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# THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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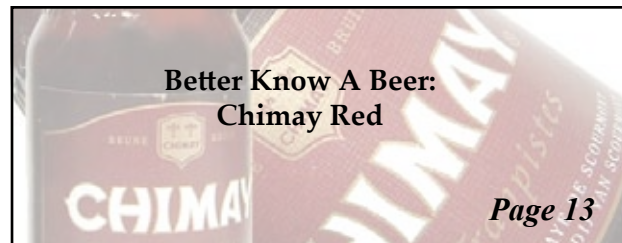
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<http://iwarrior.uwaterloo.ca>

## Frosh 2008: A Week of Legendary Proportions



Photo by 2008 Aerial Photo Committee

Aerial photo of the graduating class of 2013 and frosh leaders. See centrefold (pages 8-9) for more frosh week stories.

## Quantum-Nano Centre Construction Underway

OM PATANGE  
3T NANOTECHNOLOGY

It all began a few years ago as a dream to advance the human condition by breaking down barriers and allowing thoughts to flow freely. It has been manifested today as a big, gaping hole in the middle of campus.

You may have seen the construction site for the Mike & Ophelia Lazaridis Quantum-Nano Centre (QNC), which broke ground this past June. It is situated perfectly to block your path from SLC to the engineering buildings. After contemplating how much of an inconvenience this is, you might wonder what exactly is going on in the construction site.

The \$160+ million QNC will house the Institute for Quantum Computing and the Waterloo Institute for Nanotechnology with around 400 academics in total. Already the work of researchers at IQC has attracted Nobel Prize Laureate Sir Anthony Leggett to become a visiting faculty member at UW.

To accommodate the interdisciplinary research of these two institutes, the QNC will have to be a very complex building. A state-of-the-art metrology suite and clean room will occupy the basement of the building. This implies very rigorous construction standards. For example, the ventilation ducts cannot have any dust settle in them, as is normally expected during construction.

A feature you might see before this term is over is the pouring of the concrete for this basement lab. As Scott Nicoll, Special Projects and Facilities Manager for the Faculty of Science, explained, a major consideration for the basement is the vibrational stability of the floor. Many of the instruments are very sensitive to even the slightest vibration as they have probes situated mere nanometers from the sample of interest. If there is even a slight wobble in the final concrete floor, it might have to be torn out and redone.

Currently, the entire construction site sits on a water table, which is being drained to stabilize the construction site. You may have seen the very deep holes being dug for the wells for this purpose. Naturally, adding more water to this picture is dangerous, even disastrous. The heavy rainfalls of the September 14th weekend led to flooding of the MC basement from the construction site. Investigations are ongoing as to how exactly this could have happened. In the meantime FirstOnSite Restoration was contracted to clean up the flood and minimize the damage.

Once construction crews had “dewatered” the soil using the wells and started digging the main pit, wooden cribbing and diagonal braces were placed around the perimeter of the site in order to prevent the collapse of the construction site.

The excavation of the pit itself is a complex choreography of construction phases which normally occur in succession. This is being done in an effort to expedite the construction process, which is expected to take nearly three years. At the same time as the digging of the main pit continues, crews are rerouting vital pipelines that ferry steam, water and sewage to the central heating facility (the big chimney). In fact, the Bomber patio was torn out and rebuilt in the summer to lay an extension of a pipeline from the SLC that will link up with a pipeline at B2. These pipelines are the main reason why the pit is much bigger than the actual footprint of the building – and the reason why so many walkways have been consumed by the great chasm. The excavation will continue to twice the depth it already is. The plan is to finish excavation and lay the foundations and first slab of the basement before the winter frost sets in.

A major challenge they are facing is the pedestrian traffic at the entrance to the construction site. Nicoll stresses that it is no longer acceptable to walk around this part of campus with our “heads in the clouds”

for the sake of our own safety. At any given time there are large dump trucks loaded with soil and rocks coming and going from the construction site. On top of that, there are cars zipping by on Ring Road. Even a moment of absent-minded walking could cause serious accidents. The message is simple, “Be careful.”

Another exciting bit of information that Nicoll mentioned is that a camera will be mounted on the roof of MC to record the activities and progress of the construction. The video feed may or may not be made public. At the end, a video will be composed by stitching together frames from the entire construction process. A second camera will be mounted on top of B2 once the IQC portion of the building becomes so tall

that it obstructs the line of site of the MC camera.

The Quantum-Nano Centre is going to be a jewel in Waterloo’s crown when it is complete. Nicoll explains that its position at the centre of campus is metaphorical to its function of bringing together the minds from the various disciplines on campus. It will connect, at the very least, the Faculty of Science and the Faculty of Engineering in a fantastic dance towards the future of mankind. Sure, walkways being blocked is an inconvenience now, but this is a small price to pay for the advancement of the human condition.

To see the architects’ renditions of the building visit: <http://www.kpmbarchitects.com>



Photo by Stuart Pearson

Nano building construction as seen from MC.

# Letter from the Editor



**STUART  
PEARSON**  
EDITOR-IN-CHIEF

One sunny June afternoon, a nervous high school kid was visiting Waterloo to look at residences when he noticed a copy of *The Iron Warrior* sitting in a coffee shop just off campus. "Hey, that's pretty cool," he thought, "Engineers who write! Maybe I could do that..." The nervous high school kid forgot all about that newspaper for a few months until he came to school, when he was lured into writing a piece about his Frosh Week experiences. A couple of terms later, that same kid is now sitting in a chair, trying to keep his sanity and hammer out a newspaper before the rapidly-advancing deadline.

I'm Stuart and I'll be your Editor-In-Chief for this fall term until Christmas. *The Iron Warrior* is your newspaper, and I not-so-humbly believe that it's the best publication on campus. We have news about what's going on around the school, cool engineering stuff, and a chance for you to voice your opinions. We even try to give you something amusing to distract yourself with during calculus lectures. The reach of *The Iron Warrior* extends well beyond the boundaries of Ring Road, however; the newspaper is distributed to alumni, professional organizations, and even other schools. During my work term this summer, I met several students from the Universities of Manitoba, Carleton, St. Francis Xavier, and New Brunswick who have all read and enjoyed our paper before.

I have been involved with the newspaper since my first term as a frosh, and in the winter term four months ago I served as Assistant Editor under David Morris. I had my eyes on the EIC position, but had planned on waiting until third or fourth year to step up. However, enthusiasm can be a dangerous thing in *The Iron Warrior*, and before I knew it I was asked to take the helm for the Fall. This term I am in 2A Civil, and while I didn't expect things to happen so soon, I am simply thrilled to have this opportunity. It is my hope that I will be able to help continue this publication's history of excellence, setting the standard for respectable journalism here on campus. I care a lot about this paper and am determined to do *The Iron Warrior* justice.

#### Term Goals:

This term I have set several goals to ensure that *The Iron Warrior's* high standards are maintained.

1. **Stay in the black:** It costs several hundred dollars to put out an issue of the IW, and in order to fund ourselves, we rely on advertising revenue. In the event that we exceed our budget for the term, EngSoc bails us out. In recent terms we have been mostly successful at achieving this goal, and I intend to reach it, as I believe that EngSoc's funds can be put to better use elsewhere for other directorships and services that cannot generate their own revenue. Parties interested in advertising should contact [iwarrior@engmail.uwaterloo.ca](mailto:iwarrior@engmail.uwaterloo.ca) for more information.

2. **Maintain the high standard of student journalism:** *The Iron Warrior* stands above other engineering student publications because since its inception in 1980, it has promoted professionalism and strived to be a respectable forum for engineering information and student opinions. I wish to keep our professional image intact, while still providing

an outlet for student creativity that people will actually want to read.

*The Iron Warrior* is a great chance for you to get involved, especially if you're wary of how much time you want to commit to extra-curricular activities. Wrestling with any creative demons that mountains of calculus homework have been suppressing? Then come write for us! There are staff positions available, and even editorial spots are up for grabs. Writing skills aren't even a must- just show up with some enthusiasm and we'll figure something out. There's enough work for everyone to help out with. Putting out a newspaper is a lot of hard work but is also an immensely satisfying experience. It feels great to look around the engineering buildings and see people enjoying the fruit of your labour.

This term we've moved into a bigger and better office on the second floor of E2, room 2349A, former home to WEEF. They can now be found in our former office in CPH 1323B across from the Orifice, so don't come to us looking for WEEF refunds (not that you should get your refund anyway...). If the door is open, come on in and say hi, especially if you think you want to get involved with *The Iron Warrior*. I won't bite. Promise.

Staff meetings are held weekly on Mondays at 5:00pm in POETS, and anyone can come. There is even free, delicious food from the C&D! We publish five issues per term, and our next deadline is Friday, October 3rd. If you would like to submit anything, please send it in to [iwarrior@engmail.uwaterloo.ca](mailto:iwarrior@engmail.uwaterloo.ca)

#### Write Us Letters!

If you have anything you want to say, speak up! If there's an article that you disagree with or even just an opinion that you'd like to voice to the world, send us an email. If you're shy, just let us know and we will publish your piece anonymously. I think that a healthy relationship between a publication and its readers should involve plenty of feedback. This is YOUR chance to let your voice be heard. We love to receive mail and don't get nearly enough of it, so send away!

#### In This Issue...

We have a lot of really great content in this issue, including a retrospective of Frosh Week produced by Frosh themselves. Perspectives on the bottled water controversy, Sandvine's famous open-bar recruiting sessions, and information about all the new developments on campus are featured. There are even two contests for Alice Cooper tickets and Postal DVDs- just email us to enter. We hope that you enjoy reading the paper as much as we enjoyed producing it!

#### Putting Together a Newspaper

Running this paper has been a bit of an adventure so far. I bought a can of Red Bull on Friday afternoon in anticipation of the grueling weekend ahead, but as of this writing, I still haven't opened it yet. The distractions have been many, including a jaunt to the Campus Crusade for Cheese, and procrastinating on my editorial by watching Dr. Horrible one too many times. I digress. I am very happy with this issue thanks to the many quality submissions that we received.

The two weeks of preparation and production weekend have been a lot of work and I couldn't have survived without help. I would like to thank Bahman Hadji and Sunny Ng for their guidance and words of wisdom, David Morris for his help and amazing layout skills, Michelle Croal for stepping up as Assistant Editor for the term, and Trevor Jenkins for all his great layout work. I also had a number of

people come into the office on the weekend and give up their time to help out. Thanks to Sylvia, Nicole, and everyone else who stopped by. I would also like to say a big thanks to Mary Bland for helping make my transition into the Editor position run as smoothly as possible. To the rest of the staff, especially the Frosh- thanks for coming out to meetings, submitting content, and for being so enthusiastic. I think that we all have a very good term ahead of us.

*This issue is dedicated in loving memory of Gert MacNeil.*

## Letter to the Editor

Dear Editor and readership,

During years at and before Waterloo, I have heard our university and our faculty called many names which poke fun at us because of who we are, what we study and how much we study. I have been teased and tortured because of our football team's lack of football skills and the lack of appearances we have at bars on Wednesday and Thursday nights. They say that we always look tired and that we know nothing beyond math - well I have had enough! This writer does know math, but has also read his share of Shakespeare, and I say Fie onto all those who make fun of Waterloo! The next time your friend from Laurier cracks a joke, don't just laugh and change the subject, call them out on it. Ask them when was the last time something successful came out of that high school across the street from Waterloo they call a "university", and then proceed to list the many wonders that have spun out of Waterloo (almost) alumni. Waterloo is the s\*\*\*, and Engineering (yes with a capital E) is the reason why. I would tell that to all the arts students, if only they ever went to class. Yes sir, I am proud of this place and everything about it; how many football teams can say that they ended the longest losing streak in CIS history? Waterloo can. We're not at the bars on Thursday nights because contrary to Laurier "students", we actually have lectures on Fridays! And a warrior could take on a hawk any day of the week, and yes I know our mascot isn't actually a warrior, but doing things that don't make sense is the spirit here. Someone must have asked, "Should we make our mascot a lion with sunglasses?" and in that great Waterloo tradition, someone got up and said "Why Not!" (For those who were not on campus last year, one could hardly find a space on campus which wasn't in view of a banner or poster celebrating the University's 50th anniversary with the slogan "The Spirit of 'Why Not'"). So let's all get together and break this stereotype that Engineering at Waterloo is a bunch of nerds. Get up and get out, go to engineering events, get drunk, puke, buy stuff from Novelties, tell everyone you're a Plummer, go to the Homecoming Football Game versus Laurier, and when we fall behind 40-7 scream from the bottom of your heart: "It's alright, it's okay, we're gonna be your boss someday!"

- Anonymous Plummer

## THE IRON WARRIOR

The Newspaper of the University of Waterloo Engineering Society

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

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

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

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### Issue #2 Deadline:

**Friday, October 3, at 6:00pm for publication on October 8, 2008**

Send your submissions to [iwarrior@engmail.uwaterloo.ca](mailto:iwarrior@engmail.uwaterloo.ca)

### Fall '08 Publication Schedule:

September 24, October 8, October 29, November 12, & November 26

## Pranks Go Too Far

**CARA KENNEDY &  
LAURA SISSON**  
2T CIVIL & 2T MECHANICAL

University is not only a time to learn but a time to have fun. We are all well aware that engineers know how to have fun since we work hard, but we play hard too. A popular way to have fun is by pranking. It has been a longstanding tradition for engineers here at Waterloo to prank people and it is a great way to show school spirit in a mischievous way. However, at times these pranks have a tendency to get out of hand.

This year during frosh week, there was an insulting banner hung above Highway 85. This is an example of a prank taken too far. Prank banners used to be an old tradition here, but have not been made in recent years. In our opinion, that is for a good reason.

Try to imagine how you felt when you were about to move to Waterloo in first year. I'm betting you were nervous, scared and didn't know what to expect out of this new chapter in your life. As you were driving here, you are filled with apprehension about whether or not you'll do well in school, make friends and adapt to this new way of life. You're on the final stretch of the road and you see a sign that says, "WLU: UW Engineering welcomes your 'virgin' daughters." This sign may not phase you that much but it definitely gives you the impression that 'UW Engineering' has no respect for women at Wilfred Laurier University and little respect for women at all.

As women in engineering we'd like to ex-

press our disgust for this poster and let some of the men in our faculty become aware of something. You need to know that women long to be respected, treasured and honoured. The implications of this poster were mortifying to us; implying that all we're good for is sex, regardless of our personality. This is the most insulting perception of a woman. Having been on the receiving end of sexist comments, some in jest and some not, we have been slightly desensitized. But this public display of the demoralization of female students coming to Waterloo was not acceptable. We feel that this poster has embarrassed our faculty and something like this should never happen again. It is insulting to Wilfred Laurier students, embarrassing to the University of Waterloo students and outright disrespectful to the women in the Kitchener/Waterloo region.

