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# the IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

VOLUME 27 ISSUE 9 | WEDNESDAY, JULY 5, 2006



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## UW Mechs Take Home National Auto Research Prize

DAVE MIKA  
3A MECHATRONICS

Mechanical Engineers from UW, led by grad student Steve Samborsky recently secured top prize at the Honda Canada Highly Qualified People (HQP) Poster Competition held in Vancouver at the AUTO21 Network of Centres of Excellence Scientific Conference.

At an earlier HQP conference held during May of this year in Barrie, Ontario the Waterloo team, as well as a team from Windsor and a pair of teams from Queen's were selected as finalists for the B.C. portion of the competition. In total, the competition saw 76 teams from 30 universities displaying their innovative research in auto-related fields including control and inspection systems, metallurgical sciences and hybrid technologies.

"These students are the future of Canada's automotive industry," said Dr. Peter Frise, AUTO21 Scientific Director and CEO. "Each one is a key contributor to one of AUTO21's research projects, gaining technical experience and an opportunity to work with some of the leading industry representatives in Canada. The high quality of the research on display made the judges' job very difficult."

In total, over \$20,000 dollars were handed out during the course of the competition with \$10,000 split amongst the four finalists alone. Competition was stiff from the two Queen's teams, whose projects centered on fuel cell and neuro-fuzzy inspection systems. Although both the Windsor and UW teams presented work on regenerative braking systems, the UW team managed to earn

the top prize of \$4,500 dollars as well as widespread recognition from industry representatives. Dr. Frise commented that "The University of Waterloo team impressed the international judging panel

with their dedication to innovation and a passion for exploring ways to improve existing technologies."

A second UW team was also recognized as semi-finalists during the com-

petition in Barrie with their work in automotive seat design, further exemplifying the high level of quality, creativity and dedication that is continuing to be the calling card of UW engineers.

## Harper Apologizes for Historic Head Tax



"On behalf of the people and government of Canada, we offer a full apology to Chinese-Canadians for the head tax and express our deepest sorrow for the subsequent exclusion of Chinese immigrants." More on Page 7

## UWaterloo in Collaboration with UAlbany NanoCollege

MEDIA RELATIONS  
UNIVERSITY OF WATERLOO

Aiming to advance nanotechnology research across the borders, UW has reached a collaborative agreement with the College of Nanoscale Science and Engineering (CNSE) of the University at Albany-State University of New York.

Anthony Vannelli, associate dean of research and external partnerships in UW's faculty of engineering, and James Castracane, CNSE's associate vice-president for science and technology, recently signed the memorandum of agreement on nanotechnology.

The agreement will allow for an exchange of information in nanotechnology, including technical, economic, education and business. As well, it will identify and enable the development of international collaboration and partnerships.

"We look forward to the educational opportunities," Vannelli said. "This col-

laboration will be highly beneficial to Waterloo because the College of Nanoscale Science and Engineering is the first college in the world devoted exclusively to the development and deployment of innovative nanoscience concepts and its facilities are unparalleled in the academic world."

"We are pleased to engage in this new partnership with the University of Waterloo, which is recognized internationally as a leader in the emerging science of nanotechnology. Our collaborative work will foster new research that will be invaluable to each institution," said Castracane. "At the same time, it will provide yet another global alliance that will be beneficial to the students, faculty and industrial partners

at the College of Nanoscale Science and Engineering."

The two institutions are planning to strengthen educational ties with undergraduate students in nanotechnology programs at UW and CNSE, along with graduate students having access to top-level facilities at both campuses.

Alain Francq, business development officer for UW's nanotechnology program, said that UW and Canada's Technology Triangle are fostering and seeking relationships and collaborations in nanotechnology in the local area, as well as across Canada and around the world.

The next generation of electronic devices may contain smaller and faster circuits

built from single stands of carbon nanotubes, or powerful drugs may be delivered precisely to targeted areas in the body by means of customized carrier molecules. The next generation of consumer products, from fridges to sports equipment, will be made stronger, lighter and cheaper by incorporating nano-engineered materials.

UW offers the only stand-alone undergraduate program in nanotechnology engineering in Canada. The multi-disciplinary program provides learning through 48 specially designed science and engineering courses for nanotechnology students, 29 comprehensive laboratories and 24 months of co-operative work experience.

UW is building the \$70-million Quantum-Nano Centre to house the more than 500 nanotechnology undergraduate students anticipated by 2010, an expected enrolment of 125 nanotechnology graduate

Continued on page 2, see UW

# From the Desk of Your Iron Editor



GABRIEL CHAN  
EDITOR-IN-CHIEF

If you missed the quarter-finals between Argentina and Germany, you missed an extremely exciting match, regardless of which side you are cheering for. And you missed the hosts fighting their way to the top—literally. A debate may be raised to allow hooligan culture to flourish among fans or not, but hooliganism among participants are not to be tolerated. If the fans are able to restrain their emotions (and their fists), the players ought to do the same. Being a sore loser makes you a bigger loser in the end.

In other exciting sports news, there will be lots of sporting fun hosted by EngSoc this weekend (Saturday, July 8th): the Off-Road Classic bike race and the golf tournament; read more about it in the EngNews section. And the Waterloo regional dragonboat races are happening again this year: the date and location of the festival is next weekend (Saturday, July 15th) at the Laurel Creek Conservation Area north of our campus. If you don't know what dragonboat is, think 500-metre mad dash on water with 20 paddlers in a longboat. It's actually quite exciting to watch. Dragonboat is a part of a Chinese festival called Duan Wu (fifth day of the fifth month on the Lunar Calendar), which commemorates the death of a poet who drowned himself in protest to the corrupt imperial government.

Nobody died during the Sponsorship Scandal (if you don't count the Liberal



government); the same could be said for the Toronto Pride Parade a few weeks ago. As always, dealing with LGBT issues are very controversial in our time and it is good to see the discussions about GLOW, pride, and other related stuff. I've heard lots of different standpoints and they are all quite interesting, especially this one: "Quite frankly, the only major problem with being not heterosexual (or the other way around, depending on your datum) occurs in the bedroom. Typically, sexual orientation should be irrelevant informa-

tion in platonic friendships or professional relationships. Therefore, the issue with the LGBT community is a non-issue itself."

Anyway, remember that letters to the editor (or to the author) are always welcome, further suggestions for your newspaper are definitely welcome, constructive criticism is also welcome, and any contributions to the Iron Warrior are even more welcome. Be the change you want to see in the world.

## UW Signs Nanotech Agreement with New York College

*Continued from page 1*

students and the growing number of faculty members expert in nanotechnology.

The 225,000-square-foot advanced centre, which will accommodate the nanotechnology program and Waterloo's Institute for Quantum Computing, will feature a tri-cluster laboratory focusing on nanofabrication, nanometrology and nanobiosystems.

UW and CNSE signed the collaborative agreement at a roundtable event

organized by the Consulate General of Canada in New York, involving more than 40 experts in nanotechnology from Ontario, Quebec, Alberta, New York, New Jersey and Connecticut.

At the event, Vannelli and Castracane spoke on behalf of their organizations and expressed their mutual commitment to bringing about real collaboration between the two institutions. The experts also gathered to learn about developments in nanotechnology research, as well as fostering discussion and facilitating cross-border collaboration in nanotechnology.

The Consulate-led event attracted a

significant group of senior researchers from various universities, institutes, private companies and funding organizations. It focused on three key areas of nanotechnology: life sciences, advanced materials/energy and photonics/electronics.

Besides learning more about research activities at more than 34 institutions, participants discussed the different funding sources, both public and private. They looked at the availability of funding for cross-border collaboration, including joint research activities, sub-contracting research and commercialization assistance for joint projects.

## IRON WARRIOR

The Official Newspaper of the  
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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.

Mail should be addressed to The Iron Warrior, Engineering Society, CPH 1327, University of Waterloo, Waterloo, Ontario, N2L 3G1. Our phone number is (519) 888-4567 x2693. Our fax number is (519) 725-4872. E-mail can be sent to [iwarrior@engmail.uwaterloo.ca](mailto:iwarrior@engmail.uwaterloo.ca)

# EDITORIALS AND OPINIONS

## Misconceptions and more to the story

**KURT KRALER**  
1B SYSTEMS DESIGN

Re: PCP: Toronto Pride Parade

Dear Mr. Olaveson,

I feel compelled to write you a letter regarding your point made in the June 21, 2006 edition of the Iron Warrior regarding whether or not UW should march in the Toronto Gay Pride Parade because your points were pathetic and very weak to say the least. If you had researched your points before writing the article, you could have made a compelling argument worthy of being printed but instead you wrote a piece that was filled with misconceptions and mistruths.

First of all, you state that "some participants do not conceal their genitalia". This statement has very little substance in the way of an argument and is purely intended to shock and appall the reader into agreeing with your counterpoint. I'm appalled by the fact that you would even include this in your argument against GLOW participating in the Pride Parade. This only represents a VERY small population and does not represent the gay community as a whole. I think you had too weak of an argument to begin with and had to resort to such a pathetic excuse for a point.

Secondly, you argue that "in a time when the school's administration is attempting to boost Waterloo's national and international reputation, we don't need to be known for our willingness to expose ourselves in public". Who said anything about GLOW exposing themselves at the Toronto Gay Pride Parade? It is only the nudist population that expose themselves and what does this have to do with our academic reputation? The Toronto Gay Pride Parade is a very national and international event and by having GLOW represent the gay community of UW along their allies at the Parade shows the school's diversity to an international community.

Thirdly, if you had researched your article in advance to writing it, like any good writer would do, you would have known that there was a gay pride event in the KW area on June 4, 2006 and GLOW was represented there. The organizer of the event is one of the co-ordinators of GLOW. To me this represents the gay community at UW fairly and boosts the reputation of the school.

Finally, the reason GLOW will be marching in the Toronto Gay Pride Parade is to celebrate the 35th anniversary of the organization as well as being one of the longest running gay and lesbian university organizations in Canada. GLOW's reputation earned itself a bursary from Pride Toronto to fund the group's march in the parade. On a national level at least, UW's reputation is represented in a very positive light as well as its diverse and accepting community.

So now, which points of your argument are

still valid and factual? It seems to me that your inherent homophobia got the best of your writing and you resorted to writing a poorly structured and researched article. This was the perfect opportunity to raise awareness about gay and lesbian issues and about myths that surround the community. After all, that is the sole purpose of gay pride events - to raise awareness, not controversy and prejudices. Next time, do your research before you write an article.

Sincerely,  
Kurt Kraler

## Proud of UW's Glowing Pride

**JEFF AHO**  
DIRECTOR OF DIVERSITY

Re: PCP: Toronto Pride Parade

Dear Editor,

I am very pleased that the IW took on the debate of the recent Pride Toronto event. I would like to take the opportunity to address some of the comments made in the last issue.

