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# THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

VOLUME 28 ISSUE 11 | WEDNESDAY, SEPTEMBER 26, 2007



## Engineers Without Borders in Africa

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<http://iwarrior.uwaterloo.ca>

### BAHMAN HADJI 4N COMPUTER

On the morning of September 4th, almost 1500 eager first-year Engineering students – Frosh, as they’d soon learn they were called – showed up to their Orientation Week colour group headquarters, ready to experience their first week of university life. By the end of the morning, they had seen a video introducing them to Waterloo Engineering and the Education Committee (better known as EDCOM), given a speech by the Dean of Engineering, Dr. Adel Sedra, and of course, met EDCOM. They were told the rules of the week (which included impressing EDCOM, impressing EDCOM, EDCOM always being right, and impressing EDCOM) and set out to win The Game of ERTW.

The Engineering Orientation Week Committee (FOC) – Chris Jamieson, Greg FitzGerald, and Glen Kurti, along with Architecture FOC Andrea Murphy and Jon Holder – had been planning for the week for nearly a year. An enormous amount of work was put in by them and other Engineering leaders in getting events approved, securing funding, making the Meet The Tool video, the Meet EDCOM video, The Book 2007 (remember, Frosh: page 69 comes after page 36), the special Frosh Week issue of The Iron Warrior, and countless other things that deserve to be mentioned. The colour groups’ Bigs and Huges worked tirelessly over the Labour Day long weekend decorating their headquarters, making mascots, and coming up with cheers in preparation for the arrival of their Frosh.

Frosh, speaking on behalf of the leaders, all the work that everyone put in was made worthwhile when we saw your enthusiasm and spirit throughout the week. From the first afternoon, when you went through

events emphasizing the four principles of engineering (such as the organization displayed in fitting more than 60 Frosh into a minivan) and earned your hardhats, we could all see that you were set on making the week one to remember. The ENGinuity you displayed at Junk Yard Wars and the excitement you had for The Tool was exceptional. By Friday night, it was clear to all of us that you, the Class of 2012, were special, and not just because you were the 50th to enter Waterloo Engineering. That night, you made the Scavenger Hunt a huge success by participating to the very end – the new events such as Game Show and Music Video were a hit, and the EDCOM headquarter visits at the end of the night were enjoyed by all.

The week was capped off by the Engineering Society Frosh Mentoring barbeque that was held Sunday afternoon leading into ComEng to round out the week. Once again, you amazed us by showing up in huge numbers, with as many as four hundred showing up to eat Boggan Burgers and see the playing of The Game of

ERTW, when each colour group presented their game pieces collected over the week in exchange for points. And even though Orange (the Convicts) had the most points, when the game was played, Risk-style, Purple (Royalty) edged everyone out by capturing three territories and had the honour of putting their shirt put up in POETS as a reward for winning the week. The Psycho Frosh

See FROSH on Page 11

## Office of Sustainability Initiative Underway

### CHRIS FORTMUELLER 1A SYSTEMS DESIGN

As most of you are probably aware, UW has been at the leading edge of many developments in technology and society. However, some people claim that there is a certain field in which UW is not doing so well. This field is the one concerned with the environment and sustainable development on campus. As a result of this dissatisfaction with UW’s administration’s efforts in this field, several initiatives have been started. One of these, likely the most prominent, is the University of Waterloo Sustainability Project (UWSP). It was started in 2001 in the Faculty Environmental Studies and became incorporated into FEDS as a service in 2003. UWSP, which is student run, has several working groups that focus on specific projects and topics related to environmental sustainability.

“Clearing a Path”, one of UWSP’s workgroups, has made it its priority to enforce the creation of an official University of Waterloo Sustainability Office. Clearing a Path criticizes that there is no official top-level commitment from the university towards the issue of sustainability. They claim that there is currently not a single official UW staff appointed by the university to making operations as a whole sustainable. There used to be such a position: The University of Waterloo



management.uwaterloo.ca) is still announcing that a replacement will be found by the fall of 2005. As of the printing of this article, the position is still vacant.

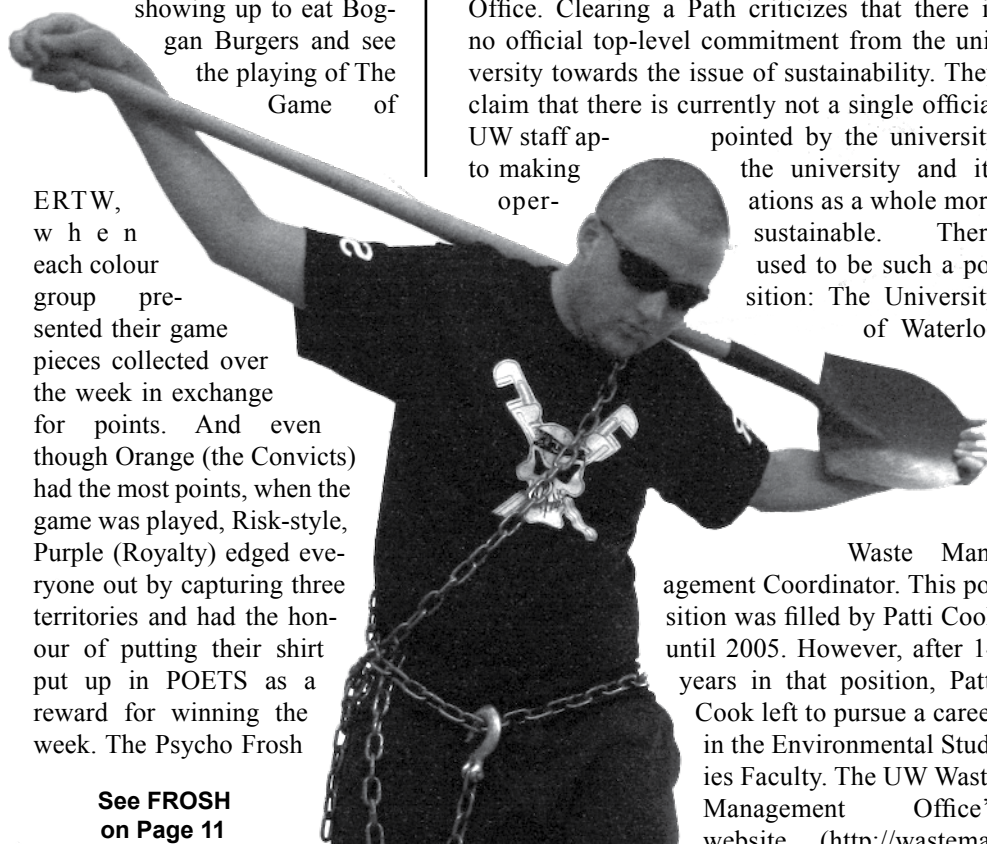
When asked why the position has not been re-filled, Dennis Huber (UW VP Admin & Finance) said that “the responsibilities formerly managed by the Waste Management Office are now integrated into the day to day operations of Central Stores and Plant Operations with excellent results and improved efficiencies”.

He went on to state that the University of Waterloo, despite its unusual year-round operations required for co-op education, has consistently placed among the three universities in Ontario with the lowest energy consumption per area unit.

Clearing a Path believes that the redistribution of the Waste Management Office’s duties to other departments is ineffective. Darcy Higgins (VP Internal for FEDS and involved in Clearing a Path) claims that this redistribution results in sustainability to become an afterthought, because these departments have to (righteously so) worry about their primary mandates first. Higgins believes that an office dedicated solely to environmental sustainability would be more effective.

Concerning the specific mandate of such an office, Higgins explained that there was a panel in 2006 whose goal it was to determine the mandate of a UW Office of Sustainability. The result was multi-faceted: For one, the office should bring together ideas of students, faculty, and staff to enhance sustainability on campus. It should provide the UW community with a library, tools, and resources to work on sustainability projects, and also help coordinate these projects. It should

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Waste Management Coordinator. This position was filled by Patti Cook until 2005. However, after 14 years in that position, Patti Cook left to pursue a career in the Environmental Studies Faculty. The UW Waste Management Office’s website (

# From the Desk of the Editor: Welcome



**FARAZ SYED**  
EDITOR-IN-CHIEF

"What am I doing here? What do I even know about making a newspaper?" These were the thoughts that ran through my head just before our article submission deadline last week. I had my panic attack two weeks into the term and not right at the beginning. Strange as it may seem, I'm told this is pretty standard for any Editor-in-Chief (EIC) of *The Iron Warrior*.

It's really an adventure to run a newspaper. While it's time consuming, it's also exciting to know that I'll be able to pick up and enjoy the tangible result of our hard work. The issue you're reading is actually a result of three weeks of planning and preparation, not to mention the long hours put in by the contributors and staff of the paper. I'd like to thank each and every one of you for helping us work toward a well put together issue. I'm really happy with this issue. Speaking of which...

This issue has a special Frosh Week centrefold. Check out pages 8 and 9 - the centrefold was put together entirely by frosh students. They wrote the articles, they drew the comics, they shot the pictures and one of them even did the layout and graphics for the centrefold.

Also check out the modified front page design. It's not a drastic departure from the original design that has served us so well for 7+ years, but it was time for

small changes to bring it new life. I hope you like it. It's a tricky job to balance between visual appeal and a traditional newspaper look.

Other than that, I'm also happy with the contents of the entire issue. There is a good mix of articles on topics ranging from entrepreneurship to a Chinese music review, all of which are written quite well and very interesting.

The staff of the Spring 2007 term did an amazing job in producing in-depth, high quality and relevant features which were of interest to Engineers, and also to the University community in general. I hope that this will become *The Iron Warrior's* new standard - well written content on very relevant topics.

## Goals

Let's talk about *The Iron Warrior*, and specifically, my goals for the term. I'm in the 2008 graduating class. This class has produced (to my knowledge) 5 Editors-in-Chief. That's highly disproportionate - either other years have not had a chance to contribute or they just haven't. In any case, it's critically important that they do, for our class is graduating soon. That's why my biggest goal for this term is continuity: to get a stable staff built which will contribute to the paper for (hopefully) more than a few terms, to set in place standard business practices and training guides for all new staff, and to improve the finances of *The Iron Warrior*.

This term we made the effort to visit as any of the first year classes as we could, and encouraged them to read and contribute to *The Iron Warrior*. It seems to

have worked - we had a record breaking 40 attendees at our first weekly meeting of the term, and still managed to retain a good 27 at our second. The paper still needs to recruit, I think, more second and third years to balance out the staff. This is one of my goals for the term.

Every time a new EIC steps into the office, there are a thousand things to learn. Typically the EIC has been an Assistant Editor before, so some aspects of running the paper would be familiar. In any case, often most EICs only have former EICs to fall back on. This must be changed if we want to achieve continuity - this is why, since the past Spring term, *The Iron Warrior's* staff has been working on transition guides for most of the staff positions. Hopefully they'll be completed by the end of this term, in time for the new staff of Winter 2008.

Ad revenue is another key goal. In financial terms, *The Iron Warrior* does relatively well. We receive some ad revenue throughout the term, and lately we have also been printing ads from EngSoc directorships. This typically gets us to the break-even point. My view is that, if we're one of the biggest parts of EngSoc, we should also be one of the best run. This term, with my two intrepid Ad Managers, it is my goal to do better than just break-even (difficult as that may be). Maybe we'll end up with a decent bank balance in the end.

All in all, it's going to be a busy, but interesting term. Keep reading *The Iron Warrior* to stay on top of all the news you can digest about campus, the Engineering Society and ofcourse, *The Iron Warrior*.

## Letter to the Editor

Re: From *The Iron Archives: The History of the Waterloo Engineering Endowment Foundation* (Brandon DeHart, July 25)

### HISTORIAN EXTRAORDINAIRE

Brandon DeHart should be commended for his deep delving into ancient and arcane EngSoc history. He writes with shockingly accurate facts and amazing insight. The Faculty of Arts ought to give him an honorary degree in Anthropology, to accompany his upcoming B.A.Sc in Mechatronics.

I would enjoy having a beer with him in POETS, as I expect that he would accurately record the ramblings of an ex-EngSoc Prez, VP, Director, Class Rep and a co-founder of the WEEF. For

the rest of you Engineers - buy him a beer at POETS. Those who forget their past are condemned to repeat it.

20 years later, *The Iron Warrior* still rocks. Brandon is a great writer (odd for an engineer) and an exceptional journalist (even odder).

Kudos to him. No, MEGA-kudos to him. This is amazing.

John Vellinga

WEEF Co-Founder (1990)  
EngSoc President 1989-1990  
EngSoc VP 1988-1989

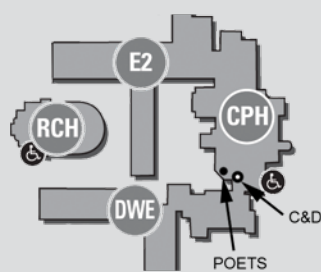
(Yes, I still read *The Iron Warrior*.)



## 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

## Future Submission Deadlines

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

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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## You, the Entrepreneur



**DMITRI  
ARTAMONOV**  
3N COMPUTER

Do you have an idea that you would like to see succeed? An invention that will change the world, save millions of lives, protect our planet or make you rich and famous? Add strong commitment and courage to the mix and you have an entrepreneur. Entrepreneurs are the people who build this world, they make things happen. The most effective engineers are always entrepreneurs - they bring about the greatest change and they have fun doing it since their work is always a labour of love. This is the first article in a series where I will talk about entrepreneurship and more specifically about entrepreneurship as a UW engineer.

The first step after realizing that you want to be an entrepreneur is to discover your strengths and identify what you don't know but need to know to make your idea

a reality. Chances are that your technical skills needed to implement your idea are already polished, but what about your business skills? For your idea to succeed it has to also succeed in the business world and this is where most engineering students stumble. To be a successful entrepreneur you

don't need classroom discussions of business theory, you need the real world skills of networking with other entrepreneurs, marketing your product for your customers and maintaining a competitive advantage.

Fortunately, you attend the University of Waterloo, where a new service has been recently launched to help you gain valuable business experience called New Venture Pathways (NVP). NVP is a free online service where you can complete a self-survey of your existing business skills and then be matched with events that will help you to learn what you don't yet know. Most people aren't even aware that there is a vibrant business community outside of campus that specializes in helping new technology companies grow. NVP will give you numerous opportunities to network and grow as an entrepreneur. Your idea will also grow and change as you find ways to make a bigger impact on the outside world. Go to all the entrepreneurship events and you will gain wisdom and experience needed to become a better entrepreneur.