In closing we would like to make it clear that we love pranks, since they are usually in good fun and they build school spirit. However, there are clearly people out there who need to understand that this isn't a joke, nor is it as acceptable as it may have been 30 years ago. This is no longer a male dominated society and stunts similar to this banner are not acceptable. We recognize that tradition is important and a great way to encourage pride and school spirit here, but we do not believe in keeping ones that are simply distasteful.

We acknowledge that the intent of this banner may not have been to offend people, but it must be made known that it was very offensive and we hope that raising awareness to the situation will prevent it from happening again.

## While You Were Out...



**MICHAEL  
SELISKE**  
1T COMPUTER

The University of Waterloo and the Faculty of Engineering have gone through a lot of changes since you A-soc-ers were on stream last, and who can forget some of the awesome Engsoc events run during the summer months? The most notable changes on campus are the two new engineering buildings being built, the Quantum Nano Centre, which is the gigantic hole where B2 green used to be and Engineering V, which can be identified by the two cranes across the train tracks. These two buildings had their groundbreaking during the Spring term and construction began shortly after. Read previous issues of *The Iron Warrior* online at [iwarrior.uwaterloo.ca](http://iwarrior.uwaterloo.ca) for more information on these two buildings.

Despite the obvious infrastructure change occurring outside of the current engineering buildings, a surprise to many upon returning to campus was the lack of a brand new POETS. As some of you may or may not know POETS is getting a makeover and it was supposed to happen during the August break between the end of classes in the Spring term and the beginning of classes for the Fall. As A-Soc president Tyler Gale has informed me, all plans were on schedule and the strict frosh week deadline was understood, until the contractor became ill and no longer thought he could finish the renovations by frosh week and the decision was made to avoid the risk of not having POETS for frosh week. Renovations have now been postponed until the Christmas break.

Another notable change is the addition of a new set of offices over the multimedia lab which began at the end of the Winter term and continued all summer.

A major change within the Faculty of Engineering was the change of the Dean. Although Dean Adel Sedra was reappointed

Dean, he elected to take a year off to work on the next edition of his book: *Microelectronic Circuits*. Leo Rothenburg from the Civil Department has stepped up to the plate to take over as acting dean for a year's time.

Another obvious change is that the 2008 grads are no longer hanging around as they had their convocation in June and are now officially Waterloo Engineering Graduates. Another notable farewell goes out to Betty, who retired at the end of the spring term. She was the smiling face you could usually see behind the desk at the orifice.

There is a newly renovated computer lab in E2 (Wedge), which has WORKING computers and air conditioning for those chilly Fall days.

The Spring term had all of the super awesome EngSoc events that run every term, but a notable one that only runs during the summer was Canada Day, where all of Waterloo comes out and celebrates Canadian pride, and EngSoc entertains the kids. An alumni student golf tournament was also run which paired one student and one alumni in a best ball tournament situation. P\*\*5 has some interesting incentives during the Spring term, including the reintroduction of the sexy box and special contests which would earn classes tons of points. Check previous editions of *The Iron Warrior* for details on the amazing contests and the winning entries to many of them. *The Iron Warrior* made a few changes as well, including the introduction of photo credits to those who took photos appearing in the paper and two new columns called "IW Recommends" and "Thumbs up/thumbs down", which will be appearing in future issues. This list is mostly things that I noticed and remember while in school during the spring term and I am sure many other changes took place but I can't remember them off the top of my head and therefore they are not memorable enough for you to care about. I hope to report equally exciting things in the first issue of *The Iron Warrior* in the Winter term as well, so make it a good one!

## Open Letter to UW Eng



**SUNNY NG**  
4N COMPUTER

I can still remember what it was like when I started my first work term. It was my first day; I was working in a small downtown Toronto branch office of a US-based software company. At the time I've been through only 4 months of university education; I was nervous, a little scared and just wasn't sure what I was supposed to be doing. I was so excited to see other fellow UW co-ops who were also in first year and were in the same boat as me. We were all curious, eager to learn and tried hard to make sure we didn't disappoint those around us. Suddenly, this brought a sense of familiarity in an otherwise unaccustomed environment.

When work came along, we relied on each other for simple questions and even asked for advice from our peers and mentors. We were never quite sure about anything, when it came to work or even our career paths. We were on a journey to seek answers that would validate the direction we were heading.

And now four years later, things have changed. I'm currently working in a mid-sized tech company based in Southern California that has over 10,000 employees and hires many upper-year UW engineering students for co-op. From my observations, gone is the innocence of first work term. Through six more school terms and four additional work terms, we all worked hard to get to where we're at – on the verge of finally colliding with the real world. We made significant growths in technical skills, and spent countless of hours trying to live up to UW's reputation. Somewhere along the way, we neglected basic social skills like etiquette and courtesy – our sense of curiosity eventually turned into arrogance.

We are no longer bound by our sense of insecurity. Instead, we tend to only unite because we truly believe that we are better than others. We forget to respect those that are around us, especially those that have much more experience and knowledge than us or those that are different from us. I've seen UW engineering students who actually believe that they are more qualified than full-time workers and refuse to take suggestions on how to get things done. I've also seen those who question and challenge

instructions from those who are experts in the fields and know the rules. As well, I've seen those who take benefits offered to co-op students by companies for granted, as if they should be expected, and even went as far as complaining about them. In contrast to the feelings I had during my first work term, I no longer feel like I should embrace having other UW co-op students around me. I hate to say it, sometimes I can't help but feel ashamed to be associated with UW Engineering.

Of course, this isn't limited to the workplace setting. Even during school, many people don't shy away from showing off their amazing job at an exotic location that they managed to get within the first round or their exceptional grades that they managed to pull. Some go as far as purposely asking about answers immediately following an exam to ensure that they maintain their superiority. An aura of social elitism can even be felt in some student societies and clubs because some think that they're better than others only because they are more involved and that they should have a bigger voice if they are. This leads to cliques and only further discourages involvement from outsiders.

But how did this happen? Is it because most of us have the luxury of not having to work on minimum wage to help pay our tuition thanks to co-op? Is it because we spend so much time studying and working that we forget how to interact with others? Or is it because we are living off of our alumni's reputation so much that we forget that our actions may affect the school's future reputation? I guess it doesn't help that we always brag about being on top of Maclean's rankings, referring to us as the top engineering school in Canada and even make bold statements like calling ourselves the "MIT of the North" – a term that I personally refuse to use to refer to UW.

As we are about to step into the real world, we should reflect on who we really are. Sure, we may be from a top engineering school, but that does not mean you're better than others. It is important to act professionally and treat others with respect. This is also not limited to the workplace setting. This elitism has no place in any social setting. Because if we neglect the way we treat others, we may be unable to maintain our school's reputation, and you may not be able to go very far in your career.

## Team North: Bringing Solar to Canada

**JOAN ANG**  
2B SYSTEMS DESIGN

A solar house for Canadian weather?

You may have heard about it or seen the posters. The University of Waterloo is designing a solar house to take on the Canadian winter. Team North, consisting of UW, Simon Fraser and Ryerson, is one of twenty teams that qualified to participate in the Solar Decathlon 2009. This biennial competition, held by the U.S. Department of Energy, is held to demonstrate the feasibility of solar energy in the market. Its stiff demands include not only design and technical innovation, but market viability.

Ever since last October when the RFP for Solar Decathlon 2009 was issued, I've been dying to participate – it's one of those multidisciplinary projects I've heard of so many times as a Systems Design student – so when Waterloo qualified in January, I started wait-

ing anxiously for student recruitment to begin. And I waited, and waited...until during the first week of classes. I saw it, the poster! After almost a year, incubating hopes and dreams and wishes, IT'S FINALLY HERE!

And there are so many ways to be part of it, I might start drooling.

Some of the sub components of the project include: HVAC, solar PV/thermal systems, heat pumps, control systems, building envelope, structural design, electrical, plumbing, appliances and fund-raising.

The enthusiasm is still here and it was definitely worth the wait.

For more info on the Solar Decathlon, visit <http://www.solardecathlon.org>

If you are interested in joining Team North, contact Lauren Barhydt [laurenbarhydt@gmail.com](mailto:laurenbarhydt@gmail.com), Mike McWilliam [pilot.mm@gmail.com](mailto:pilot.mm@gmail.com) or Ivan Lee [ifunley@gmail.com](mailto:ifunley@gmail.com)

## Change the Paradigm



**ERIKA JANITZ**  
2A ELECTRICAL

Surveillance in all forms has grown to an omnipresent force within Western society, a force that is both powerful and covert. But does the need for surveillance mean the sacrifice of privacy? At the upcoming lecture by Dr. Ann Cavoukian at the Humanities Theatre, she will address this “zero-sum” thinking and replace it with the concept of “privacy by design”.

Consider surveillance cameras, furthered by biometrics (finger-printing, retinal scans), even RFID (radio frequency tagging), technology that we co-exist with every day from the cameras on campus to the flocks of tagged and hissing geese. The basic paradigm has become that in order to maintain the safety of the public, one must sacrifice his or her privacy. But must we submit to the ‘Big Brother’ in order to maintain the public safety, crime fighting capability and resource protection that society has come to enjoy and rely on? Dr. Ann Cavoukian is Ontario’s Information and Privacy Commissioner and she thinks not. She contends that privacy is no longer the antithesis of other desirable goals including security, business, or technical

objectives. Instead she proposes the concept of “Privacy by design”: embedding privacy into invasive surveillance technologies without sacrificing data security, system functionality, efficiency, usability, or accountability, thereby transforming it in the process. When it comes to security and privacy, we can now have our cake and eat it too through the exploration of these “Transformative Technologies”.

Cavoukian is recognized as one of the leading privacy experts in the world and the only Information and Privacy Commissioner of Ontario to ever be appointed for a second term. Her mantra of “privacy by design” seeks to embed privacy into the design specifications of technology, thereby achieving the strongest protections. Cavoukian’s published works include *Who Knows: Safeguarding Your Privacy in a Networked World* (1997), written with Don Tapscott, and *The Privacy Payoff: How Successful Businesses Build Customer Trust* (2002), written with Tyler Hamilton.

You are invited to join Dr. Ann Cavoukian, Information and Privacy Commissioner of Ontario, for a lecture titled: “Change the Paradigm: Embed Privacy into Technology and Ride the Next Wave”.

*Monday, September 29, 2008, 11:00 am  
Humanities Theatre, Hagey Hall, University of Waterloo*

## Putting the “Applied” Back into “Applied Science”

**HILARY LOCKIE**  
4A CHEMICAL

Have you ever been in a lecture where you asked yourself, “When will I even need to know this?”

Do you find that some of your course material is more theoretical than applied?

Do you find yourself more engaged in classes in which you study real applications of engineering principles?

The Waterloo Cases in Design Engineering (WCDE) group is on the job. From our work, students will be able to develop strong design skills throughout their engineering education, and will begin to see more relevant applications of engineering principles on school terms.

Led by Professor Steve Lambert (Mechanical), WCDE is working to develop case studies based on real engineering design challenges. These cases create a connection between theoretical principles seen in class and real industrial problems from work terms and design projects.

In addition to contacting companies directly to find interesting engineering design challenges, WCDE is us-

ing work term reports and fourth year design projects as principal sources of case material. You are able to submit current and older non-confidential work reports to WCDE through our on-line submission form at [cases.uwaterloo.ca](http://cases.uwaterloo.ca). Reports that match up with the design steps we’re looking for will be converted into cases by a WCDE staff member, who shares the copyright with the work report author.

If you don’t feel that your work reports would be useful to the WCDE team, you can still help by submitting suggestions about any of the following:

- Courses that you feel would be improved, or made more understandable, by the inclusion of cases;
- Difficult theoretical concepts that would be made clearer through studying their applications; or,
- Work term applications or experiences that you felt were especially interesting that could be related to one or more course concepts.

For more information on the Waterloo Cases in Design Engineering Group, you can visit our website at [design.uwaterloo.ca](http://design.uwaterloo.ca).

## US War Resisters Should Stay



**JON RADICE**  
2B CHEMICAL

Another Friday rolls along, and as usual I’m drinking way more than I should on my balcony. I go in to grab me a glass of water when I’m met with a few unfamiliar people in my apartment. Some of my roommate’s friends, planning for some rally the next day. I have heard all of their activist-y spiels too many times, so I hurried back to my balcony with a few quick hellos. A new face was on the balcony, a person I never saw before. He was asking for a light and I threw him a book of matches on the table. After getting his name, I ask the typical university question, “So where you from?”

“Texas”

“Jesus. You’d think you’d find a better

school than Waterloo along the way.”

“Well I’m not going to school, actually I’m a war resister.”

I look in through my balcony window. My kitchen table is adorned with bristol boards showing their support for US War resisters in Canada. I point to the signs, “You’re HIM?”

“Yeah.”

Now up until this point I wasn’t really ‘all for’ US war resisters. I thought that they should have known what they were getting in to. That they should have known that war is bad, and people might even get killed in them. They should have known the ramifications of a contract, and the penalties for breaking them. Heck, at one point I even likened war resisters to the reason why cigarette packages have those massive warnings on them. So, being the jerk I am, I tell him just that.

“I don’t support war resisters. Con-

vince me as to why I should.”

The man was scheduled to do a speech tomorrow. He had all his eggs in order. He told me how he served four terms in Africa and two terms in Afghanistan. His contract expired after the second term in Afghanistan. The year was 2003 and he was well aware of the situation in Iraq. So was the army, however.

There’s this funny thing about the US army, and I’m sure it’s no shocker. They don’t really take the ‘rules’ of the game they are playing into their decision-making process. They weren’t done with our friend here, and automatically re-enlisted him. He objected. He saw the war as immoral and, more importantly, illegal. He fled to Canada claiming refugee status.

Now what was unknown to me at the time is that there’s a refugee claim that can be made for people that are fleeing from performing war crimes or to pre-

vent people in participating in an illegal war. And technically speaking, a war not sanctioned by the United Nations is an illegal one. That’s where the quagmire lies, not in whether you think war resisters are cowards, not whether you think they had an ever-changing contract to be held to, but whether or not the war in Iraq is illegal.

That being said, I was swayed. Iraqi war resisters can be considered refugees in Canada as long as the Canadian government says the war is an illegal war. And in June of this year a motion passed in the House of Commons 137 to 110 to allow resisters to stay in Canada. The only thing that is stopping it from being law is Stephen Harper making the motion a law. But he’s not really the guy to stand up to the US and to essentially question the legality of the war.

But maybe after this election that all will change...



## Sandford Fleming Foundation

Professionalism.  
Leadership.  
Communication.

There’s more to an engineering education than engineering.

### Technical Speaker Competition October 2 at 10:00 am EIT 3141

All undergraduate engineering students are invited to participate in this competition. The presentation has 15 minute time limit plus up to 5 minutes for questions and answers. The talk is to be based on a work term experience, not necessarily your most recent.