What the debate against came to was that some of the people at the parade are a little too exhibitionist. I would contend that the majority of the paraders are actually quite appropriately clothed (as can be seen with the UW crowd - well... there is that one vagina costume). The media tends to focus on the more "in your face" paraders but really the majority are just like everyone else. There is a wide range of people who represent countless backgrounds, and each expresses their individuality in a different way.

In response to UW focusing on the KW pride, in fact, GLOW did participate in Tri-Pride ([www.tri-pride.ca](http://www.tri-pride.ca)) last month and GLOW has had a long history with the local community. This year is GLOW's 35th anniversary and was the first such campus group in the country. All events that are run by GLOW are open to the KW community and they play a leadership role, working with other organizations like WLU's queer issues group.

The LGBTQ community has a long way to go to work towards equality. It is unfortunate that homophobia, heterosexism and general discrimination still takes place. EngSoc's participation is a landmark in acceptance at UW and its support is greatly appreciated. UW Engineering is a leader in the academic community, but it can be a social leader as well.

Jeff Aho  
Director of Diversity



## Sensationalist journalism not for IW

**ANONYMOUS**  
UNKNOWN

Re: Terrorists caught attempting to bomb Parliament Hill

Dear Editor,

I was very offended by the sensationalist and inaccurate headline "Terrorists caught attempting to bomb Parliament Hill" that appeared on the front page of the last Iron Warrior. The headline as written implies that terrorists were actually caught in the act of trying to bomb Parliament Hill. More accurately, they were caught plotting an attack against a number of potential targets. The article correctly captures this, but the headline is highly exaggerated.

The Iron Warrior should focus on its mandate of being an engineering student newspaper. By this, its main goal should be covering local news relevant to the student population or to the engineering profession, and providing unique student insight and commentary on issues that might be of a broader interest. The story about the terrorism arrests serves neither of these purposes, and is nothing more than a rehash of weeks-old information that is readily available in the main-stream media. If I wanted to read about this, I would turn to the Globe and Mail.

Please, Iron Warrior, don't try and compete against the big newspapers, and don't stick a story like this as your lead on page one. Give me some interesting engineering-oriented news that I can't find elsewhere, and I'll read your paper. Otherwise, I'll skip to the prof quotes and toss the rest in the recycling bin.

## Ol' Blue is not a rice rocket

**DAN ARNOTT**  
3A ENVIRONMENTAL

Re: Automotive Review

Dear Editor,

I am writing in response to my 'Automotive Review' in the last issue of the Iron Warrior. I unfortunately could not attach a picture of Ol' Blue at the time, but I have included one now. As can be seen in this photo, Ol' Blue does not have, has never had, and never will have a spoiler. Thank you.

Regards,  
Dan Arnett



## FEDS Commentary: Service Review



**JEFF AHO**  
FEDS ENG COUNCILLOR

One Sunday afternoon on June 25, when Frosh were enjoying the sun and 4th years were weeping over their upcoming 4th year projects, 4 engineering councillors were locked in the SLC MPR for 6 1/2 hours for the student's council meeting. When dealing with artsies and mathies it can be expected to take a while to get our point across, but this meeting was especially heated. The topic: The Service Review.

For those unfamiliar, earlier this year the Internal Administration Committee (IAC) put out a report with a few dozen recommendations about how to improve the services that Feds offers. These ranged from the Food Bank, to the Legal Resource Office, to the more contentious ones with GLOW and the Womyn's Centre. 5 hours into the Service recommendations debate we finally concluded. Here are some highlights:

- \*We now have a definition of a Service (Yeah...we never had one before)
- \*We no longer have a Wellness Centre or Legal Resource Office
- \*GLOW is now mandated to run at least one event per term which is geared toward reaching out to all students
- \*GLOW was NOT mandated to take on the task of engaging in dialogue with students who hold diverse views on pertinent contentious issues
- \*The Womyn's Centre will work to be more open and welcoming and have more professional advertising and office environment
- \*The Womyn's Centre's name will be changed to Women's Centre
- \*No one will be watching you like a hawk when you try to get food at the Food Bank and say "Drop that spaghetti" if you take one too many

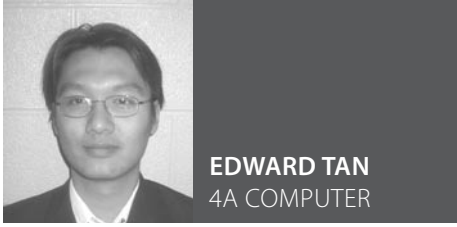
It is worth noting that many of these will not go into effect until a Feds General Meeting in the Fall. I invite anyone with questions about the Service Review and what it means to email me ([jeff.aho@gmail.com](mailto:jeff.aho@gmail.com)) or any other of the engineering councillors. A special thanks to all those who gave us input before hand. It helped us to make the decisions that will ultimately change the services that Feds provides to all students.

How to Submit a Letter to the Editor of **the IRON WARRIOR**

The Letter to the Editor section will feature short blurbs on issues that the reader cares about. Letters are significantly shorter than articles (100-200 words). Submit letters to [iwarrior@engmail](mailto:iwarrior@engmail) with subject line "Dear IW".

## STUFF YOU SAY

## Harper Apologizes for Historic Head Tax

EDWARD TAN  
4A COMPUTER

Recently the Canadian government officially apologized to thousands of Chinese immigrants who had to pay a head tax during the early 20th century. Many people who were born here may take their citizenship for granted and may not even know what the head tax was. The head tax was a fee that Chinese immigrants had to pay to be a citizen from 1885 to 1923. Some people may argue that a head tax still exists today because immigrants still

need to pay a fee to apply to be a Canadian citizen. In a way this is true, but the difference is that today everyone has to pay the fee regardless of race, where as back then only people of Chinese origin had to pay the tax.

For the last 20 years the Chinese community has been seeking an apology from the government. The head tax itself isn't just a monetary issue, but had many other implications that the Chinese community felt were humiliating and even insulting. From 1881 to 1885 thousands of Chinese came to Canada to work on the railway. When the railway was completed, those who wanted to stay then had to pay the head tax, which was equivalent to two years salary at the time.

Along with the head tax, there was

also the Exclusion Act. This act prevented Chinese workers from bringing their families to Canada. Then there was the outright ban of Chinese immigrants from 1923 to 1947. This resulted in the separation of many families for most of their lives. This is also why the Chinese community still exhibits many first generation-immigrant characteristics despite having almost 150 years of history in this country.

So that was a brief summary of the history. This is also why there is much more of an emphasis on an official apology rather than just a monetary compensation. In fact the Liberal government had previously offered a monetary compensation with no apology, but that was rejected. The official apology has been viewed as a good start in the right direction. I myself question

Head Tax Paper: \$500  
Apology from Ottawa: priceless

the sincerity of an apology that was made as part of an election campaign promise, but I also agree, it's a good start.

## POINT VS. COUNTERPOINT

## Should Germany Crack Down on World Cup Hooliganism?

JOHN OLAVESON  
4A CIVIL

JA!

Hooligans have been placed in a bad light lately, and so they should! The hooligan problem won't just go away if we all ignore it. Action is needed to keep the hooligans in check and keep our society safe.

Its FIFA World Cup time. Germany has played host to this great event and has taken a small step towards stopping hooliganism. A \$4.6 million jail was built specifically to hold hooligans. But

will this jail be large enough to house all of the rioters and looters and vandals that will emerge from the crowds of adoring fans?

At the 1998 World Cup in France, a policeman was beaten to death by hooligans. The Germans need to be ready to protect their crime fighters and all of the citizens attending the football festivities. One death, nay one beating, is unacceptable. The "soccer hooligans" need to be taught that their actions are unforgivable. The World Cup is a time of unity between nations and hooliganism merely serves to break down the bonds of peace in hatred and blood.

Every person in Germany has the right to be safe. As soon as one hooligan acts out, whatever the motive may be, that right is violated. Citizens will begin to fear what might happen to them if their opponents win the next time. As Yoda once said, "Fear is the path to the dark side. Fear leads to anger, anger leads to hate, hate leads to suffering." The cataclysm can be set off by a single spark. Hooliganism can escalate from an individual to a group to a nation.

The only way to diffuse the situation is to crack down on hooliganism, no matter how innocent or serious it may seem at the time. The hooligan jail is a good place to start; it will get the offenders off the street and segregated from the innocent fans as efficiently as possible. But more needs to

be done.

Reactions to transgressions must be fast. Hooligans cannot be given any time to enjoy their crimes. Any positive reward for bad behaviour must be denied. This means that police forces must be stationed along all public corridors and at all public congregations. If this means a few more police must be hired, so be it. The cost of safety cannot be measured in euros. It can only be measured in that feeling of peace-of-mind engendered by a safe world.

Now this might sound like martial law. It isn't. The most important difference is that the "hooligan police" will not restrict any freedoms or enforce any extra laws while on duty. They will act just like cops

on patrol. The next most important difference is that the hooligan police will not be military personnel. The last difference is that the hooligan police will throw candy to the crowd (enough for everyone) immediately after they arrest a hooligan. This last policy will ensure that the people are happy to see the police and will not resent or fear them (remember Yoda's words).

Hooliganism can be stopped. All hooligans need is a swift kick in the butt, and some time in jail. Who wants to miss their team's next game because they got a little over-excited and taped their flag to a wall? No one, that's who.

Hooliganism can be stopped. All hooligans need is a swift kick in the butt, and some time in jail. Who wants to miss their team's next game because they got a little over-excited and taped their flag to a wall? No one, that's who.

DAN ARNOTT  
3A ENVIRONMENTAL

NEIN!

The World Cup comes but once every four years. It is a time when a multitude of nations come together for a single purpose. Although many of us think that purpose is football (soccer in North America), the real reason people come together at the World Cup is to get drunk and party like hooligans.

This year, the World Cup is being held in Germany. Being the tidy and precise nation that it

is, Germany is taking a hard-line stance on World-Cup hooliganism. They have actually constructed a specially-designed 'Hooligan Jail' to detain hooligans when they get too unruly. I say this is ridiculous! At the World Cup, the hooligans should be allowed to run free!

Think about it this way. We in North America live by-and-large dispassionate lives. The only thing we're passionate about

is maintaining our apathy. We are content not to live, but to simply exist. On the other hand, the proud nations of the World Cup are a perfect example of passion. When World Cup time comes around, their entire consciousness is centred around twenty-two players and one small round ball. They paint their faces. They wave flags and banners. They wear silly hats. They drink huge quantities of alcohol. Sometimes they get naked and violent. This kind of joie-de-vivre should serve as an example to us of what life is really like.

It is also important to remember that while diverse nations are engaged in hooliganistic activities, at least they're not fighting each other. They don't focus their energy on building weapons or training armies - they're too busy cheering, getting drunk, peeing on trees, and things like that. And sure, while the occasional scuffle may occur, it's all in good fun, and the lasting effects are a lot less than those of a

nuclear war.

Besides, this event only happens every four years. Four years! That's a long time to hold all of your hooliganistic tendencies inside. You've got to let them out some time. So why not do it while the whole world is watching? At the World Cup, you are a hooligan among hooligans. You have a safe environment where you are free to be the hooligan you've always wanted to be, with only a slight risk of head injuries or alcohol poisoning.

