

the IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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Waterloo Engineering Celebrates Semicentennial

DAVID YIP
4B MECHANICAL

The 50s were good to engineering. The tense political conditions of the Cold War led to both a space race and nuclear arms race. Nuclear arms got bigger and badder, starting with bombs and rockets ranging from medium-range ballistic missiles to intercontinental ballistic missiles. Not satisfied with just one nuclear warhead, multiple independently targetable reentry vehicles packed eight nuclear warheads per missile. Long-range strategic bombers (such as the B52) were designed, along with high-speed interceptors (such as the Avro Arrow) and the radar systems (NORAD) to intercept them. In ostensibly more peaceful endeavours, the Soviet Union launched Sputnik 1 - the first artificial satellite, triggering the space race.

In the University's "Sixth Decade Plan", Vice-President Amit Chakma writes: "The circumstance precipitating UW's establishment in 1957 was the space race and the critical unmet need for engineers." The space race has long been over, and new challenges have taken its place. Many things have changed since 74 engineering students gathered in some temporary tin-roofed classrooms in what would become the University of Waterloo. Our classrooms are now non-temporary, our facilities a bit more up-to-date. Female enrollment went from 0% to 15% (2005) with a recent high of 24% (2001).

We're renowned for our illustrious coop program that exposes our students to the engineering workplace. We've proven our innovation by rolling out four cutting-edge undergraduate programs in seven years (Software in 2001, Mechatronics in 2003, Nanotechnology in 2005, and

Management Engineering in 2007) which will certainly equip students, the leaders of the future, with the practical skills they need to succeed. Over 27,000 graduates of Waterloo Engineering have gone out into the world, enough to form a small army.

Of course, to commemorate our glorious 50th Anniversary, some celebrations are in order. On March 1st, the Royal York Hotel in Toronto will host this celebration. Canadian astronaut Chris Hadfield will be the keynote speaker. Says Hadfield: "I am looking forward to the 50th Anniversary celebration to meet with students and staff both past and present and to learn about the continuing groundbreaking invention being done within Waterloo's walls." Hadfield conducted post-graduate research at Waterloo in the 1980s, and was also the US Navy Test Pilot of the Year in 1991. Other distinctions include first Canadian mission specialist, the first Canadian to operate the Canadarm in orbit, and the only Canadian to ever board Mir, the Soviet orbital station. The major engineering student teams will also be present to interact with the guests, answer questions, and showcase their achievements.

University-wide celebrations have already started. On January 11th the school held a 50th Anniversary launch party in the PAC complete with tunes, a fashion show, the UW Cheerleading Team, and, of course, an Elvis impersonator. Other 50s staples such as Cold War paranoia and a fascination for all things nuclear were sadly left out (which may explain the generous use of cinder blocks and the aversion to windows on campus, a bit like a fallout shelter). Other events this year include an Outstanding Alumni Awards dinner in September, and celebrations for alumni in Ottawa, Toronto, and Seattle.



Source: Canadian Space Agency

Astronaut and former University of Waterloo graduate engineering student, Chris Hadfield



50TH ANNIVERSARY CELEBRATION WATERLOO ENGINEERING

Source: Eng-e-News



Janet Yip (1983-2006)

BRENT TWEDDLE
4B COMPUTER

Now as the night turns into day
And as the shock now fades away
We recall that girl we knew
For that is all that we can do
I'm sure she'd say we must move on
And that her memory is never gone

She would light a room with one quick
smile
Bring all together from mile to mile
She could argue till her face was blue
But true compassion was all she knew
Sized up the world in one quick glance
And always took the righteous stance

Janet Yip: So Beautiful

She charged through life without fear
And made us smile from year to year

The thing that is most memorable
That her life was
So Beautiful

It seems that everyone has a story to tell about Janet about one aspect of her life or another. Whether it was her avante-guard sense of humour, her passion for animal rights, her incredible skill at minesweeper or her dislike of poser Beatles fans, somebody has a story about it. As someone who was lucky enough to get to know her very well, I was able to see the complexity of Janet from many

perspectives. I think the biggest tragedy is that more people don't know more stories about her, because it is only once you know a large number of stories about a person that you can truly understand and appreciate their complexity as a whole. It is for this reason that I have compiled a number of stories and other works into this collection so that people can read about her life from a number of perspectives and hopefully understand just how Janet was So Beautiful.

For "A Tribute to Janet Yip",
see Page 4.

