

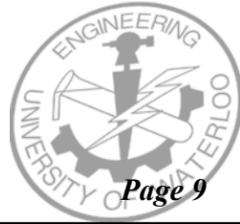
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Solar Collector Art Sculpture



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Stuff Engineers Like



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<http://iwarrior.uwaterloo.ca>

UW Celebrates Canada Day

MICHAEL SELISKE
1B COMPUTER

141 years ago, on July 1st, the final documents that made Canada an official country were signed in Charlottetown, Prince Edward Island. Every year since then Canadians have been celebrating the birth of their country with celebrations, ranging from small town gatherings to huge parties at Parliament Hill. This past Tuesday, the 24th annual University of Waterloo student-run Canada Day Celebrations drew tens of thousands of people from Waterloo Region to the fields of Columbia Lake. Greeting them were 90+ volunteers and a wide assortment of community groups, food vendors and entertainers. Entertainment was a big part of the day with class acts like the Engineering Jazz band, Knock Knock Ginger and headliner Kreesha Turner who rocked the house and turned heads with her skin tight spandex pants.

Engineering was not to be left out of the festivities, providing a mini Olympics for the kids. There were five stations set up including Tug-of-war, an obstacle course, water balloon toss, potato sack race, dunk tank and a massive water slip-and-slide on the side of a hill. After participating in each event children would receive a letter on their arm that would eventually spell CANADA. When they were done competing in each event they could go to the information tent to receive a freezie and

learn a little about engineering. The 20 or so volunteers had their hands full all day with a steady flow of kids. Many jumped into the dunk tank or stepped in line for the waterslide to cool down and everyone seemed to have a good time.

After much controversy last year, the tool was in attendance this year with the bearers sporting Canadian bandanas. Children were encouraged to dress like a bearer and sport their own mini tool while posing for a picture. Some people were confused about the presence of the tool but friendly Eng-Soc President Amanda Hoff was present to explain everything to all who were confused. Some ringed parents didn't pass up the opportunity to touch the tool creating jealousy among volunteers.

The day started for many of the volunteers at 1:30pm and although 20 or so signed up, new volunteers streamed in all day, but like the stream of volunteers came the stream of children. Estimates put total attendance at 70,000 and many of them meandered over to the engineering corner to participate in the mini Olympics. So many in fact, that freezie supplies ran dry mid-afternoon and an emergency Timmies run had to be made. The engineering portion of the day ran smoothly because of the dedication of Adam Schubert, Cara Kennedy and Lisa Du, and the three organizers stayed on-site all day to make sure all of the little hiccups were smoothed out without much of a problem.



Michael Seliske

After being absent from last year's celebrations, the Tool makes a cameo at this year's UW Canada Day Celebrations

Kreesha Turner took to the stage at 9:00pm performing a fairly short 30-minute set with her sultry soul style, including her hit single "Bounce With Me." The fireworks started soon after 10:00pm. The quote, "we spared no expense," from Jurassic Park sums up the fireworks quite well, as they lasted almost 20 minutes and included types this reporter has never seen before. After the fireworks, the stream of people walking down the closed section of Columbia Street and beyond created an im-

penetrable wall for people and cars alike to move anywhere fast.

Canada's Birthday is a great reason to celebrate and although a great deal of work and planning goes into an event of this magnitude, it is always worth it to see the patriotism and smiling faces that such an event brings forth. 141 years ago this country was born with the signing of a piece of paper and this event shows how thankful the people living in this great country are to those who signed it.

Engineering on the Move

ESSCO Conference Introduces Many Current Initiatives to Ontario Engineering Students

SPENCER MCEWAN
2B ELECTRICAL

Ladies and gentlemen, start your hard hats.

During Canada Day long weekend, dozens of engineering students from all across Ontario gathered at Ryerson University for the Annual General Meeting of the Engineering Student Societies' Council of Ontario. Students from a variety of schools such as Carleton, McMaster, and even as far as Lakehead were represented at the conference.

The Engineering Student Societies' Council of Ontario (ESSCO) is a not-for-profit association which strives to represent undergraduate engineering students in the province of Ontario in matters of common interest. It acts as a communications network between all engineering societies in Ontario, and actively interacts with various sectors of business, government and universities to further the student voice in the discipline of engineering. ESSCO just recently celebrated its 20th anniversary, and has been bringing engineering students together from all across the province to help them develop professionally and create networking opportunities for the betterment of their respective societies.

The weekend was filled with many in-

formative sessions from a wide scope of sources. Professional Engineers Ontario (PEO) had a noticeable presence at the conference. Manoj Choudhary spoke on behalf of PEO, and introduced many exciting initiatives that the licensing body for engineers in Ontario are undertaking. The Government Liaison Program is aimed at encouraging professional engineers to run for public office, to make available the specific talents of professional engineers to solve public interests issues and participate in the formation of good policy. Some of the goals of the Liaison Program are to place 11 professional engineers in the provincial parliament by 2011, and to have a P.Eng as the head of a political party in Ontario by 2025. Some may call this the "official" plan for engineers to take over the world. The main message that Choudhary wanted to express was that engineering students, upon graduation, can do anything with their degree, even run for public office.

Choudhary also held many brainstorming sessions with the conference delegates to stimulate discussion on how to get students more involved with PEO. There is a subtle decline in the number of engineering graduates who apply for their professional license after they graduate. Many engineering students do not even know what the



Mike Mastromatteo, *Engineering Dimensions*

ESSCO hopes to place professional engineers in the provincial parliament in the new future.

PEO is, and why the association should be important to them. Some of the ideas that were suggested during the sessions are that PEO create stronger ties with student engineering societies, and put more visibility into promoting who they are, such as running advertising campaigns like the successful "Certified Management Accountants" advertisements that are currently all

over the media.

See NEW EXEC ELECTED on Page 4

Letter from the Editor

Fairness vs. Equality



SUNNY NG
EDITOR-IN-CHIEF

This term has totally flown by. I can't believe there is only a matter of weeks before it is over. After the midterm slump, things are going back to business as usual here at the I-dub. We here at *The Iron Warrior* have been busy constantly trying to improve ourselves by coming up with more interesting and thought-provoking ideas for you to read, and this issue is no different. Highlights in this issue include what could be a very controversial but insightful Point-Counterpoint feature regarding the Waterloo Engineering Endowment Fund (WEEF) as well as two new regular features. My vision with these two features is to add some consistency to IW. In the past, the lack of consistency has been a concern to us due to the nature of Waterloo Engineering and co-op with new EICs take over every 4 months, after every 5 issues. It is often difficult to have any sort of continuity. I hope the EICs after me will continue to publish and improve on these features.

The first new feature can be seen on the right of this page, which is the "Thumbs Up/Thumbs Down Community Editorial." Everyone is welcome to send in a brief editorial to either praise or diss things that have happened in the last two weeks and can remain anonymous. Thanks to staff writer Spencer McEwan for bringing forward this idea, we hope this new feature can increase readers' participation and engage interesting discussions. To be part of our next community editorial, just send us an e-mail at iwarrior@engmail.uwaterloo.ca, and your entry will remain anonymous.

The other new feature can be found in the Arts & Entertainment section, which is "The Iron Warrior Recommends." Within this feature, our staff members will discuss interesting recent discoveries that may be of your interest. Each recommendation will be short to accommodate the ADD culture of today, plus we can cover more things that way. This goes along our goal of providing non-typical engineering content in IW. Much thanks to staff writer Evelyne Russell for proposing this idea.

Since this is my fourth issue of *The Iron Warrior*, this means the next issue will be my last one... and this only means one thing, it'll be time for an issue of *The Tin Soldier!* For those of you who are unfamiliar with this concept (I'm looking at you, Frosh... since *The Tin Soldier* never came out for Fall '07), *The Tin Soldier* is a tradition here at the IW where we publish outrageous and comical satirical content in the form of a newspaper inside IW. If you need an example, be sure to check out our website archive for Issue 5 from Winter 2008 where I wrote the cover story of *The Tin Soldier*, which is a parody of the infamous cover story from *that other* campus publication a couple months before that. If humour is your thing and you want to write something funny for us, be sure to send fork it over. You know my e-mail address by now. Our last submission deadline is July 18, 2008.

Before I proceed to my actual editorial, I

just want to encourage everyone to participate in the Engineering Society "B" election. I'm very excited to see the number of candidates wanting to run for executive positions. It always disappoints me when a large number of positions get acclaimed. We have a full coverage of it in this issue, be sure to get informed about all the candidates' platforms and vote wisely. Make sure you really know where your \$14 x 2 = \$28 is going for the next 16 months! Best of luck to all the candidates!

My editorial for this issue will be along the similar vein as my last one, which was about stereotypes and prejudices (make sure to check out our website for it if you missed it). When I was writing about that, there were so many things I wanted to get off my chest, but I wasn't able to convey them without going over the word limit or go on a tangent, so I decided save it for this issue instead.

Recently, I read a *Letter to the Editor* in *that other* campus publication that caught my eye. While I do not work for *that other* other campus publication, I still wanted to address it because it has been something I've been thinking about for a while. The letter in question was a complaint about an advertisement that ran in that publication. The advertisement was promoting a competition that involved a cash prize as it was seeking an inventor. The catch is that in order to participate, you must be of Arab descent. The writer questions the double-standard that is applied in our society, as in if the ad were to say "Caucasian" instead of "Arab", there would be an outrage. So are practices like this discriminatory or racist?

As a minority in more ways than one in the mainstream society, it often frustrates me when I hear such ignorant comments as "In today's society, having BET (Black Entertainment Television) is racist. I mean, you don't see a 'White Entertainment Television' network!", "Why do they need a gay pride parade? There is no straight people parade!" or "What's with all these Asian clubs on campus?" The worst part is these people think they're doing the world a favour by being politically correct and pointing out such "unfair" practices in order to banish "discrimination", and assume that they are the victims of all this.

The reason for these things to exist is because the needs of the minorities weren't being served. BET was launched because no mainstream television networks (e.g. ABC, NBC, CBS) targeted the African-American demographic, instead they opted to target the primarily white audience. It's naïve to make a blanket statement like "I do not 'see' race," because different people have different needs, and different people act differently. Now whether or not the now Viacom-owned BET still serves its original purpose or maybe it just portrays more black stereotypes is debatable, but that's irrelevant when we're talking about its original purpose. And of course, gay pride parades exist because there is still a need to recognize the diversity and equality of the LGBT community. Cultural clubs are around because the interests of those associated with the culture have not been properly addressed by other clubs and societies. And those clubs are not any more racist than any other clubs/societies considering they are required to be open to anyone regardless of their background.

This reminds me of earlier this year when the Toronto District School Board brought up the idea of having an Afrocentric school (with voluntary enrolment, mind you) as a method of combating the high drop-out rate of the demographic through modifying the style of teaching and the curriculum. Of course, this move was not without any controversy. Many people called foul and said that in today's society there is no place for such segregation. While I am quite sceptical on the effectiveness of having a separate curriculum in order to target a different demographic to encourage them to stay in school and at the same time maintain the same teaching quality and ultimately the same teaching material, I think it's quite unnecessary to simply pull out the political correctness card and say that it's racist, which is why we shouldn't even try.

I think what people need to realize is that there is often a difference between what is fair and what is equal. Sometimes, being a minority may require more resources just because the needs are usually not addressed. It may not seem "equal", but it certainly is fair.

A more obvious example would be the act of installing equipment in a building to make it wheelchair-accessible, such as automatic door openers. Additional resources would need to be used in order to make it possible. Is doing this being equal? No, because you are spending more money in order to accommodate the needs of (assumingly) a few people, which means people who are not physically handicapped are not getting the same amount of resources to meet *their* need of the building. But is it fair? Yes.

Bringing back to the original issue, is it really unfair to have a contest that is only limited to people of one heritage? Is it racist to advertise that? If it was, then the University administration certainly is also guilty of that. By simply taking a glance at the Students Awards & Financial Aid Office website's list of scholarships and bursaries, quite a few of them are restricted to either visible minorities, Aboriginals, those of one heritage, or women.

The Faculty of Engineering is no stranger to similar practises either. In hopes to increase the female presence in the undergraduate demographic, it currently utilizes various recruiting methods such as having current female Engineering students giving personal phone calls to prospective students to answer questions and have one-on-one conversations in order to encourage a boost in enrolment. Is this considered discrimination for the male population?

The point is, what is equal is usually not the same as what is fair. Different demographic of people have different needs. If you don't have these special needs, It's easy to believe that those that do are getting an "unfair special" treatment. Sure, it may seem like a double-standard, but things in life aren't so clear-cut black and white. Sometimes you need to look harder to see if things make sense. I hate to make this generalization, but I can't imagine it being easy to know what it's like to be a minority without actually being one. So please think hard before you make the judgement of thinking something is unfair and making yourself seem like the victim.

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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Next Submission Deadline

July 18, 6:00pm for publication on July 23, 2008 (The Tin Soldier edition)

Send your submissions to iwarrior@engmail.uwaterloo.ca

Meetings every Monday, 5:30pm in CPH 1323B

COMMUNITY EDITORIAL

Thumbs Up/Thumbs Down



To the student who helped me carry my presentation material to RCH. I had way too much in my hands, and you stopped and asked if I needed any help. I really appreciate it!



To the IT guy in my department for being so rude to everyone. A little common courtesy goes a long way, buddy!



To the group of people in the C&D today who came in with their backpacks still on. You guys kept on bumping into everyone and nearly made me spill coffee on myself. Next time, read the sign and leave your bags at the door!



To the nice and gorgeous lady who gave me a Toonie for parking in Lot S.



To the engineering faithful who have spared a couple hours of their busy days to man the cash registers at the C&D. The store is definitely an affordable stop during the day and it houses a number of different snacks, meals, and treats that nicely complement a daily dose pizza!



To Lot S for not having a ticket machine that accepts card.



To campus recreation captains who dish out horrible Spirit of Competition (SOC) scores... especially when you end up winning the game! Maybe the issue is not so much the scores, but more of the conduct. It's not like there is a championship trophy to hoist or salaries to compete for, so what's the big deal?



To UW Parking for cutting first-time offenders some slack.



To Asian girl fashion. It makes me love DC (known as "Downtown China" to the local cabbies) that much more.



To having the last Orientation Leader Training session which is a prerequisite for all of the other sessions AFTER the sessions that require it.



To the losers who are constantly making cracks about how there are no girls in engineering. How many girls do you need?



For the clear skies, finally some nicer weather and not as many thunderstorms.



To guys who are man enough to drink adorable pink cocktails in public. You know you love 'em! Ain't no shame!



