do we really want to unleash the same environment to students from grade nine and onwards? What the enthusiasts for the money-system are overlooking is that marks aren’t always indicative of deeper learning. Perhaps the first ten percent might be true—that is, going from a 40% to a 50% might mean you learned something. However, when a system to reward marks with money is installed, students might resort to other methods of getting easy marks—including cheating. What students are going to learn from such a system is that it doesn’t matter how much you know. It only matters how well you do.

Moreover, isn’t such a scheme only teaching students a love of money, not a love of school? Students aren’t being taught to love knowledge and education for knowledge’s sake—instead, education is being used as a conduit for money. What is to stop a student from realizing that although she could be getting \$50 a term

for perfect attendance, she could be making ten times that much money by dropping out and getting a job? And frankly, in schools, students should realize the value of knowledge for its own worth. We might be going to school to get a better career but we also need to remember that education leads to a better quality of life because it’s education. Education and knowledge are cures for a variety of circumstances, including ignorance (the reason why subjects like social studies and history were mandatory in high school), better health (why you had Physical Education every week), and better communication skills (doing horribly in the Language Arts does not make the subject any less important). Getting a better paying job is definitely a bonus, but it should not be the primary motivation behind getting an education.

Besides, by paying students to do well, we may actually be discouraging students from doing their best to only doing the bare minimum to get a passing grade, or a mediocre mark. Are we really striving to nurture visionaries and inspire creative thought—the two factors that should be academia’s number one priority—by providing money for school?

And frankly, it’s a bit surprising to hear that school boards have their coffers full of free money they can hand out to students. Most school boards are suffering due to their lack of funding. Class sizes are bulging. Many elementary schools have over 30 kids per class. Many school boards can’t hire enough teachers, don’t have budgets to promote many after-school programs, and can’t get enough funding to replace decades-old books in libraries. Instead of paying a school of one thousand students \$50 each, why not use that money to hire more teachers and staff members so that students receive better one-on-one attention? Why not use the money to increase school field trips to actively engage students in their learning? Money can be used for a wide variety of options, such as purchasing more musical instruments, increasing the number of working computers in schools, and even setting up programs like before-school breakfast programs for poorer students. Directing money into projects such as these will promote the idea that school is a safe, nurturing, and a fun place to learn.

None of this is considering the impact that the money gimmick will have on post-secondary education. What will students do once they realize that after being paid their entire life to go to school, they suddenly have to shell out twenty grand to get educated?

It might be simplistic to think that ‘students should go to class because they realize the value of an education.’ It is true that not all students might necessarily know or understand this value, especially not students who come from poorer areas. However, offering money for going to school is not the solution. Offering money does not help students understand the value of school; it only increases their appreciation for instant gratification. School should not be treated like a job or an ATM machine.

And frankly, there are plenty of children across the world in impoverished countries who would love to go to school, but don’t have the money. And now we’re considering offering children who have the right to an education money to acquire this education? Canada might have 99 first-world problems, but spoon-feeding education should not be one of them.

**Editor’s Note:**

*Point Vs. Counterpoint* is a feature meant to stimulate discussion on thought-provoking topics. The views and opinions expressed here do not necessarily reflect those of the authors, *The Iron Warrior*, or the Engineering Society.

# From the Iron Archives

## Senate, Voting, Business Tips, Building the Student Life Centre



**AMRITA  
YASIN**  
4A CHEMICAL

### Fall 2005, November 30<sup>th</sup>

This was the easiest article to revisit for The Iron Archives. Dan Arnott, Environmental, wrote an article titled “Senate Ignores Engineers, Steals Study Days.” According to this article, on November 23<sup>rd</sup> 2005, a full Reading Week was approved for Engineering undergraduate students, albeit the resistance by the Dean and senators. The proponents disfavoured a Reading Week at the expense of more study days before the exam period, as engineering exams tend to be clumped together and more days off right before the exam period were really beneficial.

The then Engineering Senator, John Fishbeing, solicited student opinion on this topic. Opinions were split evenly, and in absence of opinions in favour of a reading week, the engineering representatives in the Senate argued against the establishment of a reading week. Their opinions were, however, ignored in the Senate, which did not give any valid argument for approving the reading week for Engineering. Fishbeing later said, “... the issue that the student voice had no bearing on the decision is much more important as it exposes a massive flaw in how decisions are made in university governance.”

The issue that this occurrence brought forward was of Senate ignoring the students’ voice while making decisions. This questions the purpose of the establishment of positions by the Administration such as student senators which were in effect to represent the wishes of the students. It also put in jeopardy the faith the student body had in the Senate.

Arnott ended the article by saying that the final decision in a university that affects the students should be based on student wishes

and failure to do so could affect the proper functioning of UW.

### Fall 2000, November 17<sup>th</sup>

A PCP on “Does your vote really matter?” was written, where Maria Simoes and Sung Hon-Wu argued the point and counter point respectively.

Simoes based her arguments on four premises: 1) You have a right to vote, 2) You have a responsibility to vote, 3) You can make a difference, and 4) If you don’t vote, you have no right to complain about how the country/province/city/etc. is run.

According to Simoes, the right to vote was “one of the fundamental freedoms that keeps one from becoming a slave in one’s country” as this right had been fought for. With the right comes the responsibility to vote too. Simoes presented the example that if everyone decided not to vote thinking that it wouldn’t matter, it would eventually make a big difference for the worse.

Simoes argued that a difference could be made by people choosing representatives who hold the same opinions as themselves, and that those who didn’t vote had no right to complain over the activities of the political party in action because they didn’t bother to vote for people who shared their opinions.

On the other hand Hon-Wu started his writing by saying that American President influences Canadian life more than the Canadian Prime Minister does. Hon-Wu presented the phenomenon of brain drain to account for people who would not be affected by the results of the Canadian election. Moreover, the things of value to Canadians were outside the influence of Canadian Prime Minister and the Government, such as the value of Canadian loonie, which was controlled by the Bank of Canada and traders, and health care, which was under the provincial governments.

Hon-Wu further said that the Canadian political system was undemocratic because Canadians did not vote for a person to become the Prime Minister, but rather, the

leader of the party winning the most seats in local area won the seat of the Prime Minister. This was undemocratic in Hon-Wu’s opinion as the voice of the people who voted for the losing party was completely ignored. Also, the predictions made by the polls tell beforehand which party is likely to win, so why even bother voting for the losing party?

### Fall 1995, December 1<sup>st</sup>

S. Kingsley Jones wrote an article on “Thoughts About Employment Equity,” presenting some tips that a starting business even today can use. The article started with a few questions to establish that the purpose of business is to make profit – profit was maximized by having the best people – the best people were those who maximized profits and the best culture was what gets the best out of the employees and was characterized by variety, simulation and different modes of thought.