Lastly, football is supposed to be fun. If you want a nice, quiet evening of subdued entertainment, go to the opera or something. But if you want to truly feel what it's like to be a part of a drunken, howling, strangely-coloured mob, then go to a football game! The players are enjoying themselves, why shouldn't you?

Germany is more than equipped to deal with the hooligan problem. However, they should ease up a little bit - the World Cup is a hooligan's time to shine.

## Editor's Note:

The views and opinions expressed here do not necessarily reflect those of the authors, the Iron Warrior, or the Engineering Society.

## STUFF YOU SAY

## The Modern Kulturkampf between Life and Death

MICHAEL SIMOES  
3A CHEMICAL

Living in Canada, I live in a multicultural society. Immigration is high, and so is cultural diversity. But our western culture is one of death. The late Pope, John Paul II repeatedly described society overall as one that believes in death. For him, having grown up in Poland, during the Nazi Holocaust, gave him a first hand experience of a culture of death. Coincidentally, the current Pope, Benedict XVI also describes our society as one of death. On the other hand, he grew up in Germany during the Nazi Holocaust, and the actions of his own people gave him purpose as a priest in the Roman Catholic Church, and that is to stand up against evil and tyranny.

Contraception, the death of life from the first moment of conception was the beginning of this culture of death. Pleasure is the ultimate goal of our society, no matter what the cost, even if it means not being open to life. When contraception fails, panic ensues (as the commercial for "Plan B Emergency Contraception" tells us) and instead of accepting responsibility for our actions, the next stage of the culture of death occurs, and that is killing the life within, also known as abortion.

Currently, on average about 150,000 abortions occur in Canada each year, and is on the rise. In Canada, there are no laws that protect the unborn person. In the western world (Europe and North America), these rates are much higher. What makes me laugh is that a baby,

born premature at 24 weeks, is more of a human being than a baby still in the womb at 24 weeks.

The only reason our birthrate is higher than our death rate is because of the immigration of peoples who believe in life. Islam, a religion under a lot of criticism, and a lot of scrutiny in this world doesn't believe in contraception or abortion. Consequently, Muslims have many children. Christians around the world should take note of this because it is our western society that causes the most harm to life influencing other nations on their policies. Cardinal Pell, the Archbishop of Sydney, Australia, forsores in 20 years that

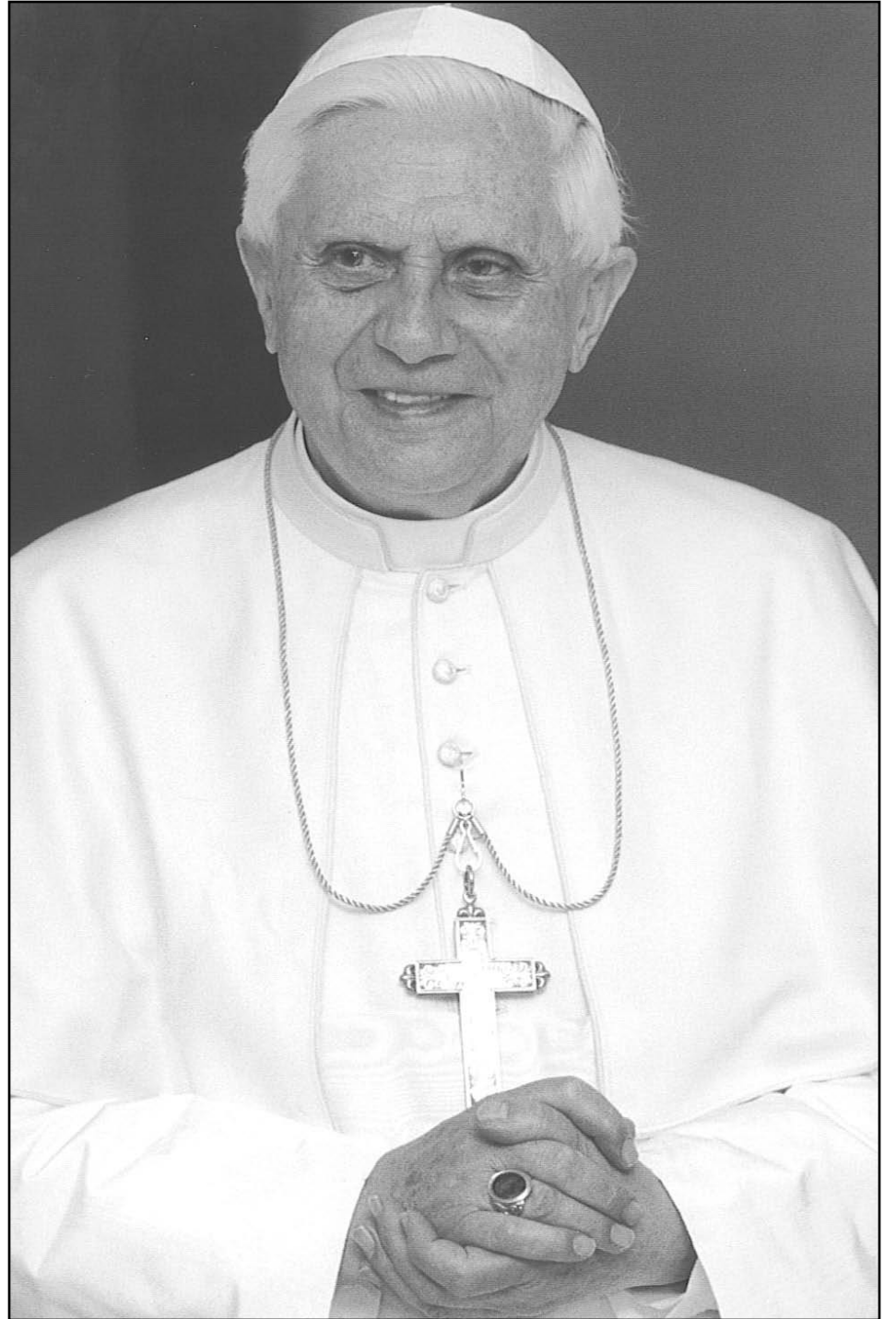
the west will become mostly Muslim as well if the trend of low birthrates continues. In Kerala India, the birthrate among Christians is at an all time low. Cardinal Varkey has said that if the trend continues the region will become mostly Muslim.

The one child policy to control the population in China has caused serious damage to the nation. When

the one child policy becomes a one boy policy (as girls aren't highly favoured), serious social implications take place, as we are seeing. Homosexuality, once known as a psychological disorder, is now rampant, and the population control has worked as there can be no life between two men.

As science and technology increases over time, our morals and ethics, decrease over time. Just look at the culture of death, it started in the 60s and is now the culture of the West. When we make ourselves gods, the image of mankind is lost. Let us remember that we are created by God, in the image and likeness of Him. That is our roots and without these roots, we cannot grow.

**" What makes me laugh is that a baby, born premature at 24 weeks, is more of a human being than a baby still in the womb at 24 weeks. "**



*"In our times we need to say 'no' to the largely dominant culture of death... [There is] an anti-culture demonstrated by the flight to drugs, by the flight from reality, by illusions, by false happiness ... displayed in sexuality which has become pure pleasure devoid of responsibility."*  
- Pope Benedict XVI, after abandoning his prepared sermon on 2006/1/8.

## CSE Review: First Year French Courses FR 1xx

HAROUT MANOUGIAN  
3A ELECTRICAL

First off, let me introduce you to the first year French courses that are offered at UW. FR 151 is the most basic course, it's antirequisite is Grade 11 high school French or any more advanced course. FR 152 is for students who took French in Grade 11 but not Grade 12 or OAC. FR 192A is for students who took French until Grade 12 or OAC or who have already taken FR 152. It is also the first course available to students who have "advanced, near-native or native ability in French." However, you may not take this course if you have taken FR 197, the first year French literature course. FR 192B is the last course in the set. Oddly enough, it has the same prerequisites as FR 192A, namely Grade 12 or OAC French or FR 152. All four courses are also available by Distance Education.

Now, if you just took this information (taken from the Undergraduate Course

Calendar) at face value, as I did, you may be in for a surprise. Since I took French until Grade 11 in high school, I took FR 152, FR 192A and FR 192B. During the three terms that I did this, although I learned a lot of new French words, I did not learn a single grammatical construction that I had not seen in high school. Maybe my high school French program was more advanced than others, but by Grade 11, I already knew about how direct object pronouns can add letters to the participe passe of avoir verbs. We had already learned about the plethora of verb tenses that include le plus-que-parfait, le futur simple, le conditionnel, and le notorious subjonctif (and subjonctif passe). Of course I didn't remember all the tiny rules or the forms of irregular verbs but after 3 terms of French classes, it's finally sinking in.

**" Be aware, however, that you can only count one language course as a CSE. The reason I took three was because I had been planning on going on exchange this fall. "**

So, do you want to take an easy course that counts as a List D CSE? Then take the course that the Undergraduate Calendar tells you to and don't forget to bring in your Technical Ability form that says French is not your native language, which you need for a CSE credit. If it is, then try to hide your accent when you get your French professor to sign it.

However, if you are thinking of taking a French course because you want to go on exchange or work in a country in La Francophonie, you may want to consider taking a more advanced course. If you know the basics of passe compose with etre, take FR 192A. If you feel reasonably comfortable using le subjonctif, take FR 192B. You can then go on to take the second year courses, FR 251 and FR 252, or enhance your spoken French with FR 203

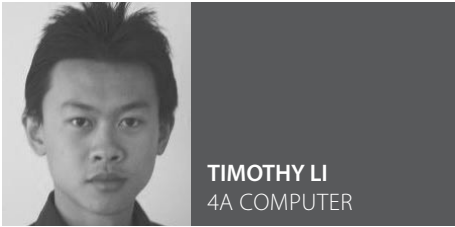
and FR 250A.

Be aware, however, that you can only count one language course as a CSE. The reason I took three was because I had been planning on going on exchange this fall. Another reason you may want to consider taking more than one French course is if you take it as a sixth course during a term that you are already scheduled for a CSE. That is, take an Arts course where you don't expect to get a great mark (like most essay-writing English and History courses, or Larry Smith's ECON 101 and 102) and take a French course on top of that. In the beginning of your term, you need to let your Undergrad Office know that you want French to count in your average and the other CSE to count as DRNA (Degree Requirement, Not in Average). You can then get the CSE credit for the other course and get a high 80 or a 90 in French, which gets calculated into your average.

The biggest advantage to French courses is that they are almost mathematical. Every question on a test has a right answer. That is, if you put all the right answers down, you get 100%. This is not so for most other CSEs, which are usually more subjectively marked and frustrate engineering students. Alors, vas-y.

## STUFF YOU SAY

## Top 5 Tips to Sell Yourself to Angels &amp; VCapitalists

TIMOTHY LI  
4A COMPUTER

Not many people talk about VCs (Venture Capitalists) and Angels around campus. When it comes to what exactly they do and what differentiates them from each other, any ideas?