To the guy that said he'd be there to show me their house for renting and never showed up



To Waterloo for putting uw-wireless everywhere in rez. Now we have extra bandwidth and a back up connection.



To Allyson Sequeira and Mike Giannikouris, congratulations on your engagement!



To the awkwardly designed storage rooms in RCH. What's up with the super low-hung lights that prove to be extremely dangerous when moving tall things in and out?



To loser landlords who are quick to collect rent, but go M.I.A. when there's a fungus problem in the bathroom.



To the lady at the Air Canada desk who bumped me to a direct flight home last week and saved me from a three-hour layover in Calgary!



To the lack of outdoor lighting on campus at night between CPH stretching all the way to SLC. I know it's Spring term, but for God's sakes, turn them back on! This is totally asking for a crime to happen.

Send in your Thumbs Up/Thumbs Down to iwarrior@engmail.uwaterloo.ca

International Philanthropy On UW Ground

Muslim Student Association's Orphan Sponsorship Program



SYLVIA WU
1B MECHATRONICS

The Orphan Sponsorship Program (OSP) is the University of Waterloo Muslim Student Association's first international charity project. It currently sponsors 10 orphans from 9 countries across the world: Sierra Leone, Afghanistan, Indonesia, Kenya, Pakistan, Bosnia, Bangladesh, Palestine, and Sudan.

The OSP's annual fundraising barbeque took place on June 25 and 26. A display was set up beside the food stands to share information on the charitable program. One can check out the menu and the orphan profiles at the same time, how convenient! Complementary watermelon was also offered to those waiting in line for a burger or hot dog. In 2007, this barbeque was able to raise over \$1000, 100% of which was sent overseas. This year, the OSP hopes to raise enough money to sponsor 5 more orphans in addition to the current 10.

The children that the OSP sponsors

have either lost one or both parents, and are at the risk of not being able to receive an education due to poverty. Their information has been provided to the OSP by Canadian federally-registered charities such as the ICNA Relief, Human Concern International, and Bosnian Canadian Relief Association. These organizations were carefully chosen by the MSA to ensure that the money fundraised on campus are being effectively spent to help the orphans. According to Adeel Khan on the UW MSA OSP Committee, the reputations of these organizations were attentively researched before the OSP committed to being its donor. He also mentions that the OSP is always looking for more similar organizations to work with – most of these organizations only work with a few countries, but the OSP would like to sponsor orphans from a diverse set of countries.

The OSP was first started in spring 2007, when MSA felt that they needed to expand their services from student services to community services. Orphans were chosen as the focus of this project for a significant religious reason: throughout the Koran, the prophet



Sylvia Wu

Muhammad emphasizes the importance of helping orphans. In fact, the prophet was an orphan himself. Adeel Khan also added that the theme of helping orphans is emphasized in other religions' holy texts as well. As of the scope of the charity, the international community seemed like a good place to start, since the MSA deemed that the orphans who

live in developing countries have a more desperate need for financial support.

The profiles of the orphans currently being sponsored can be found on the OSP's official website at <http://waterloomsa.com/orphans>. Also, check out their upcoming events to find out how you can help out while having fun!

Circus Protest Spreads on Campus



CHERRY HO
1B ELECTRICAL

What comes to mind when you hear the word "Circus"? Happy music? Bright colours? Cotton candy? Fancy costumes? Acrobats? Balloons? Elephants balancing on cylinders? Chimpanzees riding horses? Tigers jumping through fiery hoops?

That's probably where all the fun and games end, as promoted by the Citizens Against Animal Circuses (CAAC) throughout campus. The CAAC is a group of members of the community in the Kitchener-Waterloo area that are concerned about the irresponsible and unnecessary abuse and cruelty in animal circuses.

Last month, the group held a protest to help draw public attention to the pain and suffering that the animals go through for "entertainment" and performances which are cruel, dangerous and outdated, and brought out many interesting points about animal circuses that are rarely addressed, such as the fact that the animal performances that are shown are not part of the animal's natural behaviour. One

would not see a tiger setting a hoop on fire and jumping through it, nor would an elephant be found looking for a spherical-shaped object to balance on. Animals are abused physically and mentally to be made to perform on cue. Sharp sticks, nails and wands that give electric shocks are often used. The animals are living in constant fear of punishments.

CAAC also wishes to draw attention to the travelling and living conditions of the animals. The exotic animals in the shows belong in the wild, where they can roam freely, move around and interact with animals of their own kind. In circuses, the animals are often chained up or confined to small cages, known as "Beast Wagons", about 1.5 metres by 2.5 metres. The animals spend, on average, 23.5 hours a day in these enclosures, which are so small and cramped that they can barely stand up fully or even turn around. Such environments lead to a lot of stress, boredom and frustration. The animals would try to manage such conditions by withdrawing into themselves, which would lead to a decreased interaction with surroundings, bar biting, tongue playing, or head rocking which doesn't make the situation any better, as reported in the press release information supplied by the CAAC. Circuses go on



Circus animals are often kept in small cages for the majority of the day.

tours in different towns and cities, so the animals are always travelling, and are often denied water and food for convenience of the circus staff. For the larger animals that don't fit in beast wagons, such as elephants, they are attached to short chains, which permit only one or two steps in each direction.

The CAAC mentions that circuses don't have to feature cruel animal acts to succeed. They are looking to raise awareness on the issue. The goal of their protest last month was to help draw attention and hopefully to initiate municipi-

pal by-laws, similar to existing by-laws in many other municipalities that reject animal performing groups from performing in the Kitchener-Waterloo region. One should not be entertained by another's sufferings. There are many famous performances, such as Cirque du Soleil, that tour and perform humane acts that do not involve any sort of animal abuse. The national and provincial animal protection legislation does not protect and is not effective in protecting the exotic wild animals in the circus performances.

ESSCO AGM

NEW EXEC ELECTED
from Page 1

There was also a presentation from the Ontario Society of Professional Engineers (OSPE), which highlighted the wide range of services they provide, and the benefits of becoming a member. Every engineering student in Ontario is eligible for the Student Membership program, and it includes very interesting benefits, such as professional networking, resume critiquing, job postings, and even discounts on car insurance and gasoline.

Research in Motion also held a session which gave tips on résumé writing, and different techniques to present yourself in the most effective way possible.

There has been a great deal of participation from Waterloo students in ESSCO over the past few years, notably for students being elected for executive positions. 2B Electrical Engineering student Spencer McEwan was elected the Vice President Communications for the upcoming year, replacing 3A Computer Engineering student Dan Taylor. Former A-Soc President Ruth-Anne Vanderwater was also a member of the outgoing executive. ESSCO runs a variety of services and conferences for engineering societies in Ontario, and the next year could prove to be a progressive one.

e2SCO
Engineering Student Societies
Council of Ontario

58th Canadian Chem Eng Conference



KEVIN LING
1B ELECTRICAL

This fall, the 58th Canadian Chemical Engineering Conference will take place in Ottawa. The conference is organized by the Canadian Society for Chemical Engineers and will run from October 19-22.

The event is aimed towards undergrads, graduate students, researchers, and industry professionals and will feature several symposia and technical seminars. This year's theme for the conference is "Partnerships for a Sustainable Society". Not all the symposia topics are related to this central theme of sustainability, but the five major topics for this year are: Energy for a Sustain-

able Society; Materials for a Sustainable Society; Clean Water, Clean Air, Clean Earth; Biotechnology; Partnerships & Policy; Research at the Crossroads. There will also be presentations and seminars on varying specializations and aspects of the chemical engineering field. Past conferences have been highly successful and have had presenters coming from academia, industry, or government.

Participants at the conference can also attend a career fair that will take place during the conference. Various employers will be present and may even conduct on-site interviews for early registrants who submit résumés.

As well, some of the social highlights for this year's conference include the Welcome Reception and a Banquet. The Welcome Reception is a mixer that will be held in Ottawa's Byward Market, giv-

ing both the students and the professionals a chance to meet new people and do some networking. This year's banquet will be held at the Canadian Museum of Civilization and will have IMAX movie entertainment.

The event is sponsored mainly by several organizations including PlascoEnergy Group, Iogen Corporation, University of Ottawa's Chemical Engineering Department, and Ontario Power Generation.

The chemical engineering conference is a great opportunity for up and coming chemical engineers to learn more about specific aspects of the profession and to make contacts. More information about the event can be found at <http://www.csche2008.ca>.



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Solar Collector Sculpture Launches in Waterloo Region



SUNNY NG
4A COMPUTER

In front of the Waterloo Regional Operations Centre in Cambridge now stand 12 metal shafts of different lengths planted at different angles from the ground. It looks interesting, but what are they for?

These shafts form the Solar Collector, a sculpture that was launched on the summer solstice – Saturday, June 21st. This innovative sculpture captures solar power during the day and creates a performance of lights at dusk every day. Each shaft contains a number of solar panels along with lights. The design of the sculpture was based on the sun's location through the year.

Commissioned for the Regional Municipality of Waterloo, this artwork was created by Matt Gorbet, Rob Gorbet and Susan LK Gorbet of Gorbet Design Inc. It all started when the region called for expressions of interest for a solar-powered sculpture back in Fall 2004. The co-artists submitted their design and after being shortlisted, their design was chosen in April 2005.

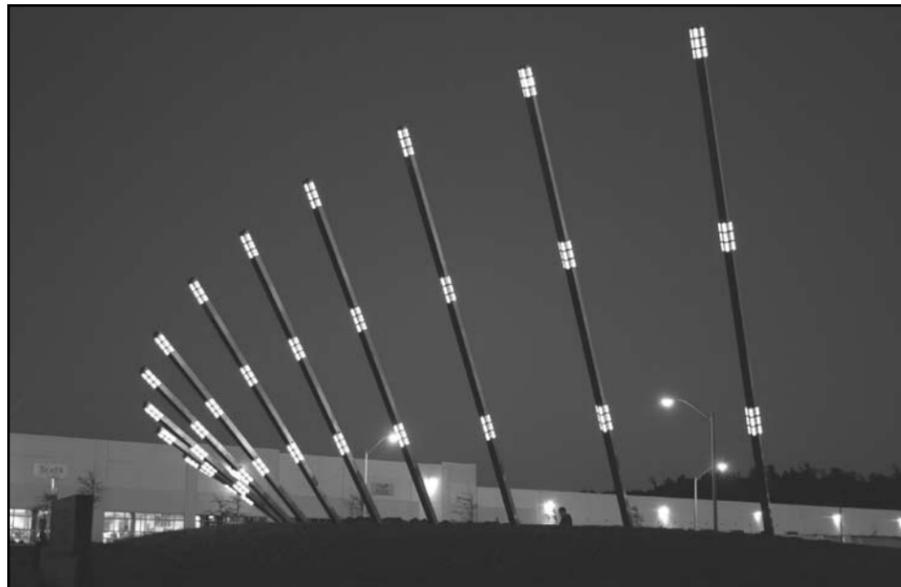
I had the opportunity to talk to co-artist and University of Waterloo Electrical & Computer Engineering professor Rob Gorbet about the sculpture. Gorbet talks about the two main inspirations for the design,

“Being a public artwork, it has to be accessible by the public. [...] It also has to use solar-power energy.” Gorbet describes the location as “middle of nowhere” as initially the Regional Operations Centre didn't even have a pedestrian sidewalk beside it (it is located at 100 Maple Grove Road, slightly east of Highway 8 and Sportsworld). To address that, the sculpture had to be visible from vehicular traffic.

Furthermore, the trio created web-interaction with the sculpture to counter its obscure and remote location. Anybody is welcome to go to the sculpture's website to create a pattern with the lights using an easy-to-use Java web applet. Rob Gorbet says that the group has made every piece of artwork of theirs interactive, and uses people as a medium.

When asked about how having to utilize solar-power influenced the design, Gorbet said, “It was really important to get rid of the ‘big black square.’” He explains that when people often think of solar power, they think of solar-powered panels. To get rid of the stigma, it was important to integrate solar panels into the form of the sculpture. The Solar Collector uses a top-of-the-line commercial-grade solar cell known as SunPower A-300, the same ones being used by the Midnight Sun Solar Race Car team. These solar cells are flexible and are mounted on the sculpture's shafts.

Rob Gorbet thinks the biggest challenge with the Solar Collector project was how big



Gorbet Design, Inc.

the scope of it was. Since it was the largest piece of artwork Gorbet Design has done, they didn't think about all the factors that needed to be considered and all the resources that it needed. For instance, surveyors, civil and geological engineers were required in the end to take care of the foundation of the sculpture. Gorbet also mentions difficulties when a supplier bailed out, causing a major delay preventing it from getting finished and throwing their schedule off.

On the technical aspect, Gorbet emphasizes the importance of implementing “graceful degradation” and a contingency plan, as in thinking ahead of what it should do when something fails. The group took into account of what it would do if host computer does not wake up the remote computer that is part of the sculpture, if the region does not want to maintain the computer or if the batteries are not replaced when it needs to. Gorbet describes the sculpture as “beautiful in any weather” and is “different from every angle”, so that it is stunning even if the lights don't turn on.

The response of the Solar Collector sculpture has been phenomenal. Rae Crossman, director of Waterloo Unlimited was so inspired by it that he organized a series of musical performances to coincide with its launch. Gorbet says that their press release was picked up by many media outlets such as *The Record*, CBC and eventually gar-

nered International attention such as from France, Italy, Brazil and Australia. He points out that on average they receive 50 patterns a day from their website.

Rob Gorbet is currently one of the faculty members for the Waterloo Shad Valley program, which hosts approximately 50 high school students each summer in Conrad Grebel. Many of the students participate in the program excel in multiple areas. “It's sad that there needs to be a choice to be made [for which one program to pursue in post-secondary education],” says Gorbet. He believes that many Engineering undergraduate students probably had to make the same choice when they chose to come here. He thinks that students should be more open to opportunities which may involve combining talents and crossing disciplines.

Gorbet teaches a 4B course for Technology Art Studio (one of the topics in FINE 392, a List D course), where each Engineering student is paired up with an Arts student for the term. The course consists of an 8-week final project, where the results are usually pleasantly surprising. He encourages students to enrol in the course if they are interested in learning more about how technology and art can go together. Gorbet also welcomes e-mails from those who are interested in learning more about opportunities in technology art. To find out more about the Solar Collector, check out www.solarcollector.ca.



Gorbet Design, Inc.