The author then asked the reader to imagine him/herself as the starter of a company. I was inspired by the author’s statement, “The biggest weakness you have is yourself. By definition you know what YOU are thinking, but you don’t know what you are NOT thinking.” And to prevent this from becoming a weakness of the entire company and to get a variety of opinions, diversity is the key. Diversity in a company should encompass many parameters, such as age, experience, cultural background, expertise etc.

The article also emphasized that since 50% of the North American population was female, 50% of the customers were going to be females and in order to understand this proportion of the market it would be necessary to have females in the workforce.

The author ended the article by saying that equity legislation would die out soon and only the best companies with a diverse set of workforce will survive in the ruthless game of business.

### Fall 1990, November 16<sup>th</sup>

This issue contained an article by Derek Van Dalen and Rana Banik, Engineering

Representatives on the Student Council. They wrote a detailed article on the proposed plan for the Student Life Centre (SLC) which was divided into three different schemes; the implementation of the most basic scheme was put to a student referendum to be held a week later, while the implementation of the other schemes was contingent on external funding. The project was to be funded by an increase of \$40 in student fees.

In the same issue, Chris Fleck and Michael Naryan wrote about some questions that students should consider before casting their vote.

Firstly, the lack of student input at the initial stages of the development of the project was a fundamental flaw in this project. According to the authors, the project lacked a specific objective as it wasn’t clear if SLC was supposed to be an extension to PAC or a place for students across campus to socialize. If this building was meant to be an extension to PAC, which was mostly used by Varsity teams, why should all students be made pay towards its construction?

The SLC was also planned to include 5000 ft<sup>2</sup> of retail space. The high cost of space would increase the cost of establishing a business there which would decrease the likelihood of cheap student oriented services.

The authors pointed other flaws, such as only one architectural firm was consulted, a competition was not held and other alternatives weren’t examined.

Moreover, the administration agreed to provide \$3 million in funding over three years, which didn’t seem to be much. Also there was no indication that other sources of funding, such as alumni and government, were explored.

The authors ended the article by saying that it was worthy for the student government to take more time to look into alternative funding sources or this might become an “uncontrollable financial burden on the student body.”

## Future of Gaming: End of the Year & New Beginnings



**JON  
MARTIN**  
OBI JON1138

Wow, hard to believe another term is almost over – got to start on that work report again. This year has seen a lot of new developments in gaming; at the forefront are new peripherals to enhance the experience of the core consoles as well as extending their lifespans and forestalling the arrival of the next generation. Now another entry into the gaming market has come to my attention, the OnLive Game Service – linking PC, Mac, and console-like gaming. Other big news is the new release date for Grand Turismo 5, which quite possibly holds the record for the longest development and most delays in history.

First, about the existing systems, the latest sales numbers have been released for this year, with Xbox 360 coming out in the lead, followed by the Playstation 3 and the Wii. Of course, the next few months are the largest generators for sales with Christmas and New Year’s sales. Nintendo has released sales numbers in the past (I don’t have a source :) ) showing that over one third of their yearly sales are generated in November and December, so they have their work cut out for them this season.

Microsoft has seen great success with the Kinect – while some people hate it,

others absolutely love it. Sales in the first week surpassed 1 million units, which is definitely a great success for Microsoft. Of course the system has already been hacked, allowing for use on a PC for internet navigation and photo resizing (the obligatory nod towards Minority Report). My favourite hack so far is one that tracks a fake lightsaber and automatically adds the lightsaber blade effect on screen. Kinect looks like it will have some very interesting games, as well as the potential in the future for hybrid Kinect and controller gaming.

Sony has also been successful with the Playstation Move controller, selling 1.4 million units in the first month. Interestingly, no one has made as much of a deal about having the controller slipping out of your hand as they did when the Wii was released. Maybe they include a better wrist strap than Nintendo did initially.

Nintendo has also started releasing remotes with the WiiMotion Plus built in rather than as a separate attachment. Of course, the big thing from Nintendo right now is the 3DS, which will deliver 3D gaming in a handheld device without the need for glasses – hopefully the price doesn’t kill this amazing technology.

So, on to that new gaming system I mentioned earlier. OnLive is a game streaming system similar to Steam and Direct2Drive, except with no installs. Instead, it uses a cloud-computing system to host the games at high speed

over the internet. What this means for PC and Mac users is that many games will be able to run through the system on a computer well below the minimum technical specifications for installation. Anyone who has read this column knows how much I hate upgrading a computer because of the newest game releases – that above all is what made me switch to console gaming. The OnLive system uses an in-browser installation to link you to the system, where you then set up an account and purchase games. Games are handled through ‘Playpasses’ which can be purchased in 3 day, 5 day or full versions. Obviously catering to the rental crowd, the 3 and 5 day Playpasses allow full access from the time of purchase to the stated deadline. The full version allows full access for as long as the game is on the system (this is stated as ideally being for as long as people are playing the game, but at least three years after release in the worst case). OnLive is now offering to bridge the gap between PC/Mac gaming and console gaming with their MicroConsole. This new system is approximately the size of a portable hard drive, connecting to your TV and the internet to access the OnLive server. The MicroConsole allows the same instant access to gaming, accessing your same account and all the games you have purchased. Just like a console, the system uses a gamepad controller for gaming – making this a great way to have a cheap console as well as PC gaming. OnLive is

currently offering a pre-order deal, \$99 for the MicroConsole and a controller, with the system being released on December 2.

The thing that I am questioning about this OnLive system is the way that saved games and DRM are going to be handled. Ubisoft received a huge backlash with their system that stores gamers saved game files on the server, meaning no access or saving when the server is down. For playing on a PC/Mac, the save files could be stored on your computer, but what about the MicroConsole? The fact that the same games are playable between PC/Mac and the console makes me think the saved file must be stored on the server, otherwise switching systems would not carry over your progress in the game. As for DRM, I think I will always prefer to have a physical disk in my hand (or flash drives if we eventually get to that) rather than counting on an account on some server to remember that I did in fact purchase that game. At least with download and install systems, the servers are only really there in case you need to re-download or forget what your activation code is. I will definitely be looking into this system when it comes out, so stay tuned (I know you can’t tune a newspaper, but you get what I mean).

That is it for this issue, and for this term. Good luck on exams, and have a safe and fun holiday (don’t punch anyone in the face playing Kinect, or throw the Move across the room and destroy your TV). As always, Keep on Gaming.