Another little known way for you to get started in entrepreneurship is to keep

a close eye on the workshops given by Career Services. Every semester there are seminars dedicated to starting your own business, finding your interests or discovering your Myers-Briggs personality. The more you will know about yourself, the better you will know what to do in the future.

Finally, never stop learning and don't restrict yourself to Engineering. You should read voraciously - there lie thousands of years of experience before your lifetime on the topics of business and opportunity. Learn from the failures of the past and you are destined for success in the future.

### Case Study: Risk in Entrepreneurship

In this series of articles on Entrepreneurship, I will include success stories to encourage future entrepreneurs and dispel myths.

Instead of beginning with a specific case, I will provide 2 crucial statistics, since engineers trust hard numbers. These were obtained from Industry Canada (<http://strategis.ic.gc.ca>):

The current overall failure rate for new businesses is 45%. This includes businesses whose owners did not prepare well for the task. Your chances are much higher if you choose a good market niche and invest in your business skills.

Furthermore, the bankruptcy rate of exiting businesses over the last 20 years has reached an all-time low of 5%. Chances are that if your original idea does not work very well, you will get a chance to try and try again.

I hope these two numbers will cause you to do some serious thinking. Entrepreneurship is not easy, but is very rewarding. If you invest time in developing your entrepreneurial skills, the risks are tolerable.

### Upcoming Events

In every issue of the series on entrepreneurship I will also highlight some of the upcoming entrepreneurship events around campus.

Don't miss out on the UW Expo, coming up on Saturday, September 29. Even if you're not an entrepreneur it's worth your time to come out and listen to the some of the most intelligent and successful people on this planet, and rub shoulders with other entrepreneurial students. Registration is free at <http://expo.impact.org>

If you want to get in touch about anything entrepreneurial, don't hesitate to contact me at [dmitri@newventurepathways.org](mailto:dmitri@newventurepathways.org).

*"The most effective engineers are always entrepreneurs - they bring about the greatest change and they have fun doing it since their work is always a labour of love."*

## Vision 2010 Plan for Campus Engineering to Get Four Buildings in Six Years

**SISSI CAO**  
1A SYSTEMS DESIGN

With 150 million dollars in grants, donations, and other funding, the Faculty of Engineering will be starting construction on three new buildings in addition to the Quantum-Nano Centre (itself costing an additional \$100M) over the next four years.

The buildings, to be completed in three phases, will add approximately 22,000 net assignable square metres (nasms) of space. (The unit nasms accounts for usable space, such as labs and lecture halls, disregarding spaces like walls and corridors.) This addition of space will bring the total ground space up to 60,000 nasms, fulfilling the Engineering Vision 2010 plan as well as the demand for more space.

### Phase I

**Name:** Engineering V (E5)

**Location:** Parking Lot B, just north of Mongolian Grill

**Projected start/finish dates:**

Construction to begin early 2008

**Target completion:** Jan. 2010

**Specifications:** \$48 million, 6 storeys  
**Description:** The first two floors of this building will showcase a 1,900 nasms "Student Design Centre", to be used for lab and workshop space by students. The rest of the floors will be divided between departments; 2 floors to ECE, 1 floor each to MME and SYDE. Departmental space is planned for offices, labs, meeting rooms and possible undergraduate teaching area.

### Phase II

**Location:** Inside Ring Road, close to DWE and RCH

**Projected start date:** Sept. 2011

**Description:** This building will provide space for the Chemical Engineering Department, the Dean's Office and other activities due to its central location. However, it has not yet been approved by the UW board of Governors.

*This article is a summary of previous articles published during the Spring 2007 Term. For more in-depth information, The Iron Warrior's archives are online at <http://iwarrior.uwaterloo.ca/archives>.*

### Phase III

**Location:** Parking Lot B

**Projected start date:** Dec. 2012

**Description:** This building will be linked to E5 and most likely identical in structure. It is expected that the departments occupying E5, ECE, MME, and SYDE, will expand over to the adjacent floors.

### Quantum-Nano Centre (QNC)

**Location:** Between MC, SLC and B2

**Projected start/finish dates:**

**Groundbreaking:** March 2008

**Target completion:** Sept. 2010

Preparations for construction, such as laying service tunnels, will begin in Oct. 2007.

This will involve digging up the Bombshelter patio.

**Specifications:** \$100 million +, 8 storeys, 261,000 gross square feet of space

**Purpose:** This building will be the new home of Nanotechnology Engineering, research in nanotechnology, biology, chemistry, and physics (in conjunction with the Institute for Quantum Computing (IQC)).

**Description:** The building will have a large mezzanine and concourse underground, and two distinct towers built on top.

**South Tower:** 7 storeys above ground and will house the nanotechnology program and research. It will contain labs, lecture halls, tutorial rooms, and study rooms. The third, fourth, and fifth floors of the south tower will be used for nanotechnology research.

**North Tower:** 5 storeys above ground and will house the IQC.

**Major spaces:** IQC Museum, multi-use seminar facility, metrology lab, green roofs, courtyard, two-storey clean room. Upper floors of both towers will be used for mechanical and infrastructure support for the QNC.

**Bottom line:** In 6 years, the Engineering grounds will be nearly double what is it today, providing the current and future undergraduates with the much-needed space required for an expanding faculty.

## Tales From Around The World in Your Morning Coffee



**TANEEM  
TALUKDAR**  
4A SYSTEMS DESIGN

In the "Made in China" world that we live in, you're probably not surprised to know that the coffee you drink each morning has travelled around the planet and changed hands many times before reaching your mug. But what you may not know is just how complicated a web the coffee bean weaves and how an informed decision by you can literally change the world.

Save for water, Canadians drink more coffee than anything else. 2 out of every 3 of us drink coffee everyday, and on average we have 4.5 cups per day (Americans clock in at 3.1 cups).

But where does it come from? Coffee is cash crop for millions of farmers in coun-

tries such as Vietnam, Brazil and Ethiopia who grow the beans - meaning it is grown specifically for export. For 11 countries, it's actually their top agricultural export

and main means of earning a living for their farmers. I use the phrase "a living" loosely, because the lives of most coffee farmers could reasonably be described as a torturous one. Most farmers sell their beans to local middlemen who then resell the produce upstream until it reaches one of the Western companies who eventually sell it to you in your morning cup. The price of coffee is determined on the commodity market, and price fluctuations are mostly absorbed by the farmers at the very bottom of the chain.

About 10 years ago, Vietnam started mass producing coffee commercially.

Their beans flooded the market leading to the collapse of prices worldwide. Most farmers were not shielded from the collapse and the price paid to the farmers can

now drop below the cost of making it. Farmers nowadays take out loans for seeds and machinery and get in a spiralling cycle of debt with the local middlemen (affectionately known as "coyotes" in certain parts of South America). This leads to a spiralling cycle of poverty and societal disenfranchisement that is hard for farmers to recover from, especially since the middlemen will often force farmers to sell the coffee at below the fair market price amongst other methods of exploitation.

Looking for a happy ending? Well there still can be one with your help. Coffee is

amongst many products that the Fair Trade movement is working to change by implementing an alternative sustainable and transparent infrastructure that works for everyone. My next article will look into the exact mechanics of how Fair Trade works: in the meantime, try the Fair Trade coffee at our C&D the next time you want a cup of Joe! And if you want to learn more about Fair Trade come out to the Engineers Without Borders next meeting on Oct. 2nd in RCH 307 @ 5:30pm and visit our website at [ewb.uwaterloo.ca](http://ewb.uwaterloo.ca).



## ENGINEERING SOCIETY EXECUTIVE REPORTS

### Presidential Report



**AMANDA HOFF**  
PRESIDENT

...and so the term begins!

First of all, thanks a bunch to everyone who came out to ComEng, BOT, and the first EngSoc meeting of the term! With record high attendance at ComEng, and fantastic showings at the other two, if this is any indication of what is to come we're in for a fantastic term, there's no question about that! If you have any feedback on these events (things you liked or things you didn't like), please let us know so that we can make future events even better!

Just a quick update from the summer term while all you upper-years were gone on cop: Joint Council, for the first time in years, had enough people out that we achieved quorum from both Societies! As a result, we were able to pass two much-needed amendments to our Constitution. First, we are now officially "friends" with WASA, so welcome, Architecture! This means that Architecture students are officially welcome at all of our events, and we will make an effort to get them out here to participate in our events, as well as to support them in their own events! The second motion that we passed allows us to change the Constitution without Joint Council. All we need to do now is pass it in a vote on each individual Society in subsequent terms, and then BAM! It's like magic! No more struggling for quorum in those summer terms...

Unfortunately, that takes away our excuse to push people to come out and hang out with the other Society. Since A-Soc is awesome and we want to spend fun times with them, we as an Exec were mandated to make next

summer's Joint Council something really awesomely fun so that people will WANT to come out, rather than just feeling obligated to come and help make quorum! If you have any ideas for how to make that happen, please stop by and talk to me, or send me a quick e-mail... we'd love to have your input!

On the topic of mandates, we as an Exec this term would really like to encourage everyone to bring us your input on what you want us to do over the next year. The best way to present this is by putting forward a motion at one of the meetings, where the rest of Council can discuss, refine, and vote on it. If you have an idea but you're not sure how to put it into a motion, we can help you write it up.

Another new initiative this term is the EngSoc Archivist/Historian position. Our Engineering Society has such a short memory span (every 5 years we cycle through a new group of students), that it's often difficult to keep any sense of history or continuity over the years. I'm hoping that through this new position we can dig up some old stories and memories from our 50-year past, and at the very least create some lasting archives in the hopes that 50 years down the road, the history that we make today will not be forgotten! Keep watching for

In other news, the Gaff lab is re-opening this term under a new name - the "Pully" Lab. Although it's only about half the original size, it will feature a layout specifically designed to provide suitable working space for small project groups.

Don't forget to sign up for the EngSoc mailing list (engsoc\_b\_general-subscribe@yahoogroups.com) if you want to stay in the loop!

I think that's about all I have to report for today. You stay classy EngSoc B! I'm Amanda Hoff?

### VP Finance Report



**CHRIS JAMIESON**  
VP FINANCE

<Cue Apprentice theme music> Money money monnnnnneeeeeey... <shot of me with Donald Trump hair>

Hello all. I hope that everyone's works terms (or summers after high school) were profitable and enjoyable and I welcome you all (back) to campus.

For those of you who were not at the first meeting of term I have been mandated (who let Shooby into our meetings anyway?) to investigate the shortcomings of the size of our budget and explore new ways to increase it. I am required to present this in the form of a preliminary business plan by the first meeting of the summer term 2008. I am proud to say that I fully support this mandate (I believe I seconded it) because I feel that it is a great way to increase and better what we do here in EngSoc... and I wish I came up with it myself.

So, I bet you want to know about my plan so far right? Well good news, I am almost done already! After the meeting I wracked my brain for days until one morning it just hit me. Well, okay, it hit my Inbox actually. My good, long lost, friend Dr. Robertson says that I can "make it 50% bigger in just one week". I figure that this plan is fool proof, and he only wants \$100 for 30 pills to boot. Possible side effects include... well... let's not go there.

Seriously though, other than harassing the Alumni for donations on the weekend of the 29th, I will be hosting a brainstorming session in the first week of October to hear ideas and opinions in my pursuit of this mandate. I encourage all to come and tell me your ideas (or even ones you've stolen). Date and time will be announced when available on the EngSoc website, over the mailing list, and in a bunch of other places.

In other news, the Engineering Novelties Shop has been up and running for the past two weeks (thanks to my directors who volunteer their time everyday). It is located in the CPH foyer right beside POETS. The hours for this term are 11:30 AM to 1:20 PM every day.

As always we are always open to new ideas for products which you would like to see sold. You can send ideas to me at bsoc\_vpfin@engmail.uwaterloo.ca or just come see me in the orifice as I am usually around.

I would finally just like to remind all the EngSoc directors that budget proposals are due by midnight on October 3rd (next meeting). If you do not submit a budget proposal you will not be getting any money to run your events. Thanks in advance.

That is all for me this issue, hope to see you all out at events.

### VP Education Report



**PATT GILLIS**  
VP EDUCATION

I hope everyone's enjoying being back to the grind!

First things first, there are still a couple of vacant directorships that are up for grabs for anyone who just has too much spare time on their hands. For anyone who's interested in giving me a hand, there's the position of Education Assistant. For anyone who wants to be a first there's our brand new Academic Services Coordinator directorship. The Academic Services director was created over the summer by A-Soc with the intention of bringing our Exam Bank and Work Term Report centre out of antiquity and pumping some new life into them. We're looking for someone who is motivated and would be excited to take on this position and preferably someone with some experience with the services, although it is definitely not required!

Next, I'd like to give a huge shout out to Toni, Yvonne and the entire resume critiquing team. You guys did a great job and I know all the frosh appreciate your efforts.

### VP Internal Report



**CAT HAY**  
VP INTERNAL

We started class on Monday, and EngPlay picked their cast by Friday. Lunch workshops brought us improv, Class rep workshops proved scarring. On Wednesday we had our first Council Meeting of the term! By Friday Everyone was feeling good! Body painting was a hit And Enginuity's egg drop was no less. Coming soon we have an interview skills workshop, DUSTED, and another Enginuity. Keep on reading to learn more!

Welcome back to classes! With the fall term just starting, we're looking forward to a ton of fun ways to get involved in EngSoc! I'd like to point out a few of the changes you'll be seeing this term:

- P\*\*5 is distributing coupons for every event you come out to! Actually, you get

If you got your resume critiqued last week be sure to remember that when were looking for volunteers to help critique resumes next term.

We've also got some exciting events coming up. Be sure to keep your ears open if you're a class PDEng rep; we'll be having a meeting coming up soon. Also, we'll be holding a student forum later in the term. This is to provide feedback to the Dean regarding what should be included in the Independent Review of the program that is to start next term, so be sure to stay tuned.