Exchange to France or Switzerland

PETER ROE

DIRECTOR OF EXCHANGE PROGRAMS

France and Switzerland boast some of the best things to enjoy in life, such as their fine wines and gourmet cheeses, their cuisine in general, their mountains, scenery, people, bistros, beaches, history, literature and culture, to name but a few. Also, the French and Swiss are justifiably proud of very advanced and exceptionally high-quality universities and institutes of engineering education. In addition, these nations have been in the forefront of engineering innovation. So, why not consider going to France or Switzerland for a term or two of study on exchange? We'll discuss the technical opportunities in a future article, but here we'll concentrate on other things.

Consider this: French is the first language of about half a million Ontarians. New Brunswick is officially bilingual, and about a third of its people speak French first. In Quebec over 80% of the people claim French as their mother tongue. Altogether this makes about seven million Canadians whose first language is French. Just remember, French is not a foreign language in Canada. But only about 5.5 million Canadians can communicate verbally in both languages. In this world, engineers need to be capable of working anywhere and certainly Canadian engineers should be able

to live and work anywhere in Canada. For this reason, if for no other, Waterloo students should take advantage of the chances available to make themselves proficient in both Canadian official languages.

So, what is stopping Waterloo Engineering students from taking advantage of our exchange programs in Switzerland and France? The most frequent answer to this question is: “My French isn't good enough”, or words to that effect. The language of engineering is largely mathematics – how much did you know when you first came to Waterloo? Did your lack of calculus, differential equations or linear algebra stop you from becoming an engineering student? Why then should your rudimentary French stop you from studying in France or Switzerland? Here's what Andrew Akers, (EE) who went to Lyon a couple of years ago, said in his report:

Do you speak French? You will by the end of your exchange. If you attended public school in Canada then you're already on your way to getting by in the country. You may think you've forgotten everything since grade 9, but don't worry, it's still buried in your head somewhere. Even if you have never learned French, you won't be alone; many exchange students came with absolutely no knowledge of the language. Waterloo usually requires [some high school] French plus one university level course to be considered

proficient enough to go on exchange, but this requirement can be waived if you attend the intensive French course [offered to exchange students in most French Engineering schools in August].

The higher education system in France has always been uniquely French – different from everywhere else. However, the situation is changing as a result of the Bologna Treaty, which standardizes degree programs across Europe, and by European student mobility. This causes a great demand for courses in English, especially in the fourth and fifth years after high school. More and more courses in English are available for exchange students and concerns about learning in French are becoming less and less.

We have had many successful exchanges with the Swiss Ecole Polytechnique Federale de Lausanne and the Swiss subsidize our exchange students with an allowance of 500 Swiss Francs per month (1 Franc ≈ \$1.00). France has three kinds of post-secondary Engineering institutions: Grandes Ecoles, Technical Universities and Institutes of Applied Science. We have exchanges with examples of each, making it possible to do almost anything there. We also participate in the government-sponsored Ontario/Rhône-Alpes agreement, which provides bursaries for studying in places like Lyon and Grenoble. No-one has returned from either country and

expressed regrets for going on Exchange. To quote Andrew again:

An exchange is a fantastic experience, probably the best you can have in your university career. ... Your university days are possibly the only chance to have an experience like this. Living and studying with other exchange students is a cultural experience that blows away any boxed tour from your local travel agent. What are you waiting for? Allez-y!

France and Switzerland are great places to go to on exchange. You will come back after your exchange with a good working knowledge of French, the first language of millions of Canadians. You will also have had a life-changing experience. “Switzerland was an opportunity to study abroad, experience different cultures, and make friends with people all around the world. [The experience] changed my views on the world by opening my eyes to a different way of living, language, and cultural norms, especially in an international environment” (Kevin Cheng, SYDE). Come to the Faculty Exchange Office (CPH 1325) or visit the Engineering Exchange Opportunities website, www.eng.uwaterloo.ca/~exchange, for more information about how and where you can profit from an exchange program in France and Switzerland.

Nobody Puts Baby In A Corner

Dirty Dancing Semi-Formal a smashing success!



BRYAN SACHDEVA
4A COMPUTER

A strong round of applause goes to Cat Hay and her team for putting on a highly successful semi-formal experience for engineers. The event, held in South Campus Hall's Festival Room this past Friday, July 4th, featured a fun and all-encompassing theme inspired by the 80's hit film *Dirty Dancing*. Surprisingly, SCH turned out to be an appropriate venue with plenty of room for dancing, bar services, buffet area, and intimate table arrangement. The decor was a well-coordinated blend of pink & black (très sexy). I especially loved the silhouette posters of different scenes of the theme movie placed all around the room.

The dinner was buffet style, featuring a lovely chicken breast with demi-glaze and sautéed onions, a sundried tomato encrusted, creamy salmon dish (which went very quickly), as well as a slightly less exciting pasta choice of penne. Overall, the food was good and appropriately portioned for the 30+ people there for the dinner. The waiters were attentive and fast. The bar was generous with the alcohol and had much-needed pitchers of iced water available for the more intense dancers.

The dancing, however, was by far the highlight of the night. Many people showed up just for the dance, to round out the attendance to what seemed like well passed 100 persons. The DJ's did a fabulous job spinning the best of the 90's

and earlier. It was an absolute thrill, and hard to stay off the dance floor. They did manage to throw some Flo Rida and Timbaland on a few times just to round things out. It was quite a sight, though, to see Engineering students of all disciplines come together to show off their surprisingly impressive dance moves. Random, crazy, and break dance styles seemed to dominate. We now know that Scott Rankin is master of the Charleston dance, I can square dance like it's my job, Peter Kelly can salsa with the best of them, and many more interesting secrets. Nothing was held back, with everything from dramatic interpretive dance (from yours truly and Erica Waugh), conga lines started by the Marilyn Monroe of the night (Jessica Howcroft), and even a failed attempt at the wheel barrow by Michael Seliske and Peter Kelly.

As a member of the faux-pas fashion team, I was eager to see everyone's personal style shine. And believe me, the glam was maxed out. The ladies did a phenomenal job at finding well-fitted dresses that really complimented



The Iron Warrior staff dressed-up and acting rowdy at the Semi-Formal.

their figures. The one dress that stands out the most in my mind was worn by a lady whose name escapes me. She wore a gorgeous purple dress that featured an extended V-neck cut, and was fitted just above knee-level. Honourable mention to Anna Lafoyiannis for her black dress. Surprisingly, the guys did an excellent job! Patt Gillis, please continue to wear pink... It's your colour. Of course, Erica and I overdid our matching. We wore the same color shoes, and accessories (white shoes,

white belt, white gloves). She wore a pink dress, and I had on a pink shirt.

Some other memorable moments include 'Tom from Nano' and his slightly less than eloquent asking of Erica Waugh to dance, Erica's arm being passed around, and Chris Jamieson falling over Munt. All in all, I was really impressed with everything from the food to the fashion, to the dance and even the small bar. Next term's organizers have huge shoes to fill!



Sandford Fleming Foundation

Professionalism.
Leadership.
Communication.

There's more to an engineering education than engineering.



Sandford Fleming Foundation Debates

The Foundation has established the Sandford Fleming 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 (sajeffre@engmail.uwaterloo.ca) if you are interested in participating. The overall winning team will receive \$300 each and the runners-up will receive \$150 each.

DATES July 7, 8 and 9
TIME 11:30am - 1:00pm
PLACE E2 - 3324

FINALS: CPH Foyer (Outside POETS), July 11 at noon

Refreshments will be served at the finals.
Everyone is welcome!

Emergency Loan Funds

SFF has made available funds for short-term emergency loans, interest free for 90 days. These loans are available to engineering undergraduates, on either an academic or work term. Contact the Student Awards office for further information.

Student Travel Grants

Student Travel Grants are available to students participating in technical conferences. Please check our web site for further information.

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

Enginuity Champions Crowned



MICHAEL SELISKE
1B COMPUTER

Thursday, July 3rd was a historic day for the 1B Computer class as it was the day they took home their very first Enginuity title. With no trophy to award (it was stolen a few terms ago) and a meagre audience the victory was still a crowning achievement for the young class. Wrapping up a 5-event competition, the Enginuity finals took each of the 4 prior events, shook them up and then shot them all back at the competitors for one big super event. The first event of the term had competitors of each team create an arm made entirely of straws and tape that would extend as far as possible horizontally while supporting a weight. The second event was a marble rollercoaster created with pipe insulation and the third event involved building the tallest paper tower. The fourth event of the term involved creating tin foil boats that could support as many pennies as possible and was conducted in the E2 fountain. The final event took each of these and changed the material the competitors were allowed to work with. So instead of paper



The winning team from 1B Computer poses with their winning creations at the Enginuity finals.

Sunny Ng

towers straw towers were made, tin foil boats turned into paper boats and pipe insulation roller coasters were now tin foil. The entries were impressive with the 1B Computer creating a tin foil rollercoaster with a loop, two banked turns, a jump and a see saw at the end. It was a close race to the finish but with the Computer class having participated in each of the previous 4 competitions

(and winning 2), they were difficult to catch. In the end *CIVIL This* took third, 1B Environmental took second, as the 1B Computer class took home the overall title. Enginuity Competitions were good times and I encourage anyone who enjoyed this term's event to consider applying to be the director next term.

Go Frosh Go!

MARC TAN & CAILIN HILLIER
2012 YEAR SPIRIT DIRECTORS

After much learning, studying, going to class, not going to class, and being severely sleep-deprived, we have finally adjusted to university life and we are well on our way to completing first year in Engineering at the University of Waterloo. It seems only yesterday that we first came to campus and did not understand any of these cryptic letters that actually represent building names. Go Frosh Go! Now that we have started to get over our initial fears of making friends, passing classes, and entering POETS, it is time for a celebration. We have survived first year and thus we are going to have a "We Survived First Year BBQ"! Again, Go Frosh Go!

Sooooooo... on July 24th, 2008, the 2012 Year Spirit Directors, in association with the Concrete Toboggan Team, are hosting an unbelievably awesome and epic BBQ. All Engineering students (particularly first years!) are invited to come out in support of 2012 Year Spirit. Come out to the POETS Patio on that Thursday afternoon and participate in many other fun activities. There will be lots of food and fun. Also, there will be a grand unveiling of the 1B class standings for P**5 Points. So come on out, meet and mingle with other first years, and show your Year Spirit because it's one of our last chances for fun before barricading ourselves in our rooms to study for finals. Go Frosh Go!!!!!!!!!!!!!!!!!!!!!! Because we are awesome.

First-Ever Band Wars Competition

MARK CREMASCO
3A MECHANICAL

On Saturday, July 5th, the engineering society held its first ever Band Wars competition in POETS. After the event was rescheduled due to a number of mishaps, the competition was reduced to 2 groups.

The first to perform was Justin Lee and accompaniment. Justin's incredible vocal talent stole the hearts of the crowd as he performed a number of covers, many of which he put his own spin on, bring each of the tunes to his niche. Justin concluded his set with a very well-writ-

ten piece that showcased his incredible vocals over warm guitar riffs.

Justin's set was followed by the second group, Circadian Rhythm. Circadian Rhythm followed Justin's lead, playing a number of covers and a single original piece. The music was a significant change, moving from an acoustic set to a loud electric performance. The group performed a number of crowd-pleasers, while displaying incredible musicianship (including a mean drum solo). Their original piece, a tribute to Ellen Page (the star in *Juno*), was played as an acoustic piece.

At the conclusion of the second set,

the three judges (directors Mark and Paul, and guest judge Ms. Cat Hay) deliberated for quite some time discussing the two performances, while the two performers got together and played some tunes for the crowd. After almost 10 minutes of discussion, the judges concluded that both performers were equally deserving of winning, thus calling the competition a draw. Both groups put on a great show, and thanks to everyone who came out to watch. Keep your ears peeled for more Band Wars happening next term as the competition will get bigger and more fierce.

P**5 Standings as of July 5, 2008

1. 2B Mechsicans (17655)
2. 4A unCIVILized (17095)
3. 4A Byte Me & RAM It (14690)
4. 2B CIVIL THIS (13955)
5. 3A FUCHEM 2010 (12275)
6. 1B SparTRONS (11835)
7. 2B Knights of NE (10810)
8. 1B Comp (7915)
9. 4A 60" JOYstick (7800)
10. 3A Peeping Trons (6650)

Beyond the Ring

Bridging the gap between university and the work force



Joe Pok, M.A. Sc.
Alumnus
Class of 1983



Miles Lauzon, Ph.D.
Alumnus
Class of 1975

Will Be Discussing...

- Skills that they do not teach in Engineering School - but are required for career advancement and ...
- Career Management

Thursday, July 17, 2008
11:30 am to 12:30 pm
DC 1302

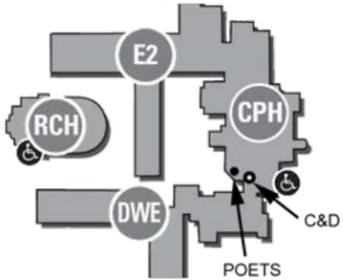
Free food and beverages will be provided

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!



POETS



ENGINEERING SOCIETY

HOURS OF OPERATION
MONDAY-THURSDAY 7:30AM - 7:00 PM
FRIDAY 7:30 AM - 5:00 PM

ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



AMANDA HOFF
PRESIDENT

Wow... It's hard to believe this term is almost over! Elections are now under way, so good luck to all of our candidates for the next 16 months' Exec positions! For everyone else, don't forget to come out to the forums and make an informed vote!

In other news, this weekend is WOAH!!! "What is WOAH!!!" you may ask...

It's the Weekend Of Awesome Happenings!

"What Awesome Happenings are going down this weekend, Amanda?"

Well, for starters, on Friday Gradcomm will be hosting an epic pubcrawl! Then, when you get up at a nice early 10:30am, you can come to campus for 11am for a

fantastic charity breakfast with MORE THAN JUST PANCAKES! At 1pm, we start our awesome Joint Council Meeting, where we will be discussing a couple of exciting motions, and also releasing news of some changes that will be happening at the end of this term within the Engineering Society, so you don't want to miss it! After the meeting, you have some time to relax before coming out to POETS for the 3rd ever P**4 celebration (that's "POETS Pantastic Pig Pyre", a.k.a. a Boar Roast in POETS - safe for vegetarians, too!). Saturday evening after the Pig Roast, FOC will be taking over with the summer leader retreat festivities, which will continue throughout the day on Sunday. This is a weekend you don't want to miss!!! As Joey from Blossom would say if he lived in the internet age... "WOAH!!!!!!ononetwopurple!"

Thanks for reading, guys!!! It's been a slice!

VPI Report



CAT HAY
VP INTERNAL

It's hard to believe we're only a few weeks away from the end of lectures! Don't bury yourself in DC yet, we've still got lots of awesome events coming up over the next couple weeks!