## On Your Plate

### UW Food Bank



**ALISON  
LEE**  
2A NANOTECHNOLOGY

Now that the term is winding down, you might be trying to eat up what's left in your kitchen so you don't have to empty the fridge on move-out day. Maybe it's that giant bag of rice you thought you'd finish or that box of frozen food that was on sale at Costco. If you're in that situation, consider yourself lucky. For some students, the ending of the term means draining the last few cents out of the bank account and in some cases there is not enough left for food. In most cases, however, this problem occurs throughout the year.

We all know that tuition is high, and student hunger is one of those issues that goes very easily unnoticed. Unfortunately, the fact that we have a food bank on campus also goes unnoticed. I certainly didn't know about it until getting lost looking for the frosh leader lounge, and apparently I'm not the only one. Unassumingly located in the SLC 2108, about 200 volunteers keep the UW FEDS Food Bank open from 8:30am-8:30pm on weekdays every term. You might think that the end of term is when the most students know about it and use it the most, but it's actually at the beginning of term when the Food Bank gets the most visits. After that, traffic is fairly constant. It serves 50-60 students per term, but would definitely be able to serve more. All you need is a valid WATCard to get up to 10 lb of food per visit. To donate, there are boxes in DC, in most UW residences, and at the Food Bank in the SLC.

The UW FEDS Food Bank is a FEDS service that partners with the Waterloo Region Food Bank. It receives FEDS funding for a couple of events, but, like any

food bank, relies a lot on public donations. Through efforts like Halloween for Hunger, the food bank collects non-perishables from the community. If there isn't enough stock, the Waterloo Region Food Bank fills the rest of the shelves and if the UW FEDS Food Bank has overstock, it gets donated back to Waterloo Region. More recently, the Food Bank has been trying to collaborate with clubs and student society events to tie in fundraising with tickets sales. This would not only raise money, but also awareness.

The truth is that not enough people know about the Food Bank, whether to use, donate, or volunteer. With a coordination team of student volunteers who won't be here forever, they're always looking for students to come forward with strong leadership and innovative ideas to strengthen the Food Bank's campus presence. After December 3<sup>rd</sup>, volunteers will keep it open as much as possible, but there won't be regular hours. Half of the battle of exams is having time to get out of the house when you're not writing an exam, but a walk to the SLC after a library session to make a quick donation wouldn't hurt.

So if you've got non-perishables lying around in your kitchen, instead of gorging on pasta with canned veggies or Chunky chili for 7 days straight, drop it off at the Food Bank in the SLC. Grocery stores may be starting their own food drives towards Christmas; take the hint and grab a few items off the shelf for those less fortunate right here at UW. Especially in the winter, students pinched for time, who don't have a car to drive to groceries, might need the food bank to hold them over until there's time to travel and stock up affordably. So while you're trying to remember pages of equations, don't forget about those less fortunate than you this season and take a study break to demonstrate some generosity.

## Very Superstitious

**MATT LAVRISA**  
1A NANOTECHNOLOGY

We're all acquainted with the concept of superstitions, but how reliable are they, and where do they come from? Generally speaking, superstitions are just a way of associating one thing with another, often without any rational connection. A widespread superstition says it's bad luck if one's path is crossed by a black cat. This likely originated from the association people used to make between black cats and witches. Not surprisingly, there have been no correlations found to date between luck and cats of any colour.

Sometimes, however, superstitions are backed by truth. A good example of this is the well-known adage, "red sky in the morning, sailor's warning; red sky at night, sailor's delight." This was a phenomenon noticed in ancient times, not by sailors but by shepherds. It is more than just a belief, however, since the saying actually holds true more often than not, though only north of the tropics, where the prevailing winds are generally westerly. As sunlight enters our atmosphere, the shorter wavelengths of the visible spectrum are scattered more than the longer, redder wavelengths. So when the sun is low in the sky, only the red light makes it through much of the atmosphere. If there are clouds in the morning, when the sun is in the east, they will reflect this red light. It is these clouds that are expected to pass overhead later in the day. In the evening, it is the opposite: if the red light is reflected back by clouds, it is off of clouds which have already passed by.

You may think making these connections – whether they are meaningful or not – is unique to human behaviour. This is however, not the case. B.F. Skinner did an experiment where he tested pigeons for similar behaviour and found that they did indeed have superstitions of their own.

The pigeons were placed in an enclosure which contained a food tube. They would go about their daily business, and at random intervals, the tube would produce a reward. Whatever the pigeon had been doing at the time the food was dropped, it would do some more of. If it had been hopping at the time, it would start to hop around like mad in hopes that this would coax some more food out of the tube. Each time the food came out of the tube, it was more likely to be doing that same action, further reinforcing the superstition. Soon enough Skinner had several head-bobbing, ground-pecking, dancing, and – most importantly – superstitious pigeons.

This experiment has been used to explain superstition in humans, as there are several parallels. By our nature, we as humans are very good at detecting patterns and relationships, but sometimes we take it too far. Remember when you were in elementary school, playing Pokémon on your game-boy, and you threw out a Pokéball? Everyone who did that would start smashing the A button, because it was supposed to make it more likely for the Pokémon to be caught. There was in fact no relationship between the button A and whether or not you could add the creature to your party. But this didn't stop A buttons from around the world from getting worn out before all the others. In fact, it has been shown that when such a superstition is acted upon and the desired result is not achieved, a person will only become more determined to succeed. In other words, the superstition is reinforced regardless of the outcome.

Most people have such irrational beliefs; it's just our brain doing what it does best: looking for underlying connections, looking deeper into reality, and maybe making some up as it goes along. As for those who deny having any, I'm sure it's just because they are embarrassed to admit that; like Calvin, they too have a pair of lucky rock-ship underpants.

## Review based on the Trailer: Your December Preview Bonanza!



**JON  
RADICE**  
4A CHEMICAL

Ah, December. Too many movies, only one issue to go on about it in *The Iron Warrior*. And unlike the begging of the summer blockbuster season, there are actually a few movies that are worthwhile. Fellow readers, I wouldn't want you to stumble into the theatres for a whole month relying on your own whim or (gasp) other critics' opinions. I'll lay out everything you need to know about this winter, with a handful of movies that look good, ones that are on the fence and others that look like pure garbage. So let's dive right in there.

**Worth Watching** – I have three for you if you feel the need to escape exam-time pressure and enjoy a very good movie. Two of them have Jeff Bridges starring in them. One of them has the power of Evan Macgregor and Jim Carey behind it.

Two of these movies are on the tops of most critics anticipated lists. Back when people were still ravenously pumping quarters into Donkey Kong, Disney put

out a little movie called *Tron* that blew a fair number of people's minds regarding what people can do with computer graphics. 28 years later, the movie finally gets a sequel, featuring Bridges and Bruce Boxleitner reprising their characters from the first movie. Fast action, computer generated bike chases, and a slick soundtrack (by Daft Punk, no less) make *Tron Legacy* one that would be worth your time on December 17<sup>th</sup>.