Interested students are required to submit a brief abstract to Prof. J. Craig in E2, Room 3322 by September 25, 2008.

#### PRIZE MONEY

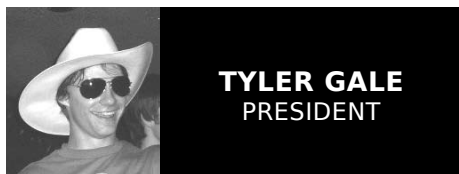
Winner - \$500

Runner Up - \$250

**E2-3336, ext 84008, [sff@engmail.uwaterloo.ca](mailto:sff@engmail.uwaterloo.ca)  
[www.eng.uwaterloo.ca/~sff](http://www.eng.uwaterloo.ca/~sff)**

## ENGINEERING SOCIETY EXECUTIVE REPORTS

## Presidential Report



**TYLER GALE**  
PRESIDENT

Frosh week and the first two weeks of class have gone by tragically quickly, but they were a blast. ComEng was a resounding success. We put more money into the venue (Fed Hall vs. Festival room) and the programming this year and it was well worth it. We managed to make Fed Hall – the largest student bar in Canada – look full, and for the first time since I've been around, someone was successful in stumping megaphone. BOT was also a success and I PROMISE that we'll get The Tool music working flawlessly for MOT.

Featured Lecturer: Dr. Ann Cavoukian, Information Privacy Commissioner of Ontario

**Humanities theatre, Monday September 29th, 11am**

Dr. Cavoukian will be lecturing on the topic of the importance of information privacy in the IT age. If you're at all interested in entrepreneurship, or you've got this design secret you've been keeping to yourself, this talk could really come in handy.

#### Alumni Weekend

A call has gone out for volunteers to help out with the alumni weekend. There are all sorts of opportunities available so if you're interested get in touch with me and I'll put you in contact with the Alumni office.

#### Engineering Society Darkroom

The Engineering Society darkroom is no

more. I expect to receive one or perhaps two complaints about this, but the resounding apathy over idea is exactly why we're getting rid of it. In the days of digital cameras this space could be better used by an organization that strives to use its resources in a means that supports as much of the student population as possible. That said, EngSoc coincidentally happens to be looking for a worthy cause to donate some enormous pieces of film development equipment to. If this interests you or you have any ideas, please contact me.

#### POETS Renovations

Renovations for POETS have been in the plans for the last year and a half or so. In fact, plans were in place for them to go ahead with construction this August. We were a little early to off the blocks on those

plans and obviously that didn't happen. But now plans are in place for the construction to go ahead this December.

#### Some general reminders:

Visit the engineering society website: [engsoc.uwaterloo.ca](http://engsoc.uwaterloo.ca)

Join the engineering society mailing list: [engsoc\\_a\\_general@googlegroups.com](mailto:engsoc_a_general@googlegroups.com)

Come to **EngSoc meeting #2: October 1st, 5:30pm CPH 3385**

Make me lunch: homemade please

I think that sums things up for now. Thanks for a fantastimazing frosh week and welcome back to campus A-soc, or if this is your first time on A-soc, welcome to A-soc.

Tyler Gale

[asoc\\_prez@engmail.uwaterloo.ca](mailto:asoc_prez@engmail.uwaterloo.ca)

## VPed Report



**JEFFREY LIPNICKY**  
VP EDUCATION

Hello Engineering! <cricket> <cricket> Tough crowd.

It is still early in the term, so I do not have much to report. Next issue I will have an update on the PDEng External Review and on PDEng course statistics in the next issue. In other news, resume critiques went really well this year. There was a very good turn-out, and I would like to thank May Wong and all her volunteers for their great work!

This year, the quality of resumes we saw was significantly below the norm. This has nothing to do with the first year students – it points to the lack of instruction the students receive from CECS. Speaking with students and TAs has only emphasized this point. Students have not been given adequate instruction on how to properly prepare a resume – neither have they been trained on JobMine prior to the first job posting. This is inexcusable. Since the GENE10 program has been incorporated into the first-year concepts courses, the quality of instruction has suffered significantly.

In an effort to remedy this situation, May Wong has given a tutorial on how to use JobMine to first-year students. We, the Engineering Society, should not be responsible for taking this action, but given the current climate in our institu-

tion, it has become necessary.

I have already been in contact with CECS on this issue, and I will continue to follow up with them to make sure that it is resolved and does not happen again. This is unacceptable – especially since our coop fee was just increased.

Phew, I feel better now.

In other news, the Frosh Mentoring directors ran a successful "UpTown Tour" during the first week of classes. It gave first-years and upper-years a chance to interact while showing them the "sights" of Waterloo. There will be more events in the near future, so stay tuned.

As well, for those that missed my presentation on Mental Health-i-ness at the last EngSoc meeting, it has been posted on the website under "Society." Mental Illness Awareness Week is October 5-11, and I will be running a few events throughout to raise awareness for this very meaningful cause. Thanks to everyone who has reached out to me, it is greatly appreciated. I am glad to see that my efforts have gone a long way to get people talking about this very important subject. If anyone would like to get involved, please let me know, there is always something that can be done.

Finally, I would like to report that Justin Timberlake and the Rainbow-farting Unicorn have resolved their issues through counseling, and they were recently seen in public with a 3-headed dragon. It was a sight to be seen. And yes, that is what he said.



**SARAH SCHARF**  
VP INTERNAL

Hey, look at that, all of the work term reports have finally been handed in! Doesn't that feel good? Now that we have all those out of the way (Don't worry first years, I'm sure you'll do well when your turn comes), we can get back to the fun stuff, yay!

Your executive team and I have been busy making sure that all of your services and events are again run smoothly this term, if not now more than ever. We have all also been working together to write a consolidated Engineering Society Policy Manual. The policies included will not mean any extra work for students; it will just act as a guideline for EngSoc students and Executives. It's basically a Best Practice manual for how to run EngSoc and how EngSoc interacts with other groups. My part of the work includes updating/writing the poster policy, the directorship policy and the mailing list policy. If you're interested in knowing more about these or any of the new policies, come out to **EngSoc council meeting number 3 on October 8th at 5:30 pm**. This is when your executive team will be presenting the completed Policy Manual to council for approval, and any

questions regarding the manual will also be answered then.

This term is already looking really awesome in terms of planned events, and we still have some, as of yet, unplanned events to come as well. Open Mic ran last Friday in POETS and it went really well. Thank you to Marc Tan for planning that for us! Our first Enginuity event of the term will be happening next **Thursday September 25th** at lunch in the CPH foyer. Be sure to come and check out what is sure to be a very interesting lunch hour! Scavenger Hunt is happening next **Friday, September 26th**, and Hunters are wanted! Sign up now by emailing the organizers at [eng.scavengerhunt@gmail.com](mailto:eng.scavengerhunt@gmail.com). The cost is 30 dollars for a team and 5 dollars per person. I'm going, are you?

EngPlay auditions happened last week, and I was really excited to see the number of people that signed up for these. I can't wait to see what kind of hilarity comes out of Megan Pollock and Marissa Bale's team of actors this term. EngPlay will be showing November 20th to 22nd, so watch out for ticket sales!

Other events of note include the upcoming Bandwars, TalEng, Semi Formal, and Genius Bowl. Each of these events is being planned by some of my awesome directors, and are all going to be great events. Stay tuned for more info on these and other events coming your way this fall!

## VPF Report



**ADAM MELNIK**  
VP FINANCE

Hey, hey, HEY!! How you doin'? Frosh, welcome to the grindstone. Upper years, celebrate that one term closer to graduation this weekend! It's a battle well worth the effort.

The first Meeting of the term was thoroughly enjoyed by all attendees. I am happy to announce that the food only improves in quality and bounty. Please join us October 1 in CPH 3385 at 5:30 pm!

I would like to take this opportunity to invite Directors to submit Budget Proposals at this time. The deadline is September 29 and forms can be found online at <http://engsoc.uwaterloo.ca/www/society.php> and hard copies are

available in the Orifice. I also encourage you to jump the gun and submit Donation Proposals as well.

I am looking forward to accomplishing my goals this term. For those of you who missed the meeting, my goals include seeking RIM sponsorship of Blackberrys for EngSoc Exec, investing in major capital projects of interest to the student body including new outdoor electronic billboards, expanding Novelities UW Engineering apparel selection by ordering CLASS T-SHIRTS (START WORKING ON YOUR DESIGNS!!), and increasing the level of financial reporting and transparency to the student body utilizing our newly installed QUICKEN software!

I hope you all have an excellent term. Make sure to pop in at the C&D for a coffee and Novelities for your fall weather wear!



**DAVE HALFORD**  
VP EXTERNAL

Dave's Exec Report: now available in point form for your reading convenience and because after writing my work term report, I no longer believe in paragraphs.

1. I hope everyone had a safe and happy summer.

2. Welcome Frosh!

3. ESSCO VP Services, Mohammad Akhtar, resigned earlier this month due to personal circumstances; we wish him well in his future endeavours.

3. Tyler and I will be travelling to ESSCO PM this weekend in Oshawa, and hopefully we will find out more about the replacement for VP Services.

4. CFES has released their E-Bulletin for September and it can be found at <http://www.fceeg.ca/ebulletin/Sept-14-2008>

5. Charities is going to be awesome this term and may involve mustaches and the

month of November.

6. For the first time ever, we have a Women in Engineering (Undergraduate) Committee instead just a directorship. Places are still available on this committee so please contact me if you are interested in joining.

9. I need volunteers to join the committee to organize ESSCO's annual general meeting, which will be held at UW next June. The work load should be relatively light, but I do need people to help find sponsors, plan conference events, plan meals etc. Email me if you are interested in helping out. First years are encouraged to join in order to learn more about Eng Soc and ESSCO

8. Tyler Gale smells, Jeff Lipnicky has square eyebrows, Adam Melnik is tall, and Sarah Scharf is awesome, we welcome her again to our exec team.

12. I wrote this in 10 minutes because I need to leave for ESSCO PM right now.

Cheers,

Dave (the guy with the stupid pink Mohawk)

[asoc\\_vpext@engmail.uwaterloo.ca](mailto:asoc_vpext@engmail.uwaterloo.ca)

## VPX Report

# Basic Fix-Its: Changing a Bicycle Tire



**MICHELLE  
CROAL**  
2B CHEMICAL

If you have ever been faced with a broken anything, be it a computer or a bicycle and specifically belonging to someone else, and been asked the question, “You’re in engineering, why can’t you fix it?!” and been frustrated because, in fact, you can’t, then maybe this article is for you. In my experience, just because I’m in engineering, doesn’t mean that I’m at all mechanically inclined and that I instinctively know how to fix all broken things. Now, with both work terms and living on my own in student housing of questionable structural quality, I’m finding “knowing how to fix stuff” a more and more useful skill. Hopefully this article can become a column for this term, focused for those of us on campus who are secretly fix-it inept and need some tips.

To start with, the eventually unavoidable bike tire blow-out! Your trusty bike may be your preferred method of getting to class or for grocery runs, and may be brand new, your best friend since grade 6, or essentially a metal frame on wheels. If you’ve been lucky enough to never have a flat tire in the past, then listen up. WARNING! I cannot be responsible if you take your bike apart and then can’t get it back together! These are just guidelines, not a rigid set of instructions!

The first step should be to confirm the tire is leaking. If it is actually just very soft, then you could be fine with just re-filling the tire with air, especially if you’re

riding for the first time of the season as air may have leaked out during storage. While it’s possible to repair a (punctured) flat tire without removing the wheel from the frame, it’s usually much easier to just take it out. Take a look at what’s keeping the wheel on the axle. If it’s nuts and bolts, you’ll need a wrench or ratchet (15mm is common axle size, however trial and error works well too). Be sure to use the correct size, or you could ruin the sides of the nut and make it impossible to remove. If you’re not ready to commit to a wrench set, consider a decent adjustable wrench (about \$6) that can be used on many parts of your bike. Some bikes use Allen or hex keys, and others actually have a quick-release axle that allows you to take out the wheels fairly quickly (but these have tricks too). In general, if you’ve never touched a wrench or nut or screwdriver, remember “righty-tighty, lefty loosey” i.e. counter-clockwise to open.

The front wheel is pretty easy, it should just pop out. The back wheel can be intimidating, because of all the gears and chains, but just take it out carefully and observe how everything fit together so you can put it back. Also, be careful of your brakes, as they may be in the way of trying to remove the wheel. Generally, wiggling and lifting gently works well (don’t just rip it out!).

Once the wheel is off, you need to take the tire off and inspect the inner tube. You should be able to take the tire off fairly easily with your fingers, but tire levers are also useful. Tire levers are plastic devices with a rounded end that’s used for prying between the tire and wheel for taking off and putting on tires. Once you’ve got the tube off the rim, find the leak by pumping

air into the tube and listening for a hissing sound. You can also use the soapy water method (the leak will bubble), but you can’t patch a wet tube. Once you’ve found the puncture, you can either patch or replace the inner tube. Patching is very reliable when done properly, however for certain punctures, like slow leaks that are impossible to find, replacement is probably easier.

Patch kits contain rubber pieces and cement for sealing leaks on inner tubes. They should also come with instructions, so let’s move on. The biggest thing is to really make sure the cement dries before you apply the patch, and not allow any leaks between the patch and tube.

Before you reassemble everything, it’s really important to check the rim and tire. Sharp objects such as glass or thorns may still be present, and will only re-puncture your precious tire if you don’t look first and remove them. This is especially frustrating if you just went through this whole procedure already twice this week... Check the tire for cracks too, anything larger than 2mm means its time to replace it.

To replace the tube, it helps to have a little air in it to make it easier to go back on the rim. While you’re at it, make sure the tube is the right size for the wheel; you should not have an excessive amount of tubing to fold around and around (the correct size should be written on tire). Getting the tire back on can be the hardest part. Start by tucking one edge of the tire (the “bead”) into the wheel rim and work around. Then tuck the inner tube inside the tire by starting at the valve, working some of the way around, then back from the valve and the rest of the way. Getting the second edge

over is the worst and generally involves bruised fingers, swearing and struggle, but with practice it gets easier. Be sure that the tube is fully inside and is not twisted or misaligned. You can use tire levers to help get the tire back on, but be really careful and make sure they are NOT sharp as it’s very easy to re-puncture the tube. Working from alternate sides of the last section can help, but honestly it just takes practice.

Returning the wheel is hopefully the reverse of removing it... It also helps to leave the tire uninflated, to get through the brakes again. For the back wheel (which by Murphy’s Law is more difficult and therefore always the one to flatten), slide the wheel back in through the chain to the axle holders and reattach the chain to the gears, making sure it actually goes around smoothly. This may take a few tries, but again, wiggling seems to work well. For either wheel be sure to align it properly with the frame and brakes and TIGHTEN! I cannot stress this enough! You do not want your bike wheels to fall off in the middle of riding! This may seem dramatic but it has happened!