Iron Editorial: You Can Feel It in the Air

HAROUT MANOUGIAN
EDITOR-IN-CHIEF

Fifty years. Half a century. Although it may seem long to us undergraduates, the University of Waterloo is still a baby among universities, especially when compared to the centuries-old institutions in Europe. That is exactly why our school's legacy is so great. In just a short fifty years, we went from a class of 74 students studying among farms to Canada's leading Engineering university. Today, over 5000 undergraduates study engineering not only in the staple mechanical and civil varieties but also concentrate in innovative disciplines like environmental, geological, mechatronics, and nanotechnology. We also have an ever-expanding graduate program that is set to reach an enrollment of 1500 by 2010.

It was soon after the university was founded that the Elvis craze began to give way to the new hippie generation. It is surprising how little has changed since those days. At the time, the US was in a war in Vietnam despite opposition at home. Canada did not send troops to Vietnam. Today, the US is in a war in Iraq despite opposition at home. Canada has not sent troops to Iraq.

However, a disturbing similarity between the two timeframes is the tendency of our societies to neglect the environment we live in. Perhaps if the establishment had listened to our long-haired hippie parents, we would have had snow at the beginning of Frost Week. But they didn't and we are finally beginning to see the effects as several communities across Canada, Thunder Bay and Quebec City included, experienced their first green Christmas in recorded history last month.

It has been a few years now that the environment has made front page headlines and is slowly becoming an election issue. It began with the Kyoto Protocol of 1997, which was intended to reduce greenhouse gas emissions in signatory countries to pre-1990 levels. Its fatal flaw, however, was that the large population centres of China, India, the United States, and Russia either did not ratify the agreement or were not required to actually reduce emissions. Other countries, such as Australia and Iceland, were even permitted to increase their emissions by as much as 10%. Canada has long been known to be a per-capita energy hog, as would any other nation that was as cold and as sparsely-populated. We ratified the protocol in 2002, which required us to decrease emissions to 6% below 1990 levels. The governing Liberals at the time, always eager to spend taxpayers' money, had spent \$3.7 billion on Kyoto programs by August 2004. One can imagine what a difference this amount of money could have made if it was used properly. Unfortunately, however, most of the money went to publicity campaigns like the "One Tonne Challenge" and to lawyers who tried to argue that Canada deserves to be granted "emis-

sion credits" for exporting hydroelectric power and clean natural gas to the United States. They lost their case, however, and so did the Liberals when Stephen Harper's Conservatives rolled into power in January 2006. By then, Canada's emissions had actually risen to 24% above 1990 levels. Surprisingly, the scandal was not one that made headlines during the election campaign that ousted the Liberals.

Since the Conservatives took control of the government. They implemented the Clean Air Act, which was supposed to be a "Made in Canada" approach to the problem. It made no mention of Kyoto. Apparently, "Made in Canada" translated to "Take It Slowly" in oil-rich Alberta, where targets were set as far into the future as 2050. By then, preparations will have begun for Waterloo's Centennial. This time, criticism of the government's handling of the environment portfolio was widely reported and resulted in the replacement of Rona Ambrose as Environment Minister. Ironically, one of the most outspoken critics of Ambrose was the new Liberal leader Stephane Dion, whose campaign team donned the colour green during the Liberal leadership campaign to showcase the importance Dion placed on the environment. It is ironic because Dion was Jean Chretien's Environment Minister

and presided over that government's total failure on the portfolio. I suppose his team had concluded that the Canadian electorate had completely forgotten the scandal (but, admit it, you never knew about it to begin with) and that the media would not bring it up again.

In short, the environment is too important to keep quiet about. Nicholas Stern, the World Bank's former chief economist, estimated that global warming would cost the global economy an enormous \$7 trillion dollars. That is over six times Canada's GDP. In a report, he claimed pending disaster will cost more than the two World Wars and the Great Depression combined.

Thank goodness for Waterloo Engineers. This campus houses renewable projects such as STEP, UWAFT, and the Midnight Sun Solar Car. Our local Engineers Without Borders chapter does its part to ensure newly-developing nations will conquer poverty without compromising their habitat. Within Ring Road, research is carried out on wind power and fuel cell technology, in which lie the hopes of a sustainable society. If the world lasts long enough to see if Harper's targets are met, be sure that it will be in no small part due to our generation and our own baby University. Happy 50th Anniversary!

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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Send your submissions to
iwarrior@engmail.uwaterloo.ca

Apology and Acknowledgement

I want to apologize to the Waterloo undergrads. Two decisions were made and are probably very noticeable in this issue. The first is that the new Iron Warrior banner has not yet been implemented. The second is the absence of byline photos. Both were a result of technical difficulties we encountered when, to our dismay, we returned to campus to find that the IW computer's hard drive had crashed over the break. Luckily, a new fan and hard drive were put in and all our archives were recovered. The last of the necessary software was installed by the morning of the submission deadline, January 19. Thus, you can look out for these two features in the next issue.