*True Grit* is a remake of a John Wayne western shot by the Coen brothers and has a pretty beefy cast that includes Matt Damon, Josh Brolin, and, of course, Jeff Bridges. The trailers show a much more action-heavy affair compared to *No Country For Old Men*, and the true western vibe really pays off for those who are in to westerns. Horseback gunfights, kidnappings, and one-liners from a guy in an eye patch. Not a bad way to spend a blustery late-December day. *True Grit* comes out on the 22<sup>nd</sup>.

Now, this movie isn't the sure-bet of the previous two. However, after watching a trailer, there is no denying the charm behind *I Love You Phillip Morris*. The story of a conman who falls in love with another man in prison, it's Jim

Carey in a role that's somewhere between *Liar Liar* and *The Truman Show*. The movie actually looks funny, which is a tall order for a movie that has to dance around a subject that is as "in-your-face" (and it is a shame that it still is) as homosexuality. The only thing that worries me is the possibility that executive meddling (this movie was released in Europe in the summer), may cause this movie to lose its quirk in order to risk offending anyone. This one comes out on the 3<sup>rd</sup>.

**On the Fence** – Sometimes the trailer ruins a movie I was otherwise looking forward to. Point in case, *The Fighter*, starring Mark Walberg and Christian Bale, took what I thought was going to be the Irish *Raging Bull* and made it into a Dennis-Quaid-in-the-Rookie style tale of getting your late break. While Walberg is hit or miss, Bale is slightly more consistent in better movies. But there have already been movies about the latecomer getting his last chance. It feels tired. But it could surprise. This one is coming to you December 10<sup>th</sup>.

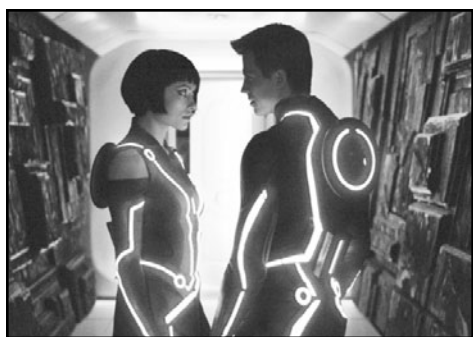
**Garbage Heap** – Of course with good movies, there will always be bad. At least this bad is evident from the get go. No

hidden crap in what looks like a diamond this time around. Yogi bear is a good place to start. Last year had that Squeakal, next year has Smurfs, and this year has the same CGI bullshit of an old TV show. Nothing from the trailer looked funny or even fun for a kid. Dan Akroyd's Yogi

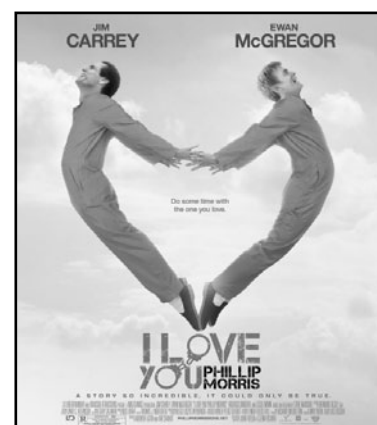
is abysmal. The only slight highlight is Justin Timberlake playing Boo-boo, because he obviously has some debts that he needs to repay for being in *Social Network*. And in the grand scheme of Saturday Morning Cartoons, Yogi was not even close to the cream of the crop. Wake me up when they make a Wacky Racers movie.

This movie will have to contend with *True Grit* on the 22<sup>nd</sup>.

Speaking of crappy movies that come out on the 22<sup>nd</sup>, this one didn't have a chance of being good. *Little Fockers*, third movie in the "How long can we stretch out the hilarity that his last name sounds like fuck" horrible Ben Stiller / Robert De Niro comedy promises to be more of the same, and that same was worn out when the second movie came out. Watching the trailer is painful and unsettling. The jokes look old and tired, and nobody in their right mind would want to see this.



infotoxin.net



collider.com

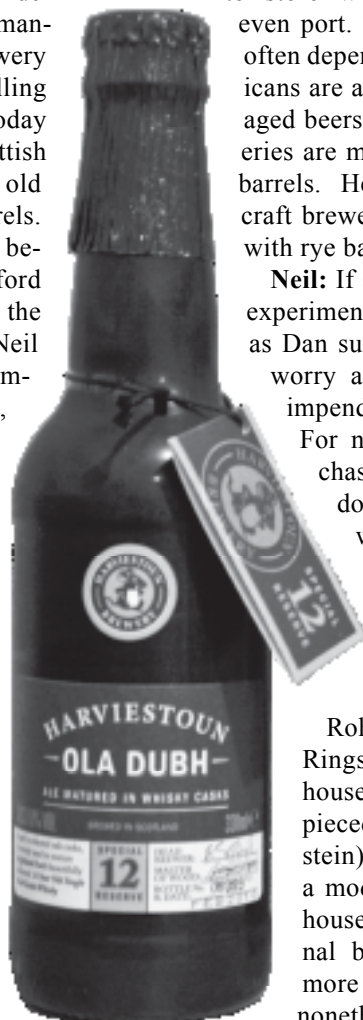
## The Brew Man Group - Ola Dubh



**DAN ARMSTRONG**  
4A MECHANICAL  
**NEIL PARTRIDGE**  
4A CHEMICAL

The last issue of the term? Already? It's a sad state of affairs, but we have one more beer-y treat to bring to the refined palates of our wise readers. And don't worry, unlike our previous beer selection, this one is indeed available at the LCBO. Despite the Big Brother's tendency for monotony, we have managed to find a style and brewery we have not yet covered. Filling Dan and Neil's glasses today is Ola Dubh from the Scottish brewery Harviestoun, an old ale aged in whiskey barrels. Sound expensive? That's because it is. In order to afford this beer, Dan settled for the base model Fleshlight and Neil sold half his Sailor Moon comics. So please, dear readers, recognize the sacrifices that must sometimes be made in the name of good brews.

**Dan:** An Old Ale, as the name partially implies, is a dark, fruity, complex beer of English decent that has been left to age in some sort of fermentation vessel for an extended period of time. Old ales can vary quite a bit, with colour ranging from ruby red to near black and strength lying somewhere between 4% and 12% ABV. A strong dark ale can be a very tasty beast on its own, using various crystal malts to obtain rich sweet flavours. By aging the beer in a barrel or cask, it can take on some acidic notes from wild yeast strains, or can pick



up flavours from the vessel itself.