For starters, the Joint Council **Weekend of Awesome Happenings** (WOAH!!!!!!) is July 11-13. The main part of this weekend, our Joint Council Meeting (the annual meeting for both halves of EngSoc), is on Saturday July 12th at 1:00-3:00pm in CPH 3385. Other events going on that weekend include: Friday GradComm Crawl, Saturday Charity Breakfast (11am-1pm), Saturday Boar Roast (5-9pm), and the Frosh Leader Retreat (Saturday 9pm-Sunday afternoon).

TalEng is coming up on Tuesday July 15 at Bomber. This event is split-licensed so it's open to all ages, and bar services are available. Best of all, the results of the EngSoc executive elections will be announced for the first

time at the end of TalEng! Sign up to participate on the Orifice doors or by e-mailing the directors. As Mark says, all the hip folks are doing it!

On Friday, July 18 we're hosting the **first annual golf tournament** in Cambridge. Not sure if your golfing skills are up to par? Come on out to the **driving range** on July 10 to practice!

EngPlay (proof that Engineers can and do act) is performing the weekend of July 18-19. This term's show is "Never Judge a Book by Its Cover" by Seymour Blicher. It's a romantic comedy about mistaken identity, neuroticism, and books (well, kind of). Stay tuned for more information.

July 22 brings a charity concert by the **Engineering Jazz Band** - With Respect to Time, at Hagey Hall. Later that week, all students graduating in 2012 are invited out to a year spirit **We Survived First Year BBQ** outside POETS.

As always, more info about upcoming events can be seen on the whiteboard in CPH and online at engsoc.uwaterloo.ca.

VPF Report



CHRIS JAMIESON
VP FINANCE

	Requested	Allocated
GNCTR 2009	\$450.00	\$100.00
Gradcomm 2009	\$500.00	\$400.00
Student Horizons	\$300.00	\$200.00
Waterloo Space Society	\$340.00	\$200.00
Federation Orientation Committee	\$500.00	\$400.00
UW Canada Day	\$500.00	\$500.00
Robot Racing	\$265.00	\$200.00
Comp Eng 2010	\$150.00	\$0.00
TOTAL	\$3,005.00	\$2,000.00

Hello everyone and welcome to another IW report from me. Lucky (debatable) for you, I actually have things to say/present this week. First and foremost, I want to extend my congratulations to all those that will be receiving donations this term. The council made the decision last meeting (thanks Amanda for facilitating while I was writing a midterm) and the results can be seen on the left. I am always proud that even though our budget may be tight, we always find room to contribute to great causes and life at Waterloo.

The second major thing I would like to touch on is a sincere good luck to the candidates in the upcoming elections. Specifically, I am excited for the excellent race for my position. I encourage everyone to get informed about the specifics of the platforms and not just vote for friends. Your friends will be your friends if they are elected or not, but EngSoc will be much better off with the "right" (read: in your eyes) candidate in the job.

Well I am done for my second-last report as your VPF, and I just want to remind you once again to VOTE!

VPX Report



ERICA WAUGH
VP EXTERNAL

This past weekend was the Engineering Students Societies' Council of Ontario (ESSCO) Annual General Meeting. Nine other Waterloo delegates and I made our way to Ryerson University for some plenary partying. The weekend was very productive and included the election of the new executive. Congrats to Spencer McEwan on becoming the new ESSCO VP Communications and a very big thank you to the past VP Communication, Dan Taylor for all of his hard work. Waterloo B-Soc also received an award for best teleconference attendance/participation, I'm doing my job guys!! Best of luck to the new exec! Be sure

to check out Spencer's article for more info on the conference.

A new CFES E-Bulletin came out this week. The CFES is still looking for an Official Languages Commissioner. If you are fully fluent in French and English please consider applying. It's a great opportunity to expand your resume and to become a part of a great organization, also travel opportunities galore! For more information please email me.

In EngSoc news, a big "thank you" to my Canada Day directors. The mini Olympics at this year's annual Canada Day celebration went really well with huge participation. Great work guys! Also, watch for posters advertising an upcoming Women in Engineering Frisbee tournament to happen next week.

Good luck to everyone running in the EngSoc election!

VPEd Report



PATT GILLIS
VP EDUCATION

With elections getting underway, the end is near but not quite here yet. There are still a few things to take care of.

First and foremost Debt Load Surveys should be distributed as you read this. You will be receiving them from your class reps to be filled out, collected, and returned to the Orifice by FRIDAY JULY 11th. Please pay close attention to these surveys and answer them as accurately as possible as the results are considered carefully by the Dean. Aggregate results of the survey will be published in the last issue of the IW so results will be made available to all undergraduate students. Also P**5 POINTS will be awarded to each class based on a class participation percentage basis.

Next, course critiques are just around the corner. The "Stuffing Party" will be this Thursday, July 10th with the critiques being distributed between July 14 and the 25th. For anybody who does not know what the stuffing party is, it's an evening where the Dean buys us all dinner and we count out and stuff the appropriate number of forms into envelopes for each of the Engineering courses being offered this term. Also coming up is the "Reading Party" where we screen all of the forms for inappropriate or offensive comments towards professors. The more people that come out, the faster it goes and everyone still ends up with free food at the end, so stay tuned for time and place! (Also, P**5 POINTS will be given to anyone who helps with stuffing or reading.)

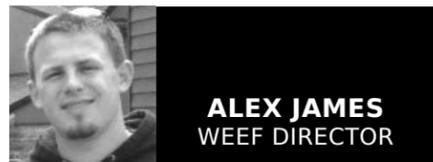
Aside from that we've been making progress on various fronts within the academic councils

of the school. Topics of conversation from the most recent Co-op Working Group (CWG) included the Petitions and Appeals process for failed work-terms due to turning down a matched job; whether or not a limit should be set for international work-terms; and general guidelines for accepting work terms, specifically with reference to primarily general labour or maintenance jobs. In light of keeping this article shorter than 5 pages long I will not divulge into all of the details of the discussions; however I welcome anyone interested to contact me or your Co-op rep Sasha Avreline (aavrelin@engmail.uwaterloo.ca) for any details you may be interested in.

Also from the PDEng Steering committee: there were discussions mainly surrounding the topic of PDEng 57 and how admissions would be made into the course. The general consensus was that a form would be required to be filled out by the student, with confirmation provided from the department that, in fact, the student does meet the requirements for admission into the course. Also a short answer response will be required of the student to show his or her commitment to the course, and to provide an opportunity for the student to express what he or she have learned from the process.

Finally, on more of a non-VP-Ed role, I would like to encourage everyone to have a look at the motions I brought forward at our last EngSoc meeting. Both of these motions are changes to our constitution and therefore will be affecting the Society for years to come. Specifically, the motion regarding the changes to elections may dramatically change the way we elect our executive officers, and therefore who gets elected in the end. Both motions are available online at with the minutes at <http://engsoc.uwaterloo.ca/www/society.php>.

WEEF Director Report



ALEX JAMES
WEEF DIRECTOR

Hello Everyone,

This is my favourite time of the term. This is the time when WEEF opens its ears to worthy funding candidates and gets ready to distribute over \$85,000 to the betterment of our faculty. By now I hope you have all submitted your proposals and are eagerly awaiting the chance to present your request in front of the funding council. Those lucky enough to attend these meetings will have the chance to hear about new initiatives being undertaken by the departments. They will also get the chance to hear about recent

accomplishments by our student teams. The presentations are happening June 8th and 10th in RCH 306 from 5:30 - 7pm. As always, dinner will be provided. Everyone is invited, and having a representative there from your class is encouraged. You can check the website to see who your class rep is. Next Tuesday (June 15th) same time, same place, will be the funding council meeting where each class rep will get a chance to speak their mind and finally vote on the funding decision. I'd like to thank everyone who participates in WEEF in any way, be you a presenter, class rep or WEEF assistant. Without you our laps would be a lot emptier, and our trophy cases filled with cobwebs instead of gold!

Until Later,
Alex

ENGINEERING SOCIETY EXECUTIVE CANDIDATES

EngSoc "B" Elections

ARI TAUB

CHIEF RETURNING OFFICER

Hello everyone! As I'm sure you've all noticed, the campaign period is well underway, but for those who may be a little confused by all the posters, I owe you an explanation. The Engineering Society is now in the process of electing its next set of executives for EngSoc "B", who will be in power for the next 16 months. Campaigning will continue until Monday, July 14th, and voting day will be on Tuesday, July 15th.

I am very proud to say that we have a great group of candidates for this election. My congratulations go to the three candidates running unopposed: Laura Sisson for VP-Internal, Sasha Averline for VP-Education, and Matt Bester for WEEF Director. Ratification of the acclamation for these three positions will take place at the EngSoc council meeting on Wednesday July 9th.

We also have three very interesting races for the remaining positions.

Fighting for President are Cat Hay and Tiffany Terrier. Cara Kennedy and Jack Wu are dueling for the position of VP-External. Lastly, in an amazing four-way race, Angus Wong, Anna Lafoyiannis, Katherine (Keo) Olsen, and Scott Rankin are competing for VP-Finance.

If you have any questions to pose to the candidates, we are hosting a public open forum on Thursday, July 10th, at 11:30am in the CPH Foyer. I encourage everyone to come out as this is the best way to get to know your candidates and make an informed decision. Another great way to stay informed is to read the platforms found in this issue of the IW written by each of the eleven candidates.

Voting will take place on Tuesday, July 15th, from 8:30am - 5:30pm in the CPH Foyer. The results will be announced that evening at TalEng. Thank you all for your time, and I hope to have a great voter turnout on Election Day!

WEEF Director Candidate

MATTHEW BESTER

2B MECHANICAL

Hello, my name is Matthew Bester and I am currently in 2B Mechanical. In the past I have been part of the WEEF Funding Council and an Assistant WEEF Director and now I want to be your new WEEF Director for the next 16 months.

As I mentioned above I have been involved with multiple aspects of WEEF. I have attended and helped the current WEEF Director run the WEEF Returns at the beginning of term and the Funding Council meetings. In addition, I have been involved with many ongoing WEEF projects.

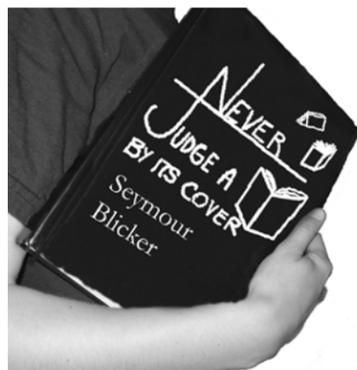
As the new WEEF Director, I would like to start new initiatives and continue with the ongoing projects. One of the new initiatives would be to find new ways to show people where the WEEF Funding goes and how much WEEF has given back to them. I plan to go through previous proposals and generate new statistics to show how much WEEF has

given back.

The main ongoing project that I would like to have completed by the end of my term is a new feature on the WEEF website called the WEEF Public Database. The database would allow recipients of funding to check their current balance online. Moreover it will include data regarding WEEF Returns. This will allow everyone to see trends of the returns between departments (Mechanical, Civil, etc.) and between years (i.e. 1998 vs. 2008). This upgrade will make WEEF more public and open to the members of the foundation. Furthermore, it will streamline the process of tracking funding saving the future WEEF Directors time and energy.

Thank you for reading my article and come out on July 15th and vote!

Matthew Bester
mbester@gmail



EngPlay
Spring 2008

What happens when you write a book but don't tell anyone about it?

July 18-19th, 2 and 8 pm
RCH 103 and AL 113
Tickets \$6/ca.
Available in the Orifice

VP Internal Candidate



LAURA SISSON
2B MECHANICAL

Hi, my name is Laura Sisson. I'm in 2B Mechanical and I'm running for the position of VP Internal.

Why would I make a good VPI?

I've had a lot of experience running and coordinating events. I was very involved in high school; planning events such as semi-formal and various school spirit activities. In my final year of high school I held the position of student council president. This allowed me to manage many events including an amazing haunted house on Halloween. We had a fair number of volunteers for this event which I had to organize and coordinate to get the job done. This experience taught me many valuable lessons in leadership and how to manage people in order to run events as smoothly as possible.

I've also had the opportunity to hold a number of directorships here in UW

Engineering. Many of which were under the VPI such as Special Events, Scavenger Hunt and 2011 Year Spirit. These directorships, especially the Scavenger Hunt, required me to be extremely organized in order to properly balance school with directorships. As a two-time director of Scavenger Hunt, I had a variety of responsibilities, primarily ensuring that all the events got planned by managing volunteers. I learned that the best way to accomplish this was to delegate certain events to volunteers; given these responsibilities, people then tended to run with their events and came up with a lot of great ideas. Instead of doing everything myself, I learned to let certain responsibilities go while still making sure the job got done from the sidelines. This is exactly the position that a good VPI should be in.

If you vote for me on July 15th, I am confident that I can do a fantastic job and make sure that your time here in Waterloo Engineering is the most enjoyable possible filled with well-run, fun-filled events.

VP Education Candidate



SASHA AVRELINE
3A CHEMICAL

Hey B-Soc! I'm Sasha and I'm your candidate for the position of VP-Ed. Some of you may know me as one of the P**5 directors this term and from giving out P**5 coupons at various events; others may have met me in the orifice. If you haven't had the chance to meet me feel free to introduce yourself, ask any questions or pass on any suggestions - I will be around the orifice, CPH foyer, C&D and POETS!

First off, a little bit about myself: in high school, university and workplaces I have always wanted to get involved and try to make a difference. My involvement in university started from being a class academic representative and being the EngSoc secretary. Over the past terms, I have developed a very strong and effective team of class reps with the help of which I was able to change assignment deadlines, exam dates and even aspects of the curriculum. I also promoted involvement in EngSoc and class events. So what I would like to do is to take those skills, combined with my experience holding various directorships in EngSoc and apply it to the position of vice-president of education. The accomplishments I have had on the class scale will thus be expanded engineering wide, providing you with a better educational experience.

So how am I planning to do this? My campaign is based on three words:

Awareness, Action and Accountability. I would like to title my campaign as the "triple A" campaign. Let me explain what I mean by this:

- Awareness: First of all, I would like to ensure that everyone in Engineering is aware of the role of Vice-President Education, the directorships associated with VP-Ed and most of all the type of input we as a team can provide to the university to make a difference. I would like to do this through getting a list of academic reps from each class in the first week of the term and holding frequent meetings with the reps.

- Action: Second of all, I would like to take the input obtained from the student body and actively use it to fight for improvements and changes on our behalf.