Angels and VCs invest in early stage startups. In simple terms, Angels are "smaller" - less organized and manage less money, at the same time they are more approachable for a student. To put things into numerical perspectives, VCs are generally not interested in investments fewer than 2 m (million dollars). It is very expensive for them to manage an investment, so they are interested in a venture



that could potentially sell for 20 m in less than 5 years. Not our kind of game.

Angels, on the other hand, have a much lower cost for overhead, and do not manage a lot of capital to start with. So if your venture is looking for 20 g (thousand dollars) or 50 g to get started, try them first.

Infusion Angels, based in Waterloo, hosted a remarkable info session last month. The setup of the info session was brilliant - the host asked all participants to sit in the board of investment advisories and evaluated 5 real product presentations (including my own) together. Before the presentations took place, the host taught everyone 5 key figures an Angel firm would evaluate an idea on.

Ideas are ideas; investor won't buy it until you put it into their vocabulary. These following five points are the real take away from this article.

## 1. Exit plan

Investors want to hear how you plan to make them richer, so tell them. Tell them how much you will sell the venture for in 5 years. Of course you don't know for sure, then do some research and make it up. Say your plan is to be acquired by Google for 750 m (ha! What a plan), make sure you back up this price with what Google has acquired recently, or at least find out how much they bought Writely.com for.

## 2. Capital allocation

How much do you want from the Investor. You absolutely need to make this clear to them up front. What are you planning to do with this money? If you are not sure, estimate,

for example: "I need 30 g so I and my buddy Joe can take our next coop term off to finish the product development".

## 3. Revenue model

There is no business unless you have a revenue model. In simple terms, who has money in their wallet and how do you plan to get that money into your wallet. Don't mistake an exit plan such as "Google will buy us" with a revenue model. "Google will pay us 1 cent for every click through" is a revenue model. But now you have to explain how you plan to generate billions of clicks.

## 4. Protection

How do you stop others from copying your idea and finish up before you do? Mentioning of a patent will sure impress them.

## 5. Competition

If you claim your product is one of a kind and has absolutely no competition

anywhere in sight, an investor will probably "mis-interpret" this as - your product has no proven market value. Either you are looking too far ahead or they don't believe in your revenue model. Again, VCs and Angel are looking for an exit in under 5 years. If you have a vision for something that will make you billions in 2010, it sure is a good idea, but they might not be that interested. No harms in trying though, something like RFID or OLED will at least catch their attention.

**" Ideas are ideas;  
investor won't buy it  
until you put it into  
their vocabulary.. "**

So after you have changed your mind about having no competitions, think about your product's competitive advantage. Why would your customers pay for your product but not similar ones? What's your magic sauce? Last time I came across a remarkable product from the food industry was "we ship in NY tap water to Waterloo and use it to make our pizza doe"

Infusion Angels is a brand new angel firm. They are very eager to take in 3 or 4 ventures to its portfolio to start with. The founder Gregory Brill expressed extremely high interests in student initiatives. This means all your brilliant FYDP (Fourth Year Design Project) by the way...

So if you've got a business idea, don't hesitate to contact Greg by email (Google "Gregory Brill" to reach his blog). On a second thought, do hesitate and practice your pitch against the five points above before sending that email.

Or if you don't feel very comfortable with your idea just yet and simply want some comments, pitch me. I can't help you to get rich, but I can lend an ear. Google "Timothy Li" to reach my blog.



## Social Diary of a Laurier Girl

LILY SHANG  
GUEST COLUMNIST

A year ago, my engineering friends asked me why I was going back to high school; more specifically, the "high school down the street".

But really guys, it's not a high school: it's a University. I swear. God forbid, after the years of Engineering Camp, Math Club and Science Fair, the only daughter of engineer parents was going to graduate with an Arts degree.

Last summer was shrouded in uncertainty about the future and what this new school might bring; this summer it's time to bask in the sun and the warm winds of change.

For one thing, it started off on top of the world when 70+ young glitterati arrived at my penthouse party in style.

On the surface it was of bon chic, bon genre: we partied in a sleek, modern waterfront lounge with a 360 degree balcony and glittering view of Toronto. Inside, however, it became more scandalous by the hour, as people arrived with

copious amounts of liqueur. Inevitably, everyone became intoxicated with each other's... charm and social grace. On such a conveniently windy night, the lucky guys were privileged to many Marilyn Monroe-esque moments as the ladies step outside unknowingly in their skirts, to admire the skyline.

Yet on top of it all, what made the night special wasn't the setting; it was the diverse guests: there were NDPers and the Conservative Cowboys, the models and Eng Soc Presidents. What made it special was that youth from such diverse walks of life could socialize together and be bound by a common destiny: to be the movers and shakers of tomorrow.

Speaking of tomorrow, it is a big day. I am running to be a delegate to the Liberal Leadership Convention in December, and this weekend marks the last days I can sign up people to vote for me to go. The great thing about campaigning is that it gives me a chance to catch up with old friends. At night we're going to hear a talk at Ryerson by Michael Ignatieff, the candidate I'm supporting in the Liberal Leadership race. The best part will be when he comes to the pub to hang out with us, where we'll talk policy and World Cup... possibly more of the latter than the former.



A part of me is nervous about whether or not we'll be able to get enough support by the end of the weekend. The other part of me is yearning for fundraising season, when getting dressed up to the nines, sipping Chardonnay, and talking policy is all

just another day of business.

What's standing between tomorrow and fundraising season? A paper about Milton Friedman's Theory of Positive Economics. Fast-tracking through school was a positively great idea.

## ARTS & ENTERTAINMENT

# Novel Review: 'The Town and The City' by Jack Kerouac



DAN ARNOTT  
3A ENVIRONMENTAL

Jack Kerouac, best known for his novel 'On The Road', began his career with 'The Town and The City' in 1947. It almost reads like a prequel, as it has all the fun, debauchery, passion, and sadness of 'On The Road', but for a lot of us, 'The Town and The City' will hit a lot closer to home.

This novel follows the history of a New England working-class family, the Martins, through the years leading up to and surrounding the Second World War. It has a surprisingly familiar feel to it, probably because the Martin family is so well-written that, no matter what our background, we see some of ourselves in them.

The book starts off with a series of short anecdotes about the various family

members, amusing stories that show us who the characters really are. We can all relate to the oldest brother Joe's underage drinking adventures, and we all feel the terror in our guts that little Charlie felt when the cop shows up right after he breaks the neighbour's window.

Soon, the book pares its focus down to a few major characters: the jovial, cigar-smoking father, George; the sickly intellectual son Francis; the whimsical wild child Joe; and most importantly, the middle son, Peter. Although all the characters are somewhat modelled after Kerouac, Peter is the closest. Like Kerouac, he plays the part of the up-and-coming college football player who gets disillusioned with it all, joins the army, and eventually hits the road.

The book is named 'The Town and The City' because it follows the family's downward spiral from the pleasant small town of Galloway to a tenement in New York City. We watch as financial ruin, impulsive decisions, disease, war, and death turn what is initially portrayed as the ideal

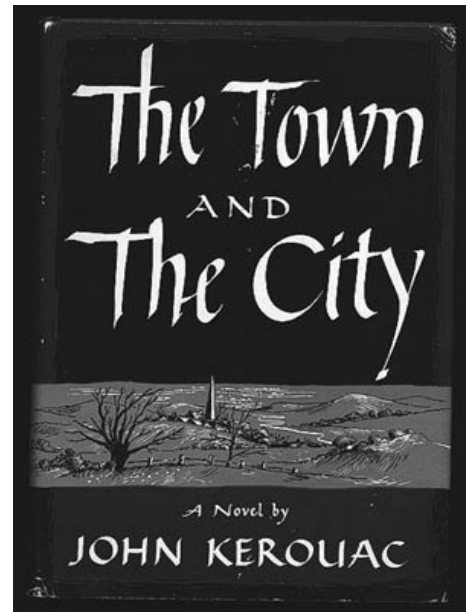
happy American family into a mere shell of what it was.

While some of the characters are subjected to bad luck, most of what happens to them is a direct result of their own decisions. However, Kerouac doesn't condemn them for it; he praises impulsive decisions for their necessity in life. 'How will we know what happens if we don't try it out?' is his view.

This book also says a lot about America at the time. Without taking sides, Kerouac exposes a lot about the contrast of values in the country at the time. The Martins at the beginning of the book represent traditional American values - something that is safe, desirable, and happy, but more than a little dull, and often cruel beneath the surface. Later on in the book, many of the characters are introduced to European art, literature and thinking, and the early beatnik culture of New York. This is portrayed as new and exciting, but also has an element of darkness and hopelessness to it. People get hooked on Benzedrine, kill themselves, and eventually get depressed.

In the end, young Peter takes neither side, and goes on to choose his own ideas.

Although a slow read at first, 'The Town and The City' is not so far removed from our present day as you might think. I suggest reading it if you want something to make you think a little bit.



## Album Review:

### 'First Blush' by Tricky Woo



DAN ARNOTT  
3A ENVIRONMENTAL

Usually when bands break up and get back together, they're missing some of the groove they once had. Not the case with Montreal's Tricky Woo - their latest album 'First Blush' sounds like they never left.

Tricky Woo has been rockin' across Canada since 1996. Their sound is built largely on the heavier side of the late 1960s - if the Shins are testifying to the legacy of the Beatles and Beach Boys, Tricky Woo carries the flag for The Kinks, The MC5, Zeppelin, Thin Lizzy, and the Stooges. That being said, they're not just copying what's been done before - they add their own 90s twist to some of the songs, and they sing with a sincerity that's rare these days. That's right, Tricky Woo doesn't rock to be ironic, they rock because they love to rock.

'First Blush' explores slightly more aggressive territory than their previous albums. Part of this is the guitar work. While 'Sometimes I Cry' and 'The Enemy Is Real' still have a fuzzy 60s sound, the axes on 'First Blush' sound a little crisper and a little better. Lead guitarists Adrian Popovitch and Andrew Dickson work together a lot more, pulling out some proto-metal harmonized leads, and usually at least two guitar solos per three- to four-minute song.