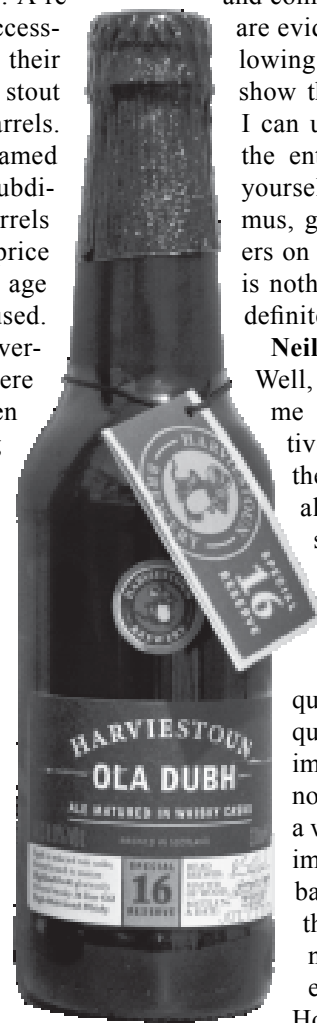
Ola Dubh matures in no ordinary cask. This ale is aged in whiskey barrels obtained from the Highland Park distillery, resulting in a beer that features the peaty, smokey flavours common to their line of scotches. Aging beers in oak barrels has been common practice for several decades (we have the brew-gods over in Belgium to thank for this), but in recent years, there has been increased demand for beers aged in barrels previously used to store whiskey, and sometimes even port. The type of barrel used often depends on the region. Americans are all about bourbon barrel-aged beers whereas Scottish breweries are more likely to use scotch barrels. Here's hoping Canadian craft breweries start to experiment with rye barrels.

**Neil:** If Canadian brewers begin experimenting with rye-aged beer as Dan suggests, we may have to worry about pushing back our impending graduation date! For now, an occasional purchase from Harviestoun will do just fine. The brewery was founded by Ken Brooker in 1984 within the picturesque Dollar Glen, Scotland (F\*\*\*, it's beautiful!

Visualize the Plains of Rohan from the Lord of the Rings). Originally the brew house was constructed with pieced together (Frankenstein) equipment, housed in a modest 200 year old farmhouse.... I speculate the original brews might have been more than a little horsey, but nonetheless the locals seemed to like it well enough to allow a brewhouse upgrade within five years. In 2003, Harviestoun won CAMRA's Beer of Britain Award for their zesty blonde ale "Bitter and Twisted," effec-

tively throwing them in the spotlight and skyrocketing growth. Today, Caldonian Brewery owns the much larger Harviestoun Brewery, but has thankfully maintained the brand with only slight improvements to marketing (namely the suave website and labels). A recent, novel, and very successful project is barrel-aging their "Old Engine Oil" imperial stout in single-malt whiskey barrels. These beers were renamed "Ola Dubh," and further subdivided by the age of the barrels used. Consequently, the price varies according to the age of the whiskey barrels used. For example, the 12 year version that I reviewed is a mere \$5.95/330mL bottle when compared to the whopping \$18.95/330mL bottle for the 40-year version (which neither Dan nor I can afford). For those of you with deep pockets, you may taste something quite spectacular and unique in the 40-year Ola Dubh that Dan and I sadly passed up.

**Dan's thoughts on Ola Dubh 16:** 'Ola Dubh,' Gaelic for 'Black Oil,' is a pretty appropriate name for a beer of this colour, showing off an opaque, ruby-tinged black body. A fairly aggressive pour yields a one-inch frothy head that would look equally fitting on top of a chocolate milkshake. Funny enough, the most prominent aroma is that of milk chocolate, but there's also vanilla, oak, and just a touch of smokey peat. Surprisingly, the fruitiness I'd expect in the style is more or less absent. The smokey scotch flavours show up much more in the flavour, revealing themselves after an initial chocolate and



caramel sweetness, then melding with a dry, earthy hop finish. The mouthfeel of this one is actually not as thick as the name would imply, but that might be for the best.

Overall, the Ola Dubh 16 is a delicious and complex beer. The scotch flavours are evident but not overpowering, allowing the smooth malt flavours to show through. Given the price tags, I can understand not wanting to try the entire Ola Dubh line-up. Treat yourself to one of these, and for Ex-mus, grab one for the scotch drinkers on your list who still thinks beer is nothing but yellow fizz. This will definitely change their minds. [4/5]

**Neil's thoughts on Ola Dubh 12:**

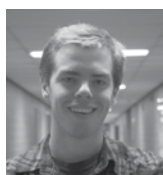
Well, my impending debt has lead me to pick the cheaper alternative of the bunch, so I suppose there's some bias to my review already... Nonetheless, I will stay as objective as possible as I consume some five dollar joy. On first pour, this beer asserts its imperial nature: black and viscous with a quick whiff demonstrates some impressive complexity, burnt notes co-mingled with peat and a warm background. Indeed, I'm impressed so far... My first sip backs up the nose; this beer is the real deal. The stout component is very well done, almost exactly what I would want.

However the highlight is most certainly the kicker, an oak background and gentle warming balances and complements the burnt malt. Whiskey the Great lives on in a new form, and one thing is for certain, selling half my cherished Sailor Moon collection was justified, maybe... [4.5/5]

Recommended for consumption if you enjoy: Scotch whiskey, Barley wines, Strong stouts.

*Pros to hops // Dan and Neil*

## The Leafs of 2009-10 – Abysmal, or Mediocre?



**SPENSER GOOD**  
1A MECHANICAL

The Toronto media has a tendency to hop on and off the Leafs bandwagon at the slightest hint of either success or mediocrity. A disappointing game can lead to a chorus of boos and screams for change, and an exciting win leads to a wave of euphoria and optimism. I try to resist basing my thoughts and feeling for our beloved Leafs on their last couple of games. However, now that the NHL season is no longer so young, with around 23 games played on average, I can begin to make a strong estimate on how good or, more reasonably, how bad, the Leafs of 2010 really are. Beyond that, I can also make some recommendations on how they could become a better hockey team.

In today's watered-down NHL of thirty teams, the difference between making the playoffs or not is a thin line separating the mediocre teams in 7<sup>th</sup> and 8<sup>th</sup> and the abysmal teams in 9<sup>th</sup>, 10<sup>th</sup> and so on. So the first question that the Toronto management has to ask is: are we mediocre or are we abysmal? It is sad that such a storied franchise with such highly touted management is reduced to this, but it is the reality of this team. And if Brian Burke asks himself this question,

and his honest conclusion is that they are abysmal, then if he values his own job he had better find a way to make them mediocre, and fast.