Finally we will be holding another Student Forum to provide some feedback to Administration regarding the use of space on campus. This initiative has been passed down from Jonah Levine (FEDS VP ED) who is looking to make a report to the "Space Working Group", comprised of a few higher-up of the University who are looking to identify and address space issues here on campus. We'll be looking to figure out exactly how Engineering Students feel space is being used as well as brainstorming some creative solutions. Oh, and there'll be free food.

That's all for now, Happy Studies!

points just for reading the Iron Warrior!

- We've ordered a brand new PA system that you'll be seeing soon when we start up our live music at lunch in POETS

- We're presenting our goals for the term at the next EngSoc meeting and looking for your input to make sure we're headed in the right direction

- We've visited all first year classes to make sure every class has a dedicated EngSoc rep

- We're holding regular class rep workshops to ensure every class is getting the most out of EngSoc

- We've got lunch workshops running every week on Tuesdays. Look forward to an Interview Skills workshop and cupcake decorating!

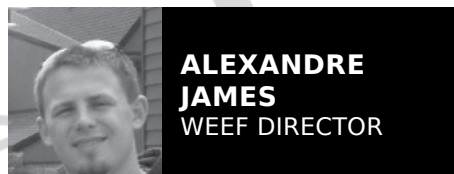
We've also got a bunch of tried and true events coming up:

- DUSTED on October 4

- Enginuity Paper Glider challenge on October 10

To learn more about our upcoming events, check out [engsoc.uwaterloo.ca](http://engsoc.uwaterloo.ca) or add our new Google calendar!

### WEEF Director Report



**ALEXANDRE JAMES**  
WEEF DIRECTOR

Hello everyone!

I hope you all had a good first two weeks at school, and I hope they were not as busy as mine! I would like to start off with a nice big WEEF IS GOOD, because well, it is! Right now, WEEF is busy providing refunds that will be open from 12:30 to 1:20 until September 28th at the WEEF office. I would like to thank all of my WEEF assistants for all their help with processing the refunds. With labs beginning this week, I would like to encourage you all to take a look around and see if any of the equipment in your labs are funded by WEEF. I would also like to encourage any lab instructors to

tell your students about WEEF and how it has helped your labs. WEEF will be visiting all first year classes this this week, so look forward to that, and to electing your WEEF reps. Proposals will be starting next week, and will be open until early November. I am hoping to get a record number of proposals this year, so you will be hearing more about them in the coming weeks. The next few weeks will be very special for WEEF as we will be unveiling a proposed one million dollar donation that may or may not involve the new engineering buildings set to begin construction in March. Want to know more? You'll have to check out the next Iron Warrior to find out!

That's it for now!

## VP External Report



**ERICA WAUGH**  
VP EXTERNAL

Welcome to the frosh and welcome back to everyone else!

Starting with the most local news: Eng-Soc directorships. We still have some vacancies, such as Santa Claus Parade and Exchange. Fire me an email if you are interested in either of these positions. Other local news, the Charities Directors are up and running the pancake breakfasts again this term, watch out for posters. They are usually held Friday mornings from 8am-10am in CPH Foyer. Spreading a little further to ESSCO, they are looking for members for the Regional Outreach Committee. If you

feel like helping in advertising Engineering and Science in the community and on a provincial level, send me an email and I will hook you up. Also, a special 'congrats' out to Dan Taylor of Computer Engineering who was elected VP Communications for ESSCO at this summer's AGM. Congrats Dan!

Special thank you to everyone who came out and ran in the Annual Terry Fox Run in support of cancer research! We took two cars out to Bechtel Park Sunday morning, mostly with the intention of running 2.5km... we ALL ran the full 10km!! Not only did we keep up with the Laurier Cheerleader team, we also out-ran the Waterloo Rugby team! Way to go everyone!!



Participants of the Annual Terry Fox Run in support of cancer research

## FEDS Engineering Councillor Report



**JEFFREY AHO**  
FEDS ENGINEERING  
COUNCILLOR

Lots of new things have happened at the Federation of Students (Feds) so far this year. Engineering currently has six positions on Students' Council but there is one vacancy. You can see who your councillors are and contact them at [http://feds.ca/student\\_council](http://feds.ca/student_council). If you are interested in becoming a councillor from now until the end of April 2008 you can visit the Feds office to get a nomination form. If you have questions about council feel free to contact any of your representatives. Also feel free to stop into the Feds office in the SLC when you get a chance and visit the executives.

For both those returning from a co-op term and those new to UW, we now have a new bus pass for all full-time undergraduate students. This is the result of a referendum last Winter and negotiations by Feds with GRT. The bus pass is non-refundable except for qualifying persons with disabilities and students outside the region. To ride you just need to show your Watcard, though there may be a change in the next year to get card readers. Currently there is no provision for co-op students to opt-in to the system but the contract has a clause to work towards that goal within the next year. Along with the bus pass comes extended schedules and coverage including a Keats Way line and weekend iExpress coverage. There is also a late night downtown loop to get people home safely.

Feds is also responsible for administer-

ing the student Health and Dental plans. The fees for the plans are lumped with the bus pass on your tuition statement under 'Feds Administered Fees'. While the bus pass is not refundable, you can opt-out of the Health and Dental plans if you have comparable coverage by going to <https://www.ihaveaplan.ca/>, logging in, and going to 'Opt-Out Online/ Opt-Out' enrollment under the 'Change of Coverage' menu. It takes only a minute though if this is your first time you will need to provide proof of another plan, and there are instructions on the site to do that. You can visit the Health and Dental plans office in the SLC if you have any questions.

I will stress that if you want to opt-out you must do so by September 28th (Friday!). This applies to students now on co-op as you will not have the option to opt out

in the Winter term. Please spread the word to everyone, especially co-op students, as many may be unaware of this deadline.

There are also plans this term for some renovations to the Feds office and to move Aussies up onto the main floor of the SLC across from Tim Horton's. The new entrance to the Feds office will be near the Turnkey desk.

Lastly, Feds has just launched a new interactive website called FedsPulse (<http://pulse.feds.ca>). It features YouTube videos, podcasts, a forum, photo gallery, etc. Right now I'd like to direct you to <http://pulse.feds.ca/election> where you can learn about the 2007 Ontario General Election and Referendum being held on October 10th. I hope you all read up and get out to vote!

## University Politics Explained



**DAVID YIP**  
'07 MECHANICAL

Maybe you hate politics. Maybe you think that horribly lame etymological joke about "poli" and "tics" has some truth to it. But regardless, politics is, and will be, a pervasive force in your life for as long as you live in a society of any kind. Whether you choose to get involved in student government or not, the policies and decisions of those in power will affect courses you have, the holidays you take, and most importantly, the fees you pay. The real world has its own set of politics – far away I know. However, closer to home, here at the University, there is also a government system with differing levels and representatives, each holding certain powers that affect our scholastic lives.

It's useful then, to have an overview of the power structure on campus. Broadly, there are two groups on campus: the students, and the school.

### Student Representation

#### Engineering Society

The closest level of government in the school to you is the Engineering Society. Article IIb in the Constitution of this student society states that one of its objectives is "To represent the interests of its members in relations with the Faculty of Engineering Administration, the Engineering Faculty Council, the Federation of Students, and student organizations of other faculties and universities."

Your class reps represent your class on the Engineering Society, and concerns you may have can be routed through your class reps to the other members of the Society, including its Executive, though direct comments I'm sure are always welcome. The Exec can usually be reached through e-mail. EngSoc can usually address or support any concerns or ideas about student life in Engineering. For example, if you think the food in the C&D is terrible, or there need to be more dodgeball tournaments, or that POETS desperately needs a retro 80s night, talk to EngSoc. They also have money, which is also nice for supporting student teams or student trips.

The Society then represents you to other governing bodies, as stated in Article IIa.

#### Federation of Students

The undergraduate student organization at the University of Waterloo is the Feds – Federation of Students. Apart from offering services such as Used Bookstore, Fed Bus, and the Bombshelter Pub, it also represents students to the University, as well as to the local, provincial, and national government.

The Federation of Students has a two-tier organization: a Board of Directors, and a Student Council. "The Student Council is the one unified body that exclusively represents all full-time undergraduate students at the University. The Council is the body responsible for proposing and approving referenda, elections, and discussing issues such as enrollment growth, tuition, and other university policies." Each faculty is represented by councillors, proportional to the size of the faculty. You, as an Engineering student, are represented by six coun-

cillors on the Student Council.

The Feds Board of Directors meets "largely to discuss the legal, contractual, and financial affairs" of the Feds. The Feds Executive sits on the Board of Directors, along with five members of the Student Council and a General Manager. It is not meant to be representative of all faculties, and exists to resolve issues that the Student Council may have trouble resolving.

The Feds have pretty low visibility, especially for Engineering, and chances are the only Feds exposure you'll have is the Used Bookstore and the Bomber. Every new Feds administration makes promises of visibility and accessibility, providing a voice for students and all that jazz, but what actually happens remains to be seen. However for issues such as fees – bus pass, health plan, tuition and such, Feds will hear your comments. One of its jobs is to keep an eye on the University administration and ensure its policies do not unduly slight students.

Student organizations such as Feds and its counterparts at other universities in Canada form various provincial and national level student advocacy groups that lobby the government on issues such as tuition fees, tax credits, and other policies related to higher education. In Ontario, undergraduate students are represented by OUSA – Ontario Undergraduate Student Alliance. At the national level students are represented by the Canadian Alliance of Student Associations.

### University Governance

Apart from these student governments, there is also the government of the univer-

sity itself. It is governed bicamerally – that is, there are two "houses" that coexist, analogous to the two houses of Parliament, the House of Commons and the Senate. The two houses of the University are the Senate and the Board of Governors. The Board has "overall responsibility for the affairs of the University", while the Senate's role is to "establish the University's educational policies."

#### Board of Governors

The Board of Governors, responsible for the overall directions of the University, is composed of thirty-six Canadian citizens. Things like new buildings and budgets are approved by the Board of Governors. Members of the Board include the President and Chancellor of the university, the Mayors of both Waterloo and Kitchener, and a Regional Chair representing the Region of Waterloo.

There are also ten members from the community-at-large. These members are intended to "represent a broad spectrum of the community". Prominent business figures are included in the community-at-large – some of their names or affiliations may be familiar. Bill Tatham (of Tatham Centre fame) sits on the Board, along with Ray Tanguay, President of Toyota Motor Manufacturing Canada. The Board is currently chaired by Bob Harding, who is also Chairman of Brookfield Asset Management, "a global asset manager focused on property, power and other infrastructure assets with over US\$75 billion of assets under management."

Also on the Board of Governors are sev-

# The Many Levels of University Governance

## GOVERNANCE

Continued from Page 5

en members of the Senate, appointed by faculty members of the Senate. They provide representation for the different faculties of the school.

Five student senators sit on the Board of Governors, two of whom are graduate students.

Other members of university staff, and members appointed by the Lieutenant Governor in Council also sit on the Board. Committees composed of members of the Board are formed to focus on specific areas, such as the Audit Committee, and the Building and Property Committee.

### Senate

The Senate is responsible for the educational direction of the school. For example, earlier this year, it approved the new Bachelor of Knowledge Integration program.

It is chaired by the President, David Johnston. Representatives from all academic facets of the school are on the Senate. Members include the deans and faculty representatives of all six faculties (Arts, Applied Health Sciences, Engineering, Science, Environmental Studies, and Graduate Studies), and the principals of our affiliated colleges (Renison, St Jerome's, St Paul's, Grebel). The Librarian and Registrar also sit on the Senate.

Three faculty members from each faculty represent the teaching staff, and the presi-

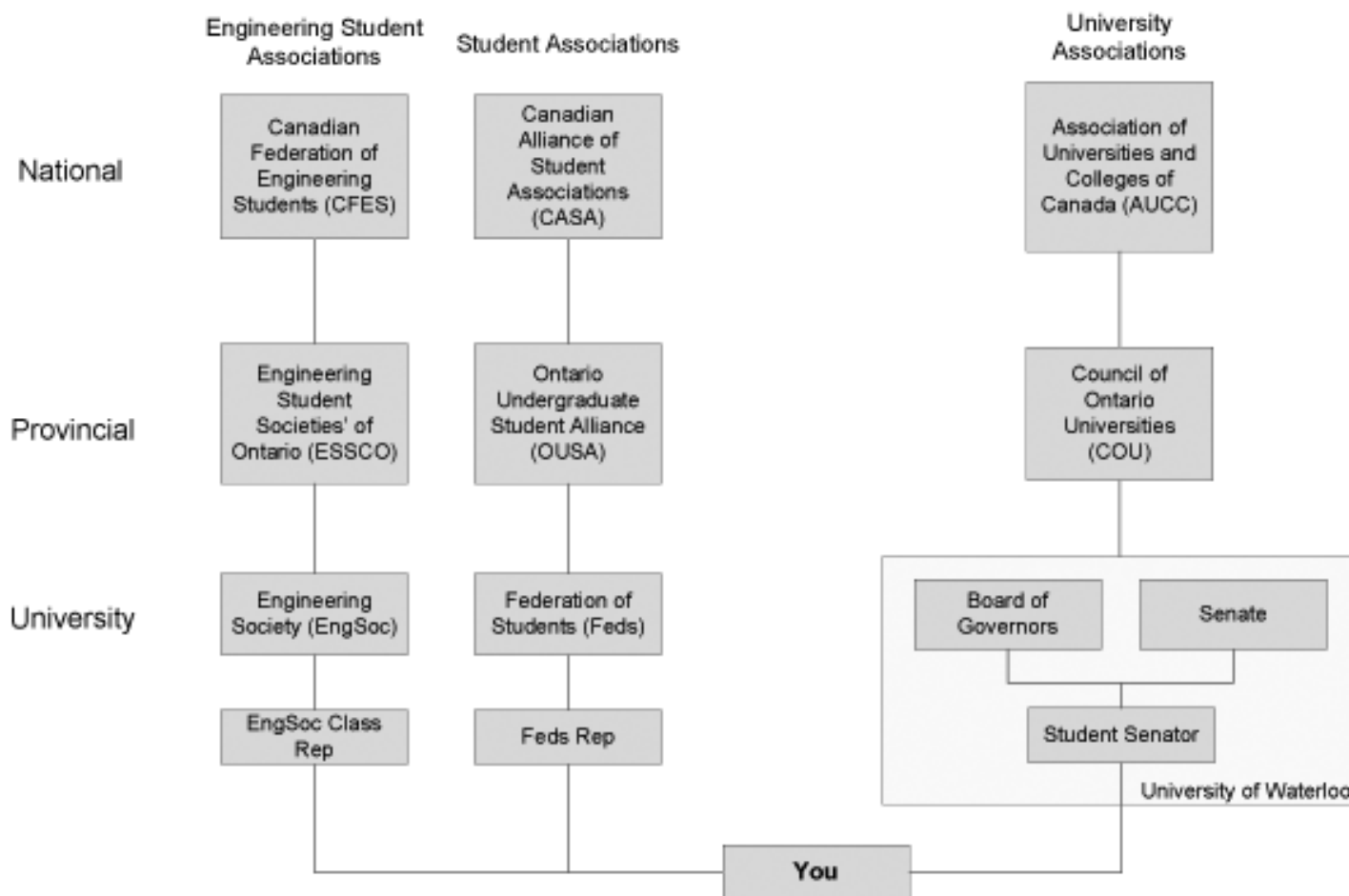
dents of the Faculty Association and Federation of Students, and Graduate Student Association are also present. Each faculty

also has one undergraduate student senator, and four student senators representing graduate students. Rounding out the Senate are the ex-officio members (Members that hold seats because of other positions), alumni representatives, and other representatives from the community-at-large, chosen from the Board of Governors.