Finally, pump air back into the tire and take your bike for a test spin. If everything is fine, as hopefully it will be, you can then continue on with your cycling adventures! If not, you may be in the same boat as I am, with a cursed bike...

Also check out <http://sheldonbrown.com> as an excellent biking resource for a vast amount of easy bike fixing tips and other cyclist cultishness, as well as the SLC Bike Shop, where a flat rate of \$1 gets you tools and another \$1 gets you lubrication. King St Cycle and McPhail’s are bike shops on King St., with bikes, tires, parts, pumps and helpful staff.

## IW Goes Undercover: Campus Crusade for Cheese



**STUART  
PEARSON**  
2A CIVIL

In the midst of our first production weekend, there was a consensus among the Iron Warrior staff: it was time for a break from proofreading, and perhaps a snack was in order, too. To solve our dilemma, we decided to trek off towards the Math Building for an adventure in cheese.

The Campus Crusade For Cheese meets regularly at various locations in the Math Building to celebrate that most delicious of

dairy products. A \$2 fee gives you toothpicks, crackers, and samples of a wide variety of exotic cheeses. Engineers in attendance might find the whole ritual slightly reminiscent of EngSoc – there is an orderly meeting and even an Executive team including “Commander-in-Cheese”, “Big Cheese”, and the “Monterey Jack of All Trades”.

The meeting begins with a quick welcome by the Exec and an overview of the week’s cheeses. We had the good fortune of attending on International “Talk-Like-A-Pirate” Day, which led to an abundance of terrible jokes about “Havarrrrrti”.

Attendees then line up around the room at a series of stations, each with a different type

of cheese. This week’s selection included Vintage Smoked Applewood with Sundried Tomatoes, Smoked Mozzarella, Appenzeller, and even some Goat Cheese from Quebec. I was too afraid to try the Thai Curry Cheddar or Queso de Valdeon as they barely resembled my conventional definition of “cheese”-lumpy with splotches and generally quite suspicious. My personal favourite was the Saint Augustine cheese, because it was flavourful but not too overwhelming.

At the end of the sampling session, a vote is cast to determine the Cheese of the Week. Dill Havarti won by three votes, and will have the honour of returning again at the next meeting. Following the vote, requests are taken for oth-

er cheeses to sample during future meetings. However, we were warned that unfortunately, Venezuelan Beaver Cheese is simply not an option. Sorry Monty Python fans...

The Campus Crusade for Cheese is certainly a unique experience and is recommended for anyone with a flair for fancy *fromage*. If you’re not a big fan of cheese or are looking for a full meal, it’s probably not the place to go. However, for those who want to expand their culinary horizons, it is a great opportunity to dabble in a wide variety of weird and wonderful cheeses.

Campus Crusade for Cheese can be reached at [ccch.uw@gmail.com](mailto:ccch.uw@gmail.com) or through their Facebook group.

### Waterloo Cases in Design Engineering (WCDE)

WCDE is a group in the Faculty of Engineering that converts **work reports** into **Engineering Case Studies** for use in Engineering courses.

Work reports submitted electronically are worth **seventy-five P\*\*5 points!**

**[cases.uwaterloo.ca](http://cases.uwaterloo.ca)**

#### Sample Case Studies

All first-year concept courses are using these cases:

Hydro Quebec

- Alternative Energy Sources

Engineers Without Borders

- Alternative Drinking Water

Other cases currently in use include:

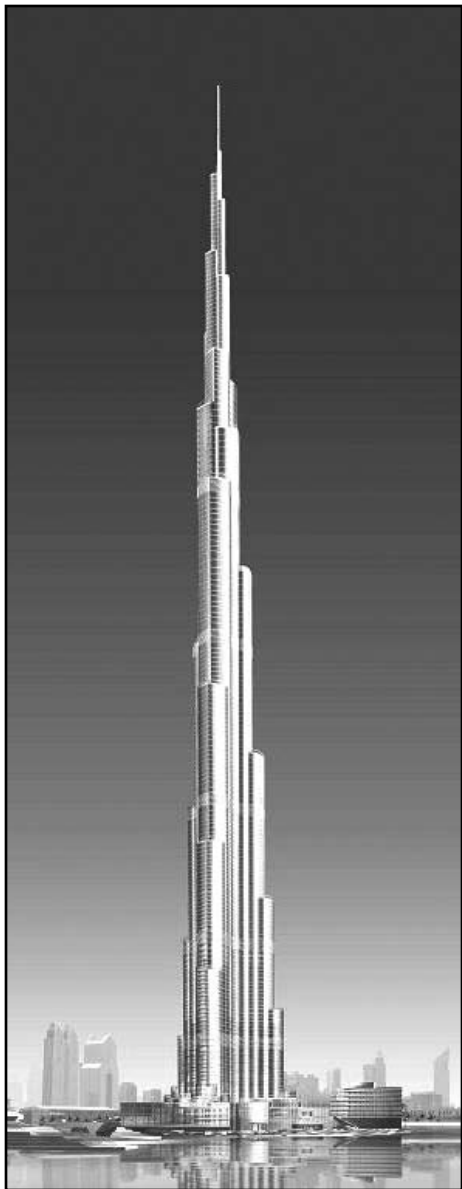
- Foot Brace Design

## Burj Dubai

**SUNJOT S. HUNJAN**  
1A ELECTRICAL

*"You see things; and you say, 'Why?' But I dream things that never were; and I say, 'Why not?'"*

This famous citation by George Bernard Shaw certainly makes every human realize and believe in his dreams. However, as a consequence of these dreams, a marvel like "Burj Dubai" is created. Burj Dubai is a sensation on the lips of every literate, and why not? After all it is going to be the tallest



www.burjdubaiskyscraper.com

man made structure building ever built. The building is part of the 2 km<sup>2</sup> (0.8 sq mi) development called "Downtown Dubai". This structure being built in Dubai is going to be as tall as 818 m and would have a floor area of about 3,595,100 sq ft. Its construction began on September 21, 2004 and expected to be ready for occupation by September 2009.

## P\*\*5: Challenge of Spirit

**P\*\*5 DIRECTORS**  
A-SOC

For the returning upper year students, it's another term on campus and another chance for class victory. You know what that means! Delegating class reps (EngSoc, academic, WEEF, etc.), organizing parties, submitting stories, engaging in friendly competitions, volunteering for events and designing any new way to show how awesome \_\_\_\_\_ (insert department here) 20\_\_ (insert graduating year here) is. As directors, we are excited for it all to begin again.

BUT before we get ahead of ourselves and talk about the prizes, the frosh and unaware upper years (we know you are out there) must be addressed. So from the top...

P\*\*5 (pronounced "P to the fifth") stands for "Paul and Paula Plummer Participation Points" and is a competition where classes earn points by going to events or acting in the spirit of engineering. For a complete

Apart from the invincible beauty, the technology used to create this exceedingly pleasant structure is actually highly advanced. The mechanical systems like electrical system and water supply system which have been installed are the best ever. The tower's peak electrical demand is estimated to 36 mVA which is equivalent to roughly 360,000 100 watt bulbs being operated at same time. Furthermore, it has a controlled evacuation system. The Burj Dubai will be the first mega high rise in which certain elevators will be programmed to permit controlled evacuation for certain fire or security events.

Looking at this mesmerizing structure, it makes one spellbound. Its lavish interiors and beautiful exteriors are no less than a royal palace. However, the budget for the exotic Burj Dubai project is about US\$4.1 billion and for the entire new 'Downtown Dubai', US\$20 billion. Mohamed Ali Alabbar, the CEO of Emaar Properties, speaking at the Council on Tall Buildings and Urban Habitat 8th World Congress, said that the price of office space at Burj Dubai had reached \$4,000 per sq ft (over \$43,000 per sq m) and that the Armani Residences, also in Burj Dubai, were selling for \$3,500 per sq ft (over \$37,500 per sq m).

The vision of Burj Dubai is what makes it even more interesting. Although a structure in Emirates, it is not simply the world's highest building. It's the epitome of the world's highest aspirations. It has varied significance for different people. For people in Dubai it's like a shining accomplishment- an authentic proof of Dubai's central role in a growing world. However, for people overseas it's a new symbol of a dynamic Middle East. In Burj Dubai, we see the achievement of Dubai, of achieving an impossible benchmark.

In a nutshell, at Burj Dubai luxury is built in. Go to world's finest restaurants by elevator, at your feet the world of cuisine, commerce and entertainment. In addition, the structure is of the best quality - the best materials, finest architectures and the work of most sought out designers. In the end, it may not be a stretch to say that Burj Dubai is a contender for the title of "Eighth Wonder of the World". It is not only an insignia of progress for the Emirates, but for the world. A vision this bold requires visionaries. Creating an attractive piece of structure that attracted the best designers this world ever had. As a consulting design partner at Skidmore, Owings and Merrill - the global leader in creating super tall structures- Andrian Smith has a hand in several of world's tallest buildings. With Burj Dubai, he and the world will surpass them.

list of rules and an updated list of approved activities visit <http://engsoc.uwaterloo.ca/www/p5.php>. You can submit your P\*\*5 points either in the form of an email to [asoc\\_p5@engmail.uwaterloo.ca](mailto:asoc_p5@engmail.uwaterloo.ca), or by placing the coupons in the P\*\*5 box, located at in the Orifice.

So, what's the point? P\*\*5 give you incentive to get involved in the Engineering Society here at Waterloo and use the services available on campus. AND not to mention the top three on-term classes win cash prizes for their class, to spend how they wish. Maybe even in the form of "Pop and Chips".

A-Soc P\*\*5 directors encourage you to get out there and participate. We are watching. Class standings will be released at MOT this Halloween in POETS. If you have any questions please feel free to email us. OK, begin!

## New UW Eng Campus in Dubai

**YOUSIF AL-KHDER**  
2A MANAGEMENT

As announced earlier by the UW Daily Bulletin, UW is planning on opening a new campus next year, in one of the world's construction hotspots, Dubai, United Arab Emirates, and not Abu Dhabi as previously announced.

Dubai, one of the 7 emirates which form the oil-rich UAE has been constantly in the news in the last few years, due to the boom in construction of several one-of-a-kind projects, and will also be the host of the new UW campus. This tiny campus will house two engineering disciplines, Civil and Chemical Engineering, while two programs from the Faculty of Mathematics are expected to follow a year later. These students will

complete their first two years of education in Dubai, and will later on join their classmates in 3A to complete the rest of their education.

The campus will be located off of Downtown Dubai, in Academic City, a newly developed area which contains state of the art facilities, and which also houses several other foreign universities, including University of Wollongong from Australia, and University of Phoenix from the US.

According to Dean Rothenburg, UW is going to maintain its academic standards in the UAE, which means that these soon-to-be Plummers will be taught the same courses as the ones we are taught here, and will be taught by Professors from the "mother campus" who are willing to travel and teach for a term or two.



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# We Did the Weird Stuff...



**LEAH SICZKAS**  
1A ENVIRONMENTAL

Upon beginning Frosh Week, first years are told they will remember this week for a long time. Why do you think that is? It's because – despite the Edcom treating us like cattle, being yelled at, being thrust violently into a massive number of students – the interaction with others and the planned events encouraged a vast amount of unforgettable memories. How many times can you tell someone you dug through a slick bed of mud to find pennies? How many times can you recall gambling underage? How many times can you admit to wearing a toga? If any of these have occurred more than once, I suggest you seek a counselor.

What else made this an unforgettable week? How about getting lost fourteen times in 2 days? Or developing an a-peelingly lovely sunburn because SOMEONE didn't warn you about all the activities that were to take place under the blazing ball of gas in the sky (Thanks a lot Bigs and Huges...). Mind you, Edcom did express

their true love and affection for us engineering frosh during Junk Yard Wars when they PERSONALLY provided sun screen to those of us who were sissies. PRAISE Edcom!

You know, we should feel sorry for Edcom. They're probably just tough on us – not only to delete our need to feel arrogant – but because they're lonely. If I believe the rumours that they are in the top 5% of their classes, I sure bet it's lonely at the top. The sunscreen incident displayed Edcom's true feelings for us. They really care about us; consequently, we should care about them. And their opinions basically count for life itself, so resistance in caring about them is futile.

If you're anything like me, you were faced with more people than you're comfortable with. Meeting face after face. Learning name after name. Do you remember the first five people you "met"? If yes, I commend you and your psycho photographic, tape-recording memory. For those of you who don't, I also commend you. Why? Because you survived Frosh Week! You're still alive and well enough to read this paper and you deserve a HUGE pat on the back.



Photos by Micheal Seliske

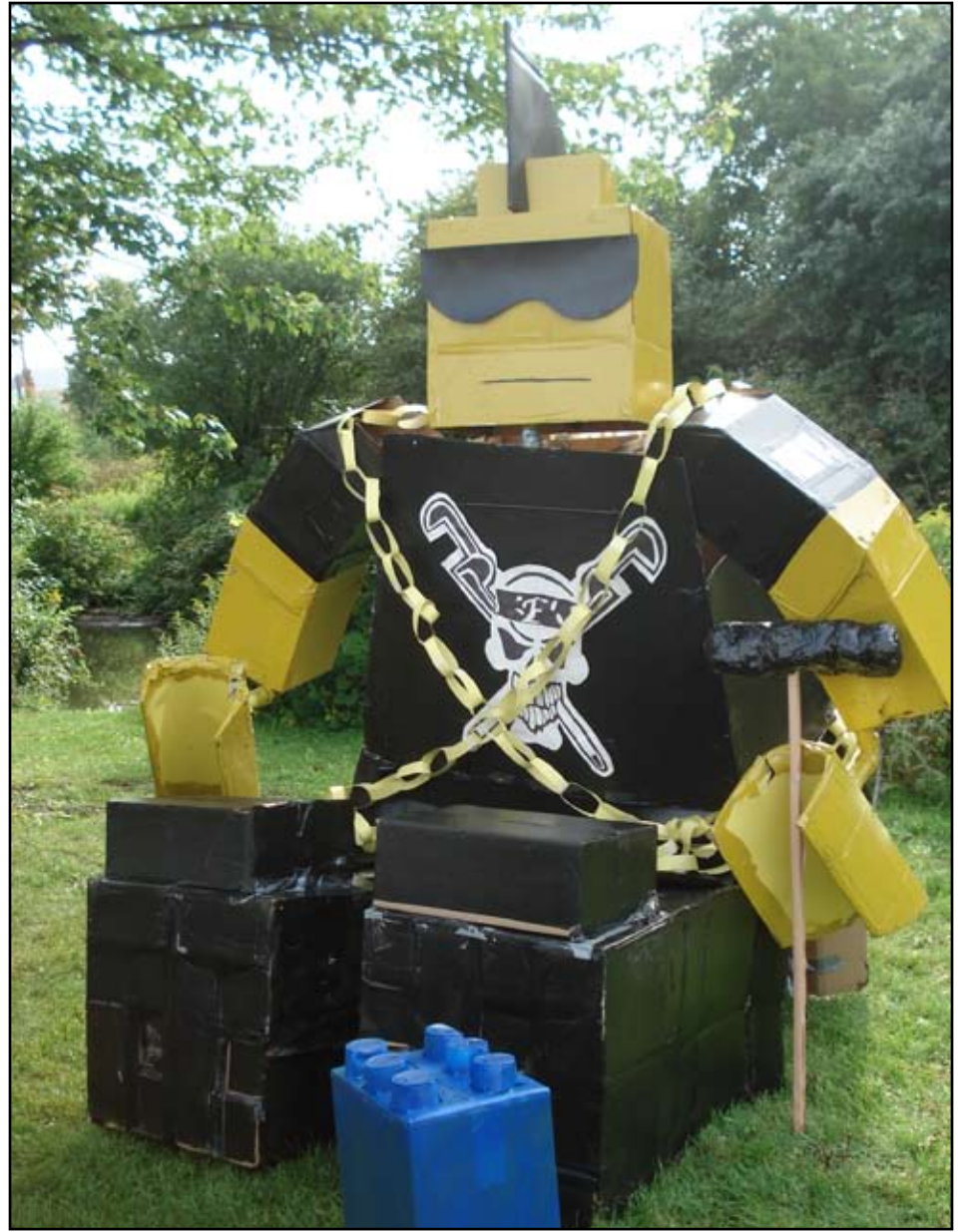


Photo by Kristen Roberts

## What A Week!



**JON MARTIN**  
1A CIVIL

Coming into a new school is always a scary prospect; getting lost in new buildings, meeting new people, getting lost in another building, brand new classes with teachers talking at the speed of light, and finally, getting lost in a building you didn't even know existed.