I guess he could start by breaking this team down into smaller sections that are easier to analyze, and determining how good or bad each section is compared to the rest of the league. And that is exactly what I am going to do, and if based upon the twenty-two games played so far the chosen section is not rated at least mediocre, I will recommend a possible solution.

First, I am going to look at coaching because the lack of quality is so painfully obvious and the remedy so blatant. I have yet to hear a sound argument as to why Ron Wilson is still coaching this team. He has a combined winning percentage of only 39% over his two seasons here, with his team finishing in 13<sup>th</sup> his first season, 14<sup>th</sup> his second season, and on pace to finish 11<sup>th</sup> this season. Wilson was hired partially because of his acclaimed proficiency at coaching special teams, yet the Leafs have gone two years running with the worst PP and PK in the league and are still ranked in the bottom half of the league in both of these categories this season. I could flaunt more awful statistics, but one of the most painful effects felt by Wilson's arrogance is the performance of Tomas Kaberle, who has slipped from a premier NHL defenseman to a defensive liability. Wilson sucks,

and I rank his coaching performance as abysmal, and it is time to kick him out of Toronto and hire a new coach. I personally recommend Dallas Eakins, who has done an outstanding job of running the Toronto Marlies for the last couple of years.

Toronto currently sits in 27<sup>th</sup> in goals per game, which brings me to their offensive capacity. This team has some offensive depth, and with Phil Kessel, Mikhael Grabovski, Kris Versteeg and Clarke MacArthur all capable of netting 30 goals, they should be better. I am sure a lot of this can be blamed on Wilson's pathetic coaching strategy, but there are some other remedies for an offense I currently rate at less than mediocre, but not abysmal. Kessel has been bad over the last ten games, and although I have criticized him in the past, he could be a much better scorer if he had another forward who could skate with him. The number one name that is being circulated amongst fans and pundits is Brad Richards, who could be shipped off by a Dallas franchise in an awkward ownership position. They are looking for a steady defenseman in exchange for Richards and many say Kaberle could be that guy. I would make that trade in a heartbeat, and would love to see Burke pull it off.

Fortunately, there is a relative bright spot for this Leafs team, and that is on defense. They rank 11<sup>th</sup> in goals against per game, and although that may not be

among the leagues' best, a statistic that is better than 15<sup>th</sup> in the league for this team is worth noting. A solid, if not stupendous, showing from Luke Schenn accompanied by improvements in play from Francois Beauchemin and even Mike Komisarek (minus his awful giveaway in Montreal on the 20<sup>th</sup> of November) has given this team a decent and reliable back end. Giguere and Gustavsson have also provided a reliable goaltending tandem. If Kaberle could get back on his game the Leafs' defense could be their saving grace and maybe even earn them a coveted playoff berth.

At the quarter mark of this season, the Leafs performance thus far has been predictably bad, but I really think that some quick fixes could put this team back on track. If Burke fires Wilson and picks up a top line forward, I think the Leafs could jump into a play-off spot. However, if Burke cannot gather the courage to fire his old friend Wilson and fails to make an impact move this team will continue their tradition of losing and will to make the playoffs. Burke needs to realize that Toronto is no Anaheim, and failure will not be welcomed by fans. It is the Toronto Maple Leafs after all, and they are walking a thin line between abysmal and mediocre, and right now I, like many other Leafs fans, am praying for mediocrity. For a Stanley Cup winning general manager with 23 years of NHL experience, that cannot be too much to ask for.

# You Can Do It! Don't Let Them Tell You That You Can't...



**CHAD  
SEXINGTON**  
4.5X MANGINEERING

Good Afternoon Sexy Readers!

Many thousand apologies for my conspicuous absence from these pages last issue. However, I was off on an important mission, moving from land to land in search of something or someone very important: My replacement.

As much as it pains me to say this, sexy readership, this could be the very last time that some of you will ever see my words in print. Well, not really; you can always go back and pick up another issue of my older stuff and read that, but it's really not the same now, is it? Yes, my 4-stream friends, the time of Chad Sexington is at an end. And though I never thought I'd be writing these words, it seems like they need to be set down on paper (and in a paper!). Like the Dangerman before me, and the LowRider before him, it's now time for me to issue a call to arms (and hands and heads as well) so that you can answer it. The satire page is

one oft left blank in The Warrior of Iron. Too few hear its sweet siren song and find it within themselves to put forth words of 'wisdom' and 'humour'. But every so often, a champion will take up the mantle and spew nonsense and skullduggery for all to enjoy. Could this be you? Is it you? It is you, isn't it?

With my last space (unless, of course, you are around next term), I will issue this final list of Chad Sexington's Four Reasons to Write the Satire Column, in hopes that a young upstart will be moved to build upon what those who have come before created:

1) Being the resident satirist is a noble calling. Riding high amongst the writing legends of yore, you will forever be immortalized amongst the greats, like Dickens or King, in the national archives. Did you know that a copy of every IW gets sent to the archives of Canada

to be stored there forever? Bet you didn't.

2) Your work will be sent far and wide, to universities across the globe (copies of the IW get sent to many other schools so they can check it out), and you'll be able to sleep well knowing that you've made a difference in the lives of your loyal fans and new readers alike.

3) Loyal Fans. You will probably receive, like I do, hundreds of pieces of fan-mail and questions about how awesome you are from all of the hottest supermodels in the world. It is a tiring task to read them all and look at all the photos they send you, but somehow I think you'll manage.

4) You can write anything! The sky is not the limit when you're writing what you know the world needs to hear. You can't put a limit on genius, and that means you have no limitations. The best part about writing satire and humour is

that it can be whatever amuses you and those you wish to read your words. It really helps you polish your writing skills and keeps you in top form for writing reports and assignments. It might not be easy to start, but all you need, and all the world has ever needed, is one great idea.

So with that, my Sexy Readership, I will say my last goodbye, put on my plaid, load up my pickup truck, and put the cover on my mighty axe of knowledge, for it shall swing no more around these parts. As I take this long walk into the frozen forests of the future, lumberjacking my way towards my destiny far off in the mists of time, I just want to say thanks to you, the readers, for being here with me and reading my ramblings over and over. It has been a pleasure, my friends. Finally, to the person out there who is thinking of taking over this space with their musings in the future. Do it. Find the time, make the effort, because it's definitely worth it, and you DO have what it takes. Don't worry about what all those other people think, because you're going to be great. Trust in the Chad.

Unto the Ends of the Earth,  
Stay Sexy.