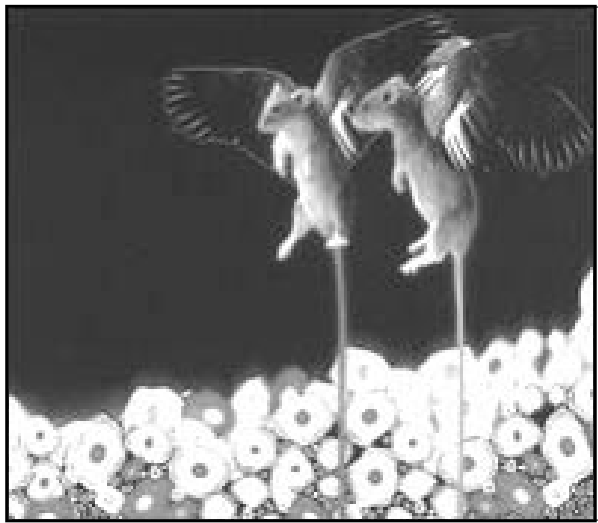
The album opens with the groupie-

conquest tale of 'Pink Thunder', a serviceable rocker but one of the weaker tracks. The album soon takes off, though, and by the third track, 'Lover Don't You Lie', we're clapping along. As the album continues, we hear Tricky Woo wear their influences on their sleeves. 'Rat Feathers' is an excellent example of Popovitch's psychedelic guitar work, and 'Mistress of the Mountain' is as close as Tricky Woo gets to fantasy metal. 'We Are The Vampires' does some interesting things with a blues-based riff, and 'Living in the Danger Zone' has a distinct Judas Priest feel to it. So yeah, this definitely is a heavier album.

The best song writing comes on the last track, 'Dirty Business'. It starts with a nice crunchy guitar riff, a GONG (a la Led Zeppelin), and then breaks into a blistering solo. This song doesn't let up its pace, even when it throws a tempo-change in the middle before returning to its thunderous chorus in the end. Rock and roll is indeed a dirty business, and Tricky Woo is disturbingly good at it.

Seeing as how Andrew Dickson worked out all his quieter tendencies on his 'Soft Canyon' side project, there is not a single slow song or ballad on this album. It's for the better; a slow song would seem forced on this album.

This album isn't big on subtlety. Basically, if you don't like loud dirty rock and roll, listen to something else. But I say, grab a case of beer and throw this album on the stereo. You'll be so damn glad this band is back together that you won't even notice your ears are bleeding.



## Movie Review: The Omen

### They Just Don't Make 'Em Like They Used To



DAVE MIKA  
3A MECHATRONICS

Released on 6/6/06 the Omen is a nearly word for word remake of the 1976 horror classic by the same name. Being a fan of the original, I had high hopes for a decent movie going experience but found that, like other recent remakes, the Omen was plagued with everything that's wrong with modern Hollywood horror flicks.

The story is pretty straightforward. Robert Thorn, an American ambassador, and his wife are given a random baby following the loss of their child during birth. As little Damien Thorn begins to grow up, strange things start transpiring. Without saying much else, these happenings lead Robert to the conclusion that his son is a little blue-eyed anti-christ just waiting to unleash all sorts of chaos on the world. Throw in the nanny-from-hell (quite literally), a handful of gruesome deaths for those in Damien's way, and some romps through graveyards and ancient ruins and you have a recipe for an entertaining hour-and-a-half. Right? In 1976 absolutely but today, not so much.

My one beef (and it's a big one) with horror movies these days is the cheap scare. I'll admit that I usually spaz the first time something just pops onto the screen but after a while, you can smell these lousy shock tactics coming from a mile away. Sadly, the remake of The Omen falls prey to a few too many "jump" moments and, as a result, loses much of its punch by about the midway

point. When you look at classic horror movies (including the original Omen), it wasn't about spooking the audience in short bursts, it was about instilling such uneasiness and creepiness that it stuck with viewers long after leaving the theatre.

Maybe I'm a purist, or maybe it was sitting in the second row with excessive "shaky-cam" sequences, but the remake of the Omen just didn't do it for me. The acting was largely unimpressive. Liev Schriber pulls off a reasonable role as Robert Thorn. Julia Stiles on the other hand, was lacklustre as Thorn's wife. The only thing I can really remember about her performance is that acting "scared" typically involved an excessive amount of heavy swallowing.

I'll admit that there were some entertaining moments. I'm a sucker for a good death scene and each one of the "accidents" that befell Damien's fodder in the film was appropriately cringe inducing. I was pleasantly surprised to see that instead of trying to recreate some of the more memorable deaths from the 1976 Omen, the filmmakers decided to add enough twists to make it seem like the remade scenes were paying homage more than anything.

Unfortunately, creative disposal of characters isn't enough to save a horror movie, let alone one based on such a staple as the Omen. Looking back, I'm sure it was just some Hollywood bigwig's bright and timely marketing scheme to make this second rate film and it shows. If you're in the mood for horror, skip this remake and do yourself a favour: hit the video store, make a vat of popcorn and catch Damien's original romp in all its demonic deliciousness.





## ENGINEERING SOCIETY

## Summer is a Time to GLOW



JEN CARROLL  
PRESIDENT

This past week the exec members took part in GLOW's Ally Training Program. For anyone interested in learning a little bit more about the LGBTQQ community, for anyone who wants to help promote diversity, for anyone who wants to be made more aware of issues related to sexual orientation and gender identity with specific relation to life here at UW – this training is for all of you!

The training session was roughly an hour long. We learned some definitions, we learned about some events (both positive and negative) that relate to LGBTQQ life at UW, and we learned some ways to help promote acceptance of diversity – sexual or otherwise.

By taking the training session you are not obligated to become a member of the Ally Network. If, after the session, you are interested in becoming a network member you are required to sign an Ally Network Code of Conduct. By becoming

a network member you aren't expected to be an expert on all issues relating to sexual orientation and gender identity, however you are expected to have an open, tolerant mind and be willing to offer what assistance you can. The purpose of the network is to provide network members with resources and support.

In terms of what we can all do to help make engineering be a welcoming place for everyone:

- \* think before you speak – generalizations and misconceptions can hurt just as much as insults

- \* actively practice tolerance – don't sit quietly while someone else behaves in a way you wouldn't

- \* learn – knowledge is a useful tool

I've signed up to become a network member. As the largest engineering program in Canada, the students/faculty/staff of UW engineering are a very diverse group and tolerance of others is important to ensure harmony amongst us. If you have any questions, concerns, comments about the GLOW Ally Network or any related issues please don't hesitate to contact me.

## July's Here – AHHHH!!!



GREG FITZGERALD  
VP EXTERNAL

July's a busy month so let's get right to it. AND in this weeks article I'll try to go the entire way without the use of the letter 'x' – pretty impressive move on the part of your VP-Eternal eh?

Do you have a dirty car? How about a dirty bike? Maybe you even have a dirty body – if any of the above applies to you, come on out to the Charity Car and Bike Wash on July 8th from 10am to 2pm. All proceeds go towards fighting breast cancer. There'll be pink soap for all, and if nothing else it'll give you a chance to support charity while getting sprayed down by a hose to beat the summer heat (that rhymes, all the more reason to come out).

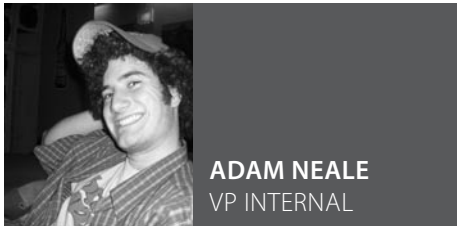
Eight delegates from Waterloo (4 A-soc, 4 B-soc) recently attended the ESSCO (Engineering Student Societies' Council of Ontario) Annual General Meeting. The conference provided students from across Ontario with an opportunity to share ideas and collaborate on topics ranging from how to run a successful charity event, to preparing students for the Ontario Engineering

Competition, increasing involvement with-in engineering societies and learning techniques of conflict resolution. Conference locations were decided for the 2006/2007 calendar year, with congratulations going out to Dan Taylor, who successfully bid to host the First Year Integration Conference here at the University of Waterloo for January 2007. Congratulations also go out to Christina Waters, who was elected the new ESSCO Vice President, Finance.

Student Life 101 is coming up on July 22nd, and if you're interested in partaking in a design competition, this is just the event for you. The EngSoc Student Life 101 directors will be hosting a competition to showcase Waterloo Engineering to incoming students. Teams of up to 10 people can enter, with team members coming from any undergraduate engineering discipline and year. Sign up on the orifice door, or email Cat Hay at c2hay@engmail.uwaterloo.ca.

Farewell B2 Green Party! With the impending construction of the new nanotechnology building in the fall, on the Green Formerly Known as Biology 2, there are plans in the works to hold a year end party, as one last hurrah for the green. The party is to be hosted on the green by the UW-DJ Club – keep your eyes and ears open for more information.

## What's Hot and What's Not in EngSoc



ADAM NEALE  
VP INTERNAL

## HOT

EngSoc Family Photo – Thanks to everyone that showed up, the picture looks great and a hard copy should be available for everyone that was in the picture before the end of the term. There will be more information on this in the coming weeks.

Enginuity #2 – July 5 – Toss the rollerblading dummy down the hill and watch what calamity ensues. Meet up in the CPH

foyer at 12:30.

TalEng – July 6 in POETS – Sing, laugh, and dance with all your friends while we display all of EngSoc's great talents besides solving differential equations.

Off Road Classic/EngFest – July 8 – Bike through the trails or come out and volunteer. Either way there will be a barbeque and good times had by all as the EngFest directors provide hours of entertaining events throughout the day.

Genius Bowl – July 12 in RCH 101 – Test your knowledge of all things from around the world, and brag about how trivial your knowledge actually is.

EngPlay – July 13-15 – Drama and/or hilarity will ensue without a doubt.

Semi-Formal – July 15 – Come out and dress up for the Moonlight Masquerade.

## Novelties and Donations!



CHRISTOPHER  
OLEKAS  
VP FINANCE

Hello Hello, and welcome to the nth instalment of masterpiece theatre, I'm your host, the Vice President of Finance, Christopher Olekas. Tonight we'll talk about damsels in distress, magical relics, and the greatest story ever told. Above you will find how the Engineering Society decided to allocate our donation funds for this term. If your group has been allocated funds you should get in contact with me on how you can receive those funds.

In other news, novelties had a sale last

week where we liquidated the majority of our old inventory. It was great where old t-shirts went for 2 for a \$1. These were by far the hottest sale. Overall a lot of our old stock was moved, this means that there is now room in the store to get new novelties. Some of the novelties we're thinking of making are boxers adorned with the TOOL, and Eng Socks! Another sale is in the works before the end of term, but don't hold me to it! Also, the online novelties initiative is going on strong. I've got a computer inside novelties to act as a point of sale system and my finance director is working hard developing the software. There are also rumours of a redesigned EngSoc web page and online novelties will be a part of it.

That concludes this episode of masterpiece theatre, good evening and good night.

Coming Soon...  
Moonlight Masquerade

ADAM NEALE  
VP INTERNAL

Get ready to be swept off your feet at the Moonlight Masquerade. Our semi-formal dinner and dance will be held on Saturday, July 15th at the KW Granite Club (across from UWP). Please note: this is the same weekend as the frosh leader retreat.

You CAN come out to both events!

There are two types of tickets available this term. For \$35 you can purchase a dinner and dance ticket. Doors will open at 6:30pm and dinner will begin at 7:00pm.

For only \$15 you can come at 8:00pm and dance your heart out for the rest of the evening. Appetizers will be served throughout the night. Drinks can be bought at the bar with proof of age.