Seriously, once you figure out where you are and where you should be, I'm sure everyone will find the time to reminisce about the amazing, or for some people I expect, nerve-wracking, Orientation Week. As a lifelong resident of K-W the initial culture shock was minimal for me. I have met many people from small towns nearby and far away, as well as people from other countries. I can only imagine how homesick those people are feeling now. But I also know first-hand about the city they have moved to; there is a multitude of things to do and tons of great people to meet.

So, back to Orientation week, a few days so full of new people and great activities that the days seem to have blurred together in my memory. The first day of colour group activities was a ton of fun (Go Pink!), a chance to meet new people, some of which you will see again, and some who will now be lost forever in such a sprawling campus. When you do meet someone you know it is a great moment, which in my case is normally followed with the realisation that I forgot their name. The Earn Your Hardhat events were fun and entertaining. With Edcom offering their unique type of motivation, everybody put aside their squeamishness and quickly did their part in the many challenges. Whether you were part of the human tower, the giant game of water Battleship, or the race through the mud pit (thank-you Bigs for your sacrifices throughout), everybody had fun.

Variety Night had so many great things to see and do, but only two time slots in which to do them. I went to the video gaming

in SLC, which was moved from the main building in V1; a fact that no one bothered to spread to the leaders who were pointing us towards events. After I found it everything was great. In the 9:30 slot I went to the FASS Variety Show, a great mix of music, glow-in-the-dark juggling, acting, comedy music, and a great display of broadsword fighting from Medieval Times.

Thursday's colour group events made for another great day. Junkyard Wars was another event which stands out in my blur of memories. Having the opportunity to build something without worrying about structural integrity was a great way to mask the fact that the next few years of our lives are going to be filled with theoretical calculations (from what I saw, not many other groups were worried about their structures standing up either). Of course the highlight of Thursday was "Meet The Tool". The enthusiasm was great and The Tool Bearers were kind of scary, so it was a great 5 minutes. That night I had to explain to my parents why the engineering mascot is a 60" chrome plated wrench. Needless to say, I failed to capture the awe and power of our great mascot.

Monte Carlo night was also a lot of fun. Not being much for dancing, my friends and I spent most of our time in the PAC at the casino. Of course we had to get pictures with cardboard cut-outs of Captain Jack Sparrow and James T. Kirk. Monte Carlo night was also a great opportunity for people to dress up and have some fun, and there were definitely people taking that idea to the extreme. I am of course talking about the small troupe of zombies shuffling between the PAC and the SLC.

Overall Orientation Week was a great way to get to know the campus, and reach a point where you can walk around and feel like you belong. That is the feeling I get from everybody else on campus; we have been welcomed into the University of Waterloo, a place of learning and fun. Lets all enjoy the next few years and look back fondly on what is sure to be remembered as one of the best weeks of our university careers.

# A Bad Frosh Week? Hardly!

**SHELDON FERNANDES**  
1A SYSTEMS DESIGN

Good. Now that I have your attention, has anyone ever heard of a bad frosh week? I've always heard from students and staff from universities all over the world that frosh week will be one of the most memorable weeks of your life. Mine certainly was, and I haven't met someone who hasn't. I mean, it must have been pretty awesome unless you got knocked out or got injured or something. Speaking from personal experience, I got a black eye from Full Contact Calculus, and I slowed down during the rest of the Scunt, by not doing many rigorous physical activities or anything, but I still had a hell of a good time that night, and Saturday and Sunday as well.

Tuesday morning: 9:00am. Engineering frosh week begins. Of course, no one wants to get up that early, but it ends up being a great day. Bigs and Huges are just really cool to talk to. But you can't really say anything about engineering frosh week without mentioning Edcom. When you're sitting in that huge lecture hall, and people carrying weapons of mass destruction dressed in black shirts with skulls on them barge in, and just destroy a couple of computers, you just can't help laughing at the people that go "nooooo!" At first, they just seemed like normal over-actors, but over the week, they proved they were DAMN good at what they were doing. Earn Your Hardhat...we've all done it now, or most of us. Running around in the hot sun, walking in mud, it's just a lot of fun. Then the aerial photo...it takes quite a bit of co-ordination, and it can get pretty boring, but it's pretty funny listening to someone yell at you from many stories up. The next item is a little controversial, because there are people who skipped it, and missed a really good performance. Single & Sexy is sick. Sick in a good way. It's pretty cool that they keep updating the jokes to fit modern culture, and even cooler that they've been doing that for 20 years.

I honestly can't remember what I did Tuesday night. Maybe that's a good thing.

Not much to say about Wednesday...I don't know if there's anyone who enjoyed writing the ELPE. There have been some mixed comments about the Under The Sea, saying that the list of things to do ran out quickly. I didn't really think so, but then again, I was in the foam crowd for a long time, and didn't really check anything else out.

Junkyard Wars were amazing. And challenging. But mostly amazing. And Red won. Which made it more amazing. If you

were there, you'd know how amazing it was. Meet The Tool is a little overrated – but it is a really elaborate ritual, and it does get the blood pumping. "Requiem for a Dream" and "Back in Black" in the same context is pretty cool. The Monte Carlo was pretty memorable for me, just because of all the people I met there.

Friday...Scunt...Full Contact Calculus...black eye...as mentioned, despite the injury, I took part in the movie trailer. And honestly, anyone who missed the closing ceremonies REALLY missed out. I enjoyed the fairy tales that Edcom told us – the three headed dragon who always had b^n\$%, and his unicorn friend, who then shopping in the banana aisle...and the bread aisle...for buns. So many jokes going back and forth. I'd mention Edcom laughing, but I'm sworn to secrecy and I'll get hurt if I do. Damn. Awesome.

I slept in on Saturday, so I missed Black and Gold Day (I've got to sleep sometime!). But fast forward to the toga party. I've heard that it was SICK and that it was lame, so you'll have to decide for yourself. Personally, I found the DJ disappointing – he kind of synced songs in weird orders, and he switched to new songs just before the good parts. The DJ at Monte Carlo was really good, though, a lot of interaction there.

Last up is ComEng. Just like Single & Sexy, the Closing Ceremonies, and Junkyard Wars, if you were there, you probably had a great time, and if you weren't, where were you? It was really cool to see Edcom become normal people, and the second comedian lashing out at them was hysterical, but it was bound to happen, since he was talking about people walking all over him. All of the comedians were great, but the last one, Nathan Macintosh, was amazing. The kiss contest between two of the leaders got a little violent at one point, when a guy jumped on stage and missed the kiss and gave a head butt instead. Weird.

As far as improvements are concerned, I've heard several people say that a cross-town tour would be helpful. Other than that, it was sweet. As a frosh, I'd have to say the best part was meeting a whole new bunch of people. I have yet to meet someone that's legitimately unfriendly here, you say hey to someone, they say hey back. That's how it should work. Meeting new people is awesome. Just like Single & Sexy. Just like the Closing Ceremonies. Just like ComEng. Just like Edcom. Just like Frosh Week 2008. To the many, many organizers, from the bottom of the frosh heart, props, kudos, whatever form of "thank you" you want, you got it.



## First Impressions: Engineers Without Borders



**JULIA  
CHERNUSHEVICH**  
1A MECHATRONICS

Walking into this year's first Engineers Without Borders general meeting five minutes late, I was a bit embarrassed, but the feeling was overruled by my enthusiasm to get involved. The room was jam packed with students participating in a creative icebreaker – signature bingo! Everyone ran around with a card trying to find someone in the room who fit one of the descriptions they needed to fill up a bingo row. Being tardy, I only had the chance to sign a single block – “Can name 5 countries in Africa”.

The game was followed by a brief introduction to EWB's mission statement and a short video about the people involved with the initiative. Shortly, workshop participants were split up into teams to see where they belong within the internal structure of EWB. I had heard a lot about the club, but I didn't have too many specific expectations. I assumed that there would be a huge turnout of interested students, as well as a lot of returning members who have been involved with EWB for years. Being a first year, I thought that I would have to start small and undertake numerous tedious tasks to prove myself worthy of tackling larger responsibilities in the future. Fortunately, that was not the case. In groups, participants rotated around the room listening to all of the team information sessions. During one particular session, a specific responsibility sparked a flame in my mind. The

Education Team has an open Directorship position that involves keeping in contact with one of EWB's volunteers currently in Africa. Just to think that I could be the main contact with a soon-to-be-friend in Africa! Shortly, I applied for the directorship. I did not want to stop there, so I wandered through some other info sessions, and eventually realized that I would be pleased to join any of the departments.

EWB is an organization where just about anyone can find something of interest. From volunteering with the chapter's Bananafest to managing the various keynote speakers at the national conference, and talking to the media, one is bound to find something he or she would love to work on.

Upon hearing the stories from some of the members, I was able to find out about how some of the involved students joined EWB. As it turns out, some members could not be bothered about development issues when they joined; they joined for the sole reason of getting involved, and having a chance to work with their friends. Only later did they gain a passion for international development and contributing to a cause, let alone volunteering abroad.

So if you're thinking of getting involved, I would most certainly recommend EWB – it's fun, there's a commitment level to suit everyone, and overall, it's just a great place to meet other fascinating students! Oh and I almost forgot, it's not just for engineers, anyone can get involved. Check out posters across campus for info about upcoming meetings and events or visit [uwaterloo.ewb.ca](http://uwaterloo.ewb.ca).

## Wanted! Work Reports! Now Worth 75 P\*\*5 Points

**CHRIS TOGERTZ**  
4N CIVIL

The Waterloo Cases in Design Engineering (WCDE) group says on its website that “Our mission is to develop a culture of learning excellence by using the philosophy of design and the mechanism of cases.” This article will very briefly describe what a case study is, then get into how you can submit your work reports and what you can get out of it!

### What is a case?

An engineering design case study, or case, is a description of an actual situa-

tion experienced by an engineer (or an engineering student!). Cases offer an exciting opportunity to learn engineering concepts in real contexts: real situations with real data demonstrate the relevance of course concepts.

### How can I submit my work term report(s)?

Visit [cases.uwaterloo.ca](http://cases.uwaterloo.ca), fill in your information, and upload your work report! If the WCDE group does like your report and wishes to convert it into a case study, you and your employer will be contacted. This ensures that no confidential information is at stake and that everyone is comfortable with the case

## A Learning Organization Engineers Without Borders in Malawi



**MEGAN  
CAMPBELL**  
SYSTEMS DESIGN 07

I'm sitting in a training centre in central Malawi. A warm breeze is blowing through an open window into a roomful of government health workers. Their eyes are glued to a guest facilitator from Concern Universal (my partner non-governmental organization) who is walking them through a new monitoring system that I've helped design. I'm trying to appear attentive, but the truth is it's hard to pay attention when everything is in Chichewa (Malawi's national language) and all I've learned so far is how to order a beer and say “thank you”. This training session is two days long, and when they've finished, the health workers will train 514 villages to fill out the new forms that go with the new system.

I graduated from Systems Design Engineering last year and the fact that I'm in this humid room, in a foreign country, listening to a facilitator I can't understand seems perfectly normal.

Being a System Design Engineer, I like feedback. It lets me know what's going on in a system and whether or not the inputs I'm feeding in are giving me the outputs I'm looking for. Without feedback, us System Designers would be out of work and those circuits labs would be a big waste of time (not just a pain in the ass). But how do you get feedback from a system that's unimaginably complex?

I work with a water project that deals with 514 villages – that's over 200,000 villagers, most of whom farm maize and tobacco. They work hard, and CU tries to help them access clean drinking water and improve their sanitation. CU inputs new boreholes, subsidizes cement and provides training in these villages with the hope that people will start washing their hands or covering their latrines with concrete slabs so that they're less likely to collapse. There's little doubt that those are valuable outputs; it's estimated only 64% Malawians have access to a basic latrine, and going

study being published.

### What do I get out of it?

Yeah, I knew that you would skip to this part.

You get 75 P\*\*5 points for EACH report that you submit to the WCDE group electronically (see the instructions above). We're looking for current and previous work reports and for 4th year design project reports.

Let's put it this way – if you are in

‘free-range’ means that the rainy season washes all those ‘damages’, as locals call them, into water supplies. People use soap for cleaning dishes and their clothes, but rarely use it to wash their hands. But how does CU know if those outputs are happening? How do they get the feedback?

In the previous system that CU used, this was a problem. Monitoring forms were returned late or not at all by villages, the data was often wrong and staff didn't know how to analyze or use the information they received. Two other EWB volunteers and myself worked with CU's staff to create a system that helps villages track information so that they can fill-in monitoring forms more easily and accurately. Most importantly, we have helped staff concentrate on the most critical information and taught them how to analyze it in a useful manner.