**Dangerman and LowRider**

## The Fifth Down



**SI JIA  
ZHANG**  
4A NANOTECHNOLOGY

### "2 Minute Warning"

**Will the "Real" Chris Johnson please stand up?**

If you had the #1 pick in this year's draft, odds are you took C.J. Projected to be a fantasy king. He hasn't put up numbers nearly as ballin' as last year. This time last season, he already had 1242 yards rushing and over 200 yards receiving. This time around, after Week 11, "Every Coach's Dream" has only 968 yards on the ground and 103 yards in the air. Everyone was expecting an encore performance and most of us are pretty disappointed. I had such hope that I even traded away Matt Forte and Ray Rice for C.J. #28, however my R.O.I. has been pretty mediocre. The question everyone is asking is obvious: why isn't he the fantasy king this season? To put it more bluntly, why is Arian Foster, who wasn't even drafted, outperforming this first round pick? The answer is simple: opposing teams have adjusted during the off-season and have come up with effective schemes in defending #28. It seems to me that every time he touches the ball, he has nowhere to run; even the cornerbacks are putting on the pressure. This clearly opens up the Tennessee Titan's passing game, which is why during the first few weeks, wide receivers such as Kenny Britt were racking up insane numbers. This has died down as of late due to the Vince Young's ineptitude and immaturity. So what should the Titans do? Simple; throw the ball deep to Randy Moss. Jeff Fisher, the Titan's head coach, has so far been reluctant to use Moss as a deep threat. During the past two games as a Titan, Randy has an absurd 1 reception for a total of 26 yards. This is the same receiver who holds the record for the most touchdown receptions in a single season, even beating out hall of famer Jerry Rice. Yet the Titans fail to get him the ball, and instead target unproven receivers. The Chris Johnson + Randy Moss combination could be lethal; opposing defenses simply couldn't cover the both of them. The coaching staff needs to step up and adopt a "pick your poison" mentality; throw the deep ball and open up

the run. It's a win-win situation: the Titans will win games and us fantasy players will finally start smiling again.

### Game Winning Field Goal:

(Since the Iron Warrior is a bi-weekly print, tips will be provided for the upcoming week only.)

### Top 3 Additions:

1) Jacoby Ford (WR, Oakland) 12% owned in Yahoo! Leagues: After helping the Raiders win in Week 10, Jacoby Ford exploded in Week 12 by returning the opening kickoff for a TD and catching 4 passes for 108 yards plus a score.

2) Ben Obomanu (WR, Seattle) 4% owned in Yahoo! Leagues: In Week 12, Ben Obomanu caught 5 passes for 159 yards and a TD. Load it up!

3) Mike Goodson (RB, Carolina) 43% owned in Yahoo! Leagues: After having a breakout game in Week 11, Goodson was at it again in Week 12 with 136 total yards and a touchdown, even though Jonathan Stewart returned for the Panthers. Expect Goodson to contribute more, therefore pick him up if you need an extra RB.

### Top 3 Starts:

1) Philadelphia QB Michael Vick: He only threw 1 interception so far this season. Playing against the 31<sup>st</sup> ranked pass defense, Vick will rip the Texans apart.

2) NY Jets QB Mark Sanchez: It's going to be a high scoring game against the Pats. New England's ranked last in pass defense, and with Mark Sanchez's continuing growth as a starting QB, he'll definitely have a big game on Monday night.

3) Minnesota RB Adrian Peterson / Toby Gerhart: Depending on Adrian Peterson's ankles, start either him or Gerhart. The Bills are ranked dead last in run defense. Money in the bank.

### Top 3 players to bench:

1) Baltimore RB Ray Rice: Playing against the #1 ranked run defense in the Steelers, Ray Rice probably won't be doing much. Consider sitting him and starting someone else. The Steelers' are simply too good against the run.

2) Oakland RB Darren McFadden: McFadden didn't do much in Week 12, and that streak will continue in Week 13

against the #3 ranked run defense in San Diego. The Chargers will dominate both offensively and defensively, especially against the run.

3) Washington QB Donovan McNabb: Donovan will have a hard time against the NY Giants and their #1 ranked pass defense. McNabb has been very inconsistent this season, and expect the trend to continue in Week 13. Bottom line: bench him and smile.

### Post Game Press Conference:

(Current prediction success rate: 82%)

### The 3 Lockdown Picks:

Atlanta over Tampa Bay: Roddy White is going to light it up.

St.Louis over Arizona: Sam Bradford is starting to understand what it takes to be a dangerous QB in the NFL. Arizona will be his next victim.

Detroit over Chicago: Although Jay Cutler threw 4 TDs against the Eagles in Week 12, he will struggle against the revamped Lions defense and Detroit will take this one in a hard-fought battle.



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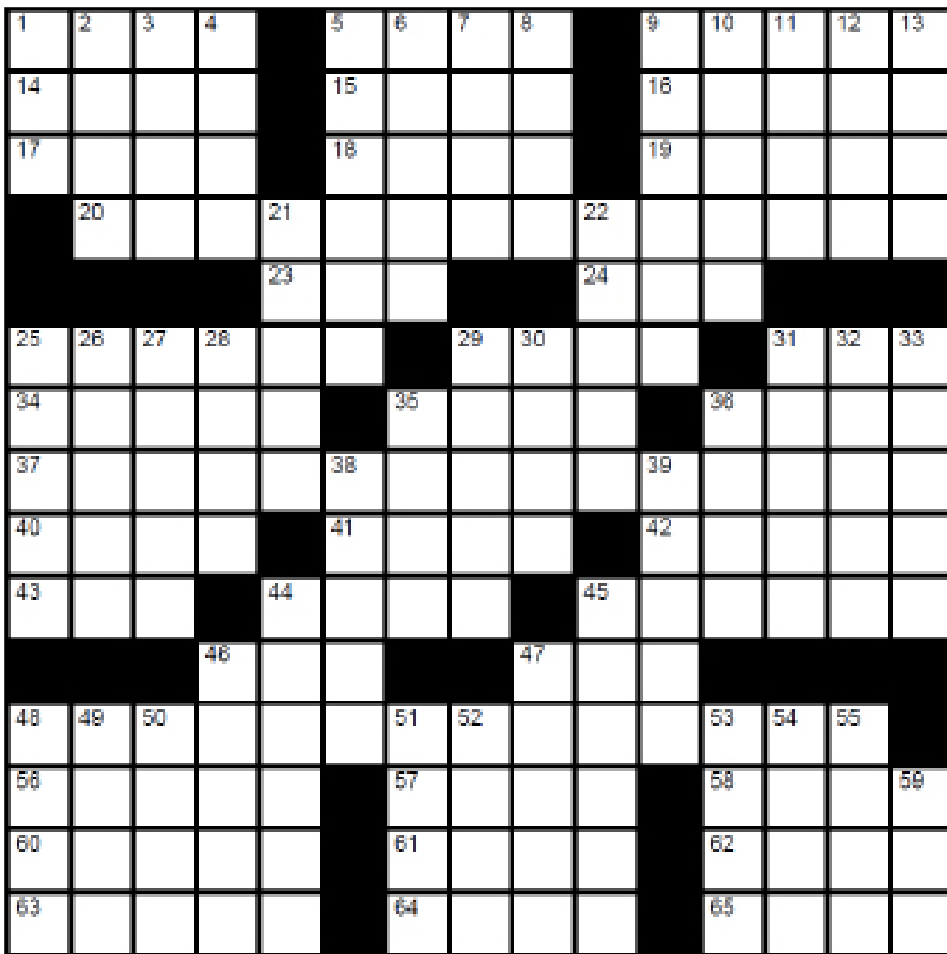
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# The Iron Crossword