Tickets are available in the Orifice beginning Monday, June 26th. Dinner tickets will be sold for a limited time only, so be sure to pick yours up early!

Team or Group	Amount Requested	Allocated
UW Underwater Technology Team	\$240.00	\$175.00
IEE EMB	\$250.00	\$150.00
GNCTR	\$750.00	\$375.00
CRT	\$836.05	\$150.00
GradComm	\$600.00	\$350.00
Quake Relief Summer Program	\$600.00	\$225.00
Midnight Sun	\$250.00	\$125.00
FOC	\$500.00	\$400.00
TronsForChildren	\$50.00	\$50.00
UW CE Course	\$75.00	\$0.00
<b>Total</b>	<b>\$4,151.05</b>	<b>\$2,000.00</b>

How to Submit a Letter to the Editor of the IRON WARRIOR

The Letter to the Editor section will feature short blurbs on issues that the reader cares about. Letters are significantly shorter than articles (100-200 words). Submit letters to iwarrrior@engmail with subject line "Dear IW".

# ENGINEERING SOCIETY

## WEEF Participation Rates for Spring 2006



**MARIA ARSHAD**  
WEEF DIRECTOR

Hey Everyone! This issue includes WEEF participation rates. Overall rate is 68.9% which is lower than fall 2005 and winter 2006 terms. I congratulate 1B Geological for having the highest rate of 100%. Runner up is Architecture 2B.

Proposals were due this past Friday

(June 30) at 4:30 pm. In total I have received 38 proposals which is a high number! Therefore, there will be two presentation meetings. One on July 4th @ 5:30 pm in CPH 3374 this will mainly consist of all the departmental presentations. A second meeting will be held on July 6th @ 5:30 pm in CPH 3374 and comprise of all the student team/project presentations. If you submitted a proposal and did not receive an e-mail with the presentation schedule, please contact the WEEF director (weef@engmail).

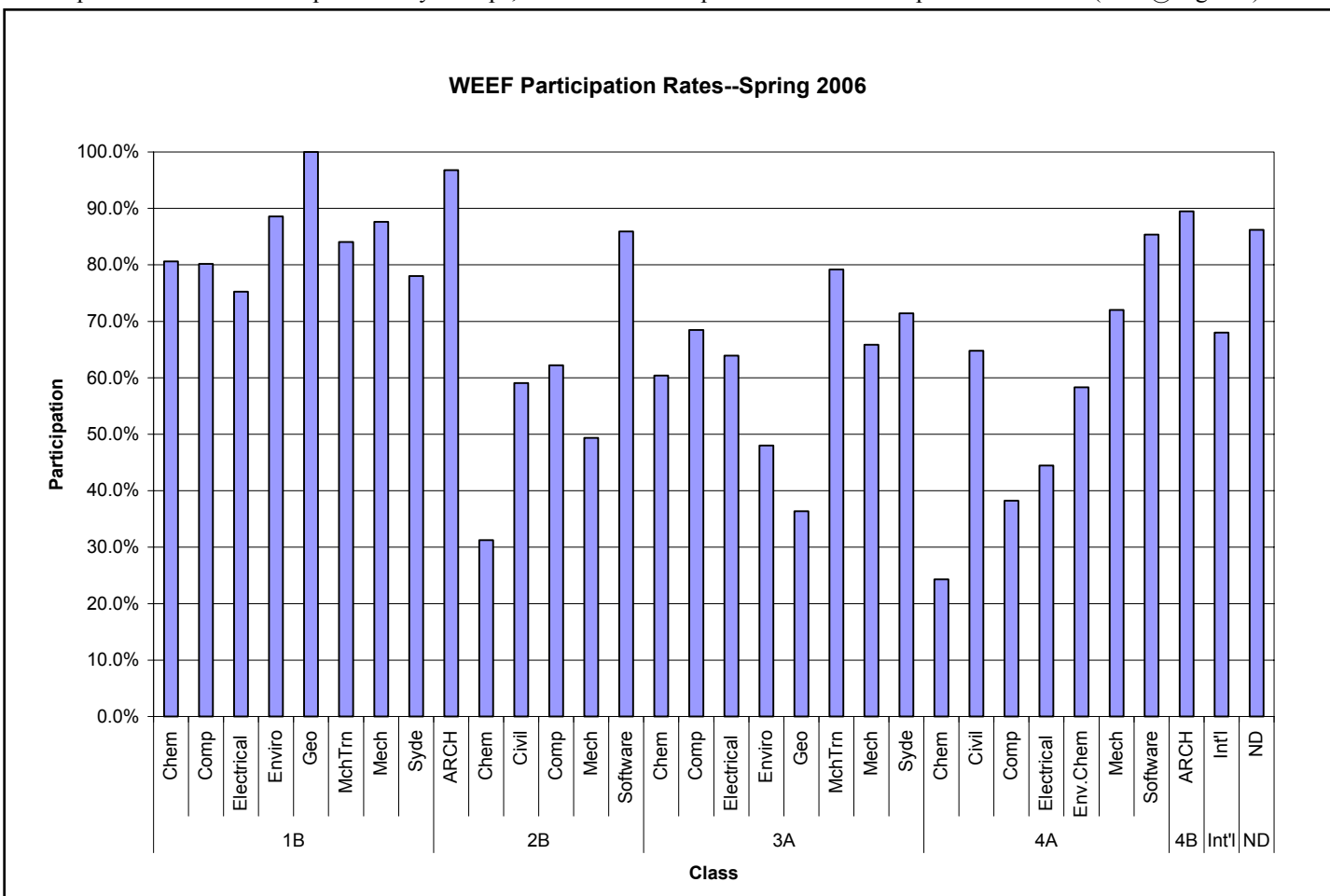
A shout out to all the awesome WEEF Reps, there will be two presentation meet-

ings this week, please make sure that you attend. If you cannot attend, please find someone to replace you. Also, the funding council meeting will be on Tuesday July 11th @ 5:30 pm location TBA. Please check the website for any updates. I must stress the fact that it is very important that every class has a representative present at these meeting in order to make a well informed decision.

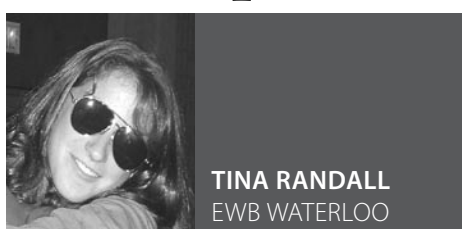
Lastly, but not least, please check the WEEF website to ensure that your class has a WEEF Rep (www.weef.uwaterloo.ca). If you have a question or concern, please e-mail me (weef@engmail).



Program	Class	Refunds	Part. Rate
Architecture	2B	2	96.8%
Architecture	4B	6	89.5%
<b>Architecture</b>	<b>Total</b>	<b>8</b>	<b>93.3%</b>
Chemical	1B	13	80.6%
Chemical	2B	33	31.3%
Chemical	3A	21	60.4%
Chemical	4A	28	24.3%
<b>Chemical</b>	<b>Total</b>	<b>95</b>	<b>53.7%</b>
Civil	2B	36	59.1%
Civil	4A	25	64.8%
<b>Civil</b>	<b>Total</b>	<b>61</b>	<b>61.9%</b>
Computer	1B	24	80.2%
Computer	2B	34	62.2%
Computer	3A	23	68.5%
Computer	4A	97	38.2%
<b>Computer</b>	<b>Total</b>	<b>178</b>	<b>59.6%</b>
Electrical	1B	24	75.3%
Electrical	3A	35	63.9%
Electrical	4A	50	44.4%
<b>Electrical</b>	<b>Total</b>	<b>109</b>	<b>61.8%</b>
<b>Env.Chem</b>	<b>4A</b>	<b>5</b>	<b>58.3%</b>
Environmental	1B	4	88.6%
Environmental	3A	13	48.0%
<b>Environmental</b>	<b>Total</b>	<b>17</b>	<b>72.1%</b>
Geological	1B	0	100.0%
Geological	3A	7	36.4%
<b>Geological</b>	<b>Total</b>	<b>7</b>	<b>73.1%</b>
Mechatronics	1B	18	84.1%
Mechatronics	3A	20	79.2%
<b>Mechatronics</b>	<b>Total</b>	<b>38</b>	<b>81.8%</b>
Mechanical	1B	11	87.6%
Mechanical	2B	39	49.4%
Mechanical	3A	28	65.9%
Mechanical	4A	21	72.0%
<b>Mechanical</b>	<b>Total</b>	<b>101</b>	<b>69.1%</b>
Software	2B	9	85.9%
Software	4A	12	85.4%
<b>Software</b>	<b>Total</b>	<b>21</b>	<b>85.6%</b>
Systems	1B	20	78.0%
Systems	3A	22	71.4%
<b>Systems</b>	<b>Total</b>	<b>42</b>	<b>75.0%</b>
<b>Int'l</b>		<b>8</b>	<b>68.0%</b>



## Development Projects Overseas – Millenium Villages Project



**TINA RANDALL**  
EWB WATERLOO

Last week in the SLC Multipurpose Room, students had the opportunity to hear past Feds president and UW CS

graduate Yaacov Iland speak about his recent trip with economist and founder of the Millenium Development Goals, Jeffrey Sachs, along with his involvement in the Millennium Villages Project (MVP) in Kenya. MVP is an initiative to bring development infrastructure to Africa by 2015. It is based at the Earth Institute at Columbia University and currently running in 12 villages across sub-Saharan Africa. More information

about MVP can be found at [www.earth-institute.columbia.edu/mvp](http://www.earth-institute.columbia.edu/mvp).

Yaacov Iland is solution manager for the IGLOO project ([www.theigloo.org](http://www.theigloo.org)) at the Centre for International Governance Innovation in Waterloo.

Students are welcome to come out to the next general meeting for Engineers Without Borders Tuesday, July 4 5:30 pm in RCH 305. We'll be checking out the projects that our volunteers in

Ghana, the Phillipines, and Mali are currently working on and then we'll be giving them a phone call to ask about their work in person. Students are also welcome to come out for the weekly discussion groups sessions, upcoming topics include "The role of religious groups in development" and "The Road to Hell...How much does intention matter". Visit [www.uwaterloo.ewb.ca](http://www.uwaterloo.ewb.ca) for details.