This system is the first step in the partnership between EWB and CU. I learned the hard way in circuits that it's not enough to get the feedback – if the little light at the end of your circuit doesn't light up, you need to learn from it and change your circuit. Just as it can be hard to put the time into learning when you're a student, many Malawian NGOs have difficulty focusing on learning. Most of the time it's all CU can do to balance meeting stringent reporting requirements, obtaining funding to keep afloat every year and managing day-to-day activities. That being said, it's vital that they do keep learning; we don't yet know how to get people to wash their hands, or use latrines all the time. My vision for my time in Malawi is to help CU develop the processes, systems and staff skills it needs to be a learning organization.

*Megan graduated from Systems Design Engineering in 2007 and is currently working in Malawi on a two-year placement with Engineers Without Borders. This is her first article in a series on her life in Malawi – for more stories (including how she accidentally crossed the Mozambican border, how she had a rooster as a roommate, and how she is increasingly fascinated with human excrement), see [whereismegan.blogspot.com](http://whereismegan.blogspot.com).*

third or fourth year, you've got a few work reports already. And so do all your classmates. If you can get a good portion of your class to submit reports, you're going to get a TONNE of P\*\*5 points!

### For more information...

You can visit our website at [design.uwaterloo.ca](http://design.uwaterloo.ca).

If you have any questions, you can email Chris: [design@design.uwaterloo.ca](mailto:design@design.uwaterloo.ca)

# POETS

## MOVIE SCHEDULE

SHOWINGS BEGIN AT NOON

<b>Monday Sept. 22</b>  <b>Road Trips</b> Little Miss Sunshine The Blues Brothers About Schmidt	<b>Tuesday Sept. 23</b>  <b>Monty Python</b> ...And Now For Something Completely Different Life of Brian Holy Grail	<b>Wednesday Sept. 24</b>  <b>Musicals</b> Shaun of the Dead Mamma Mia Across the Universe	<b>Thursday Sept. 25</b>  <b>Batman</b> Batman Begins The Dark Knight	<b>Friday Sept. 26</b>  <b>Toronto</b> The Sentinel The Love Guru Canadian Bacon
<b>Monday Sept. 29</b>  <b>Alternate Realities</b> Pleasantville Clockwork Orange 1984	<b>Tuesday Sept. 30</b>  <b>Montreal</b> The Whole Nine Yards The Score Bon Cop, Bad Cop	<b>Wednesday Oct. 1</b>  <b>Guess the Theme!</b> Speed Racer Transformers Happy Feet	<b>Thursday Oct. 2</b>  <b>Superheroes</b> Hancock The Fantastic Four The Fantastic Four: Rise of the Silver Surfer	<b>Friday Oct. 3</b>  <b>Open Mic</b>

# POINT VS. COUNTERPOINT

## POINT

### Should Bottled Water be Banned?

## COUNTERPOINT



**SYLVIA WU**  
1T MECHATRONICS

It's about time that the Region of Waterloo starts endorsing tap water by banning bottled water sales in city buildings and some city-sanctioned events, after fellow Ontarian cities like London, Guelph and Ottawa already taking similar action earlier this year. This decision marks a great step in making the region a greener place to live, and will likely be a factor that inspires more communities to join the battle against plastic bottles.

I can't count enough benefits that the ban brings. There are many reasons why bottled water should be drunk as infrequently as possible. The harms that plastic bottles do to our environment places top in my list. Canadians consume more than two billion litres of bottled water each year, and according to recent statistics, more than 85% of these bottles are not recycled. They end up in landfills where they are often incinerated to reduce space, and it should be obvious that burning plastic is a terrible idea: toxic chemicals are released into the air; they also ultimately end up in our lungs.

The plastic bottles that never make it to the landfill end up on the streets, in the wilderness, in lakes and oceans. According to Green Peace, 10 percent of all plastic produced globally end up in oceans. There is an expanding island of plastic debris bigger than the province Quebec floating about 900 kilometers off the coast of California.

I witnessed an act of plastic bottles-gone-wild on a smaller scale (but no less shocking) back in August. Jack Johnson, a Hawaiian musician who consciously partners with environmental activists in touring and promotion, came to Burl's Creek Park, Oro, Ontario on August 3. The concert-attendees were encouraged to bring their own bottles to fill up at a water truck on site, and very attractive metal reusable water bottles were sold at the memorabilia booth. There were plenty of community advocacy groups that distributed materials to encourage drinking tap water and recycling before the concert started (I was one of the volunteers). However, after the concert I witnessed thousands of plastic water bottles being left behind on the grass, and although some concerned fans stayed late to help with the clean-up, most of the discarded bottles ended up in waste instead of recycling bins (there were simply not enough).

Plastic don't biodegrade. They take up to hundreds of years to break down by photodegrading, which is the process that allow plastic to decompose into smaller and smaller pieces under the exposure of sunlight. These tiny bits can soak up toxins and are often consumed by marine animals and birds. According to David Suzuki and Faisal Moola, "more than a million birds and marine animals die every year from eating plastic waste." It's not hard to imagine how these toxins are subsequently introduced into our food chain via scavengers and larger predatory animals.

Environmental factors aside, the plastic water bottles contribute to our global energy crisis. According to the Sierra Club of Canada, the average energy cost to produce and ship one plastic bottle of water equals one-quarter bottle of oil. U.S. citizens go through 31.6 billion water bottles a year, which takes more than 17 million barrels of oil to produce. That's enough oil to fuel 1.5 million cars for a year. In this sense, the war in Iraq is really about getting more non-renewable resources to bottle over-priced water!

By banning bottled water, the Region of Waterloo is also prompting its residents to choose the healthier/safer way to satisfy one's thirst.

Bottled water may be more harmful than tap water. Bisphenol A, the chemical that gained much fame recently, is found in clear polycarbonate single-use and some reusable water bottles. This chemical may be responsible for childhood development problems, ovarian and breast cancers, and the feminization of males due to its effect of mimicking estrogen. The debate on the danger of BPA in food containers is on-going, but I'd better be safe than sorry.

Waterloo water is one of the least popular in Canada, with just 16 percent of local households drinking straight from the tap. I personally filter tap water at home before drinking, but when a Brita jug is not handy, I do not fear the water from fountains. The regional councilors who voted for the ban clearly want to promote the idea that Waterloo water is safe to drink: af-



Photo by Sylvia Wu

ter all, lots of brands of bottled water are just... tap in a bottle. Next time you get a bottle out of a vending machine, read its label carefully. If it says "from a municipal source" or "from a community water system" then it is pretty much tap water. Bottled water is highly over-priced for this reason: it is more expensive than a comparable amount of gasoline. It is interesting to see the gasoline price hike broadcasted so often yet no one protests the blatant rip-off of bottled-water consumers.

To wrap things up, I would like to applaud the region's efforts in reducing the consumption of bottled water. Every resident benefits from this decision in the long run. For those who still distrust tap water, invest in some sort of filtering system instead—they are as cheap as \$10, but you would do the environment, your wallet, and your own well-being a huge favour in the long run.



**TREVOR JENKINS**  
2A MANAGEMENT

Waterloo Region council recently voted 13-0 vote to ban the sale of bottled water from all Regional buildings and events in an effort to promote the use of tap water, and limit the amount of plastic bottles that go into landfills and recycling facilities.

People choose to drink bottled water over tap water as they regard tap water to be unsafe. Regional staff countered that tap water is safer than required by regulations. While the water the Region puts into pipes might be "safe", the water that comes out

highest percentage in Canada and 19% over the national average, and have the lowest tap water usage in Canada. It is obvious that the ban on sales only at Regional facilities will have very little impact, since the majority of the 150,000 bottles of water consumed in the Region everyday are done privately in homes. If the ban was to limit the flow into landfills, then the Region would not have chosen to specifically target bottled water, while bottled pop, juices and other beverages are still going to be sold without penalty. As well, the Region is still permitting Regional personnel to bring bottled water with them to work, which contradicts their entire stance.

Supporters of the plan also say that companies are making huge profits on sales since it only takes half a cent to fill a bottle, but it sells for anywhere between \$1-\$2, while public water is the fraction of the cost for essentially the same product. However, in our capitalistic society it is up to the people to decide whether or not they're willing to pay the price to get the product. Some people are fine driving a '88 Honda Civic while others would rather have a '09 Porsche 911. Both cars get us from Point A to Point B in the same time, but there's a clear distinction between the products being delivered. It's no different with bottled water: those willing to pay for the chance to get a product they see as "superior" should have the choice. It's no secret to anyone that public bottled water is expensive, but if people are willing to pay the price, is there really anything wrong?

Finally, the Region's effort to promote the use of tap water by limiting the sale of bottled water is counterintuitive. The Region says its product is cheaper, better for the environment, and safe, however when they went to action, the only means to go about showing this was to ban the competition. This is basic playground bullying where if you don't like something, you just try to get everyone to turn on it. The council's decision to take the easy way out instead of letting the public opinion dictate what happens clearly shows a lack of basic respect for what citizens want. To be fair though, council said it will be launching a public awareness campaign about the benefits of tap water; however no solid plans about it about are available, and it is coming out AFTER the ban was approved.

Overall, Waterloo Region's ban on bottled water as a way to "promote" tap water is a poorly planned attack at the bottled water industry. Citizens have already made themselves clear by making the Region the number one consumer of bottled water with 46% of citizens drinking it exclusively. If you choose to believe in the phrase "money talks" then you'll agree that citizens have already been lecturing on why they support it.

**MORE THAN JUST COFFEE & DONUTS**

.....

The EngSoc C&D has more than just Coffee and Donuts. Stop by for a variety of freshly prepared sandwiches, baked goods, soups, and more! It is run by students for students, so the prices can't be beat!

There are a variety of specialty coffees available - including fair trade. Bring your own mug to help the environment too!

**ENGINEERING SOCIETY**

**HOURS OF OPERATION**

MONDAY-THURSDAY 7:30AM - 7:00 PM  
FRIDAY 7:30 AM - 5:00 PM

**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.

the Region like Uptown Waterloo, Downtown Kitchen, and Galt. This water ban will also fail to limit the number of plastic bottles that go into landfills and recycling facilities. 46% of Waterloo Region households already rely solely on bottled water, the

## Fashion and You



**BRYAN SACHDEVA**  
4N COMPUTER  
**ERICA WAUGH**  
4N CIVIL

Seeing as how well this went over on B-Soc, we thought we'd let you A-Soc-ers in on a few hints. As students, we often forget that we are going to be professionals someday. As a result, we tend to fall short in the fashion department. We look around engineering and we see sweatpants, ripped jeans, and (\*shudder\*) Crocs. Come on guys, have we lost respect for ourselves, our profs, and our peers? We may just see these people as our friends but they may be a valuable connection in the future. Please guys – put some effort into your looks, it is not difficult. Dressing well is a great and easy way to boost your self-confidence. Having a personal style makes you unique and helps to attract positive attention. These ideas may appear shallow but taking time to look presentable shows self-respect and respect for others. Spending a few extra minutes in the morning can do wonders and requires minimal effort. In time it will become second nature. Here are a few simple ideas to help you on your way to fashion triumph.

**Simple steps for Girls:** So ladies... I realize there are only a few of us but let's show these boys that we can still hang on to our femininity while being intelligent and professional. First things first, showering. Showering every day is necessary, washing your hair every day is not. Shampoo dries your hair out so if your hair can handle it, shampoo every other day. Conditioner makes your hair soft and manageable; you don't have to use it every time you shower but a couple of times a week is recommended. If you have shorter hair, washing it every day will make it easier to style. Also consider purchasing shampoo and conditioner for your specific hair type. Herbal Essences has a new line that caters to many different hair types (frizzy, coloured, thin, and curly).

Next, wash your face... with face wash. Keeping your skin clear makes you look cleaner and healthier. I recommend Nivea 3-step system, available for dry and normal skin. Please pay attention to use face cream on your face and not hand or body cream; the skin on your face is much more sensitive than all your other parts. Stick the wash in the shower and you are good to go.

After this comes make-up. Many girls are afraid of make-up and just refuse to wear it. There are fears of break-outs or allergic reactions. Well girls, there have been innovations since the 60's. There are also many lines of hypo-allergenic make-up (Clinique is a popular choice). A simple place to start is with mascara, it brightens up your face and it doesn't even look like you're wearing make-up! In addition, evening your complexion with a light cover-up will brighten up your face. For an easy alternative, consider a tinted moisturizer, it adds some colour and smoothes your skin out nicely. A few other simple things to consider are keeping your finger nails tidy, short and clean. It's easy and for god's sake – QUIT BITING YOUR NAILS, it's gross and unattractive. Also, it is still warm enough for sandals – keep your toes nice and trimmed, if you're feeling adventurous toss on some nice polish. Everything I have mentioned requires very little time and it should not interrupt your morning routine very much. None of this is very hard to do and it's a great way to get out of that fashion gutter and into the bright lights of style success!

**Simple steps for Boys:** Gentlemen, style and personal hygiene deserve your attention. Developing good habits in these ways

doesn't make you less of a man or "girly". Thinking it does is a rude and offensive excuse that you might be tempted to use, but shouldn't. Who defines what looks good? Not me. But most people have a general sense of what looks appealing. That's the key: appeal; the quality of drawing positive attention. If you're convinced for now, then here are some general tips:

Personal grooming is not as much of a chore as you might think. Your gut intuition might lead you to think like Jeff Lipnicky, "I use shampoo and conditioner, yes. But I don't use a 'product' for my face". If you can relate to that sentiment then you deserve congratulations for making it passed the first hurdle. Showering is an important step to take. The male body does not produce pleasant smells, and you know it. Taking a quick shower can help. My recommendation is to take a shower daily, preferably in the morning so you can start the day fresh. Showering, and doing everything I'm about to mention will only take you about 5 to 10 minutes.

Bar soap is not your friend. Studies have continually shown that it dries out your skin. Instead, opt for a body wash. (Hint: look for the word 'moisturizing'). Now, I'm not saying you need to go so far as to use a loofah (those textured sponges), but body wash instead of soap is an easy change.

You wouldn't use water as windshield-washer fluid (you could, but everybody knows that's bad). By the same logic, soap is not meant to go on your hair. Shampoo is specifically designed to clean your hair, while conditioner is designed to restore moisture and nutrients. Avoid shopping by smell. I highly recommend Head & Shoulders' new line of separate shampoos and conditioners. 2-in-1's do not work as well as you might hope. As Jaelyn "jmarsharp" Sharpe points out, "the very concept is analogous to putting gravy on your dessert and eating it first". The two steps need to be separate for them to work.

Acne is God's way of punishing people who think themselves too cool to use a product. People like touching soft skin, it's a fact. To get that kind of skin, you need to use something to help clear out the dirt that accumulates from pollution, dead skin, and being an engineering student. I recommend Neutrogena's daily exfoliating scrub for your face. It tingles so you know it is working. After your shower, use a daily facial moisturizer.