So there you have it. In sum, the Engineering Society serves you as an Engineering student. Feds serves you as an undergraduate student at Waterloo. Moving on up, there are provincial and national student lobbies that represent your interests.

On the university side, the Board of Governors determines the overall direction of the university, and is staffed by members of the community, prominent business figures, as well as members of the university itself. The Senate, on the other hand, determines the educational direction of the school. It's true that you may never choose to read about these institutions again. But you can be sure their meetings and decisions will affect you, and it pays to be informed.

As attributed to Plato – "One of the penalties for refusing to participate in politics is being governed by your inferiors."



University governance structures in relation to an Engineering student.

**P\*\*5**  
Iron Warrior

**10**  
points

for reading this issue!

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Deposit in P\*\*5 Drop Box in the Office.  
Earning points contributes to a chance for your class to win cash at the end of term.

### WHAT IS P\*\*5?

P\*\*5 points are participation points awarded to YOUR class for taking part in EngSoc events, class parties, and school activities

### WHAT DO I GET FOR HAVING POINTS?

Money!! The top THREE classes will receive cash prizes for their awesome participation throughout the term. What the money is spent on is up to the discretion of your class. Putting it towards something your whole class enjoys is a great way to reward everyone at the end of the term.

### WHERE DO I SUBMIT THIS?

The EngSoc Office on the first floor of CPH. There is a colourful P\*\*5 box specifically for these coupons!

### ARE COUPONS THE ONLY WAY WE CAN EARN POINTS?

No way! At the middle and end of term there will be a submission period where you can send us other activities that your class may be involved in. Maybe you have a varsity baseball player... or had a class theme for Hallowe'en?

### STILL CONFUSED? ASK US!

P\*\*5 Directors: Emily Ecker, Ross Ricupero, Tiffany Terrier  
bsoc\_p5@engmail.uwaterloo.ca

- Watch for your class on the leader board in CPH Foyer! -



**ALLY CHAN**  
4A CHEMICAL

"This one time, at Band Camp..."

Sound familiar? Then maybe you're wondering how you can study Engineering, but still be able to play music. There are plenty of groups affiliated with UW on campus that you can read about (see Mark Hazlett's article in the frosh issue) but I'm going to tell you more about the best option: The Engineering Jazz Band.

The Engineering Jazz Band is a collection of 20 to 25 members from across the faculty that come together in the SLC Multipurpose Room Sunday nights. We rehearse from 7-9:30, with weekly sectionals based on individual schedules. The band is completely self-run where we choose how many and what pieces to play. The way we play it? We decide as a group. Want a solo? You can have one. Want to change the arrangement? We'll work it out. What can be more fun than a bunch of engineers trying to make music?

The band plays at various Engineering Society events such as TalEng, EngPlay, and various coffeehouses. We've been invited to play at Warrior Weekends, and the Canada Day celebrations! We also organize a large charity gig at the end of term

to showcase everything we've worked on. All proceeds go to a charity of our choice.

If you're interested in being part of this group, e-mail [engjazzband@gmail.com](mailto:engjazzband@gmail.com) with your name, e-mail, program/term, instrument, and what experience you have with your instrument! If you don't play a typical jazz instrument, send an e-mail anyway and we'll see how we can fit you in. In the past we've even had a couple violinists! If you're interested in conducting, leading, or managing the band as well, make note of that in your e-mail. We're looking for a new director and co-director.

The time commitment is about 4 hours a week, and can be heavier when gigs start rolling around. Although fun is the main aspect of this band, please be prepared for this commitment! We've got some cool band names too! On B-soc (Fall 07), the band is coined "With Respect to Time" and on A-soc (Winter 08), "Speed of Sound".



B-Soc Jazz Band "With Respect To Time" after a performance.

## Point

## Should We Support the 2007 Ontario Electoral Reform Referendum?

## Counterpoint



**ANDREW DODDS**  
2B MECHANICAL

There's a provincial election coming up fast; it will be held on October 10th. Did you know that? I have a strong feeling you didn't, since it hasn't been publicized all that well. Unless you scour the Internet for ads or read the junk mail cluttering your kitchen counters, it's probably even less likely that you've heard about the provincial referendum being held at the same time. It's a referendum that could change our government in a very meaningful way.

No, in case you were wondering, it is not a referendum about separation. The referendum asks us to decide whether or not to change the way we elect our government. Currently, we all vote for one candidate in our riding, and of all the candidates, whoever has the most votes wins that seat; this is known as the First-Past-The-Post (FPTP) system. Most people are happy with the system, they do not want change. However, when forced to carefully examine the current system, Ontarians actually gave a very resounding 'yes'.

How do I know this? It's quite simple really. A study was commissioned a while back, with the purpose of investigating other forms of voting. The study group was filled with ordinary people like yourself. There were 52 each of men and women, representing all age groups from teens on up to seniors, and from each riding in the province. Collectively, they have as varied a background as your neighbourhood, coming from all over Canada and the world. Their job was to spend time seeing how other countries compare to Canada in electing governments, and to figure out if the FPTP system was the best, or if we could improve it somewhat.

It is easy to point out how the system is flawed. The FPTP system used in the United States allowed Al Gore to become one of only a few presidential candidates to get more votes than his adversary, but still lose the election (he also got more of the districts too, but let's not get into that mess). In our elections, it is often even more drastic: a party here can be supported by as little as a third of voters (such as Harper receiving less than 37% of the votes), and yet still be given the throne of power, despite the majority of voices calling for someone else to take the lead. Those ignored voices mean that the Green Party's results in the federal election, an impressive showing of 4.5%, garnered no seats, despite 4.5% of the 308 seats in parliament should equal at least 13 seats. The biggest insult is that all the votes not cast for the winning candidate in our elections are basically worthless (aside from determining funds parties can receive), and that often leaves a vast majority of Canadians' voices being ignored when determining our future.

After examining many different systems, the study group voted over 84% in favour of adopting the new system, which I think it's about time to explain. The new system would have ballots with two votes. On the one side would be the candidates in your riding. You would vote for them, and still using the FPTP system, one of them would be elected. They would receive one of 90 seats elected in the province this way (currently we have 107 ridings). The other side is the special part. On it, there would be listed all the parties in Canada who are running for seats, meaning even if the Green Party wasn't running a candidate in your riding, their name would still be on that list. You would vote for one of those parties, and the tally of those votes across the province would show the percent support each party has.

What does that do you ask? As I mentioned before, our system allows for great differences between the number of seats a party gets and the number of votes it gets (the winning party usually gets many more seats than they had votes, and the rest often receive far fewer seats than their votes should have given them). The mixed member proportional (MMP) system would create an additional 39 seats (for a total of 129 seats, still the highest ratio of voters to MPPs in the country), and they would be assigned based on that second, party specific vote on your ballot.

As an example, let's say that I support the Green Party. However, I know that in my riding, voting for the Green Candidate will not likely mean she gets elected. I will then vote for the NDP, since they have a shot at the seat. But on the party vote section of the ballot, I will vote for the Green Party. In the MMP system, if party votes give a party 3% of the total votes, they are eligible for one of these 39 seats, known as list seats. They are assigned based on the difference between the percent of those 90 riding seats a party receives, and the percent of the party votes received. If the Green Party got 4.5% of the vote, but elected no riding MPPs, that would get them 5 or 6 of the list seats, which is 4.5% of the total seats available. List seat members are chosen from a list of eligible members of the party, put on the list in a clear and transparent way. This way, the votes we cast really do count. We can pick candidates we support because we know them well, and yet still vote for a different party with the other side of the new ballot. The best part is that each of those party votes will matter. The 4.5% the Green Party got in the last Federal election, which got them 0 seats, would now get them a handful, and finally give a voice to the 1 in 20 Canadians who supported them.

Get out on October 10th and vote for the MMP system. It will finally give your vote a real voice. There will no longer be the reason for not voting of "My vote doesn't matter, it won't change anything". With the MMP system, it certainly will. Some would say that this system is too complicated, but it is used by Germany and New Zealand, and I would never suggest that we are less able to understand the system in comparison to those countries. Others say that this will generate weak governments that can never get anything done. The reality is that with a minority government, Harper's Conservatives have made many policy changes to our country. Under the MMP Governments would have to work with the other parties, which ensures that the principles of Canadians common across party boundaries, such as the environment, will get good representation. Do you have a problem with the list seats, with a representative accountable to no riding? Remember that they are accountable to the party that they are a part of. Also remember that such MPPs have a much greater ability to push forward changes that help us all, since they have no ties to helping out a small pocket of the population.

Regardless of the complexity of it all, it should be said that voting is about giving the citizens a voice and letting them decide their future. When you look at the two systems, I think it is clear to see that making every ballot count certainly represents us better than disregarding over half the opinions in our province. 104 people just like you, who are your age, come from your hometown, speak your language, immigrated from your country of birth and represent every bit of diversity that makes Canada great. Those 104 people voted over 84% in favour of this system. They saw something good in it. If you take a look, choose to learn more, it's likely that you will see the good in it too.



**JEFF KAO**  
4A SYSTEMS DESIGN

Did you know that this is Ontario's 6th Referendum, and the first one since 1924? While the first five referendums concerned the question of Prohibition, this referendum poses a question that may garner somewhat more support among UW engineers - whether or not to switch over to a mixed member proportional electoral system. Unfortunately, just like alcohol prohibition, the proposed change is a mistake.

Now, I will be the first to agree that the current First Past The Post system has its own shortcomings. Nevertheless, making this drastic switch without considering its consequences would bring forth problems far more serious than the status quo. After all, our current (albeit imperfect) system has been working since 1867. It would be rash to jump on the first idea that comes our way.

The first major issue with the proposed system is the dilution of local interests in provincial decisions. In the new system 39 proportional seats are occupied by members of political parties selected from predetermined party lists. These individuals will not be responsible to any constituency, and will vote along ideological lines as opposed to the interests of their constituents. At the same time, constituencies will be combined and their number reduced. This will be a problem especially in rural areas and northern Ontario, where their voices are already small and their interests neglected. The role of government should be to follow the rule of the majority while protecting the interests of the minority. The proposed electoral changes move away from those principles.

Another concern is the makeup of these party lists. Political parties are allowed to include whomever they choose in the lists. This is particularly distressing because it would allow the election of individuals with 0% popular support. For major parties that may expect to fill more than ten of these seats, it is entirely possible that unelectable individuals could slip in and have a voice in the legislature. Additionally, the proposed changes state that if a party seat vacated for any reason, is must be filled by the next member from the closed list. This would give room for all sorts of political machination to ensue, and is far from democratic. Contrast the proposed system with the mixed member proportional system of the German state of Baden-Wurttemberg. Party seats instead must be filled by the best runner-ups of the past election to ensure that

party seat members still had substantial public support. Why couldn't we adopt a more democratic change in the proposed reforms? Perhaps it was the best that the Ontario Citizens' Assembly of 103 randomly selected citizens (1 from each electoral district) could come up with.

Supporters say that the new system will give minority parties like the Green Party a voice. While I believe that the Green Party would have a positive influence if elected, my own opinion must be tempered by principle. After all, what if down the road an extremist/radical party gains 3% of the popular party vote? (the percentage required to gain a party seat) Think that this is impossible? I can still recall the election of 2000 when Rick Mercer collected enough signatures on a petition (3% of the Canadian electorate) requiring Stockwell Day to change his first name to "Doris". Let's give minor parties representation, but only in a responsible way, when they have been elected locally with a clear mandate.

Finally, as much as I wish it was not the case, many voters simply do not understand or want to make the effort to understand the implications of the current proposals. There needs to be greater education on the proposed electoral system and its consequences. If an important decision is put to a plebiscite without all the information, there will be both a flawed referendum, and also a flawed electoral process as voters misunderstand the power of their vote. Politics needs to be more accessible to the public, not the reverse.

In short, I urge you to learn about electoral reform, learn about your candidates, and make an informed, measured, and reasoned choice this upcoming election. We must not jump on the first 'good' idea that comes our way without regard to the consequences. While our electoral system could certainly be improved, this is our first referendum on reform in over 200 years. If we make these drastic reforms now, how will we get another chance to fix it? Let's make sure we get it right the first time. On October 10, get out to the polls and vote for your local candidate, but more importantly, say no to a flawed proposition for electoral reform!

**Editor's Note:**

*Point - 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.