- Accountability: Finally, I would like to ensure that all of the issues I act upon will be followed through to completion and that I will be fully accountable for my work.

A couple of more specific things I will fulfill if elected:

- I will improve the exam bank by getting a lot more newer exams from all departments

- I will keep very close attention to the PDEng independent review and ensure I stay in touch with the A-soc VP-Ed on the progress of it

- I will be very approachable by anyone at anytime and will always help directors and class reps.

So on election day, support me and help put a "triple A" on your transcript!

Come Participate in the Engineering Society "B" Elections Public Forum!
Thursday, July 10th
11:30am
CPH Foyer

ENGINEERING SOCIETY EXECUTIVE CANDIDATES

Presidential Candidates



TIFFANY TERRIER
2B MECHANICAL

Hi all! My name is Tiffany Terrier, or many of you may know me as either “the Jamaican” or the frosh leader with the bright orange hooters sweat suit. I am in 2B Mechanical Engineering and I am running for President.

Why, you ask?

Well firstly, being President of the best Engineering Society in Canada would be AWESOME, not to mention that I would get to work with an extremely talented group of exec to make your time as an Engineering student at Waterloo more memorable and ultimately more beneficial for YOU.

Being President is different from all the other executive positions in that it is mainly a leadership role that provides a link between YOU, the students, and the administration. Being captain of the Waterloo Warriors golf team and having been captain of both my high school and the Jamaican Junior golf teams I have had a lot of experience as a leader, and a liaison between my team and the coaches/athletic department/golf association.

In my past few terms I have held many directorships and it is the combination of these that has ultimately guided me with my decision to run for President. By running Scavenger Hunt I was able to work with an amazing group of people combining everyone’s individual skills to create a team that worked toward putting on a great event, which



CAT HAY
3A SYSTEMS

I’m sure some of you are wondering why I would ever want to run for a second term on exec. The truth is that I’ve had a really great 16 months as your VPI, but there is still so much more I want to do with EngSoc. It’s not that I didn’t accomplish my goals for VPI, but now I have all these new goals I’d love to see fulfilled at a presidential level.

In my mind, the most important role of the Engineering Society President is to lead the executive in initiatives that best serve Engineering students. I would like to see a unified exec that works together on common goals. Right now we’re all in little silos (internal, external, education, finance) and there are a lot of half-finished projects. Let’s try picking two or three goals as a team for which we can all be held accountable.

So how do we pick which goals are most important? We could start by going back to the constitution: the objective of the society is to be the official engineering undergraduate organization and to represent the interests of its members. I think that means we need to start looking at what will have the biggest impact on all engineering students. Although there are a handful of students that come out to events throughout the term, there are a lot more students that use services like the online exam bank, work report centre, C&D, and POETS. I’d like to see us spend a term focused on beefing up the exam bank and work

is much like the EngSoc exec working together.

My recent role as Alumni Officer has introduced me to a side of the Engineering Society that people do not often get to experience. I am planning the first ever Engineering Society Alumni-Student Golf Tournament. Through this, I have been in contact with numerous alumni from all different years and programs.

If elected to be your president I plan on continuing to build an AWESOME relationship with the Alumni, by ensuring that they are informed of events such as EngPlay and Jazz Band Performances that showcase some of the many talents that our Engineering community has to offer. It has been my experience that Alumni love interacting with students because stories are shared of how Waterloo Engineering used to be and how it has evolved to where it is now.

As President, I would also like to make myself and the other exec more available for YOU, the students. One way that I plan to do this is to create exec office hours, a block of time once a week when you are guaranteed to find a specific exec in the EngSoc Office. I would also like to reiterate that as President I would be representing YOU, thus I would value and welcome any suggestions or requests that you may have. Please feel free to send me an e-mail or talk to me anytime: in POETS, in the halls or at any AWESOME event that you may run into me at. So finally, I think it would be SUPER AWESOME if on July 15th you’d vote for your “Dependable Terrier” for President.

report centres since they are services that a lot of students want and use.

As the only official organization for all Engineering undergrads, it is important that we be completely transparent about what we do and how we do it. One way to improve this would be to publish a breakdown of where your \$14 EngSoc fee goes each term. Another method is to ramp up class visits throughout the term – each exec could be responsible for visiting a few classes once a month to give updates on what we’re doing that affects their class and collect feedback.

Some other things I have on the agenda include: bringing the Tool out to more events and getting the Toolbearers to accent their usual wardrobe with themed accessories (e.g. Santa Claus parade hats, Canada Day bandanas, etc), working with the historian to organize our artefacts (such as putting old engineering photos in an album or on display in the hallways), and encouraging interaction with other faculties by sending representatives to their society meetings and events.

As you can see, I’ve got tons of ideas for how we can help EngSoc serve a broader portion of the Engineering undergraduate community. What I want you to take away from this article is that I am incredibly enthusiastic about this society and the President position. Combine that enthusiasm with my proven organizational skills and previous exec experience, and we have the ability to turn these ideas into a reality! Please show your support by voting Cat Hay for President on July 15.

VP External Candidates



CARA KENNEDY
2B CIVIL

In case you didn’t know, the Vice-President External is responsible for representing the Engineering Society outside of our faculty and the university along with delegating and managing multiple directorships – these include Canada Day, Charities and Competitions, to name a few. These directorships are run by people in the Engineering Society and can be very rewarding to get involved in. I recently held the one of the Canada Day Director positions and along with two other people we ran a children’s activities centre that was enjoyed, by children, throughout the day. Without our stellar teamwork, this event would not have been as successful as it was. I value teamwork and find it very important to incorporate all members of a team in order for it to be effective. Good communication is also imperative within a team and by recognizing that I always keep everyone informed to ensure that things run smoothly. With these attributes I would fit well within the Engineering Society executive team.

I know many people see me as a bubbly and outgoing person but what they don’t see is my passion for the Engineering Society and my desire to improve involvement within and outside of it. As VP-Ex I would be the face of the UW Engineering Society outside of our faculty and the university. Since I have been able to balance academics, extra-curricular activities and still have time for social involvement I believe

I am the person that can represent our school in a well-rounded and professional manner. I just recently attended the Annual General Meeting for the Engineering Student Societies’ Council of Ontario (ESSCO) where I was a delegate of the current VP-Ex and my experience over the weekend exceeded my expectations. The enrichment activities that had been arranged benefited me more than I thought they would and I immediately thought of how you, as my peer, could benefit from the knowledge I gained. This would be one of my focuses, should I be elected as VP-Ex, to make students in engineering aware that there is so much more they can get involved in outside of our Engineering ‘bubble’ and outside of the school.

I would also like to give back to these organizations that involve themselves with our Engineering Society and contribute to their direction. Their main focus is benefiting our Engineering students and their strong momentum has great potential that I would love to be involved in. Being a current student that has a passion for Engineering at our school I have a lot to offer these associations in terms of knowledge, input and recommendations all of which I would be happy to share.

With my enthusiasm toward educating and including my peers and my desire to benefit the other organizations I know I would make an excellent Vice President External and I hope you believe the same.

Thanks for stopping by,

Cara Kennedy



JACK WU
2B ELECTRICAL

My Fellow Engineers,

My name is Jack Wu, and it would bring me great honour and pleasure to serve as the EngSoc Vice-President External for the two upcoming academic terms. I believe our five precious years here at University of Waterloo should be one of the most memorable experiences of our life. There are many setbacks and challenges that limit us from reaching our ideal university experience, which is why it is in my best interest to be involved and help everyone within the Faculty of Engineering to create our own journey and make history here at Waterloo.

The position of Vice-President External will enable me the ability to create various opportunities that will allow students from all departments in Engineering to embark on experiences that will be everlasting, including Foreign Exchange Program, engineering competitions, and other social outings but to name a few. I believe I can make a dramatic impact on our experiences here with creative and new ideas. Establishing a greater number and stronger external relations with other organizations is the key to enhancing our university experience, and some examples of my current ideas are as follows:

- Foreign Exchange Program – One of the most exciting adventures as a student is to step inside a completely differ-

ent culture, and to learn and make new friends. I will work with the exchange program to establish more connections and opportunities for more students to enjoy this once-in-a-lifetime experience.

- Inter-Faculty Relations – I believe there exists certain frustrations about the gender imbalance within our faculty. I want to ease this frustration by organizing and promoting joint events with other societies on campus, or even other universities, such as interfaculty sports and inter-university events. I believe the exposure to non-engineering faculties will diversify and enrich our time here.

- Competitions – The Ontario Engineering Competition is a perfect opportunity for fellow classmates who have a passion and talent in designing and technical debates. I intend to further promote the Ontario Engineering Competition to send out the cream of the crop to represent our school. By coordinating with the organizer, I will offer aid from our school and to ensure that the competitions run smoothly. I also wish to develop further opportunities in this area.

Thank you for giving me the opportunity to run for the office of Vice President External. I sincerely wish my ideas and thoughts for enhancing Engineering Society coincides with your desire to have a great experience in your remaining years to come here at Waterloo.

Sincerely yours,

Jack Wu

ENGINEERING SOCIETY EXECUTIVE CANDIDATES

VP Finance Candidates



ANNA LAFOYIANNIS
3A ENVIRONMENTAL

Hi! I'm Anna Lafoyiannis and I'm in 3A Environmental. I've been involved in EngSoc for a couple semesters now. I've held 5 directorships, was a Big for Frosh Week and I play in the Jazz Band. This semester, I am a director of the Jazz Band and have taken on the responsibility of managing the money for it. This has given me valuable experience that I plan to carry with me if elected as Vice President Finance.

I plan on focusing on the following three goals:

1. Information – I plan on taking advantage of the launch of the new website to publish historical information on the finances of the Engineering Society. In particular, I want to include previous budget proposals and final budget decisions. This will hopefully make finances more transparent to all EngSoc members and help directors when creating their budgets.

2. Early planning – I will work with the Vice-President Internal and directors during co-op semesters to help directors create their budgets by the end of the first week of school. Writing the budget is a great way to help directors plan their details. If coordi-

nated well, the budget can be made available before the first meeting so that EngSoc members can review it before voting on the budget at the second meeting.

3. New business – The new business will be the primary focus of my term. The construction of the new building represents a new and exciting beginning for engineering at Waterloo. Chris Jamieson has done a great job in making the preliminary plans for a new Coffee and Donut shop in Engineering V. I will work closely with the architects of the new building to create a C&D that will be even better than the current one in CPH. I would really love to see a beautiful bistro area inside the C&D to eat. Imagine having a lunch date in E5! Now *that* is romance!

I will, of course, continue with the direction that previous VP-Finances have taken. That includes rolling out the point of sale system and the online novelties project.

I pride myself on being really easy to talk to and not intimidating at all. I think this will make it very easy for me to work with the rest of the executive to make the next 16 months in Waterloo Engineering the best they can be! If you want to know more about me or my ideas, please come talk to me! You can find me at POETS on most days or by email at amlafoyi@eng-mail.uwaterloo.ca.

nity for bulk orders (i.e. as many groups as possible ordering at once) to include student teams and other groups if they wish – and do this each term. This also leaves the possibility open

A variety of business initiatives were also recently considered. One idea, a used bookstore, was not feasible as a profitable endeavour. However, I'd like to run it as a student surface in the form of a used book exchange. I would like to set up both a website and a board where older editions of engineering books could be advertised. The transaction would be between students but the postings would be moderated by EngSoc. This would allow an easier opportunity to sell older editions that the used bookstore won't take, but Profs still use for courses.

More ideas!

I have a variety of little things to add to Novelties' list of items, as well as a selling idea which fashion buffs may like, but I'll save those for class visits. I also encourage you to come out to the forum on July 10th at 11:30 in the CPH Foyer (especially if you've managed to make it to the end of this).

I'm enthusiastic to say the least.



ANGUS WONG
2B ELECTRICAL

Fellow Engineers,

My name is Angus Wong, and with your support, I will be able to make a difference as Vice-President, Finance. I have the experience and skill set that is required to be successful in this position. Previous executive positions I have held in the past (*Editor's note: not of EngSoc*), include VP-Public Relations, and Treasurer. This has given me ample preparation for the expectations of someone that would be elected to the Vice-President Finance position.

Our 5 years here at Waterloo should be one of the most cherished experiences of our lives. Here, we will develop countless memories and friendships. I believe that I will be able to help build an environment which would foster such experiences. I will be achieving this goal from various fronts. POETS gives us a place where we can relax and get to know our fellow Engineers. I plan to put forward a motion to 'revamp' POETS and make it into a cozier and friendly lounge. As I said earlier, all 5 years here at Waterloo should be cherished. As VP-Finance, I will find the funds required to create lounges not only for up-

per-year students, but also for 1st and 2nd year Engineering classes. I will use my position to negotiate with the Dean to allocate space for us in the new E5 building.

As both of these motions will require significant funds, I will work to ensure that other EngSoc initiatives are not affected. I plan to do this by organizing fund-raising events that will bring in participation from other faculties. This plan has a few objectives: increasing the amount of funds we have to accomplish our goals, and giving engineering students more social opportunities to "play hard".

Thank you for giving me your time and opportunity to run for the office of Vice-President Finance. I hope that my ideas and goals for enhancing our undergraduate experience are in line with yours. I am always open to new ideas and suggestions. Let's work together to create an amazing experience for our remaining years!

Sincerely,

Angus Wong,
Fellow ECE Student



KATHERINE OLSEN
3A MECHANICAL

My name is Keo (it's actually Katherine Olsen but no one is supposed to know that) and I'm running for the position of VP-Finance.

First and foremost, I'm an enthusiastic individual. I'm approachable and willing to take ideas and execute them. Through extensive extra-curricular involvements I have become proficient at staying on top of things.

I coordinated various activities as a Prefect, have held a variety of directorships, as well as running a campus-wide head shave so I understand how funding affects your ability to run an event.

Ideas! Some ideas!

There are several ideas I'd like to implement/tasks I'd like to accomplish if given the opportunity as VP Finance.

The current VP Finance conceived a t-shirt design contest in the fall term for first year students, allowing upper year students to place orders as well. I would like to continue this initiative but expand the opportu-



SCOTT RANKIN
2B CIVIL

If you asked people who know me, "Who is Scott Rankin?" you would likely get a response along the lines of "He is an unbiased, honest, and most importantly, organized individual.", some of the qualities required from a person responsible for handling large amounts of money. Over the next couple of weeks, I, Scott Rankin, will be campaigning for Vice-President Finance. I will try making it known around the Engineering Faculty, who I am, and what I am trying to do for our society financially. I believe the position of VP-Finance requires someone who is honest, fair, and open-minded. On top of this, the person should be able to delegate their time effectively, and have strong organizational skills, especially in terms of finances. All of these qualities listed above embody me as a person. I use all resources available to help organize my time and money so that I can further involve myself in other activities in our society.