Finally, you will want to keep your facial hair under control. If you have a beard of some sort, keep it tidy; this also goes for the scruffy look. Using shaving gel followed by aftershave makes shaving very painless and keeps the hair away longer. For the hair on top of your head, the new "in" products are wax and pomade. Just a dab and quick playing with your hair is all you need. I do not recommend gels or mousses since they weigh down your hair and typically need a lot to work well. If you don't want slick hair, then try Fructis' "Surf Hair" texturizing crème. Now comes your eyebrows... the rule-of-thumb that aestheticians use is to make a line from your nose to the outer corner of your eye. They say that your eyebrows shouldn't go past that line. Don't be afraid of tweezers and make sure you have two distinct eyebrows.

We hope you enjoyed our tips and give them a try. If you have any questions about this article or any other fashion crises you are faced with please feel free to email us for advice! Stay tuned for our next article when we give some tips on updating your wardrobe, everyday style, and fashion do's and don'ts. Not to worry, next issue's article won't be a blatant copy/paste of an article we did from last term. We'll be giving specific advice on fall fashion trends!

Love you bitches, Erica & Bryan.

## Iron Chef No-Effort Enchiladas

**ADRIANA CAMERON**  
2A CIVIL

I promise you that this recipe does not require much effort, and it is hard to screw up. This recipe makes 12 enchiladas, which feeds about 4 people.

### Ingredients:

1 onion (Chopped)  
4 garlic cloves (Mince them)  
3 tablespoons vegetable oil  
1 (16 ounce) can black beans, drained and rinsed  
1 (16 ounce) can pinto beans, drained and rinsed  
1 (16 ounce) can enchilada sauce (You can get mild, medium, or hot, depending on how you like it)  
1/2 cup of salsa  
3 teaspoons cumin  
1/4 teaspoons salt  
a few dashes of pepper  
12 flour tortillas  
2 tablespoons water  
2 cups shredded Monterey Jack cheese

### Directions:

- 1) Pre-heat oven to 350 °F.
- 2) Sauté onion and garlic in oil until onions are softened.
- 3) Put half of each type of bean in a medium sized bowl. Mash the beans, then add the remaining beans but don't mash them.
- 4) Transfer the beans to the frying pan. Then add 1/2 of the can of enchilada sauce, salsa, cumin, salt and pepper. Simmer and mix on low heat for about 3 minutes or until heated through.
- 5) Fill each tortilla with about 3 tablespoons of the bean mixture and a sprinkle of cheese. Roll up and place them seam side down in a greased 9 x 13 inch baking dish.
- 6) Mix the 2 tablespoons of water with the remaining enchilada sauce and pour evenly over the tortillas.
- 7) Sprinkle with remaining cheese on top of the enchiladas and bake, covered with foil for about 20 minutes

## Hey mathNEWS! Yeah that's right, I am talking to you!



**MICHAEL SELISKE**  
1T COMPUTER

Yeah that's right, I am talking to you!

I was surprised when I saw that the math publication, *mathNEWS*, had a badass picture of an engineering Edcom smashing a robot mascot with the caption "Edcom search for a heart, first-years suffer". With a name like *mathNEWS* you would think that maybe a picture of Tie Guard or Math orientation leaders would be more appropriate then promoting Edcom and how wicked they look. I guess a picture of some people sitting in a tent guarding a pink cloth is not exciting enough for the cover. I am a little confused about the caption as well – frosh suffer? I am pretty sure that although Edcom carry shovels, large wrenches and baseball bats, it is just for showing that they are prepared for anything. If a hole needed digging, a baseball game played, or a stake hammered into the ground, Edcom would be prepared. If they were really trying to make people suffer they would be carrying water torture devices or finger nail spreaders.

Inside the issue, there is a full page

comic about The Toolbearers and The Tool. The comic is very well done and the art is pretty good but the basis is really strange. They refer to The Tool and its Bearers as a cult following called the Weapons of Mass Delusion, and the comic ends with "and so begins the Battle of the Faculties...". I know that it's just a comic and it shouldn't mean anything, but a "Battle of the Faculties"? Really... The horoscope is also a little rude, reading, "it's that time of the year again. Fall is once again upon you and the labs are waiting. However, this doesn't seem to concern you right now, you have just found someone who might actually be interested in listening to you brag on and on and on."

In the S08 #3 issue of the Iron Warrior, Sylvia Wu included a short comment in her article about WEEF and the 8.5x11 photocopied publication. *MathNEWS* mentioned it in 4 of their articles in the next issue. 25% of a publication for a small comment, I can't wait to see what an entire article merits.

There it is *mathNews*, I look forward to reading your next issue.

*Michael Seliske*

(These views were my own and do not reflect those of the Iron Warrior or the Waterloo Engineering Society and this rant was severely truncated due to space restrictions)

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# Better Know A Beer: Chimay Red



**RORY ARNOLD**  
4A MECHANICAL

So I see that the *Imprint* now has a beer writer who has titled himself "The Beer Snob". This is a topic I really struggled with over the past few months. I never wanted to call myself a beer snob or beer connoisseur, as I don't want to be compared to those liberal wine snobs. I also didn't want to call myself a beer enthusiast because that just makes me sound like a drunk. That's when I came up with it. I am a beer adventurer. The reason for this is, to me, beer is not just a way to slowly kill my liver (and better my heart), but rather an adventure. It's a historical adventure, like when you're drinking Weltenburger Kloster Asam Bock, which has been brewed at the same German abbey since 1050. If you can't picture how long ago that was, the Battle of Hastings was still 16 years away. It's a geographical adventure, like my summer in British Columbia where I tasted over 130 different beers, including some of the best beers in Canada. It can also be a spiritual adventure. Some of my best personal growth has come over a few pints with friends.

Normally I like to do a beer I haven't tried for my column, however when I went into the LCBO and found they had one last bottle of Chimay Red I knew I would have to break that rule. Chimay Premiere, or Red as it's called in North America, is one of my favourite beers ever since I had it for the first time back in the winter.

Chimay Red is a Trappist ale, which means it is brewed by monks of the Order of Cistercians of the Strict Observance. This is a sect of Catholic monks who follow the Rule of Saint Benoit from the 6th century. There are currently 171 Trappist monasteries but only seven of them brew beer. Six are in Belgium – Chimay, Orval, Rochefort, Westmalle, Westvletern and Archel, and one is from the Netherlands – Tilburg under the La Trappe name. Since there are so few Trappist abbeys, and their beer is considered some of the best in the world, they set out a set of rules your beer needs to adhere to, to be considered a true Trappist ale. Firstly, the beer must be brewed in a Trappist abbey by or under the supervision of Trappist monks. Secondly, the monks must control the brewery. Finally, the breweries must be not-for-profit. In fact, a bottle of Chimay states that all profits go to the monks' charitable works. All Trappist beers are ales and are bottle-conditioned which means they

are unfiltered or have yeast re-added before bottling. This is so carbonation does not need to be added giving the beer a fresher and less fizzy texture. This also reduces the shelf life of the beer however.

Monks have been brewing beer since the dark ages, and it is estimated there were over 500 monk breweries in 1000. Beer was the drink of choice since the water was often unsanitary and, with the barley grains, beer was a healthy alternative. It is thought that monks were the first to add hops to beer. However in the later Middle Ages the monk breweries had trouble keeping up with demand and lost ground to larger commercial breweries. Moreover, during the French Revolution many monasteries were destroyed. So next time you see a Frenchman kick him because his people tried to rob you of some great beers and tried to force you to drink wine and eat croissants. World War II saw the destruction of any remaining monk breweries in France. Even the brewery at Chimay was raided and forced an evacuation.

The abbey at Chimay is known as the Abbey at Scourmont and opened in 1850. They started brewing beer in 1862 and along with their cheeses, they are one of the most famous Trappist monasteries in the world. Along with their Red, they also brew Chimay Blue

or Grand Reserve which is a strong 9% and should be aged; Chimay Tripel or white (8%) and Chimay Doree (4.5%) which can only be purchased at the monetary or in the neighbouring town of Auberge de Poteaupre. Chimay Red is a dubbel. The terms dubbel (double), and tripel (triple) refer to the strength of the beer, with a tripel being the strongest traditional beer. Initially, the monastery helped start many industries in the area with the monks taking an active role. Since then they have withdrawn to focus on the beer and cheese-making at the Abbey. One of their most famous cheeses has its rind washed with Chimay beer.

Chimay Red needs to be poured in a wide mouth goblet so you can get the full fruity aroma. It should form a good amount of head if it's fresh and leave a good Brussels lattice on your glass. It pours a nice red colour with a brownish tinge. Tasting it gives a malty taste with a strong flavour of fresh fruit with a banana undertone. It has just a hint of bitterness in the aftertaste to remind you that you just drank a great beer. Since the beer is unfiltered and not pasteurized, expect some yeast at the bottom of the bottle. This is one of my favourite beers for a few reasons. One is its exceptional taste, and the other is it combines the two things I need to get through exams: praying to God, and alcohol.

## The Old Prince Returns



**JON RADICE**  
2B CHEMICAL

Pop quiz, hotshot: name two Canadian hip hop artists. Some of you probably got Cardinal Offishall, and maybe some of you may know K-os or K'NaaN. But other than that, Canada has been pretty void of energetic hip hop talent.

Until now.

Meet Shad. A Laurier Business grad, Shadrach Kabango started his career by sending a demo to a "91.5 The Beat" contest panning for local talent back in 2005. Within the year, he cut his first album, *When This is Over*, and began playing locally around southern Ontario. Flash forward to 2008; Shad released his Juno Award-Winning second album, *The Old Prince*, cut his first music video single, the *Fresh-Prince-of-Bel-Air-Parody The Old Prince Still Lives at Home* which has been getting regular play both on Much Music and on Youtube. Shad reached out to his Waterloo roots and played a show with Hey Ocean! at the Starlight on Thursday September 18th. With the club packed to the gills, these guys were ready to put on one hell of a show.

After the first act, two local Waterloo Rappers Just-is and Mantis got the crowd warmed up with some decent beats. Hey Ocean! took to the stage right after to a warm welcome. To the uninitiated (like myself before Thursday night), Hey Ocean! is a Vancouver-based indie quartet that can be best described as Rilo Kiley, if Rilo Kiley replaced Fleetwood Mac with a world music/ska beat (obviously for this comparison to work, one must be familiar with Rilo Kiley, Fleetwood Mac, world and ska music). The lead singer Ashleigh Ball pounded some beautiful tunes while utilizing a xylophone, flute and even a triangle to produce some endearing, funky tunes. While not being a big fan of the genre, I was definitely digging their sound, a great mix of old and new sent straight from the West Coast. Even Shad came out for one of their songs to spit a few verses. The crowd went electric as a result.

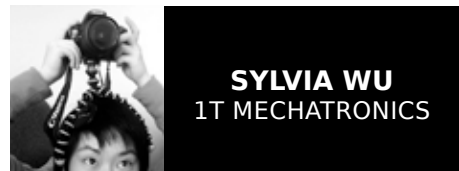
Much respect to Hey Ocean!, but it was obvious that the crowd was getting geared up for our local boy to hit the stage.

Backed by DJ Tito, another Laurier Business student who recently just came back from the World DJ Invitational in London, England, Shad opened to a thunderous applause that did

not let up for the entire set. Playing almost every song in his repertoire, Shad fed off the crowd's enthusiasm and brought his style to a new high. In true showman form, Shad worked through technical problems, his acoustic was getting no sound output, and put out one of the most impressive rap displays I've ever encountered: a more than 7 minute long a cappella. Just him, the mike, and some of the best and funniest rhymes I had ever heard. The crowd reached fever pitch, and Shad held them there for the rest of the night. His normally hour-long set was extended to double that; every song he ever wrote was used. As the night came to a close, DJ Tito threw out one of his best scratch routines that left the crowd speechless.

With a combination of great beats, great rhymes, a great DJ backing him up, and a small, intimate venue, Shad showed without a (terrible pun alert) Shad-ow of a doubt that he is Canada's new hip hop voice. I recommend you go buy his album if you like Kanye West, sans the Gucci and the Ho's. As well, check out Starlight's line-up, and don't miss a chance to see one of your favourites in such a great setting.

## Sandvine Re-Invades the Bombshelter UW Engineers Rejoice



**SYLVIA WU**  
1T MECHATRONICS

A ticket to Sandvine Inc.'s termly recruitment event at the Bomber is no less coveted than a strong PDEng assignment. This is one of the few times in a year when the class representative, who distributes the tickets, is actually popular and warmly embraced by his or her classmates. By 7pm on Thursday September 18, a long queue of engineering students with resumes and huge grins lined up in front of the Bomber, excited for a long evening of jolly spirits.

The buzz is mostly generated by the famous open bar. However, for the actual Electrical, Software, Mechatronics, Computer, and Systems Design engineering students in attendance, a chance

to personally talk to a hiring manager or even the executives of the company is equally motivating. Two co-founders of Sandvine, Dave Caputo and Brad Siim, mingled with students throughout the evening, offering everything from career advice to sensible humour.

There was no formal presentation at this recruitment event: Sandvine knows well that a PowerPoint slide show cannot possibly distract engineers from good beer. Around the booth that displayed the company's intelligent network hardware, several managers answered questions about the more serious things: Sandvine's network technology and employment opportunities. There were also plenty of current co-op hires present, who did a great job convincing the skeptic that Sandvine is a fun place to work.

One question always comes up at these events: Why the approach of a pub night over a presentation hall in TC? According to Brad Siim, VP-Engineering of Sandvine and UW Engineering alum, the answer is simple enough: Everyone loves beer. However, the light-hearted attitude does not translate over to the hiring process. Siim shared what he always looks for rigorously in future hires: top marks, involvement and interests outside the academia, and excellent ratings from past employers. Among a box full of resumes gathered from a single night and the extensive word-of-mouth reputation generated by nights like these, no doubt that he will find plenty of high-achievers hoping to make the cut.

From the reporter's observation, a casual event, contrary to popular belief, actually encourages networking. The provided BEVERages don't hurt, since a little alcohol always helps everyone open up.

This event, along with RIM's annual affair at Federation Hall, is strong proof that Waterloo engineering students are in high demand. Companies are willing to go beyond the conventional to attract talented young people from the top engineering school in Canada.



Photo by Sylvia Wu

UW Engineers explore career opportunities with Sandvine.

# The Adventures of Dangerman

## Piss On Everything Today is Saturday



This dangerous adventure is brought to you by a stark absence of originality or any real measure of human emotional depth...and the letter "R". Enjoy.

Dearest Reader,

I had one seriously lousy week, more than the typical quota for sure. Sort of like how a hurricane is actually the sum of many different crappy events coming together to create a complete catastrophe<sup>1</sup>, such as this past week a nexus for many examples of my own misfortune.