**Proposed Mixed Member Proportional (MMP) Electoral System**

- Two votes per voter: 1 for the local candidate and 1 for the party
- Increase seats from 107 to 129: 90 Local members, and 39 Party List members
- Recommended by Citizens' Assembly on Electoral Reform

**Citizens' Assembly on Electoral Reform**

- 103 randomly selected citizens: 1 from each electoral district and 1 chair
- 52 male members, 52 female members, at least 1 aboriginal member
- Met twice a month for eight months, submitting a report to the government on May 15, 2007

**Introduction of the new MMP system**

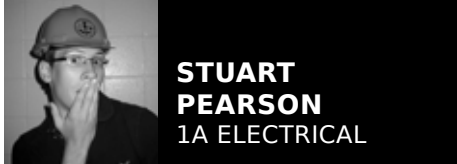
- 50% of the voters in 64 electoral districts vote for Mixed Member Proportional and 60%+ of all the referendum ballots across the province choose the alternative system
- By December 31st, 2008, the new government would have to introduce a law to officially make Mixed Member Proportional Ontario's new system

For more information, please visit <http://www.citizensassembly.gov.on.ca/en/default.asp>, and <http://www.yourbigdecision.ca/>



# week of *dis*orientation!

## What? It's Over Already? Did You Have Fun, Frosh?



**STUART PEARSON**  
1A ELECTRICAL

Striding purposefully across the parking lot with my Bed-in-a-bag and DVD collection in hand, I began my Orientation Week spectacularly by walking into the wrong residence. It was only after several minutes of fumbling with my room key and an awkward run-in with the other building's don that I realized my error. Fortunately, the rest of my week went rapidly uphill from that point on.

Overwhelmed but trusting that I was in for a good time, I entered my team headquarters on the first morning of Frosh Week and was immediately blown away by the amount of work that had gone into preparing for this event. Clearly these people were *really* into it! My teammates for the week

seemed just as apprehensive about the whole thing as I did. Before arriving, I had heard about engineers being involved in all sorts of bizarre rituals and customs, so I was a little bit nervous about what lay ahead.

As we filed into a lecture hall to hear the Dean speak, it seemed as if we would be in for an informative, though potentially unexciting, morning. I could never have been more wrong - with bangs and barbaric battle cries, EDCOM burst into the room. Their chains, army boots and baseball bats immediately set the tone for the rest of the week - we were in for a hell of a ride! After full day of competing in events with our teams, I was caked in corn starch, mud, sweat, and even a little bit of

blood (OK, so it was only from stubbing my toe). This all seems trivial, however, as the fact remained: I had earned my hardhat.

The next morning, we were serenaded from our slumber at a truly ungodly hour by the bagpipes of EDCOM. As a lifelong fan of the TV show, I was awfully excited to participate in that morning's Junkyard Wars event. Creating bizarre contraptions with scrap materials really gave us a chance to put our inner MacGyvers to the test.

Later that day, we met The Tool for the first time. Gathering in a darkened room while Tool Bearers paraded the 60" Ridgid pipe wrench around was a strangely compelling experience. A small voice in the

*"A small voice in the back of my mind was beginning to question if I had inadvertently joined a cult, but I ignored it and lapped up the proceedings."*

back of my mind was beginning to question if I had inadvertently joined a cult, but I ignored it and lapped up the proceedings.

Friday night's scavenger hunt capped off the week's festivities, promising all kinds of unusual competitions and tests of our mettle. As a proud

member of the night's champion Full-Contact Calculus team, I struggled with my fellow Frosh through events like sheep-herding, 3D Twister, and Chicken Ball. The actual scavenging was quite a challenge, with the required loot ranging from Hell in a Hand Basket to a full set of bowling pins, and then some. When all was said and done, it was no doubt the best night that I have had in a long time.

Though it has already been at least two weeks since the merriment ceased, the spirit of Frosh Week still has me in its grasp. It has encouraged me to embrace the Engineering community here at Waterloo, and I will try my best to get involved in Orientation Week next year, so that others might benefit from the experience as much as I have.

SKANDA SHERIDHAR, 1A ELECTRICAL



## Frosh: The British Perspective



**REBECCA SINDALL**  
3<sup>RD</sup> YEAR CHEMICAL  
BIRMINGHAM (UK)

A new country, a new university, new people and the opportunity to be a Fresher all over again! Despite being a third year on exchange from University of Birmingham, UK, I jumped at the chance! I had

heard that Frosh Week here was poles apart from Freshers Week in UK and this information could not have been more accurate. At home, the thought of a dry Freshers Week would be laughable but here, that's exactly what happens. Removing alcohol from the equation changes a great deal. Something has to replace the world's most famous social lubricant, and Waterloo puts in its place school spirit and more chanting and cheering than I have ever encountered before in my life.

In UK, Freshers Week evenings are mainly taken up by clubbing events, with students from every hall of residence being bussed to heaving clubs all over the city. Departmental events generally consist of an introductory lecture and a welcome lunch. The rest of your daytime activities consist of the Sports Fair (to sign up for sports teams), the Societies Fair (to sign up for clubs and societies), the Freshers Fair (to collect as much free stuff as possible)

and of course, the dreaded queue for registration. Here, all of that is dealt with in the first two weeks of the term, after Frosh, or in the case of registration, before you even arrive.

It was strange to be surrounded by students three or four years younger than I am but I quickly warmed to the idea. I was as new and as lost as they were so I fit in surprisingly well. Besides, once the week was underway, it did not matter what age

I was or where I was from. All that mattered was that I was a light green engineer! The events organized by the Faculty of Engineering were amazing. I would never have guessed that you could fit more than sixty people into a van, that sliding down waterslides fully clothed and

scquelching through mud could be such fun, or that owning a yellow hard hat could give someone such pride!

The number of faces that I still recognize on campus from Frosh events amazes me. Frosh Week at Waterloo was a fantastic experience and one that I will remember far better and far longer than Freshers Week at Birmingham.

*Ed: The Editor would like to note that, through the most singular of coincidences, Rebecca was also his classmate from halfway across the world over six years ago and that the Editor just happened to be Rebecca's Frosh leader this year. Small world, eh? Go figure.*



Eager frosh members of the eventual winning team, Purple, look on during the first day of Frosh Week activities

# talkin' about my generation!

This Frosh Week centrefold was written, drawn, photographed and produced exclusively by the Frosh!

## What a Week!



**CHERRY HO**  
1A ELECTRICAL

Engineering orientation started bright and early at around 8 on Tuesday morning, with all the frosh running around campus trying to find out where they belong. With the huge campus and the maze of buildings, it wasn't very hard to get lost. Finding the engineering orientation headquarters wasn't too difficult, because all you had to do was look around for signs, chalk drawings, or long pieces of yarn with your assigned group colour, and follow the arrows all the way to the building, where there were plenty of leaders waiting to guide you to the right place.

After registering, we got our new nicknames and shirts with our team colours on them. We were then introduced to our orientation week leaders, the Huges and the Bigs. They were the friendliest and enthusiastic people, helping and cheering us on during the activities, and making sure that nothing went wrong. The leaders introduced us to the game of ERTW, and we learned our team cheers and the counter cheers used to insult the other teams.

We each earned our very own shiny yellow hard hats on the first day, and were told that we had to wear them, along with the team T-shirts, to all the other engineering frosh week events. Earning the hard hats was challenging, but also fun at the same time. Each team had to compete with other teams at many different teamwork and leadership activities, such as wall climbing, walking through mud pits, racing through obstacle courses, and even stuffing as many people into a car as possible. At the end of the day, after taking the oath and earning the hard hats, we all gathered together on the B2 Green to take an aerial photo.

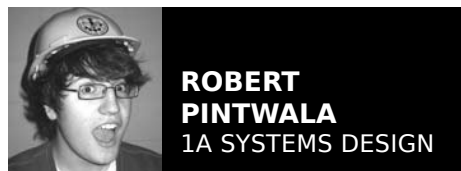
Meeting the Engineering Faculty mascot, the Tool, was another memorable and significant event during frosh week. To get a better view of the Tool, we had to impress EDCOM by performing skits and sacrificing our team mascots to their sledge hammers. We learned about the history of the Tool, as well as its significance.

Overall, engineering frosh week was a great experience!



An intrepid leader lies in the mud pit after the messier Frosh Week events

## A Week of Scrumtreles-



**ROBERT PINTWALA**  
1A SYSTEMS DESIGN

My frosh week began in much the same way as those that had come before; an early Monday morning and the excited hurry of my entire family (well, for them at least). However, I was feeling a bit under the weather – a recurring theme throughout the entire week. The drive from Burlington went by quickly, though the regrettable ache in my gut did not.

Upon arriving to Village 1 East's drop-off zone and unloading my belongings, a mob of people wearing blue sweaters quickly descended upon me. One particular person stepped forward and grabbed a rather heavy duffel bag. The bag contained objects of questionable legality, so I immediately intervened and told her that I would carry it myself because it was "heavy and... all".

Once the overwhelmingly large number of boxes and bags were safe in my room, I left and began to wander the residences. I didn't need to unpack my things – that's what mothers and sisters are for. Besides, they could do a better job organizing than I ever could.

I made my way to the PAC, signed up

for Frosh Week, and was told that my colour was "light blue", and that my theme was "the Empire... you know, from Star Wars?". How those two could possibly be related is beyond me, but I digress. The remainder of the Monday was spent meeting people. I guess I spent too much time out, because come 10:30 Tuesday morning I realized that I had slept in. With the help of a FOC, I eventually met up with my group, and had a blast with the group challenges. Earning our hard hats was very cool, as was the aerial photo, which I am looking forward to see.

The next morning was an interesting one. I vaguely remember looking at my clock and seeing the digits 6:45, while being treated to a wonderful rendition of "Scotland the Brave" – all from right outside my window! I'd like to personally thank EDCOM for that one. Later that morning, Junkyard Wars began, which was definitely a highlight of the week. Although our group was Junkyard-handicapped, we still had some good laughs. My contribution to the war effort involved singing a Beach Boys-inspired song for EDCOM, and then taking said song and remixing it into a hit rap single.

Just when I thought that I could cheer no more, I was introduced to The Tool. I chanted and yelled along with the masses until my throat hurt, and had a hell of a

time doing it. When we were first taught the chant, "Tool, Tool, 60-inch wrench!", I couldn't help but notice that something was off. There was something about the phrase that gave me the impression that there was more to the mental picture.

Thursday provided me with a chance to catch my breath and nurse my growing headache. The ELPE was an absolute breeze (I told you wimps, they were just checking to make sure that you're not illiterate. If you're reading this, you passed). At Monte Carlo night, I managed to make it into the High Rollers' Room, only to sit at the one table with a dealer who didn't know how to deal. She was pretty, though, so I guess I can't fault her. Needless to say, I lost all my chips and went home.

The following evening was by far the best event of the entire week. My friends and I didn't know what to expect in the scavenger hunt, but we decided to check it out nonetheless. We were pleasantly surprised by what we found. My team proved to be more a group of kleptomaniacs than scavengers, as we went on to steal what may or may not have been EDCOM's car door (who knew that it would be so damn heavy? My back is still aching).

Looking back, I can't help but laugh. Frosh Week ended up becoming one of the best weeks of my life. I made some great friends and shared some awesome times. The ridiculous amount of memories that I will keep forever is the best testament to the scumtrelescence of Frosh Week!



# Frosh: Welcome to Your First Year of Engineering



**KEVIN CEDRONE**  
4N MECHANICAL

First off, welcome to all students entering their first year of Engineering studies at Waterloo. You have entered one of the finest universities in Canada and this is an exciting point of time in your life. UW will provide countless opportunities for personal and academic growth: to make new friends, to visit new places, to develop critical analysis skills, and to develop a career of your choice. The next few years will be some of the best and the most challenging of your life. You will spend approximately five years to complete your undergraduate degree. With an investment like this it is important that you start this process with a little bit of care and planning. The aim of this article is to inform you of a few resources and tips that will make those five years easier.

The First Year Engineering Office is there to help you plan and manage the transition from high school and home to a new environment in the university. In a lot of ways, starting university is synonymous with becoming an adult. Independent living gives you the freedom to do what you like. This is a double-edge sword: In the words of Stan Lee, "With great power comes great responsibility". Living at school saddles you with the responsibility of taking care of yourself. It is your choice to attend classes, complete assignments, or write exams; however, they are highly recommended (especially the latter one). It may not feel like it at the time but you really will profit from the effort that you

invest.

The decisions that you make now will have far-reaching consequences later in your life. So, choose wisely! Here are some tips on succeeding in Engineering at Waterloo.

## Balance your Life

Your first thought when starting your university career may be at one end of two extremes, either constant studying, or possibly, constant partying. Neither of these extremes is the ideal choice for long periods of time. As usual, the optimal arrangement is somewhere in between. It comes down to the balance between mind, body, and soul. To be successful in life you need to nurture all of these parts because they depend on each other for survival. It is imperative to find your balance while you're in first year while the stakes are low so that you can keep it up as your studies get more intense in upper years.

For your mind, you need to spend time studying and developing critical analysis skills; for your body you need to eat, sleep, and exercise regularly; and for your soul you need to relax with friends or take part in extracurricular activities. Not only do you have to nurture all three parts, you need to balance the amount of time spent on each activity. To be honest, balance at UW probably means more studying than some of your friends at other universities. So while studying is the major activity you are expected to do, it is crucial that you not ignore other aspects of life. To be equal

parts honest and euphemistically vague, there will be times when your sanity and continued success at UW will depend on the balance you can manage. Sometimes that means cutting lose and emphasizing social connections more strongly than academic activities. What you are encouraged to discover during first year is find your optimal balance.

Time will become an important resource that is in short supply during your undergraduate career. There will never be enough time to complete all the tasks to the degree of satisfaction that you would like. To optimize your efforts you will have to prioritize and spend an appropriate amount of time on each academic, physical, and social activity. A schedule for all these activities can help you, but you must follow your schedule and make adjustments to it as you go along.

## Ask for Help

All Engineering programs are demanding and have heavy workloads. The workload may result in limited time to understand a concept, finish an assignment or project, or prepare for an exam. This is why it is important to make a time schedule and to use it every day of your life. The lack of time may also cause stress. In these situations, you will need help with your studies or personal life. Keep in mind that between doing everything yourself and doing nothing, asking for help is the better choice. There is no shame in asking for help when you feel the need. To me, taking advantage of every resource you need to

complete the job at hand is easier to palate than failing because you were too proud to ask for help.

There are many sources of academic help available at the University. First will be your classmates and friends studying the same or similar subjects. Help is also available from your course instructors and teaching assistants during lectures and tutorials. You can reach them outside class hours by making appointments to see them in their office on contacting them by e-mail. Additional help is available through special staff and tutors hired by the First Year Office to help you with your courses. The Director and Associate Director of First Year Engineering are also available to provide academic counselling of a more general nature; for example, in case your academic performance is not meeting the standards set for all students, or if you want to take extra courses during your normal study or work terms, or courses at another university.