## EngPlay – Every Rose Has a Thorn

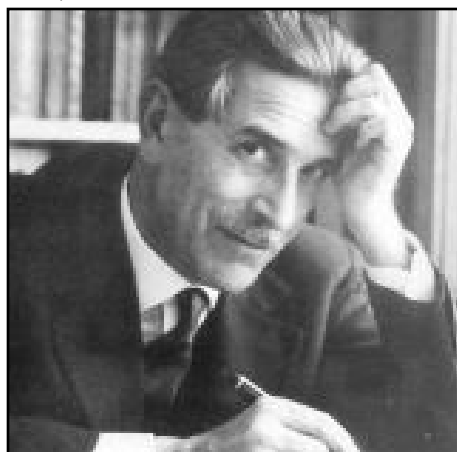
**GEOFF KOOYMANS**  
S06 ENGPLAY

The B-soc engineers have done it again!! I'm referring to the brilliantly planned rendition of "Two Dozen Red Roses" by playwright Aldo de Benedetti, adapted by Kenneth Horne. Set in Italy, this comedy investigates if the desire to commit infidelity is the same as the real thing. Alberto Verani (Patrick Bunker) and Marina Verani (Rianne Ranta), are a happily married couple. Nearing the stage of life known as Old Age, Marina sets out to prove to herself that she is still young and attractive to other men by taking a vacation with her cousin. Although slightly uncomfortable with the idea of Marina attracting other men, Alberto allows her the vacation. As chance would have it, Alberto receives a phone call from a well known Countess trying to reach the florist nearby. Alberto decides to have

some fun, and he sends the Countess some roses along with an anonymous note from a mystery admirer. Moments before Marina departs on her vacation, the roses intended for the Countess from Alberto, are mistakenly delivered to Marina along with the mystery note. Interested in her chances with this stranger, Marina forgoes her vacation to see if the mystery man sends her any more roses. Alberto, realizing what has happened when his wife returns with roses and a secret admirer, decides to test his wife's fidelity by sending her flowers once a day accompanied with the love notes. As the days pass, Alberto begins to worry desperately that his wife will forsake him for the mystery man. Tomasso Savelli (Ryan Wheeler), a family friend, attempts to mend all wounds by taking the blame for the anonymous letters and roses. The path to the truth, however, is filled with hilarious twists and turns that leave Alberto and

Marina closer than ever before.

The EngPlay will be running on July 12th, 14th, and 15th in MC 2066. The July 12th and 14th shows begin at 7:00pm, while the 15th show begins at 12:30pm. Tickets are \$6.00 each and can be purchased at the Turnkey Desk and at The Orifice (CPH 1303).



## Evo Banned

*Continued from page 11*

that the ban will affect local tourism. Japanese visitors Kyouichi Sudou and Seiji Iwaki complained, "We are accustomed to driving the Lancer Evolution and do not drive any other car besides this one. So the mountains of Kansas will be one less place for us to visit... assuming there are actually mountains there."

Obviously, Mitsubishi was also unhappy about this decision and described the situation as a "floccinaucinihilipilification of unrelated material"; they will attempt to bring their concerns to the federal government if necessary. Meanwhile, Subaru has kindly offered to fill the market demands in Kansas with its Impreza WRX STI machines.

## SPORTS

## Edmonton's Cup Drive Ends Dramatically

MICHAEL SIMOES  
3A CHEMICAL

When the Stanley Cup playoffs started, a year that did not see two regular Canadian contenders (Vancouver and Toronto) in it, the hopes of all Canadians lay with the best Canadian team in the regular season, the Ottawa Senators. Little did we know that our hopes for the cup to come back to Canada would lie with the Edmonton Oilers, a dynasty that has not won the cup since the 89-90 season.

The Edmonton Oilers had to face a tough opening round opponent in the Detroit Red Wings, the best team in the regular season. The Oilers having played like Calgary two years ago beat the goliath

in six games. In this series, we saw that Edmonton's goalie, acquired around the trade deadline, Dwayne Roloson was a good pick up. He stood on his head and saved shots he had no right saving. Defensemen Chris Pronger began playing like he should have been playing logging 30 minutes every game. Forward Fernando Pisani having a breakout season played with heart and began to score the game winning goals. The team as a whole played with grit blocking shots even with their heads.

This trend of great goaltending, good defense, hard working forwards, heart and grit carried through the next series against San Jose. Down two games, heading home to the Rexall place, the crowd showed some character singing both national anthems. The fans were the difference in this series, who cheered the team on to 4 straight wins to win the series 4 games to 2. After disposing of the Sharks, they

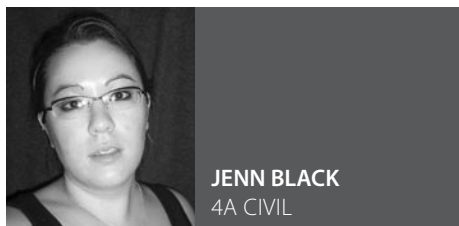
faced the Mighty Ducks of Anaheim. The underdog again outplayed the now top seeded team in the west to win the conference series in 5 games.

The turning point of the playoffs for Edmonton came in game 1 of the Stanley Cup finals, when a Carolina player crashed the net, and one the Edmonton defensemen pushed the Carolina player into the goalie, Dwayne Roloson. Roloson did not play again. Ty Conklin finished the first game and with an error attributed to both Jason Smith and Ty Conklin to give an empty netter to Canadian Rod Brind'Amour. After this game, Jussi Markannen started in goal and lost his first ever playoff game. After two hard losses in Carolina, the Oilers returned home to the Rexall place where the fans greeted them to an ovation. The Oilers won the third game, but not the fourth. Edmonton down 3 games to 1 was in a do or die position, returning to Carolina. The Oilers played with heart and

never quit, and won the game in overtime, shorthanded thanks to a goal by Fernando Pisani. Heading back to Edmonton to force a seventh game, Jussi Markannen didn't have a great game, but neither did Carolina having only 9 shots on goal giving Edmonton a huge 4-0 win away. Game seven of the Stanley Cup playoffs was just as exciting and as dramatic as it could be, but it was not meant to be for the Oilers who lost 3 to 1.

For the Oilers, the Edmonton power play and penalty killing, which had been so dominant in the previous series, lost its touch and was a big reason why they did not win. Cam Ward, the Conn Smythe winner deserved the MVP honors in his rookie season playing like a veteran under the tremendous pressure he was under. All good things must come to an end but we only have to wait a year till the next playoffs and all the exciting actions begins again.

## Soccer Fans Destroy the Environment

JENN BLACK  
4A CIVIL

So it's World Cup time and fans everywhere are banding together to watch some world-class sporting events, root for their team, participate in some drunken hooliganism, and destroy the environment.

You're probably thinking about the littering that goes on at games, people just dropping garbage when and where they're finished with it, but I'm referring to something a little closer to home. The other day I was travelling along highway 401 and I

noticed an abundance of broken, discarded car window soccer flags along the side of the road.

We all know them; those flags flying from, what seems like, every car window touting the favourite team of the car's occupants and/or the South American team most likely to win. Sure it's great rolling along on local roads at 60 km/h but when you're clipping along at 110 km/h (or whatever obscene speed you kids are going at these days...) those flags are holding on for dear life. Not to mention that no one can even identify your team at those speeds.

I know plastic is a very durable material but you are simply asking too much of it! At highway speeds, those flag poles are eventually going to snap. And then bam! Your flag is roadside debris and you're

out the \$10 you paid for it. What kind of respect is that for your team, turning their flag into worthless plastic road kill? In some countries, it is a criminal offence to deface a flag or improperly dispose of it. I'd like to point out that littering is also illegal.

Like tire tread debris, this flag rubble is also dangerous to other motorists. It could get caught in a vehicle's undercarriage or thrown up and through a windshield. I know I'd harbour a grudge against a certain country if its flag came through my windshield and tried to assassinate me. Hell, if I was the leader of a certain country and a flag of a country I already thought was shifty (or had WMD) attempts to assassinate me, I might be compelled to wage war on that other country. Good thing no one is inane enough to put me in

charge of a country.

Let's think about the environment for a second. Even in a landfill, these flags would take forever to break down. That's why we recycle plastic. On the side of the road, these flags don't stand a chance of returning from whence they came. By this I don't mean some factory in China, I mean (in the least cliché way possible) Mother Nature. The flags will just sit there, gather other rubbish and occasionally getting choked on by birds.

Don't get me wrong, I'm all for showing support for your favourite team. But instead of littering your allegiance all over the highway, stick to painting your entire body in your team colours and yelling at others with a bullhorn. Let's just stay away from those pesky lead-based paints.



**Sandford Fleming Foundation**  
E2 3336, ext 4008, [sff@engmail](mailto:sff@engmail)  
[www.eng.uwaterloo.ca/~sff](http://www.eng.uwaterloo.ca/~sff)

## Sandford Fleming Foundation Awards

Twenty one awards were given to students from across engineering at the June 2006 Convocation.

**Academic Excellence**

Andrea Van Bruinessen, Chemical  
Cherry Huang, Chemical/Environmental  
Justina Yang, Civil  
Leigh Davis, Civil/Environmental  
Sheena Luu, Computer  
Kevin Spieser, Electrical  
David Kadylak, Mechanical  
Daylen Syhlonyk, Mechanical  
Douglas Kavanagh, Software  
Christopher Blake, Systems  
Yat Wong, Management Science Option

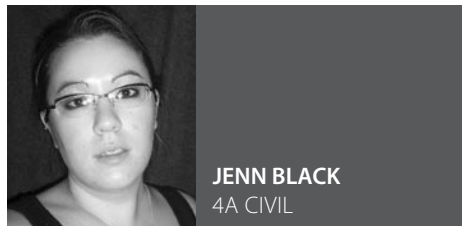
**Co-operative Proficiency**

Mary Thomson, Chemical  
Wendy Eitzen, Civil  
Derek Kwok, Computer  
Bryan Leung, Electrical  
Chris Bestfather, Chemical/Environmental  
Maureen O'Connell, Civil/Environmental  
Steven McNabb, Mechanical  
Laura Pearson, Mechanical  
Susanna Ng, Software  
John Conklin, Systems

*Funding for this award comes from your student contributions and depends on it for continuation.*

## SATIRE

# Music Review: Billy Talent II by Billy Talent



JENN BLACK  
4A CIVIL

For the first time hearing this album, I give it an A. Not an A+, just an A. I'm one of those people who need to listen to something over and over for it to grow on me and win me over. Music needs to have listen-ability to it for it to impress me. With really good albums, the more you listen to them, the better they sound. So upon first listening, Billy Talent's second major label release gets a much lauded A from me. This gives me high hopes for the next dozen times I get to listen to it before it gets overplayed on the radio and is no longer enjoyable.

As an album, the songs flow nicely from one to the next. Unfortunately, some of the songs flow so well that it leaves you wondering if your CD player is on the fritz and repeating songs. But all in all, the songs are interesting and different.

My favourite part is, and always has been, lead singer Ben Kowalewicz's unique sound. You can instantly tell a Billy Talent song from any other band as soon as he starts singing. Whether singing or screaming, Kowalewicz's voice has a distinctive musical quality.

The first single, Devil in a Midnight

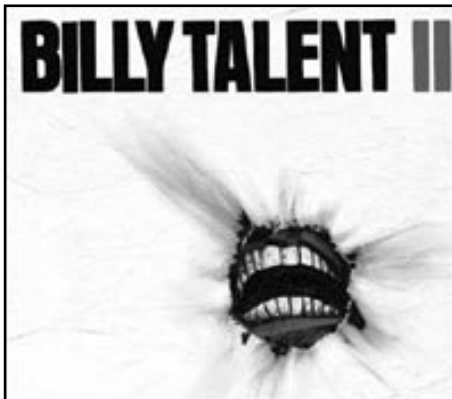
Mass, has already made a splash on the radio and on television. It's exactly what one would expect from Billy Talent based on previous singles. There's nothing that prevents an artist with sticking to something once they've found out what works for them and there's nothing I hate more than an artist changing who they are and what they are singing about. You hear me Black Eyed Peas? I'm talking to you!