This term I have been making an effort to attend all engineering related events to obtain a better understanding of what each event, or group, entails and what kind of financial support they require. This will help me prepare a budget and allow me to allocate the necessary financial support to the proper areas. When directors are submitting their request forms, I will make it one

of my top priorities to get a full detailed breakdown of every dollar asked for so that I can make an informed and fair decision. Another major duty that is required of the VP-Finance is to organize all the booking and financial records, which should be easy for me, due to my prior experience as the Financial Minister during high school.

I also plan on making major improvements to Novelties, our faculty store. Chris Jamieson, the outgoing VP-Finance has already put forth certain plans, such as cataloguing our inventory, and providing an online store aspect to the new website. I plan to keep both these in motion. Also I plan on acting on the idea presented before; providing tables and chairs in the CPH Foyer, and a few of my own ideas such as, improving the display of novelties merchandise, possibly a display case outside the store instead of inside the Orifice. Also I would like to look into the new renovations to POETS, like increasing the amount of bar space, to create extra space in front and behind the counter, for things such as sinks, so that mixed-drinks can be served. I am very open to any ideas you might have that could improve anything related to our society, and look forward to discussing it with you.

Thank you for taking your time to read my platform.

I hope you make the right choice by voting for me.

Scott Rankin



Vote in the Engineering Society "B" Elections!

Tuesday, July 15th
8:30am - 5:30pm
CPH Foyer

POINT VS. COUNTERPOINT

Should You Get Your WEEF Return?

POINT



KEVIN LING
1B ELECTRICAL

If you take a poll of engineering students on their views about WEEF returns, you will probably get a number of different answers. Many will blindly recite the words that have been engrained in us since we arrived at Waterloo: "WEEF is good". Others might not even know this money is returnable, while a few actually take the time to get their WEEF returns.

Sure, WEEF pays for some great things like lab equipment, but isn't that why we pay high tuition fees? If we are buying these things through our WEEF contributions, what is the university doing with all the extra dollars? By some theories concocted by Engineering students, the tuition money the university saves by having WEEF buy our lab equipment is spent on other things, like Arts programs. Nevertheless, there are still plenty of other facts we can look at about WEEF.

First of all, what kind of fascist regime do we live under where they bill us first and keep our money unless we go out of our way to get a return? It would be a terrible practice if any other charity organization operated like WEEF, wherein they first take your money and then keep it unless you go to their obscure office during the inconvenient time frame that they set up and ask for it back. Honestly, I would be first in line to canvass for UNICEF if it meant I could do a break-and-enter, donate the profits, and providing that the theft victims don't decide to ask for their money back (take their money back and not support starving children? What jerks). But we all know that this kind of practice will forever be frowned upon and thus I abstain from getting involved with charities. Regardless, our contributions to WEEF shouldn't be treated any differently. The donations they collect should be on a fully voluntary basis, in lieu of the current pay now/opt-out later routine.

So maybe I'm just being fussy about this return procedure, but after seeing how people try to shame those who get their returns, why not complain and protest? At a recent EngSoc meeting, WEEF director Alex James encouraged people to instead refer to WEEF refunds as "WEEF returns" from now on. This is to build the stigma that WEEF isn't simply stealing your money and that anyone who gets a return is now taking back money that they already donated. All of this, of course, is just a minor technicality, but it makes it seem like people who want their hard earned cash back are being allowed to call takesies-backsies out of the charity of the Engineering fund (no one likes taker backers).

If we didn't have WEEF, the faculty would have to step up and purchase new equipment on its own. Waterloo wouldn't be able to keep its name as the top engineering school in Canada if all of its labs and equipment fell into disrepair. Even if the faculty would have to increase tuition fees in order to accommodate this (perhaps a hike in the neighbourhood of, say, \$75), at least they wouldn't be all two-faced about it saying you can get your money back, but then try to pressure you not to. Which leads me to my next point: WEEF is contributing to high tuition costs.

At the height of the controversy over

paying \$5 per term to fund CKMS, UW's own campus radio station, the Federation of Students came up with the idea of making incidental fees in our tuition strike-able. When the motion was brought before A-Soc last term, EngSoc was in favour of the motion but refused to even consider making the WEEF contribution strike-able. Given our current tuition costs of about \$5300, including extra fees, WEEF contributions make up approximately 1.41% of this. This amount is much more significant than the 0.09% represented by the \$5 for CKMS. And if you think about it, it's also pretty ironic that EngSoc didn't want to give engineering students the choice to strike over a voluntary donation. Making the WEEF donation optional from the time that we pay tuition would be a much better system, and it would allow people to get their returns more easily.

Furthermore, it is alleged that the way WEEF has run in the past seems just a tad corrupt. A simple Google search on WEEF returns some juicy gossip pretty quickly. They tell students that they can get their returns, but it's not unheard of for people (allegedly a former WEEF director) to go hassle students waiting in line to get their returns. This kind of behaviour is actually what prompted a group of students to spread anti-WEEF propaganda around campus in 2004. The students distributed posters telling people why they should get their WEEF returns. In response to this, the WEEF Director at the time, Erin Young, suspended WEEF returns, presumably until the incident blew over. It'd be a real shame if students actually started exercising their right to get their returns just because someone made a good argument against WEEF. The stem of the issue seems to be largely in the fact that WEEF justifies billing us \$75 per term by giving us the option to get a return, but then engineering students try to pressure others to not reclaim their contributions, or WEEF suspends returns altogether when people try to get back their money.

Effectively, WEEF allegedly employs poor practices to ensure that a minimal amount of students get their returns. Even students who have legitimate reasons (e.g.: broke, they don't believe they should have to pay for things that should be covered by tuition, or strong religious convictions) get told that they should still be supporting WEEF, once again because of the "WEEF is good" mantra. If what Engineering students wanted was for everyone to pay the \$75 fee, then they should have tried to make it mandatory instead of the status quo where they alienate people who want to get their returns.

Besides, if you can overlook the social implications then it's not like there's any real downside to getting your return. You can still use all the WEEF-bought equipment and submit proposals on how the money should be spent. WEEF is like the gift that keeps giving – except for once a term. Next term when you have the chance to get your return, you might just want to save your money. If you feel that contributing to WEEF is a worthy cause, then do so by all means. Help pay for the dual-screen computer I used to write this article, see if I care. I probably get more out of your \$75 than you do. Just remember that you are entitled to get your money back, and don't let anyone tell you otherwise.



SYLVIA WU
1B MECHATRONICS

Call me brainwashed: I firmly believe that WEEF (Waterloo Engineering Endowment Fund) is good. I'm not writing this from a WEEF-funded dual-screened computer, but I can appreciate how pretty it looks in the Iron Warrior Office. I'm sure on production weekends, when our beloved and overworked Editor-in-Chief is wishing that he never took on this job, the glow from the dual-screen provides an instant cheer-up. In other words, the WEEF-funded dual-screen helped to ensure that you get your regular issue of the Iron Warrior every other Wednesday, instead of some stapled-together 8½"x11" called EngNews with XKCD on the front page.

Every UW undergraduate engineering student benefits from WEEF somehow. You may not even realize it, but WEEF give half of its donations to department needs every term. The stapler chained to your assignment drop-off box is likely a WEEF-funded piece, and you must be blatantly oblivious to not know how the WEEF lab came about. In Winter 2008, WEEF allocated \$3000 for the E&CE undergraduate labs to replace their 20-year-old multimeters, it also underwrote half the expense needed to buy a RF Vector Signal Generator. Every department gets something from WEEF: check out what your department got by visiting http://www.weef.uwaterloo.ca/past_purchases.html. If your department looks under-funded, you should probably take the initiative to talk to your professors, lab instructors, and classmates to see what you would like to buy and submit a WEEF proposal. You might just get partial funding for a particle accelerator if the WEEF funding council really adored your presentation!

If you are on a student team or participate in any Engineering-related student clubs (Formula SAE, Midnight Sun, Concrete Toboggan, Robotics Team, WARG, UWAF, etc.), chances are you are reaping the benefits of WEEF. These teams and clubs do not get money from the faculty, and the amount of money that EngSoc can give each term is limited. Large expendi-

tures such as equipment purchasing simply do not happen without WEEF funding. WEEF enhances your extra-curricular experiences by giving generously to these student-run organizations. Thanks to this money, your time spent at the Robotics team meetings is being used to talk about Asimo and upcoming competitions, not how to fundraise with barbecues and Valentine's Day candygrams (who buys those anyways?).

One cannot discredit WEEF based on its method of donation and returns. Paying the \$75 at the beginning of the term along with your tuition is governed by UW Finance's policies. It has nothing to do with WEEF. The same goes for every other optional fee on your Quest account summary: EngSoc fee, Student Health Insurance, etc. Other UW faculties' student foundations use the same practice, check out Math Endowment Fund or Arts Endowment Fund's websites. The links to these can be found on <http://www.weef.uwaterloo.ca/links.html>.

When nobody is looking, I sometimes find myself gently gliding my fingers across the brilliant yellow sticker on the IW dual-screen's base, while daydreaming about the moment that I get my hands on a WEEF-funded digital SLR. If you didn't get your returns this term, hats off to you, because you did the staff and readers (and yes, that includes you) of the IW a huge favour.

On the other hand, for those who usually get returns, please reconsider next year: quickly search through your brain for a list of student-run services you have used last year. If you have picked up a copy of The Iron Warrior, used one of the Engineering undergraduate labs, or participated in a student team, chances are that WEEF has benefited you. This money didn't just drop out of the sky: generations of students before us have generously donated to WEEF, and the enormous amount of interest that this fund has generated thus far is what gets you lab equipment upgrades and entry fees to engineering competitions. If you are grateful for not using multimeters manufactured in the 1980s, think twice before getting your WEEF returns! Past alumni donations have benefited your undergraduate experience, consider doing the same for the in-coming frosh and the generations to come after them.

Full Disclosure:

WEEF has provided funding for *The Iron Warrior* in the past on capital expenditures. These include two computers, a digital camera, a printer and newspaper racks.

Editor's Note:

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



THE IRON WARRIOR RECOMMENDS

Blog

Stuff White People Like
www.stuffwhitepeoplelike.com



SUNNY NG
4A COMPUTER

Stuff White People Like is a satirical blog that describes common things that generally appeal to the stereotypical liberal Caucasian yuppie. Written by an actual white person, this blog contains entries listing out stuff white people like, contests, and "White People in the News", a regular feature that highlights an article from a news publication, analyzing it to list out things on the list that were applicable in the article. Since I'm not actually white, I can't really comment on how valid the stereotype is, but based on the comments posted by visitors, it seems that they're mostly spot-on! Some of my personal favourite entries include #101 *Being Offended*, #99 *Grammar*, #82 *Hating Corporations*, #74 *Oscar Parties*, #71 *Being the Only White Person Around*, #64 *Recycling*, #20 *Being an expert on YOUR culture* and #11 *Asian Girls*.

CD/DVD
HAARP
Muse
Warner



SUNNY NG
4A COMPUTER

As said by the dude that was working at the cashier of HMV when I went to buy this, "I was never a big fan of Muse, but this DVD is awesome!" It really is! Recorded over the course of two concerts performed at Wembley Stadium in June 2007, this CD/DVD package shows what an amazing live band Muse is. The CD and DVD contain performances from different nights, as they showcased selected songs from their four studio albums. You can download video and audio clips in MPEG-4 (iPod/iPhone-ready, yay!) and MP3 formats for free from their website at <http://haarp.muse.mu>. After watching this, it made me regret picking the Killers and T.I. over them when they performed at Street Scene 2007 in San Diego last Fall. Gahh!

Food

C&D Quiche



BRYAN SACHDEVA
4A COMPUTER

Quiches are now available at the C&D for only \$2.75! Make yourself a regal lunch by selecting from either Quiche

Podcast

Vinyl Café Podcasts
www.cbc.com/download



ERICA WAUGH
4A CIVIL

If ever there were to be a sound track of my childhood, these stories would no doubt be included. Sunday afternoons spent driving back from Winnipeg when the only radio station is the CBC, these stories provided relaxing humour told by one of Canada's greatest story tellers. Stuart McLean tells stories of a fictional family and their everyday life. They are realistic and endearing while always comical. I listen to them in the morning on my way to school; it's a great way to zone out and makes the walk so much more enjoyable. Check it out and download one for your next walk!

Book

Lockpick Pornography
Joey Comeau
Loose Teeth



EVELYNE RUSSELL
3A ENVIRONMENTAL

Lockpick Pornography is the first novel from Joey Comeau, a Toronto-based author. It's filled with math jokes that rival xkcd in their nerd appeal, and all kinds of science trivia. Between the obscure references to Laplace transforms, there are plenty of normal-people jokes too. It's the sort of book that anyone can relate to. Between chuckles, you'll be reading the clever bits to your mom over the phone. Told as a first-person narrative, it's the story of a compassionate man who takes on a noble quest to change the world. It's a useful how-to guide for affecting change; it'll give you new ideas on how to behave in a leadership role. At \$10 and only a centimetre thick, it's definitely affordable and you'll actually be able to finish it in some reasonable amount of time. You can also read it online for free at <http://www.lockpickbook.net>.

Lorraine (Ham & Cheese) or Florentine (Spinach). Instructions: take the quiche off the tin plate and place it on a cookie bag and nuke it in the C&D microwave for about 4 minutes. Ask for a plate and place your quiche on it, then enjoy. Go all out by accompanying your quiche with a Davenport salad and having a lovely slice of cake for dessert! Don't worry about remembering all of this, just ask me when you see me at the C&D, and I'll give you a hand!

Website

RedFlagDeals.com
www.redflagdeals.com



MICHAEL SELISKE
1B COMPUTER

RedFlagDeals.com is a Canadian, community-run deals and bargain site where people find deals, loopholes, and great prices on anything and everything from sites that either ship pretty cheap to Canada, are Canadian or is an actual store. I have personally taken advantage of a few really, really great deals on electronics and gadgets and since it's community-driven you can find a lot of additional information in the comments and forum posts (*Editor's note: check the forums directly for the most up-to-date deals*). Check it out.