Counselling Services can help you with stress, personal issues, and to learn study and time management skills. There are Engineering Counsellors available within the First Year Office, or you can go to Needles Hall for additional university counselling services.

If you are dealing with significant personal or medical issues during your study term, you must inform the First Year Office, especially if you are going to miss classes and exams, or not complete assignments during the term. You have access to doctors and nurses on campus at Health Services. For fitness, Campus Recreation offers a wide variety of intramural activi-

See SURVIVING on Page 11

# Music Review: The Money is on this Cantonese Rhapsody



**GABRIEL CHAN**  
4A SYSTEMS DESIGN

After a whole year of listening to Die Fantastischen Vier (and no Rammstein - everyone in Germany thinks "Rammstein ist scheisse"), I am finally fully tuning back to my old playlist of fabulous outlandish blissful music, which for the purpose of this article I shall abbreviate to FOB music.

Just about a month ago, one of my favourite singers, Leo Ku, released a new album called Moments. In the FOB music industry where a good 90% of the artists are substandard, an album from one of the other 10% is going to be closely-watched by fans worldwide. As if that kind of attention was not enough, the second track in the album generated even more attention. As we all know, mass attention can only mean something is earning much praise or much controversy.

The song in question is called Money and the song is about, well, money. That is not the controversy, even though the world (especially co-op students who worked south of our border last term) is understandably upset to see the US Dollar drop faster than George W. Bush's approval ratings. This FOB song is accused of copying Bohemian Rhapsody by Queen.

If you are familiar with Leo Ku, you shouldn't be too surprised by another strange funky quality product from Ku Kwai Kei. If you are familiar with Bohe-

mian Rhapsody, Money would definitely remind you of Queen's hit song. It is a whole different matter to use sensitive words like copied or ripped-off to describe it. Only the intro vaguely resembles it; otherwise, the rest of the song, the melody, the lyrics, the entire feel of the music is completely different!

For those who study or listen to a lot of music, it will not be hard to recognize that Leo Ku and Queen both were inspired by progressive rock, a style that is now considered more or less outdated. It is unfortunate that some, who were never exposed to such FOB music, still retain a narrow mind when judging other artists' works. Yet when film director Martin Scorsese copied Hong Kong's Infernal Affairs trilogy, and crammed it into a diluted train wreck called The Departed, almost everyone thought it was brilliant. Western-world-centric worldview of entertainment is a sad reality indeed.

But anyhow, back to the song, which itself presents a sad reality: we are all slaves of money. First we are driven by necessity, then by greed. Yet when (or if) we finally reach our goal, we realize that money cannot buy happiness, but by that time, it is too late. Life sucks, doesn't it?

Funny lyrics, good tunes, plenty of controversy: what more can you ask for in a single song? If you are a fan of FOB music, this should be a part of your collection (of legitimate legal CDs and MP3s, of course). I recommend having a listen over it and enjoy what talented artists from the other side of the world have to offer.



Justin, Leo Ku (Kui Kei), and Alex Fong (Lik Sun) co-operated to make Money.

# Memoirs of a Frosh Leader Continuing the Tradition



**BEN WHAN**  
4A SYSTEMS DESIGN

This year was my fourth and final year of leading Waterloo's Engineering Frosh through their orientation activities. From their first encounter with Edcom to Saturday night's Toga party, the leaders are there to show them the way. For any first years out there, eager to join the ranks of Bigs, Huges and SuperHuges, or any upper years who have forgotten the bliss of frosh week, I must now rekindle that light by recounting some of my favourite frosh week memories.

During my Frosh week (2003), I was a proud member of the Fuchsia group. Probably the lamest group I have ever seen, our entire arsenal of cheers consisted only of "Foosha-Foosha-Foosha, Woks-Woks-Woks" and "How do you spell Fuschia? F.U. - I don't know!", we had no mascots and our incredibly disorganized Edcom headquarter visit quickly deteriorated into our huge eating Styrofoam packing pellets.

In 2004, my first year as a leader, I was a member of the red brick Vikings when our fearless leader Matt Strickland was duct taped to a post and paraded around the village green to the cheers of "Strick-on-a-Stick".

In 2005, my pink Austin Powers themed group was the talk of the university, with our 12 foot long, very phallic "rocket ship" mascot. The glory however was short lived as a young girl from a competing group promptly punctured the left nut of our spaceship with the multi-tool from her frosh kit. The "rocket ship" was also confiscated by administration shortly thereafter. It was also the year of the Oscar trophies, which were awarded to the winners of each competition. While this provided some visibility to the achievements of each team, it also set the stage for inter group espionage, theft and downright violence as teams attempted to wrest the Oscars from each other's grip. One leader was assaulted while transferring his group's Oscars to his car. Some of you may also recall the junkyard

wars stampede that broke out after an Oscar was snatched from a group in plain view of about 1,500 Frosh on the village green. The Oscar exchanged hands as each carrier was overcome by the pursuing mob.

2006 brought more adventures, particularly during the scavenger hunt. I recall a group of Frosh managed to carry the Formula SAE car into the basement of RCH, a goat defecated in one of the systems classrooms, and a frosh who had misinterpreted an item on the acquisition list managed to walk out of the back door of the Silver Spur with a full keg of beer.

This year's Frosh Week was no exception. The theme was the game of Risk. Groups were awarded game pieces to be used in a massive game of risk at the conclusion of the week. This ambitious format proved quite practical, keeping all the groups in the game and making for an exciting final showdown on Sunday afternoon. Highlights included the new music video competition during the scavenger hunt. Each group was required to create and perform their own music video. The overwhelming themes of these videos seemed to surprisingly include cross dressing and immaturity - the winning performance climaxed with a frosh with two hardhats down his shirt throwing a mixture of tampons and condoms into the audience. The bagpipes brought an interesting new dimension to this year's Edcom that will hopefully be the start of a new tradition.

Memories aside, there are lots of advantages of being a frosh leader. It's a great way to develop your leadership skills, and you also get to meet tons of awesome people who you wouldn't normally run into on campus. If you are in the upper years, Frosh week is also a very rejuvenating start to the year, you get to experience the events vicariously through the Frosh. There is a certain air of excitement on campus that can be found only during frosh week. It's also a great chance to be on campus with your friends without the heavy burden of coursework engineering can provide.

I have definitely been inspired by many leaders during my frosh week experiences, and I hope that this year's leaders have done the same for you, so that there may be many more years of good frosh week memories to come.

## Letter from a Golf Cart

Hello Editor, it is I, the Golf Cart from the University of Western Ontario.

Let me tell you a tale of legend, one I will be sure to pass on to my grandchildren.

This summer I decided that I was tired of being used and tossed aside. People would ride me like a cheap whore and then leave me wherever they please, unattended, and unsafe. When they decided they were tired of riding me, they removed my wheels, took out my battery and left me in the UES room on campus, unlocked.

With the help of a few of my friends at the University of Waterloo, I managed to mount an escape. They wheeled me out and stowed me away in the back of their truck until I was safely away from the campus. They fixed me up and promised me that I would have fun during their frosh week. They wanted to show me a good time for a day or two, then return me to UES before the end of the Western orientation week, just so I could have a taste for what a real engineering school does for their fun. It was a fun break to get away from all the Western pretend-gineers for once.

Unfortunately someone without a sense of adventure in UES contacted the police, and since UES IS my legal guardian, legally I was kidnapped, although I never felt threatened the entire time I was there. In fact, I escaped the day before a car full of Western Engineers came to Waterloo to get their arses handed to them in a good ol' fashioned B.O.A.T. racing tournament (which they now have lost the nerve to ever participate in again). If I wanted to, I could have screamed for help (from the insanely slow BEvERage drinkers) right then and there but I chose to stay. My visit was cut short and I made it back to Western in time for the whole Orientation week. I wonder what it would have been like visiting Waterloo for a taste of their orientation week, maybe if I behave good all year, and ask nicely, UES will let me have a short vacation next year.

Sigh... What fond memories, especially the two strapping genius young handsome men who thought to offer me this way out for a short while. I will always remember this vacation as the best time of my life.

With much love,  
A Golf Cart from Western



**BAHMAN HADJI**  
4N COMPUTER

### FROSH Continued from Page 1

Awards were given out at ComEng, and each group's leaders acknowledged the fact that this year, there were several Frosh that stood out.

What remains now is for you to carry on your enthusiasm from Frosh Week. Try not to get too bogged down in your courses and

make sure to participate in extracurricular activities to supplement your academics, from taking on Engineering Society directorships to writing for The Iron Warrior to joining a student team. Make sure you show up to Engineering Society Council meetings and get informed, so you always know what is happening.

And remember: Frosh Week happens every year. That means that you can be a leader next year and make sure that the Class of 2013 has as good a week as you did. Keep your eyes out for applications later on this term, when you'll be able to sign up to be a Big, or try out to be a Huge, or even EDCOM.

## Ramadan: What & Why

**HUSSEIN EL KOTOB  
& JUNAID MALIK**  
1A ELECTRICAL

Why are some of your friends, roommates or acquaintances waking up at 4 in the morning to eat, and not eating or drinking the rest of the day till the sun sets? Have they gone mad? Are they on a crazy diet? It's probably unhealthy to not eat the whole day and still exert the same as any other 'normal' day, right? Well, we are here to explain to you that there is nothing to worry about. Your friend is merely fasting for the month of Ramadan. There is much confusion as to its purpose.

We are not theologians, and far from experts, but here's what we know: Fasting is more than keeping yourself hungry and thirsty. It's an exercise to develop a character that will help you throughout life. It's about discipline and strength of will. Not only must you refrain from food, sex and water, but you must try and combat evil thoughts, bad habits, unhealthy anger, idle talk/back biting and gossip and many other traits of bad character. This is the crux of the exercise - food and water are just its outward manifestations.

Ramadan is the ninth Islamic lunar month and is significant as it was the month in which the Holy Qur'an was revealed. Since the lunar year is about 11 to 12 days shorter than the solar year, Ramadan migrates

through the seasons. Through this month Muslims try to achieve an increased compassion for those in need and suffering, and a new found humbleness and appreciation for the necessities of life. Islam is not the only religion that practises a form of Fasting: Hinduism, Christianity, Judaism and Buddhism have similar rituals.

There are also health benefits of fasting. According to the Department of Health UK:

*"...the body enters into a fasting state eight hours or so after the last meal. When the absorption of nutrients is complete the body moves on to the glucose stored in the liver and the muscles, after that source of energy is consumed, the body turns to the fat stores for energy. This aids weight loss and reduces ones cholesterol levels. In addition weight loss results in better control of diabetes and reduces blood pressure. A detoxification of the body takes place too, while an increase in endorphins hormone results in a better level of alertness and an overall feeling of general mental well-being..."*

Some do it for a sense of achievement and others for spiritual beliefs. Whatever their intention maybe, we want everyone to understand why one would starve their carnal desires that are considered "necessities". Self-control, perseverance and patience are what define the month of Ramadan. So don't worry about your friends, they'll be just fine!

## Surviving your First Year

**WELCOME**  
Continued from Page 10

ties and there are two gym facilities (CIF and PAC).

### Be Professional

Engineering is a professional program, like many other programs such as medicine, law, and accounting. The work done by these professionals can, and does, affect the lives of many people. As a result, professionals are expected to adhere to high standards in their dealings with other people and amongst themselves. To help you develop as a professional person, you are expected to behave in a professional way with your fellow students, teaching assistants, instructors, and the entire University staff in general. This includes your job during co-op work terms as well. Any unprofessional behaviour during your university career can have serious consequences and, possibly including expulsion from the University or worse.

There are several things that being a professional entails. You have to be ethical, courteous, and considerate in all your

dealings and communicating your ideas and thoughts clearly. You should turn off your cell phone in lectures, and not disturbing your fellow students or the instructor by talking in class. You should treat everybody equally and without prejudice, regardless of their race, colour, creed, sex or religion.

Being a professional means not lying, cheating, or copying on assignments and exams. You must give credit where it is due, without misrepresenting somebody else's work as your own. Remember that Engineering is a demanding program and being pressed for time may tempt you to cut corners. Resist this temptation. If you are ever in doubt about what is professional or not, ask an instructor or teaching assistant to help you decide.

The First Year Engineering Office is located in CPH-1320, and can be reached at extension 84761 during normal working hours. Drop by and introduce yourself to the receptionist. Make sure you know what resources are available to you so you can maximize the chance of making it to fourth year. In four years, maybe you'll be writing an article to the incoming class.

# Clearing a Path Tries to Establish Office of Sustainability



**CHRIS FORTMUELLER**  
1A SYSTEMS DESIGN

## OFFICE

Continued from Page 1

also run its own projects, some of which would be continuations of projects started by Patti Cook and her UW WM Office. It was also decided that the office should enforce that environmental awareness be built into the curriculum of academic programs at UW. Branching out to the community was also determined to be an important goal: High schools, the cities of Waterloo and Kitchener, and businesses should be included and given the chance to voice their ideas on the issues of sustainability. One of the main ideas Clearing a Path has for this office is that the university and its stakeholders should share their knowledge in order to become more effective at reaching sustainability. Finally, the office would also prepare grant proposals and solicit donations in order to finance its projects.

The office would, according to Higgins, cost the university between \$60,000 and \$90,000 annually to operate. This would cover the salary of one full-time staff and 3 co-op students a year (one per term). Higgins described this cost as “peanuts”

for the university. The office’s projects would, so Higgins, be financed through grants and donations.

He also stated that the university would save money by running such an office, making it an investment that would return more than it would cost. As an example he mentioned that Patti Cook’s Waste Management Office, together with other departments and initiatives such as UW Plant Operations and WATgreen (a former environmental committee that was headed by Patti Cook and had faculty members from each faculty as well as students on it), saved UW “millions” by halving the entire waste output of the university. Several waste diversion and recycling programs that actually generated revenue for UW were also run by the WM Office.

Higgins claimed that when a sustainability office was proposed to UW’s administration it stated concerns that such an office would only create more bureaucracy and therefore not produce enough results. He also said that Clearing a Path does not currently have a timeline for the implementation of a Sustainability Office, because the UW administration would first need to be convinced of the need for such an office. He said that another attempt at proposing an office will be made later this term.