That being said, Billy Talent II is a little more melodic and seemingly less angry than Billy Talent's first offering. Some of the ruff

edges have been sanded down but there is still plenty there to hook you and give you some wicked splinters. In my opinion, these changes are not a sign of slowing down but a sign of maturity.

If you want to know what all the fuss is about before buying the album (which I highly recommend), I suggest downloading, if you haven't already, the first single - Devil in a Midnight Mass. Other suggestions for precursory downloading are the hard driving Red Flag, and the catchy This Suffering. For anyone paying attention, these are the first three songs on the album. I assure you, I DID listen to the whole album. Exercising a random listening order, these are the songs that really stuck out in my mind. So to put your addled minds at ease, I will also suggest the relatively mellow Surrender for you to check out.

Happy Listening.



## UW Particle Accelerator Scheduled For Repair



DAN ARNOTT  
3A ENVIRONMENTAL

UW has announced that extensive repairs are scheduled for its particle accelerator, located under Ring Road.

"Most students, and even most faculty, don't know about Waterloo's particle accelerator," said Professor J. Y. Kelly, director of WARRP (Waterloo's Accelerator (under) Ring Road (of) Particles). "But when you look at the way the university is laid out, it's perfectly obvious that there's a particle accelerator under there. Why else would there be a ring-shaped road going

around campus? I mean, that's just crazy."

The accelerator, constructed some time in the 1960s, has been active since the Cold War. Breakthroughs include the discovery of the Tastyon, an extremely delicious particle.

However, in the last few years, the University of Waterloo unwittingly diverted funds for the Accelerator Centre in the north campus research and technology park to WARRP.

"The worst thing about it is that people get the Accelerator Centre confused with the particle accelerator, which are really two different things." Said Kelly. "But at least we're getting their funding, so really it works out better for us."

Repairs are scheduled for spring 2007. "You may not know the accelerator is there," said Kelly, "but it's there. Oh, it's there, all right."

## Kansas Bans Evolution



GABRIEL CHAN  
3A SYSTEMS DESIGN

Last weekend, the Kansas Department of Transportation (KDOT) announced that the Mitsubishi Lancer Evolution will not be allowed on its freeways. The spokesperson for KDOT cited concerns for the safety of traffic on its highways and possible violations of emission standards. The ban on the Evolution was welcomed by the Kansas State government, which had supported a ban on teaching about evolution in its schools last year. However, KDOT alleged that the ban on the Lancer Evolution was not related to that incident whatsoever.

Some of the residents of Kansas were delighted to hear the decision. One local

farmer noted, "After that retarded racing movie came out, I noticed a lot of young'uns toying around with their tractors. They ought to know that this ain't Tokyo and you can't drift farm vehicles. Better not give 'em any more toys to play with!" The community reverend also agreed with the ruling. "Many people these days are being tempted away from the teachings of God," said the good reverend. "The ban is a step in the right direction in teaching them not to worship fast cars."

However, some people were clearly not pleased with the ruling. A chap from a local high school said that he was looking forward to renting a Lancer Evolution for the weekend to test-drive: "Yeah, and not only that, now there's no way my buddy can test-drive his new Mustang either!" There is also evidence

*Continued on page 9, see Evo*

## Iron Insight from The Friendly Stranger



THE FRIENDLY STRANGER

**Q:** My family is clamoring for me to go visit them at home. I don't want to see them; I'm sick of them. They live in Stratford, so its not like travel time is an issue for me. How do I tell them I'm not coming home for the weekend?  
-Family Crisis

**A:** I suggest you transfer to an out-of-province school next year. Then the issue will go away. For the short term, there are a couple of things you can do. First, fake a contagious illness. No one will want you around if you're going to get them sick. However, this won't work if you have one of those mothers who will drive down and feed you chicken noodle soup. Your cover story will blow up like a bowl full of dynamite. Your other choice is to claim that you have a very heavy work load and there's no time to come home. Make up some group projects that you can only do on weekends. Pretend you have big assignments. Say you have a weekly

quiz in one or more classes. But again, be careful what you say. Some parents will say you can do assignments and study for tests at home. Your best bet is probably to make up the group assignments. You have to be at school for those.

**Q:** Where should I put my dentures while playing sports? Its dangerous for me to leave them in.  
-False Tooth

**A:** Dentures are one of the few things that people won't steal for money. They will only steal them to tease you or to annoy you. If there are people around that you don't like, put them in a backpack or wrap them up in your change of clothes. If everyone around is friendly, then you can leave them sitting anywhere.

**Q:** My pal and I were playing some baseball. He was trying out his new cup and jock. I tested it by hitting him in the groin with the bat. Now he won't talk to me, and he's suing me for physical and emotional trauma. How do I smooth this over with him?

**A:** The only solution is to stand in front of him, hand him the bat, and let him wail on you for a good hour or so. The solution has two benefits. First, it will let

your ex-pal relieve his anger. Second, it will cut your dumb-ass genes out of the gene pool. I've never heard of anything as stupid as hitting a guy in the balls on purpose. Men should not do that to each other, or before you know it, guys will be sacking each other for the smallest grievance.

**Q:** What's the best way to cook road-kill? Barbecue, baked, fried, or ground up?  
-Hungry man

**A:** Squirrels are small and so go best on a spit over an open fire (ie camp fire). Birds can be stuffed and roasted in the oven or on the Q (wrapped in foil paper for the Q). Geese get about 20 minutes a pound in the oven. Geese stuffed with squirrel you might want to give a bit more time. Anything else (and anything unidentifiable) should be ground up so you and anyone you eat with doesn't know what you're cooking.

**Q:** Hi! i'm an arts student considering switching to engineering to better myself and my future. do you have any advice for me?  
-Useless

**A:** Send in your application to the Engineering Department and see what happens. To increase your chances of being accepted, here are some tips:

1) Staple several hundred-dollar bills to your application. If questioned, say you spilled a little "grease" on the paper.

2) Call the Admissions office at least once a day, and two or three times on Friday including one call around closing time, and politely query as to the status of your application. That way, when they get to your paper, they will remember your name and how polite you are and how enthusiastic you are. Enthusiasm counts for a lot.

3) Lie. But make them entertaining lies. Because in the end, isn't that the real truth?

Once you get into engineering, make sure to sleep around with everyone you can. Its called "networking" and it helps engineers to get jobs once they graduate. And drink. All engineers drink til they drop, every night. Parties are another way to build your "network." And if you fall drunkenly into someone else's bed, all the better for your networking. I'll put in a good word for you in the Applications department.

Here's a puzzle fit for an engineer's intellect.  
**Enginoku**

HAROUT MANOUGIAN  
3A ELECTRICAL

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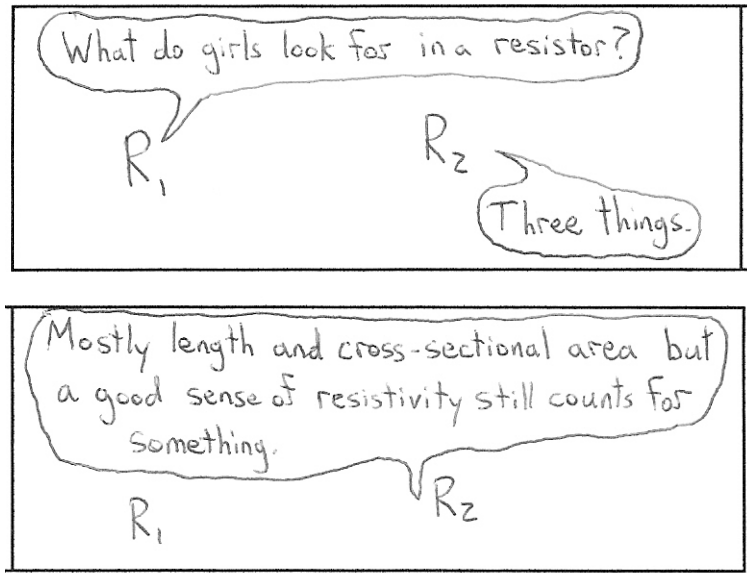
**engProfQuotes**

- “The soil will say, ‘I know that stress already, I’m not going to move.’”  
-G. Cascante, CIVE 353
- “Why are we doing these flow nets anyway, other than to draw fancy pictures?”  
-E. Cey, EARTH 458
- “Are you understanding what I’m saying or am I talking like a lawyer now?”  
-S. Chaudhuri, ECE 370
- “I walk around campus and see these little white wires coming out of everyone’s head.”  
-S. Chaudhuri, ECE 370
- “We have to go back to our mothership, which is science.”  
-S. Chaudhuri, ECE 370
- “I’ve either screwed up really, really badly or the notes are wrong.”  
-M. Collins, ECE 309
- “If you have stupid boundary conditions, you’re going to get stupid junk.”  
-J. Craig, ENVE 321
- Student: “What’s that little circle with a line through it?”  
Prof: “That’s phi. Fee. Or fie. Or foe.”  
-J. Craig, ENVE 321
- “Wait, I must be on crack.”  
-J. P. Jones, EARTH 458
- “Water is lazy, just like me.”  
-J. P. Jones, EARTH 458
- “So you can pump the water out, treat it, and haul it off-site to New Jersey where nobody cares.”  
-J. P. Jones, EARTH 458
- “And any other equations, like the equation of a circle, which you should be slapped and sterilized if you don’t already know...”  
-J. P. Jones, Earth 458
- “I don’t understand. I’m working hard yet, somehow, I’m gaining weight.”  
-A. Khandani, ECE 316
- “I smoke only cigarettes.”  
-A. Khandani, ECE 316
- “I am now getting to the point of excitement.”  
-A. Khandani, ECE 316

HAROUT MANOUGIAN  
3A ELECTRICAL

*Solution to last  
edition of Enginoku  
(Spring 06 Issue 3)*

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the **Iron Inquisition**

Philip Newman, 3A Systems Design

What are you going to do with the money you save from the GST cut?



“What will I not do?”  
- Molly Mongoose, 3B Reptile Conservation



“Get a tanning bed”  
- Bob Beluga, 1B Marine Studies



“Get some birth control!”  
-Rita Rabbit, 3A Family Studies.



“Buy a comfortable bed”  
-Steve Sloth, 4A Relaxation studies



“I’ve always wanted a second pouch”  
-Karen Kangaroo, 2B Dynamic Sciences



“Get rid of the damn swan.”  
-Waterloo park ducks, Various Terms and Programs



“Send off the ducks.”  
-Waterloo park Swan, 4B Econ



“Two chicks at the same time.”  
-Rod Rooster, 2A Womens Studies