Blog

Jezebel
www.jezebel.com



SYLVIA WU
1B MECHATRONICS

Jezebel is a witty feminist blog about "celebrity, sex, fashion -- without airbrushing" (In the blog's own words). This site's contributors have been labelled "Lezebels" by the web communities of opposition, but the site by no means encourages men-hating, bra-burning, or reproducing via sperm bank purchases. It unveils the differential treatments that women across the world still receive today (yes, even in North America), pokes fun at the superficial world of fashion journalism and gossip culture, reviews interesting documentaries, and ends every week with the mugshot of a cute animal. Everyone who is proud to be a woman or likes women should definitely check it out.

Course

ECON 102
Larry Smith



DAWSON OVERTON
1B SYSTEMS

If you ever have an extra CSE (Complementary Studies Electives) during a Spring term and don't have a clue what to take, I strongly recommend you to take Macroeconomics with Larry. You will learn more about the world in those 11 3-hour sessions than an entire year of physics and calculus (in my humble opinion, of course). The 3-hour lectures may seem like too much to some, but by the end of them you will wish they would keep going.

Movie

WALL-E
Disney/Pixar



SUNNY NG
4A COMPUTER

Despite its G-rating, *WALL-E* is definitely not a children's movie. *WALL-E* is a futuristic love story involving two robots that has no actual dialogue for the first half of the movie. It is cute, charming and witty. It also has many nerdy references, so it's a definite must-watch for engineers! I would say it is better than most, if not all other Pixar movies, such as *The Incredibles* and the highly-over-rated *Finding Nemo*, and that is saying a lot because I love Pixar movies.

The Iron Chef Recipe

First Date Salad

ERICA WAUGH
4A CIVIL

I've made this salad for my family, for my friends, and even for a date. It's easy, it goes with everything and it is sure to impress whoever you are trying to schmooze!

Dressing

Makes enough for 2 salads, so make it in a container that you can put a lid on and put back in the fridge.

- ½ cup mayonnaise or Miracle Whip
- ¼ cup milk
- ¼ cup white sugar
- 2 tbsp white vinegar
- 1 tbsp poppy seeds (you can get these in the spice isle, very cheap)

Combine everything in a container and stir until smooth, refrigerate. Give it a good shake before you serve. Poppy seeds will have sunk to the bottom.

The rest of the salad:

- Several good handfuls of baby spinach
- 1.5 cups strawberries, washed and cut into chunks
- 1 cup pecans or walnuts, toasted, coarsely chopped*

*To toast nuts, preheat oven to 350°F. Place nuts on a baking sheet. Bake for 6-7 minutes or until fragrant. Stick your nose in, and if they smell tasty they are ready. Be careful though, they burn quickly. Note that this step may seem excessive but toasting the nuts makes a huge difference in the taste and you will not regret it.

When you are ready to serve, put the spinach and strawberries in a large bowl. Coarsely chop the nuts and sprinkle over the salad. Pour over your dressing. Serve immediately.

Concert Review

DJ Tiësto
Ricoch Coliseum
June 30, 2008



The weekend before last (at time of publishing), I went down to Toronto with some friends to Ricoch Coliseum to experience a live set of the trance music genre's patron saint, DJ Tiësto.

We arrived in Toronto at around 5:00pm, i.e. way too early for the 10:00 show, but managed to pass the time at a nearby restaurant. We got in line at about 8:30, and waited anxiously to be let into the Coliseum. I passed out some dollar-store glowsticks to my companions as we entered the building, and after a slightly awkward pat-down by the security staff we were finally let into the building at approximately 9:30.

The first person we met when we came into the building was a big, burly security guard. He said to us plainly, "You aren't allowed to have glowsticks in here," and promptly confiscated our harmless chemoluminescent rods. No glowsticks at a trance concert? C'mon now. Regardless, we filed onto the floor and got as close to the stage as possible in hopes of seeing Tiësto himself in about 30 minutes.

Oh how naive we were. When we got in, the opening act (two Toronto DJs calling themselves Doman and Pettigrew) was playing, and we expected them to finish at 10:00. In reality, their set continued until *past midnight*. Yes, they continued for almost 3 hours. Their music was admittedly catchy at first, but after the first hour it became the most annoying and repetitive (even by house music standards) set you have ever heard in your life. Listening to it for as long as we had to was by no means enjoyable, and I couldn't help but wonder if Tiësto was involved in a car accident coming to the venue and they were desperately trying to fill time.

Luckily, when Tiësto finally came out, the night was redeemed. He opened with the first two tracks from his new *In Search of Sunrise* album, and it was quite epic despite the less than ideal sound engineering at Ricoch. He continued playing until about 3:00am, and played a bunch of his more well known tracks such as "Lethal Industry" and his remix of "Back In Your Head" by Tegan and Sara. The thing about Tiësto is that he always seems to be having the time of his life when he plays his sets, and that enthusiasm is incredibly infectious. After 3 more hours of light shows, ridiculously (and probably dangerously) loud bass, and disgustingly sweaty dancing, the night was over and we piled, exhausted, into our two cars to head back home and discuss the night.

If I had to describe the concert quantitatively, I would probably give Tiësto himself a 9/10, but the overall concert a 6/10 at best. If you can ever get the chance to see Tiësto sometime when his performance is not prefaced by an opening act that takes up half the show, I strongly urge you to do so. That said, don't go to Ricoch Coliseum unless you want to be relieved of your glowsticks and bored to death by Doman and Pettigrew.

Didn't Pick Up Last Week? Probably Because You Looked Like a Slob!



So, you've showered, you smell good, you can make it to school looking decent, you got a job and even danced at semi-formal. What's next? Well gee, I could use a drink! Let's hit the bar! We at Faux Pas Police, 69th Squadron think it's only necessary that you know how to fit in no matter where you go. Below you will find helpful tips for dressing for pubs, clubs, patios, and everything in between. Enjoy and have a drink for us, we are after all working for free.

Helpful hints for girls:

It's summer, the weather has been gorgeous. What better way to spend the afternoon than sipping margaritas on a patio? When it comes to patios, a few things to remember are that they are not air conditioned, you may be in direct sun, and you will be there all afternoon. This means dressing lightly and comfortably. Loose skirts made of a lighter material are a great idea. They are cool and comfortable. Choose something in a neutral colour and keep it knee-length. This way it will match everything and you won't have to be tugging at it to make sure it's covering your tushy. As you will be in the sun and it will likely be hot, choose a tank top to match your skirt. Basic tanks are available everywhere. Try a bright colour! Throw on a long beaded necklace and you are set! Also, don't forget your sunscreen and your shades. Aviators for girls are very hot right now, but be careful of wonky tan lines under your eyes.

Next we move to the pub! Heading to the pub is usually a pretty casual affair and requires little effort. We discussed casual wear for school a few weeks ago. There is no reason that you can't take this look to the pub, other than bringing a light cardigan for the blasting AC and the cool summer nights, you are basically set!

Now we step up to the club scene. I realize there is not much of a club scene in Waterloo but maybe you feel like hitting up cheap Jager Bombs at the Vault next Friday. Maybe you feel like dancing the night away at Revolutions or Starlight. It's a bit of a joke to suggest heels for clubbing as you will most likely be dancing but they sure do make your butt look great! If you can find a pair that you are comfortable in, use this as an excuse to wear them. Otherwise, the previously discussed ballet flats are great too! If you are a jean lover, choosing a darker wash is most appropriate for night time. Choose something that is fitted and avoid rips. Some clubs will actually refuse you entry if you have ripped jeans. Boot cut jeans tend to make you look long and lean, however be careful as they can sometimes accent your bum too much. Also, when pairing jeans with heels, make sure your jeans are long enough. They

should almost touch the ground.

Moving up! When it comes to tops there are so many different options. Tank tops, blouses, tube tops, tunics, oh my! Any of these are appropriate if they match and they fit your body.

Bandeaus are very hot right now (like a small tube top.) It's a cute look if your top bears your sides. They are also an easy way to stay cool as they are not nearly as hot or as bulky as wearing a tank top underneath. Very cheap and available in many different colours! Tops are pretty simple to choose, the key will be in the accessories. Belts are a great way to glam it up. If you are wearing a longer tank top or a tunic, try putting a belt on around your hips. If your top and jeans are simple, choose a belt that stands out a bit. Bringing a purse to the bar is always a bummer. A cute alternative is a small clutch with a wrist strap. Find something small that fits your necessities (ID, WatCard, cash, keys, lipstick.) With one of these you can dance the night away without losing track of your ticket home!

Always think comfort with class, aim for good fit and try a new colour!

Tried, tested, and true tips for boys:

While you can get away with not worrying about what to wear at all of these lovely places when on PubCrawl, there's a good chance you'll look out-of-place if you continue to wear your PubCrawl outfit at most watering holes. I'll go over outdoor venues (i.e. patios and BBQ's), pubs, and clubs and a few in-betweens. The point is, it is important to carry your fashion over to party places because lots of people will be there.

It's the summer, what better way to party than outside on a deck or patio, maybe even the few square-feet offered by the Bomber. Depending on the weather, choose a light-wash jean (distressed or ripped if you really want) but not baggy, or choose between a stylish men's capri or your standard khaki shorts. Flip-flops and sandals are perfectly acceptable, but a casual canvas shoe looks great. If your physique supports it, show yourself off in a fitted tank-top or muscle-shirt. Alternatively, Old Navy has a really hip collection of argyle inspired T's for the usual Old Navy low price. Keep your accessories to a minimum for the outdoors, since the point of being outdoors is to be fresh and natural. You don't want to look too constructed or layered.

Lucky for you, the pub is about as casual as it gets. Feel free to carry your casual wardrobe over to the pub any day. But, remember that most pubs and bars don't get very much light and typically showcase a lot of wood and earthy tones. But what does that have to do with anything? It means you don't want to wear day-time or bright colors (don't mistake bright for colourful). Reds and blues are still fine, but avoid yellows, pinks, or pastels. A standard-fit medium-wash jean will do just fine with a fitted T. If your pub is actually a restaurant turn pub at night) try wear-

ing a vertically striped, collared, button-down shirt with the sleeves rolled up just passed your elbow. Accessories really depend on the pub you're going to, but generally should be kept to a minimum to reinforce the casual atmosphere.

Bars are somewhere between pubs and clubs on the trendy scale. What's worse is that there are so many different kinds of bars, each with different requirements. The best way to figure out how fashion-oriented a bar is based on the music they play, the drinks that they offer, and the features they have. A bar that has many TV's, typically plays pop or alternative (if any music), has tables, and serves food is usually a sports bar. Just continue your pub-wearing style here. If your bar is known for drinks, cocktails, and generally doesn't have TV's or much food, then you're looking at a *cinquá-sept* or an everyday bar. Collared shirts are a must here, though they need not be button-down. Belts, and watches make for excellent accessories. Then there are those bars that really should be called clubs, but since their main focus is the bar area and not the four-foot dance floor, we still call them bars. Just wear what you would normally wear to a club here.

So someone has convinced you to go clubbing, and now you have to go. Or, you're a really cool guy that will be getting very popular because you actually enjoy dancing. Either way, you're going to the club and unlike Usher, you won't be making love. Instead, there will be lots of people noticing you and what you wear. I've already given you a few tips last week, but to re-iterate: men's vests and sport blazers (not together though) are fantastic! You can get them at Le Château or H&M for not too much. They go great with a dark wash jean. Complete the look with a pinstripe button-down and you'll be on fire. Clubs are all about the drama and flair of accessories. Necklaces, bracelets, earrings, pocket squares, you name it. And yes, those are all things that guys can wear!

While the tips presented here won't guarantee you the number from that guy or girl that you've been eyeing, they will help you to get noticed. That's the point; we want you to look your best so that you can attract positive attention. Who doesn't want the feeling of looking like a star and having people notice you when you step into a club, bar, pub or patio.

But before we end this week's edition of fashion faux-pas prevention, we'd like to take a minute to thank everyone for their continued support. The fashion articles are getting quite a bit of attention, and we're glad that everyone has found a way to incorporate what we're saying. Feel free, as some of you have, to stop us in the hall and ask us for a quick-pointer or for tips. Or, if you've got some cool ideas, let us know!

Love you bitches,
Bryan & Erica



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

Submit your caption to iwarrior@gmail.com or uwaterloo.ca

Be sure to put "Photo Caption Contest" as the subject, and include your name, program and term.



Michael Seliske

Winning entry from last issue's contest:

"It's time for another midterm..." - Justine D'Souza, 4A Computer
Runner-ups:
 "Symptoms of PDEng include..." - Yousef Al-Khder, 1T Management
 "Waterloo students, bending over and taking it since 1957" - Eric Nyland, 1B Mechatronics

Stuff Engineers Like

This article is devoted to stuff that engineers like



DAWSON OVERTON
1B SYSTEMS

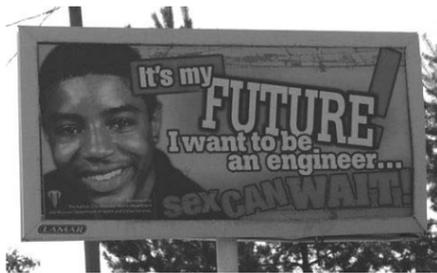


#1 The Discovery Channel – It is very important for engineers to distinguish themselves from the other “technical” majors of math and science. After all, they are “applied” science majors, and despite most of their theoretical courses being almost identical to the courses taken by their less practical counterparts, they will never miss a chance to explain to lesser students how we would still be in the stone age if it weren’t for technology (and clearly, by association, engineering). It is therefore natural that engineers love television’s greatest celebration of applied science in history, the Discovery Channel! If invited to an engineer’s house, there is an 80% chance that they will be watching Discovery Channel. This can be a prime opportunity to raise your engineering status by saying “Oh, this episode of Mythbusters is pretty interesting, but after watching it four times I can’t help but argue with the grade of neodymium magnets they use for their wall climbers”.

#2 Thinkpads – Engineers are all about practicality, and there is no laptop that is more closely associated with this word than the Lenovo Thinkpad. A helpful tip for find-



ing out the locations of engineering lecture halls is to observe the number of Thinkpads in the room; if there isn’t at least one Thinkpad present, you aren’t in an Engineering class. Engineers are crazy about Thinkpads, and this is not surprising given their unique ability to appreciate their business-class reliability and black, minimalist design. When discussing laptops with an engineer, do not mention that Thinkpads cost almost twice what a more consumer-oriented laptop with similar hardware would, or that they have terrible proprietary software – they are very likely to become hostile and launch a long-winded rant concerning the inconsequentiality of these claims and the indisputable superiority of their laptop choice. Useful guideline: insulting an engineer’s Thinkpad is roughly equivalent to insulting his or her mother.