UWSP’s other workgroups are also in contact with UW’s administration. “Green Roofs over Waterloo” (GROW)

prepared an official proposal “to decrease University of Waterloo operating costs and improve building performance”. This proposal was sent to Mr. Huber (UW VP Admin & Finance) in early 2007. It included plans to install occupancy sensors in UW’s buildings in order to minimize unnecessary energy consumption by lights in empty rooms and hallways. It also included, among other plans, proposals to minimize heat loss and optimize air flow in UW’s buildings. The document also states that “efficient technologies and products do not have to have a cost premium, and those that do can have payback periods well within the university’s three to five year requirement. Universities across the country are demonstrating that sustainable campus development can be cost effective.”

Higgins confirmed this by stating that many other universities in Canada either have official campus sustainability offices (these include, among others, UBC, U of T, U Winnipeg, Concordia U, Queens U, U of Guelph, U of Manitoba, Memorial U and U of Calgary) or are supporting other sustainability initiatives (among others: Simon Fraser U, U Vic and U Ottawa). He also claimed that this trend is even stronger in the U.S., and that UW’s administration is not doing enough compared to these institutions. He stressed that due to the fact that UW does not have an Office of Sustainability it is unable to attend sus-

tainability conferences which many other universities send representatives to.

UBC’s Sustainability Office, which claims to be Canada’s leader in campus sustainability, occupies 8 staff and works together with 145 faculty and staff who act as “Sustainability coordinators”. The office has, according to its website (<http://www.sustain.ubc.ca>), saved UBC almost \$22 million since April 1, 1999 thanks to sustainability efforts. Additionally, since the same date, UBC has reduced Greenhouse gas emissions by more than 59,000 tons, saved almost 11 billion litres of water, 156 million kWh of electricity, and almost 130 million sheets of copy/printing paper. It also saves UBC \$75,000 worth of electricity annually.

As an additional benefit, aside from the environmental and monetary ones, Higgins thinks that students will benefit from working on sustainability projects together with a sustainability office. He says that they would gain applied knowledge and experience, thus receiving a better rounded education.

Higgins went on to emphasize that, in his opinion, UW cannot be a leader in the field of environmental sustainability if it does not have a sustainability office.

He also encouraged anyone who wants to get involved (students, staff, and faculty) to contact him at his email address ([vpin@feds.ca](mailto:vpin@feds.ca)) or pay UWSP a visit on the 3rd floor in the SLC.

# Information about OSPE & ESSCO Engineering Societies



**RUTH-ANNE VANDERWATER**  
ESSCO PRESIDENT

The Engineering Student Societies’ Council of Ontario (ESSCO) is a provincial level organization that was made by Ontario Engineering students to convince the PEO to create a student membership program. Since then it has been a link between the PEO and its 13 member schools. Not only does ESSCO link members with the PEO, it links members with the Ontario Society of Professional Engineers (OSPE). Although OSPE is less known among engineering students across the province, it has a lot to offer.

The Ontario Society of Professional Engineers (OSPE) is the voice of the engineering profession in Ontario.

There are three main components of OSPE. First, they advance the professional and economic interests of their members by advocating with governments. They have more of a focus on the provincial government than the federal government. OSPE is currently focusing on these three main issues:

1. Raising awareness of OSPE, their mandate and their members.
2. Offering constructive input into legislation and regulations that affect their members.
3. Pursuing demand-related legislation that can boost demand for engineering services across Ontario.

The idea behind the advocacy component of OSPE is to have the voice of engineers heard at the policy making table. OSPE works on getting policy makers to work with engineers who can help provide input and expertise while the laws and regulations are be-

ing drafted.

The second component of OSPE is offering services to its members. Some of the services that are offered to OSPE members include discounts on home and car insurance, car rentals, gas, eye glasses, legal services, entertainment venues, and hotels. The third component of OSPE provides opportunities for ongoing professional development including a career services centre and networking events.

Currently, OSPE has several services available to students, including discounts on many of the same items as a regular membership. Students are also able to use OSPE’s career services center to find a summer or work term job. OSPE is currently working with ESSCO to develop valuable services to their student members.

Over the past few months a relationship between OSPE and ESSCO has

begun to blossom. The two organizations have been in contact more often and have had a face to face meeting recently (with the PEO). OSPE’s presence will be more observable at upcoming ESSCO events to help increase their visibility among Ontario engineering students.

Right now ESSCO is currently working on facilitating communication between OSPE and a representative from each member school (most likely the VP-External or External Director). If you have any questions about OSPE and its relationship with ESSCO feel free to contact the ESSCO President at [president@essco.ca](mailto:president@essco.ca).

*Ruth-Anne Vanderwater is a fourth-year Computer Engineering student at the University of Waterloo and a former President of the Waterloo “A” Engineering Society.*

Upcoming Events Calendar						
Monday September 24	Tuesday September 25	Wednesday September 26	Thursday September 27	Friday September 28	Saturday September 29	Sunday September 30
5:30 : IW Meeting (POETS)		GradComm Pizza Enginuity Egg Drop challenge (11:45-12:15 CPH Foyer)	Boggan Burgers Women in Engineering movie night & Grey’s Anatomy (POETS)			
Monday October 1	Tuesday October 2	Wednesday October 3	Thursday October 4	Friday October 5	Saturday October 6	Sunday October 7
5:30 : IW Meeting (POETS) CECS: 1st round Interviews begin	Interview Skills workshop (11:30-12:30 CPH Foyer)	GradComm Pizza Class rep workshop (5:00) & EngSoc meeting (5:30) in CPH 3385	Boggan Burgers DUSTED (19:00)	Pancake Breakfast (8:00 CPH Foyer)		
Monday October 8	Tuesday October 9	Wednesday October 10	Thursday October 11	Friday October 12	Saturday October 13	Sunday October 14
5:30 : IW Meeting (POETS) Thanksgiving	Cupcake decorating workshop (11:30-12:30 CPH Foyer)	GradComm Pizza Enginuity Paper Glider challenge (11:45-12:15 CPH Foyer)	Boggan Burgers			



Check out up-to-the-day event postings on the EngSoc website at [engsoc.uwaterloo.ca](http://engsoc.uwaterloo.ca)



# Employers Going Too Far? Or Getting Too Smart?

# Top Ten Mildly Creepy Uses of Facebook

**ANDREW WONG**  
1A CHEMICAL

Every couple of decades there is something that comes along to change the face of society. The modern version of this development lies not within the concrete realm of society, rather somewhere unable to be pinpointed specifically. In the World Wide Web, we are witnessing a phenomenon that has and will continue to change the culture of youth today. The English dictionary doesn't house new vocabulary very often, but you can be sure that one word is waiting on its doorstep and ready to knock on the door — Facebook.

Facebook has done wonders in helping us adjust to life as a university student. For one thing, no longer do we have to be caught in awkward exchanges when asking for one's e-mail or phone number. Nowadays, all we simply have to do is type a couple keys, click a couple buttons, and we have access to all the information we'll ever need to know. Strangers can become acquaintances, and acquaintances can become friends. Seems innocent enough, doesn't it? Wrong. Facebooking has already spread far beyond the confines of our believed network of friends. For all you engineering students (or any stream 4 members going out to co-op soon,) heed this warning!

Employers today are just as technology savvy as we are. Your Facebook profile is probably the easiest background check they've ever had to do. What you have on your Facebook profile, by choice of you or your friends, can be accessed easily by just about anyone. To my fellow engineers who filled in their resume skills

section with all sorts of references to how responsible and reliable you are, you better hope your potential employer doesn't find those pictures of you at a party drunk and passed out.

Employers surveys reveal that 77% have used different avenues to check the credibility of these so called "bright and up-coming" job candidates, only to find that their resume was missing an important skill; the skill to keep your social and professional alter-egos completely separate. In fact, almost one-third of employers admitted to turning down potential job applicants because of incriminating information found on Facebook-like sites.

Whether you like it or not, you have to make a choice between social status or employer satisfaction. Sometimes it seems unfair, almost wrong, that employers would even go as far as checking something as "ironically personal" as our Facebooks.

Employment recruiters are clever in beating us at our own game. By putting information out in web space, we are indirectly telling the world that we want them to know all about our lifestyle. The whole social reasoning behind exposing yourself to virtually anyone, is anyone's guess. The rock and roll image that we portray seems to overshadow the morality in the actions we do, and consequently worse, the actions we show to everyone else.

The next time you walk into an interview and are asked to describe yourself in one word, perhaps you should avoid certain words such as punctual, enthusiastic, well-rounded. To save yourself the embarrassment, you may be better off by answering..."Facebook".



**DAWSON  
OVERTON**  
1A ELECTRICAL

Facebook is all the rage nowadays. If you meet someone on the street, there's a good chance that they have a profile. It's like a worldwide directory of people, complete with photos and constant updates on personal lives. Needless to say, Facebook has given rise to some questionable activities:

- 1) Your parents attempting to add you on Facebook. You may be in university now, and many of us are living away from Mom and Dad for the first time, but apparently that doesn't mean they will stop trying to keep track of every little thing you do.
- 2) Your parents pretending to be someone else and attempting to add you on Facebook. Creepiness Factor: approximately  $1 * 10^{1027}$ .
- 3) Seeing someone on Facebook and then introducing yourself in real life. I'm sure there are many of you out there who are guilty of this, but you should be aware that this is more than a little stalker-like.
- 4) People trying to retain anonymity by signing up with names like "Sergeant

Pepper." Facebook tries to prevent this, but it happens. Anyone trying to remain anonymous on a social networking site which is meant to be anything but anonymous is a little bit creepy.

5) People who you don't even know tagging you in photos. Not only do you not know who they are, they know who YOU are AND what you look like...somehow.

6) Random pokes from strangers. For reasons that escape me, Facebook has decided that sending pokes to random people not even in your networks is completely normal.

7) People you barely know commenting on your photos. Do they really have a good reason to be looking through your photos anyways?

8) Researching someone's favourite music or TV shows on Facebook. It's amazing how many people can meet and miraculously have the exact same taste. "Oh my god! We are like totally soul mates!"

9) Reading other people's wall conversations. This is especially awkward when you forget that you were never actually part of the discussion and start talking to the person about something they never actually shared with you.

10) Google indexing Facebook profile pages. Because you can never have too many random stalkers!

## THE IRON WARRIOR

Write for the *best* Engineering newspaper in Canada\*

Anyone can contribute! We're looking for:

Artists,  
Writers,  
Photographers

It's really easy to get involved. Just come to one of our weekly meetings (FREE FOOD!):

Meetings are held every Monday, 5:30pm to 6:30pm, in POETS (the Engineering pub). (OR e-mail us at [iwarrior@engmail.uwaterloo.ca](mailto:iwarrior@engmail.uwaterloo.ca))

\* we're not kidding

# Laundry's Labours Lost

## The Adventures of Dangerman



Dear Reader,

Welcome to the work-term edition of The Adventures of Dangerman, back by unpopular demand, and being featured on B-Soc for the first time. For those new readers with freshly-earned hardhats, and possibly even now frantically trying to upload HTML resumes to apply for jobs and get selected for interviews, I bring you tales from the frontier that is coop.

To begin with, I live in squalor.

I live out of boxes that are never entirely packed, and never entirely unpacked; they simply spew junk and useless treasures like a pack of enchanted homeless people. I barely manage to feed or clothe myself and in general, I'm basically a mess and a failed attempt at an adult in almost every respect.

That being said, until this term, no one could refute I continue to get by quite well. "Getting by" is almost a sport in engineering, whether it's academically, when you score that overall average of 59.5% with no failed courses and can boast to having completed "the most efficient term", or if it's the number of times you can eat Campus Pizza without losing your taste for it (I maintain it's still the most delicious thing in my diet, and I dream of it when I'm away... mmm, Campus). It's hard out here for an engineer, and finding a way to take those knocks is the only way to get through it.

However, like I said, until this last term, things were (relatively) fine. Now though... It's not the drinking out of washed-out salsa containers because I have no dishes. It's not the scary smile my landlady gives me when she shakes the mouse trap full of dead mice like a maraca. It's not even my housemate's scary boyfriend, who, for some reason I don't understand, clearly hates me and wishes me harm.

It's the laundry dryer. It's broken.

I can handle a lot of things, I've been shot at, stabbed, kicked on the ground, kissed with way too much tongue and in such a gross way that I wanted to vomit on the girl in question. But seriously... I needs fabric softener!

This presents a problem, as I have no car, and the closest Laundromat is at least 3 kilometres away. I've considered loading all my filthy rags onto the bike I use to get to work, but the images of me in a carnage of dirty underwear and the mangled remains of my little Supercycle 21 were enough to sway me away from that possibility.

So what's the solution? How does Dangerman fight back? Well, sometimes, kiddos, you just have to hang dry and pump up the Trooper, "dig in your heels and see how it feels to raise a little hell of your own." If that can't get you through the day, nothing will.

So till next time, my advice to all of you is to leech off your parents for as long as humanly possible.

Sincerely,

Dangerman

eric.dangerman@gmail.com

# EWB: Diary from Africa



My introduction to Ghana was the wave of humidity that hit me walking out of the plane; after making my way through customs, the flurry of activity and voices were my introduction to Accra.

Shawn, a fellow EWB JF, met me coming off the plane. It was my first time seeing one of the other JF's since training in May in Toronto, and I wondered about all the experiences he must have had over the summer. JF's are university students from across Canada, who volunteer 4 months during the summer in developing countries through EWB. This year, I am the only one to work in the fall rather than the summer, owing to the unique schedule of being in co-op.

Shawn saw me to the bus to Tamale the next morning. As with many EWB volunteers before me, the city of Tamale is my starting point for learning more about the north, and eventually traveling to the district I'll be working in. The bus ride lasted 13 hours, with stops at several rest stations, including one in the major city of Kumasi. I learned later that this is considered a very successful ride (no hold-ups or breakdowns, and a fast driver).

A friend of Kristy Minor, one of EWB's Long-Term Overseas Volunteers (LTOV), invited us to her house for supper that night, where I had my very first Ghanaian TZ (a meal made from maize flour, with a consistency like porridge in jello form, drenched in soup and eaten by hand). As Kristy and the other JF's reminisced around me, I felt incredibly inexperienced. I knew that I was just starting out, as they once had, but somehow comparing myself to everyone left me feeling somewhat lacking. I wondered how it had been different for them, to learn some of the basics together

at a group, but I also somehow enjoy the challenge of 'going it alone'.