Women, writer's block, work-term reports, getting shot nine times and then NOT getting signed by a sick hip-hop label despite my crazy ghetto-fabulous chops. And, on top of all this I still don't have any bloody groceries despite the fact that I have a car and it's been almost a month! No, I'm not on a diet, I'm just an idiot.

Well, piss on everything, today is Saturday. Piss on groceries, piss on homework. By hook or by crook, I'm insisting that the world start turning dangerously today, for I fully intend to observe the Sabbath as only I know how to do.

## John McCain War Veteran, Senator, and Inventor of the CrackBerry?



**MATTHEW  
CASSWELL**  
2A CIVIL

Thought that the BlackBerry was the brainchild of Waterloo's all-powerful RIM? Think again. Or at least, that is what a US Republican Party advisor is telling voters. In a shocking revelation made public last week, it was revealed that despite popular belief, the all-mighty BlackBerry is, indeed, the invention of US Presidential nominee Sen. John McCain.

His senior domestic policy advisor, Douglas Holtz-Eakin, whilst discussing the United States economic crisis, held up a BlackBerry and said, "He did this!" referring to the 72-year-old Sen. McCain. He went on to say that the addictive mobile device was a "miracle that John McCain helped create."

"What? I'm outraged!" exclaimed one engineering student, upon hearing the news.

Indeed, many locals were shocked that McCain would dare claim Waterloo's brainchild CrackBerry as his own. The BlackBerry, as all of you really should know, is the small, mobile communication centre with an addictive personality. Manufactured by Research In Motion (RIM), which encircles the UW campus, the BlackBerry

### Dangerman's Fail-Safe Anti-Hurricane Recipe for Awesome Saturdays:

1. The "Sneak Out": get off of whatever bed/couch/floor/sidewalk you have wound up sleeping on the night before without waking up any people/animals around you (I once woke up covered in blood in the middle of a pack of wolves). If indoors, before attempting any "window descents", I recommend first practicing on the bouldering-wall at the PAC. I'm pretty sure I have the record at descending 17 floors from some crazy girl's condo (after which I realized I forgot my wallet). Let's just say Jet Li ain't got nothin' on me.

2. If Dangerman's head = pounding ache

Take two-to-several very extra-strength "whatevers in bottles I don't care if they're vitamins or Vicodin, just get them in my tum tum," tablets and proceed with breakfast.

#### Else

Stop terrifying the pharmacist on the way home with your undead-like moaning about your brain, which sounds like you want to eat her brain, which hey, maybe you do...<sup>2</sup>

3. The "Sneak In": Reverse all the items in step 1, and convince your housemates you were there the whole night.

4. "The Hedonistic Breakfast": famous for containing no less than 11 different animals, it pays homage to the "Full Irish

Breakfast" of my ancestors<sup>3</sup>. This typically means, coffee (a lot of coffee), orange juice, blueberry pancakes, French toast, waffles, regular toast, eggs (both fried sunny-side up for yoke-dunking AND scrambled), hash browns, sausage, bacon, ham, steak, zebra, cobra etc. This breakfast will take 5 years off your life, but it's worth it.

5. While touching off your surprisingly delicious haunch of zebra, maybe tune in to Stuart McLean's "Vinyl Café Diaries" on the CBC radio 2 at 10:05am EST, and get your Canadian culture exposure for the day.

6. "The Matinee": No Saturday is complete without taking in a good movie. If you haven't heard of the Princess/Princess Twin down on King street, you my reader are an uncultured savage and you should make your way down there as soon as possible to remedy the situation.

7. "Dunch": Also referred to as Linner and Lupper, this meal should contain an ungodly amount of Jugo Juice.

8. "Plans": It's easy to ruin a good Saturday by failing to find anything to do once the evening comes. Take a quick peek on Facebook. If you're like me, you've probably already agreed to attend 2 or 3 different events somewhere in Waterloo, with no real intention of actually going. Therefore I recommend looking at my Facebook events if you've somehow discovered my real name, and choose one of those. No lies, I probably won't be

there<sup>4</sup>.

One last thing, remember to take time for yourself when things get hard (and they will). There's no sense working yourself to the bone if there's never any pay off.

"Work hard, play hard"; that's the mantra.

And remember: Dangerman loves you.

Sincerely,

Dangerman

4A Chemical Engineering

eric.dangerman@gmail.com

<sup>1</sup>The ingredients for a hurricane include a pre-existing weather disturbance, warm tropical oceans, moisture, and relatively light winds aloft. If the right conditions persist long enough, they can combine to produce the violent winds, incredible waves, torrential rains, and floods we associate with this phenomenon. (Wikipedia: Hurricanes, 2008)

<sup>2</sup>Compiler Error 232: You're an idiot Dangerman.

<sup>3</sup>Debate persists as to whether Dangerman is actually of partial Spanish decent due to the crashing of the remnants of the Spanish Armada in 1588 on the northern coast of Ireland.

<sup>4</sup>In homage to the eight "I really rather you didn'ts", as a proud Pastafarian I have left this recipe somewhat unfinished with room for additions from the readers. Please write in and tell me about your own adventures.

has set the bar for Smart Phones across the world.

While party supporters were awe-stuck with McCain's apparent divinely-inspired inventions, a Democratic spokesperson for Sen. Barack Obama quickly blasted the announcement, claiming that it was "the most preposterous thing said all week," and pointed out that Sen. McCain has yet to learn how to use e-mail.

Independent supporters were quick to state that this too was a ridiculous remark, but also pointed out to the 2000 presidential campaign when Vice President Al Gore claimed that he took initiative in inventing the internet. Neither the University of Waterloo nor Research In Motion were mentioned by any party, and the mystery of who invented the BlackBerry remains a mystery to many American voters.

Later on, McCain's senior aide Matt MacDonald said that the whole thing was a "bonehead joke by a staffer."

In an effort to correct the issue, some news outlets released statements that McCain did not invent the BlackBerry, but again, did not enlighten readers about where the mysterious device originated from.

University of Waterloo Chancellor and RIM founder Mike Lazaridis was unavailable for comment.

enter to

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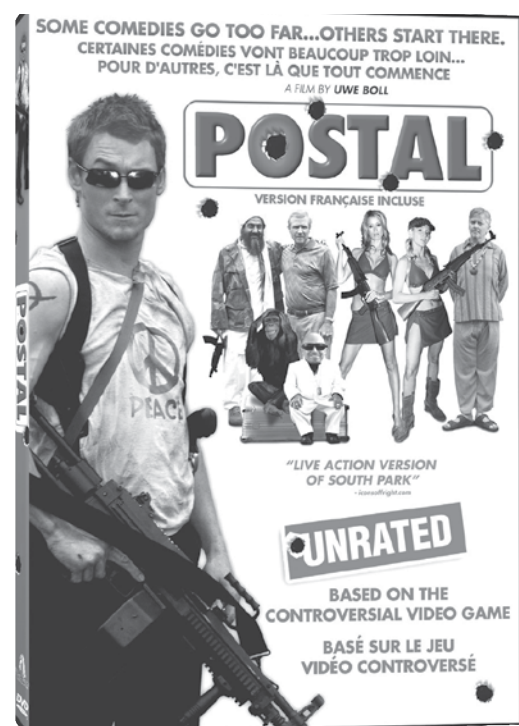
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**Winners announced in issue #2**



## Engineering Scavenger Hunt

### The Great Canadian Wilderness

Starting Sept. 26 12:00 pm

Ending Sept. 27 12:00 pm

\$30 per team (\$50 for non-engineers), or \$5 for individuals

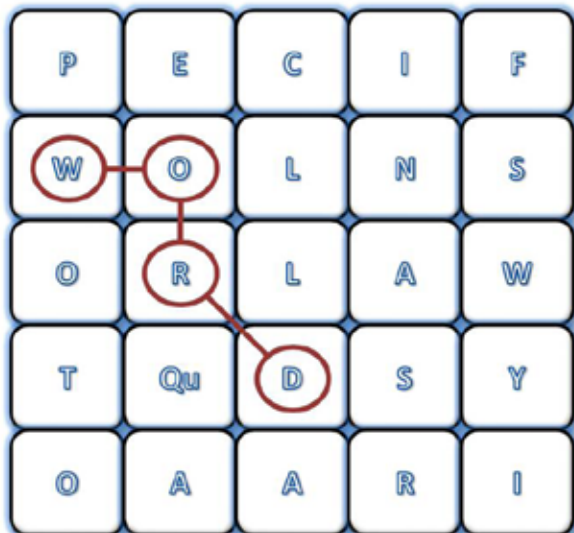
Sign up your team at the Orifice, or email:

[eng.scavengerhunt@gmail.com](mailto:eng.scavengerhunt@gmail.com)

# Puzzle of the Week

**TIM BANDURA**  
2A MECHANICAL

## Boggle Word Puzzle



Try to make as many 3 or more lettered words as possible by combining the letters shown. Letters can be connected by adjacent blocks, either vertically, horizontally, or diagonally. A letter block can not be used more than once in the same word. An example has been highlighted.

# Where is the Love?

## Engineering and Relationships: Do they work?

**MILENA BELOIA-CHERES**  
2A CIVIL

**Fact #1:** Engineers have a much higher work load than many other academic programs.

**Fact #2:** There actually ARE engineers who are engaged in relationships.

However, there aren't too many. This is why I set off on a quest to determine whether this is actually a good or a bad thing.

From a purely academic standpoint, I would affirm that being single while in engineering could be a lot less stressful. I have reached that conclusion after spending some time meditating over how much easier first year would have been if I had spent my weekends actually getting some assignments done. Do I regret it, though? No way, Jose! Despite the implied high necessity for time management, I support the idea that dating in engineering is actually quite worthwhile. Besides it making you feel all fuzzy on the inside, it provides you with a means of disconnecting from all the work, and creates a great source of moral support when those technical reports are driving you insane at 4 am.

In the hope of not making this article completely subjective, I've asked around for other engineering students' opinions, and here is the (completely unanimous) consensus that was reached: Yes! Engineering students should be dating! No more stereotypes about engineers being completely boring geeks with no social skills and a void dating record. That is, despite that some of us do admit to being engaged in very spicy relationships with their calculators (you know who you are!).

Personality does not listen to one's education path, so thinking that engineers don't make good partners is silly. First of all, as many of you would agree, many engineers are fun, and/or maybe even geniuses in sarcasm. Even though we spend our days and nights solving problems, a high IQ is not directly proportional with a low sense of humour. After all, it's the reason why, when Electrical Engineers say they do

it with frequency, we know what they mean – they're not fooling anyone. Second of all, for those who believe physical appeal favours certain faculties more than others, it would be helpful to realize that many engineering students contemplated arts programs before devoting themselves faithfully to The Tool.

So why do so few engineers have their Facebook status set to "In a Relationship"? The answer is invariable: work load. Trying to commit to a relationship while aiming to perform relatively well on an academic level can be difficult, especially if the significant other has more free time on their hands than you can afford. Even though time-management skills improve with engineering experience, they are usually directed towards making history in school or at Pubcrawls, not with the opposite sex. Furthermore, UW engineers face the more "unique" problem of moving to different places every four months, depending on their co-op placements; this can put a lot of stress on a relationship, especially if it's fairly recent.

It is inevitable to reach this point in the discussion without asking the question: *Thumbs up or thumbs down for dating fellow engineers?* I suggest thinking of it this way: who else would better understand how busy you are, laugh with you at lame calculus and statics jokes or maybe even have the same co-op term as you, if not a fellow engineer? Based on a quick survey, students currently in engineering agree that dating within their faculty is a definite plus!

In conclusion, if you're still skeptical, whip out your favourite pen and some paper, and do your own calculations. You'll reach the majority's decision: there is no serious reason or academic risk for which people shouldn't be in a relationship while studying engineering. Hence, I propose that students in this faculty start dispelling the stereotypes and give dating a chance. Who knows, you might be walking by your better half every day in the long, grey hallways of our RCH or CPH. Engineers, spread the love!

## Photo of the Every-Other-Week Contest



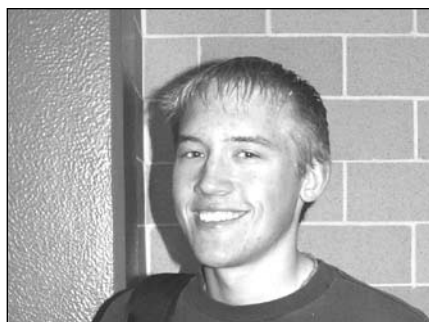
You can win P\*\*5 points by winning the caption contest!

Submit your caption to [iwarrior@engmail.uwaterloo.ca](mailto:iwarrior@engmail.uwaterloo.ca)  
Be sure to put "Photo Caption Contest" as the subject, and include your name, program and term.

# THE IRON INQUISITION

## "What did you use to help get you through your work term report?"

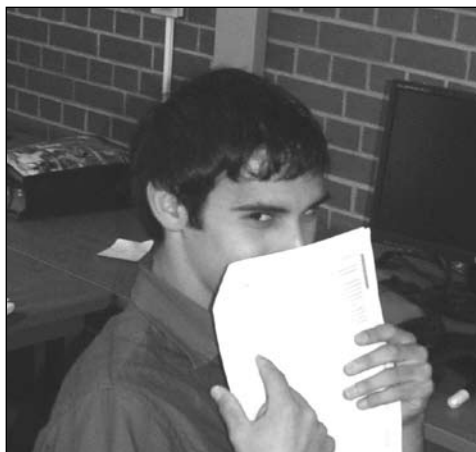
David Morris, 2B Electrical



**Cody Prodaniuk**  
2A Mechanical  
"Other students and a bottle of rum."



**Stuart Pearson**  
2A Civil  
"An entire box of Oreos..."



**Abed Alnaif**  
4A Mechanical  
"Plagiarism."



**May Wong**  
3B Nanotechnology  
"8-month work term!"



**Alex Giroux**  
4A Mechanical  
"Painkillers from my wisdom tooth extraction."





## Come find out why RIM is where you want to be!

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You won't want to miss these events:

Monday, September 22  
 > **Talking Tech with RIM**  
 Federation Hall

Tuesday, September 23  
 > **BBQ Fun Day**  
 Bert Matthews Hall  
 (BMH) Green Space  
 2:00 PM - 4:30 PM

Wednesday, September 24  
 > **RIM Information Session**  
 Tatham Centre, Room 2218  
 11:30 AM - 1:30 PM

Wednesday, September 24  
 > **RIM Information Session**  
 Tatham Centre, Room 2218  
 2:00 PM - 4:00 PM

Thursday, September 25  
 > **Rock with RIM**  
 - with special musical performance  
 Federation Hall  
 Doors open at 6:30 PM

Friday, September 26  
 > **Frosty Friday**  
 Douglas Wright Engineering  
 (DWE) Green Space  
 1:00 PM - 3:00 PM

Space is limited, so register now at [www.experienceRIM.com/uw](http://www.experienceRIM.com/uw)



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