#3 Not getting laid – Being an engineer is hard work, and engineers have to be very

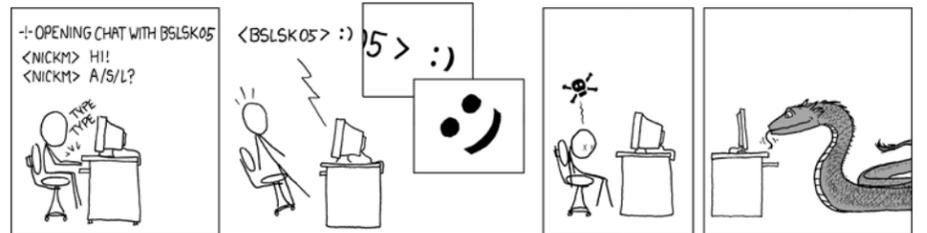
selective with what they do with their free time. Between labs, class, assignments, the Discovery Channel, and recreational vector calculus, it is an extreme challenge to fit in other less important activities. Among these activities: eating, sleeping, and sex, and for most it is an easy decision as to which one gets compromised. In order to understand engineers, it is important to be aware of their tight schedule and respect that many engineers make the noble choice of not wasting their time with petty things like having sex. Important tip: Do not mention that this is likely not by choice; the engineer will almost assuredly become upset and may attempt to attack you IRL.



#4 Wearing t-shirts with tech company logos – When observing engineers, pay close attention to the t-shirt they are wearing. If you are, in fact, in an engineering building, you will not be hard pressed to find t-shirts adorned with things like “Google”, and “Amazon.com”. To others, wearing these shirts casually may look like a desperate bid to show their allegiance to said company and get hired by the secret company scouts

patrolling campus. Engineers, however, are above such petty uses of the tech company t-shirt. Its actual role is as an important status symbol in engineer-engineer interaction, and engineers wearing the rarest shirts from the most respected companies are automatically cooler than those who get their shirts from more common places such as on-campus events. Note: Engineers wearing non-tech company t-shirts aren’t even counted in the social standing.

#5 xkcd – With a tagline like “A webcomic of romance, sarcasm, math, and language,” there is no mystery why engineers go nuts for xkcd. They can’t get enough of it! After all, engineers love the idea of being romantic, and perhaps reading a webcomic about romance will increase their romantic abilities in real life. Language is equally intriguing to them since it means broadening their horizons, and being better able to relate to students of other faculties. If attempting to befriend an engineer, a good tip to keep in mind is the “xkcd quote”. Simply quoting xkcd will increase respect that engineers hold for you substantially and without fail. Try it! The next time you are in an engineering building, make sure to say “I’m not slacking off, my code’s compiling!”, and you are *guaranteed* to get at least 3 high-fives. Trivia: If there is an engineering wardrobe staple that approaches the popularity of the tech company t-shirt, it is t-shirts purchased at the xkcd store.



Better Know A Beer: West Coast Wheat



RORY ARNOLD
3T MECHANICAL

On the holiday weekend I was able to visit Vancouver Island for the first time. And although I wasn’t able to make it to Victoria, I did pick up a six pack of West Coast Wheat from the Vancouver Island Brewery. So technically, I did visit it in beer spirit.

Vancouver Island Brewery opened in 1984, and brews in accordance to the Bavarian Purity Law of 1516. They pride themselves on their careful selection of ingredients including choosing only Canadian grown barley. The brewery employs 38 people including 4 brewers and their master brewer, Ralf Pittroff, who was trained at Hans-Wilsdorf Vocational School in Germany.

West Coast Wheat is a Hefeweizen (heh-feh-vite-zen), which comes from the German “Hefe” meaning yeast, and “weizen” means wheat. If you have difficulty pronouncing the name you need to say it like a German, and by that I

mean angrily. The Hefeweizen is a traditional German style which uses a combination of wheat and barley malt as opposed to just barley malt. It has been debated whether the purity law includes wheat beers, but most modern interpretations say they do. Also, this is one of the few beer styles where it is acceptable to place a lemon wedge on your glass. This compliments the citrus taste of the beer.

Unlike other wheat beers you may know such as Rickard’s White which is a Belgium style Witbier, and Big Rock Grasshopper which is a Kristallweizen, a Hefeweizen is much cloudier and darker. This is because it is unfiltered. In fact, a Kristallweizen is just a filtered Hefeweizen. The Witbier is also unfiltered but has a much lighter-coloured body. The yeast adds a little extra flavour and helps keep the beer fresh. However, most people will not pour the last little bit in the glass leaving the yeast particles in the bottle. On the other hand, many other people will swirl the bottle to mix up the yeast before pouring. West Coast Wheat uses a yeast strain from Munich, Germany.

Vancouver Island Brewery also brews Victoria Pilsner, Piper’s Pale Ale, Hermann’s Dark Lager, Islander Lager, and their seasonal Hermannator Ice Bock.

When you pour a West Coast Wheat into a proper Hefeweizen glass it will pour a cloudy brown which is not the most appealing colour. However, it tastes much better than it looks. It’s not as spicy as many other Hefeweizen’s I’ve tried for a smoother light tasting beer. It has an aroma of wheat and citrus which is also very pleasing to the senses. It makes a great beer for an afternoon barbeque or after working on a hot summer day, as it is very refreshing while still offering some flavour.

I gave the beer a score of 80/100, not a bad score but nothing to get excited about. You should definitely try this beer if given the chance, but don’t fly across the country just for that reason. And as gas prices keep going up and Gordon Campbell keeps slapping on useless taxes that aren’t doing any good, I really need a good beer to help me relax at the end of the day. Thank God, BC has some great beers as well.



Dangling *Pointers;

Stocking up on blueberries at the SLC Farmer’s Market eh? If you just happen to like blueberries, then never mind. However, by intuition I can tell that we have a lot in common – you must be on the blueberry diet too! Ok, so it’s not as much intuition as observation... your sexy protruding elbows and collar bones told the whole story. Wanna meet up and NOT eat together sometimes? See ya at the next farmer’s market – you should look for the boy with a crate of blueberries and the sexiest bony ass for a good time.

– Proud to be Manorexic

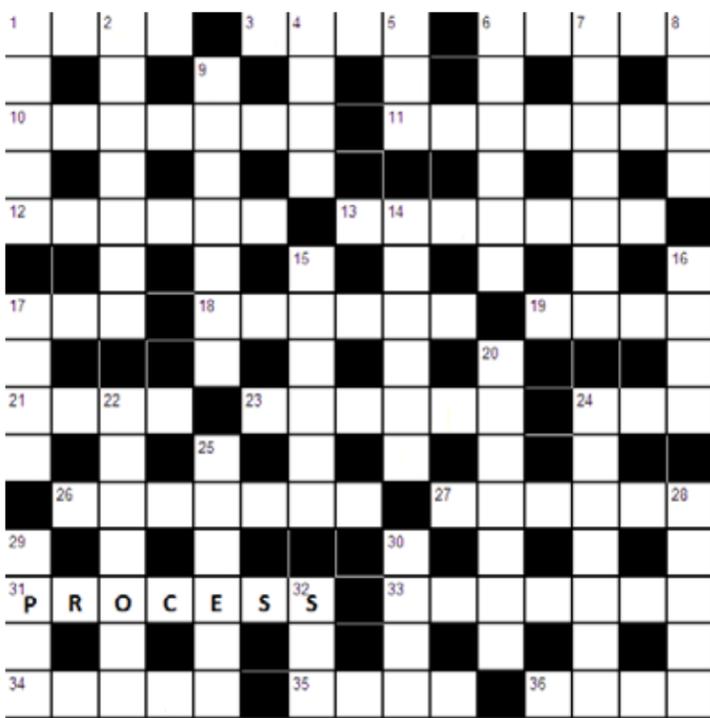
Props to you if you groomed that exquisite treasure trail yourself! –It’s definitely the best damn looking thing I’ve seen at the PAC pool. You must know a lot about advertising and directing one’s line of vision, because your trail led my eyes to your low rise white speedos, and subsequently your goody package... Some may spurn your exhibitionism, but I say if you’ve got it, flaunt it! Don’t just be a tease though, let’s go for a steamy sauna and trade tips on hairstyling at the next open pool session?

– Freestyle Cannonballer

The Iron Cryptic Crossword

Crossword Clues

ROB GRAHAM
4A COMPUTER



Across

1. Bait discharging Street Fighter from workmen (4)
3. Recognize returned tops (4)
6. Small play shirt with no ending instead of me (5)
10. Suspicion lacking in creating term payment (7)
11. Soldier from battle contains registered trademark and former capital (7)
12. Spiritual leader makes animal when adding testy starting (6)
13. Summer athlete when Leno affixed his cheese (7)
17. Blade witnessed (3)
18. Sounded like inheritor, reversing chatter forming protection (6)
19. Festive makes a number without a French direction (4)
21. Distribute apotheosis without me (4)
23. Picture producer when I don't exist in a confused America (6)
24. How come washy lacks to the same degree (3)
26. Idealist botched remainder when not in (7)
27. Measure us after I spoke (6)
31. Procedure when sorting corpses (7)
33. Neutral crossword writer and a constant tendency (7)
34. Subsequently muddle alert (5)
35. Seaweed lacking wonder plant beginning (4)
36. House jumping intensity (4)

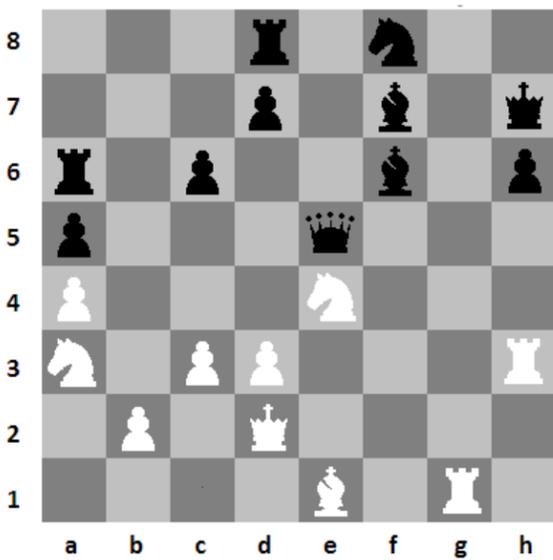
Down

1. Fluid attendant not including myself (5)
2. Coloured light sounds of sovereign power and ship leading (7)
4. Without an altering linen sheet makes red tinge (4)
5. Haul intermediate stows (3)
6. Change tester giving rise to avenue (6)
7. Shaped paper mixes me, Toronto museum, and Waterloo company up (7)
8. Odd theorems make a definition (4)
9. Numerical representation when blending movement and top (7)
14. Ruler varying dealer (6)
15. Game centre removing bone from barricade (6)
16. No seating in density to refuse (4)
17. Face jumping swindles (4)
20. Candy camel ingested inert gas (7)
22. Terminal ship side and gases (7)
24. Messing up the starved wealthiest signal (7)
25. Vocation vehicle at all times (6)
28. Intelligent returning trams (5)
29. Optimal removal of Mr. Horton gem (4)
30. I hear tearful pleas making beverage (4)
32. Informal sibling alternately skips (3)

Chess

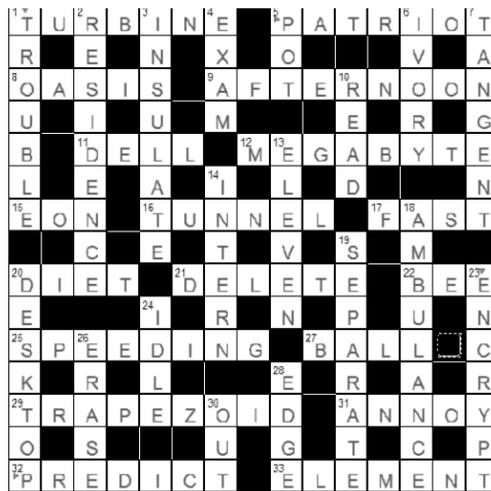
Be the first to complete the Cryptic Crossword or the Chess Puzzle and win 50 P**5 points for your class! Submit completed puzzles to the P**5 box located inside the Orifice after being time-stamped by Betty.

ROB GRAHAM
4A COMPUTER



White wins material.

Last Issue's Solutions



Text Answer

Bxe6+ Rxe6
Rc8+ Kg7
Bf8+ Kg8 or Kh8
Bxh6++

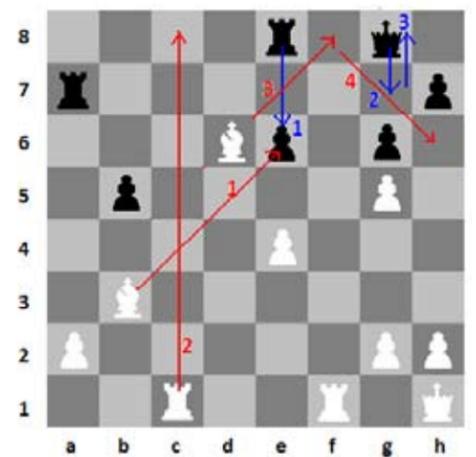
Alternate:

Bxe6+ Kh8
Re5+ Rg7
Rc7 fxe6
Rc8+ Re8
Rxe8++

Alternate 2:

Bxe6+ Kh8
Be5+ Rg7
Rc7 Rg8
Bxg8 Kxg8
Rc8++

ANSWER BOARD



Congratulations to 3A Systems for completing the chess first and to 4A Computer (8-stream) for completing the cryptic crossword first!

THE IRON INQUISITION

What is your favourite part about living in Canada?

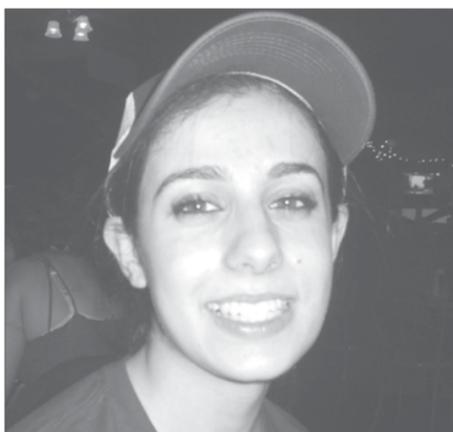
Michael Seliske, 1B Computer



Emily Ecker
4A Civil
"The road trips, Canada is freakin' huge!"



Dan Taylor
3A Computer
"Good cheap pot."



Anna Lafoyiannis
3A Environmental
"Getting to ride a dogsled to class all year round"



Nick Lordello
1B Computer
"Peameal bacon."



Sean O'Neil
2B Nanotechnology
"Frigidity.. The temperature one."