We learned about the culture shock cycle in training; entering a new culture, you can often expect to feel invigorated by all the new and different things around you, then eventually have an emotional crash as you realize how little you know. This levels off with experience. In my first few days, I think that I've oscillated between the first few stages several times already. The knowledge of the LTOV's and JF's definitely brings reality home, but I also can't wait to get out to the district I'll be working in, to discover a new culture and language.

Tomorrow, I head for Navrongo.

*Dane Corneil is a 3A SYDE Engineering student spending his co-op term this fall in Ghana, a country in Africa. He is the only Engineers Without Borders (EWB) short term volunteer (aka Junior Fellow or JF) in Africa this fall.*

Check out the next issue of IW for Dane's next letter from the field! In the meantime, visit [daneinghana.blogspot.com](http://daneinghana.blogspot.com) to read more on Dane's experiences.



Location of Ghana in Africa



## Sanford Fleming Foundation

### PRIZE MONEY!!!!

#### Technical Speaker Competition

All students are invited to participate in the Technical Speaker Competition. The presentation is to be based on a work term experience, but does not have to be the most recent. Candidates are asked to submit a brief abstract to the Technical Speaker Competition co-ordinator, Prof. James Craig of Civil and Environmental Engineering in E2. The winner of the competition will receive \$500 with the runner-up receiving \$250.

DATE           October 19  
TIME           10:00 a.m.  
PLACE          DWE 2534

\*\*\*\*\*

Refreshments will be served  
Everyone is welcome

#### Debates

The Foundation has established the Sanford Fleming Foundation Debates in order to encourage the art of debate among engineering undergraduates. Each term there is one faculty wide competition. Please contact Prof. Scott Jeffrey of Management Sciences (ext. 35907) if you are interested in participating. The overall winning team will receive \$300 each and the runners-up will receive \$150 each.

DATE           October 29, 30, 31  
TIME           11:30 – 1:00  
PLACE          E2 - 3324

\*\*\*\*\*

FINALS: CPH Foyer, November 2 at noon

Refreshments will be served at finals  
Everyone is welcome

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

**Caption** Photo of the Every-Other-Week **Contest**



You don't want to miss out on this issue's prize, so send your submissions for the photo at the top of this page to [iwarrior@gmail.com](mailto:iwarrior@gmail.com)! The winner will receive another super random prize. Please be sure to include your name, program, and term.

# GradComm '08: Alive and Kicking

**TONI CARLISLE, SUNIT MOHINDROO & ANDREW RIZKALLA**  
GRADCOMM CHAIRS, B-SOC

With another graduating class behind us, the future graduates of this fine educational institution are eager to make the most of fourth year. The Graduation Committee, or GradComm, consists of all graduating students volunteering their time and ideas to run things like Yearbook, GradBall, IRS, PubCrawl, and Piz-

za Wednesdays. It is run by three fabulous, fashionable, and fantastically modest fourth years Andrew Rizkalla (Tron), Sunit Mohindroo (Syde), and Toni Carlisle (Tron). If you are interested in helping out with any GradComm events and are in 4th year with the intent to graduate, you should contact your GradComm Chairs via [gradcomm08@gmail.com](mailto:gradcomm08@gmail.com).

For all you non-fourth years, you poor, poor souls, we are also interested in telling you about our PubCrawls, which are open to all people, engineers and not. These will be happening throughout the term (4-5 times) on Fridays. For those unfamiliar with the PubCrawl format...it is an excuse to make new friends, get discounts at local establishments and have a generally good time. Buy a bright green Heiney T-shirt to get bar discounts and keep your eyes open for the posters advertising the next Crawl on October 5.

We look forward to a great Fall (and Winter) term.



# Résumé Skills Quiz

**TONI CARLISLE & YVONNE CHENG**  
RÉSUMÉ CRITIQUES DIRECTORS

Think your résumé is ready? Think it stands out in a crowd? Test your skills and prove it!

- You spent your summer working as a gardener, mowing lawns and weeding. What do you state as your job title?
  - Horticultural and Botany Specialist
  - Municipal Gardener
  - Mower and Weeder
- You have a keen interest in foreign language. How do you highlight this in your skills summary?
  - Ability to speak Mandarin, Polish, German, Spanish and English.
  - Multilingual
  - Not at all
- Lastly, you recently won an academic award and want to highlight it in your awards section. Your resume reads:
  - Winner of Paul Ehrlich Foundation Scholarship
  - National science essay winner and scholarship recipient (Paul Ehrlich Foundation)
  - Paul Ehrlich Foundation Scholarship winner for excellence in scientific writing, \$3500

Hope you all passed the quiz! And best of luck in the job hunt!

1. B. You never want to overstate a job title and sound stuffy, but don't be so specific as to say exactly what tasks you performed - that's what bullets are for.

2. C. Yes, this may surprise you, but unless the posting states the need for one of the languages you speak - exclude it. This often categorizes you as a certain nationality, which should be inapplicable to any job. Your interest in languages should be stated in the "Activities and Interests" section.

3. B. Although this is subtle, you should start with what the award means and avoid vague awards. Also, stating the amount is not suggested. As money can be an inappropriate conversion topic, it can also be poor etiquette to mention in a resume.

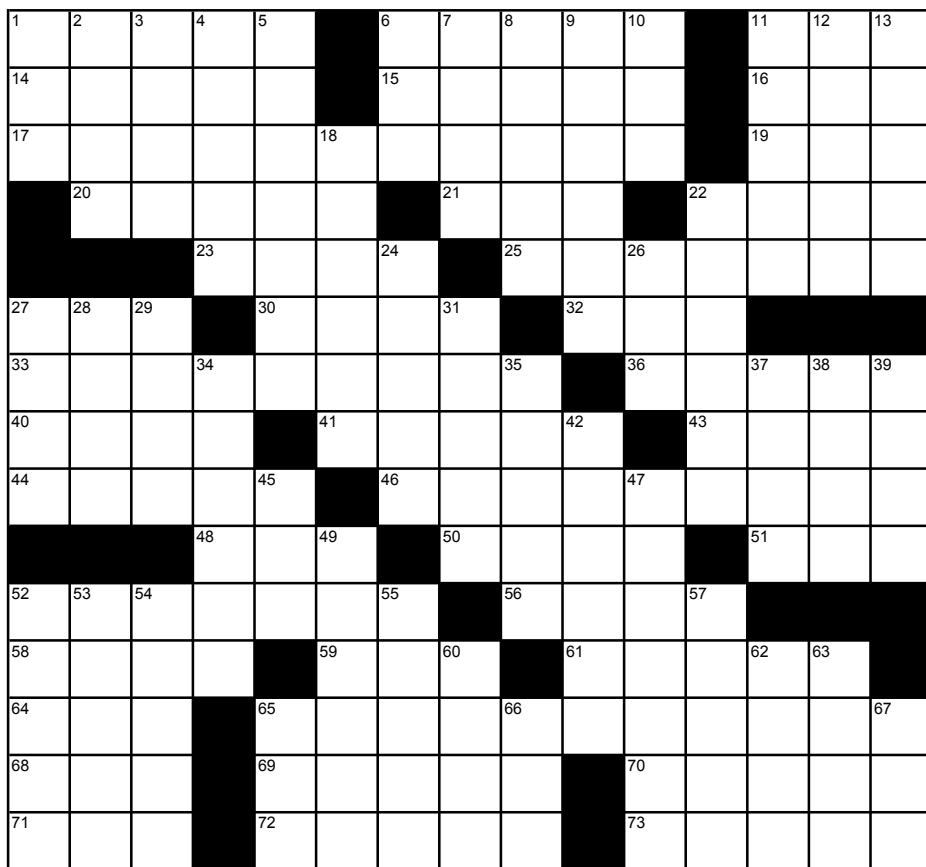
**EngSoc Darkroom**  
Open 3:30 - 5:30 pm Wednesdays  
Drop by and expose yourself  
RCH 225

POETS		Wednesday September 26	Thursday September 27	Friday September 28
<b>MOVIE SCHEDULE</b>		Never Been Kissed Raising Helen Just Like Heaven	Van Helsing The Day After Tomorrow Enemy at the Gates	Ferris Bueler's Day Off Garden State Snakes on a Plane
<b>SHOWINGS BEGIN AT NOON</b>				
<b>Monday October 1</b>	<b>Tuesday October 2</b>	<b>Wednesday October 3</b>	<b>Thursday October 4</b>	<b>Friday October 5</b>
As Good As It Gets Something's Got To Give Anger Management	Clue Four Rooms Swingers	Finding Nemo The Incredibles Ice Age	Reservoir Dogs A Clockwork Orange The Shining	Rocky Rocky 2 Rocky 3
<b>Monday October 8</b>	<b>Tuesday October 9</b>	<b>Wednesday October 10</b>	<b>Thursday October 11</b>	<b>Friday October 12</b>
Blade Runner The 13th Floor Spaceball	Count of Monte Cristo Phantom of the Opera 300	Clerks Clerks 2 Dogma	The Italian Job Starsky & Hutch The Blues Brothers	Die Hard Die Hard 2 Die Hard with a Vengeance



# EngCrossword

**MICHAEL SUE-KAM-LING**  
3A CHEMICAL



## Across

1. Abstract data structure
6. Impromptu
11. Temporary data storage
14. Australian physicist
15. Northern forest type
16. Before now
17. Musical adaptation
19. Patriarch
20. Public Promenade
21. Kind of trip
22. Respectful term of address
23. Internet protocol
25. Sexual quality
27. C.E.O.'s degree

30. GUI feature

32. Order of corn
33. Traditional practice
36. Mass times acceleration
40. Ark builder
41. Choir voices
43. Plumbum
44. Quarrel
46. Land with sparse, stunted vegetation
48. Public transit vehicle
50. Successor
51. Set down
52. Difficult situation or matter

56. Red light

58. Lord's mate
59. Garage contents
61. Wide-mouthed pitchers
64. Shakespearean fuss
65. Lowest energy conditions (2 words)
68. Follows sigma
69. Eagle's nest
70. Overhangs
71. Be mistaken
72. Tour of duty
73. Snoozed

## Down

1. Health resort
2. Waterproof covering
3. Ambience
4. Strummer's band
5. Characterized by motion
6. Dined
7. Lady's title
8. Loyal subject
9. Give the cold shoulder
10. Flying mammal
11. Pipe measurements
12. Biological culture media
13. Data transmitter
18. Popular residence game

22. Walk leisurely

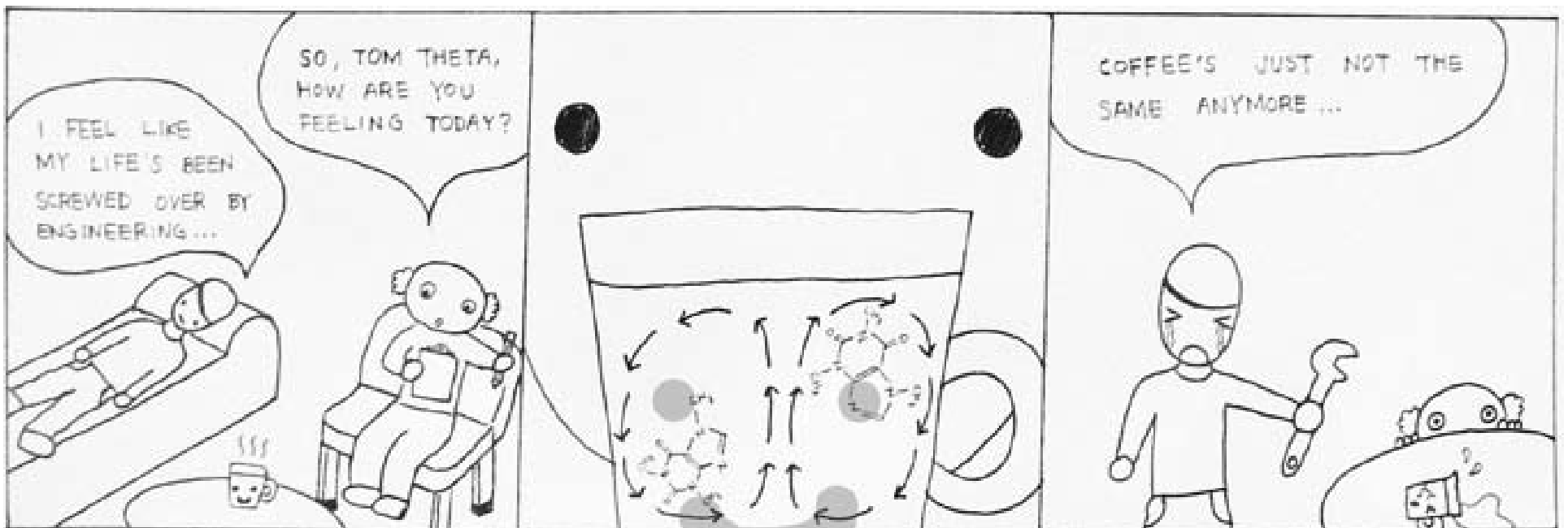
24. Small bodies of water
26. Buffoon
27. Parisian Mr.
28. Quebecois party
29. Jewish month
31. Tally mark
34. Run-down
35. Bodies of knowledge
37. Authentic
38. Biblical wedding site
39. Swirling in a fluid
42. Compatible
45. Afghani penny
47. Surfs, as on the internet

49. Shrouded

52. Batter's position
53. Radio wave detection
54. Smell
55. New Zealand native
57. Flower feature
60. Wreckage
62. Wild party
63. Dance lesson
65. Combustible fluid
66. Remaining after deductions
67. Ontario winter time abbr.

# EngComic

**JUDY WAN**  
1A MECHATRONICS



# THE IRON INQUISITION

Ryda Peung, Sophia Follick, 4A Chemical

**“What advice would you give to first year students?”**



**Dan P**  
2A Chemical

**“A few beers while writing a report eases the process....”**



**Natasha Follick**  
2A Chemical

**“You’re on your own....”**



**Jon Warren**  
2A Electrical

**“Always protect your head”**

**Lou Yan**  
4A Mechanical

**“Get off of Facebook! Yes you!”**



**Denise Ma**  
4A Chemical

**“Find all the good napping spots on campus! ie. DP-1st floor, class...etc.”**