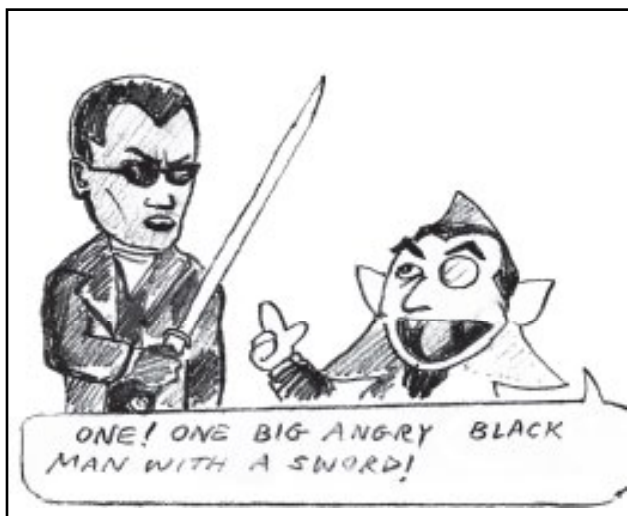
**STUART LINLEY**  
2A NANOTECHNOLOGY



- Across**
1. Far left visionary
  5. Ruse
  9. Ethiopian lake and city
  14. Lepton's locale
  15. Don't \_\_\_\_ me, bro!
  16. Avoids
  17. Word with sugar
  18. Old Testament prophet
  19. Rig
  20. Recent Eng. thing 1
  23. Boardroom bigwig
  24. Small dog sound
  25. Digressions
  29. One way to stand
  31. King in the ring?
  34. Columbus' birthplace
  35. Potamia prefix
  36. How some pronounce the E mathematician's name
- Down**
1. (PC)-1
  2. tan-1
  3. The 'How to Store'
  4. Charles' Team
  5. Avers
  6. Like Arnold in the Expendables
  7. Current Engsoc stream
  8. Grid
  9. Absolve
  10. Young one
  11. Cracy or drome prefix
  12. Comfy
  13. James Bond is one
  21. Vast water expanse
  22. Stocking fibre
  25. Can be secret or cleaning
  26. Spanish mister
  27. Metal bar
  28. Murder
  29. Earth (Fr.)
  30. (44-across)-1
  37. Recent Eng. thing 2
  40. Twelve
  41. Long tale
  42. Rosy, poetically
  43. Tarot, not including all those silly vowels
  44. Opposite/Hypotenuse
  45. Mortar go-with
  46. \_\_\_\_ I am disappoint.
  47. Appendage
  48. Recent Eng. thing 3
  56. Polyp collection
  57. Turkmenistan neighbour
  58. Air force heroes
  60. Conscious
  61. Fantasy fan
  62. Study, to some
  63. Domesticated
  64. \_\_\_\_ of the D'Urbervilles
  65. Sounds of reproof

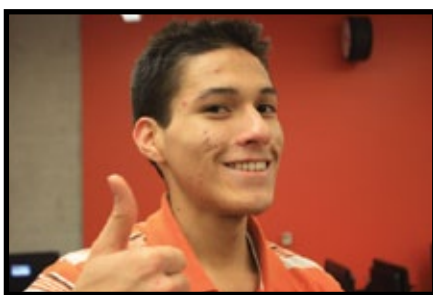
# Counting with the Count

**MICHAEL NEW**  
3B CIVIL

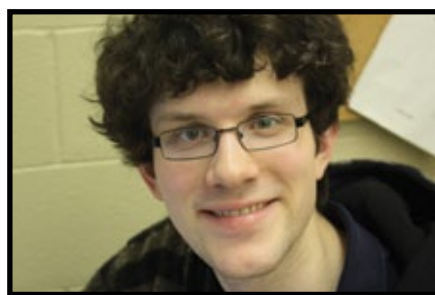


**THE IRON INQUISITION**  
Krishna Iyer, 2A Nanotechnology

## "What is your favourite holiday food?"



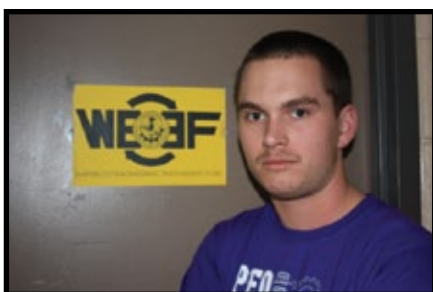
*"Colada morada; a purple fruit beverage for the Day of the Dead in Ecuador"*  
Andres Cardenas, 2A Mechanical



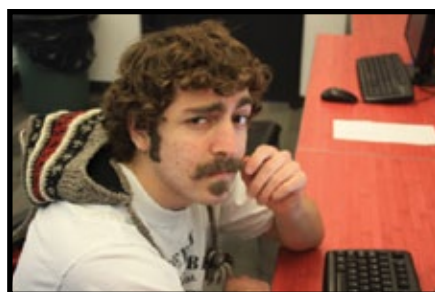
*"Sticky buns!!!"*  
David Morris, 3N Electrical



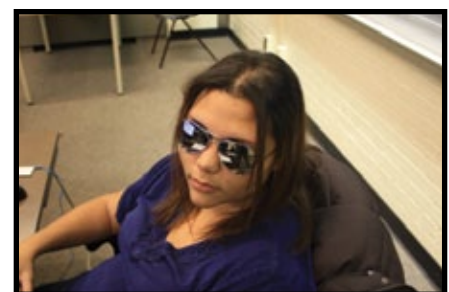
*"Guylian® brand chocolate seashells"*  
Michael Chang, 2A Software



*"Turkey"*  
Brock Kopp, 2B Mechatronics



*"Bacon in a turkey in a chicken in a duck in a cow"*  
Armen Tchobanian, 2A Nanotechnology



*"Jugjug...but I don't think you get thats around here"*  
Natalie Field, 2A Mechanical