Also, I want to acknowledge the effort

of everyone who contributed to this issue of the Iron Warrior. We received so much content that all of it, unfortunately, could not fit into 16 pages and some articles will run in the next issue. Keep it up, B-Soc! I also want to personally recognize three people who dedicated an enormous amount of time to making this issue possible. The first is Martin MacLeod, from Engineering Computing, who got us back up and running. The second is Michael Simoes, our Layout Editor, who spent 18 hours of his Saturday with me putting this piece together. The third is Mary Bland from the Engineering Society, who provided me with an enormous amount of aid and information.

a further postponement of hydrocarbon reduction to 2050. When the Committee published their recommendation, I was four months old. When the proposed implementation of reduced hydrocarbon consumption goes into effect I will be 69. I wonder if the original Committee ever envisioned long term as being this long term.

Warren Lamont
Mechanical Engineer,
UW Class of 2005

Letter to the Editor

How long is long term?

Dear Editor,

In 1981 a Parliamentary Special Committee on Energy Alternatives recommended that Canada's energy supply in the long term be directed away from burning hydrocarbons. The Committee's recommendation was based on (1) preventing

problems that could arise from burned hydrocarbon pollution (and indeed have) and (2) preserving crude oil for production of petrochemicals.

Twenty-five years later, the Federal Government is finally acting on the recommendation of the Committee by... planning

Sketchy B-Suck Welcomes The One, The Only LowRider...

LOWRIDER

4B SYSTEMS DESIGN

Dear LowRider,

Welcome to the B-Society! I've heard that LowRider only passes onto the grassy pasture of the B-Soc once in a blue moon before graduating and passing onto that place where all retired old men go...

You weren't the only new face on campus Mr. LowRider. During the first EngSoc meeting there was some big dude speaking in tongues at the back. He made the meeting really funny. I had such a great time. But a lot of stiffassed people who take life way too seriously started freakin' out. They really need to take a chill pill dude.

Anonymous 2A Management Engineering

The solution is simple. Bring BEER back to EngSoc meetings.

LR

Dear LowRider,

Oh my goodness. I'm tearing myself apart on the inside. I've had the biggest crush on this girl in Fem Eng since the beginnings of my career at the 'loo. I'm about to graduate, lonely as ever, and need to do something about it. Ungh... I have such heart ache. The things is, systems guys don't mix so well with the rest... What should I do? I need to propose to her before I graduate.

was wearing nothing but MY underwear and watching some late night softcore. COME ON man!

Anonymously Hungry

Dear Kentucky Fried Crap,

You should be greatful that your garbage disposal roomie is consuming that stuff before you can. Do you have any idea the amount of saturated-trans-lipid-composite-protein-carbon that shit has in it? Maybe if you feed enough to him he'll kick the can and you can setup a heart shaped bed with fury handcuffs everywhere in his room. Take full advantage of that groupie following. That sir, is a strategy.

LR

Dear Water Resource Engineer,

This is North America. Please flush your own shit.

LR

Dear LowRider,

So I come back to school from a hard work term only to find this sketchy a-soc guy (that just decided to move into the basement) wearing my dope sweater. This just isn't any sweater. This is a special edition sweater with gold stitching only available in the land of kangaroos and girls that talk with funny accents. What should I do? I need it back but I don't want to catch his dirty German skin disease.

Italy

Dear Super Mario,

Next time you see him wearing it, rip it off his back and bust some God Father moves on his square ass. That'll teach him not to wash sweaters before giving them back...

LR

Dear LowestRider,

Why isn't there a B-Soc LowRider?

Keeper of the Faith

Dear Guy,

[Insert Random Response]

LR

'till next time kids, keep it low.



Dear Youngin'

Yeah, I'm probably old enough to be your father for goodness' sakes. I can't wait to cash in on my pension baby. Gotta milk the system for all it's worth.

Back in my prime (oh God's has it passed already?) 4th years always caused shit in the back row. They would ALWAYS bring BEER and drink it in the back making ridiculous outbursts typically involving a megaphone or two. Don't forget your roots. We're a young, innovative school at the top of the list. We have a rich history considering our age. EngSoc meetings are becoming weak. Don't get me wrong, there is business to conduct but do it with fun. What are we turning into? Let's not go the way of lamo unnamed "engineering schools". The way things are going you'll be able to get an Engineering degree just about anywhere. Even the college down the road. Set your self apart.

Dear Terrible,

You're in my class and you're writing me this? Maybe you should write Opera instead. I'm a wee bit biased.

I'd try the old Iron Ring trick. Go woo her with your Iron Ring at IRS... Oh wait. She'll have her own. Er... I hope you look good in black underwear.

LR

Dear LowRider,

My stupidass roommate keeps eating my food! And it's not like he even tries to hide it. Just the other night I came home from Bomber with an entourage of ladies (for the night was only about to begin) and there he was sitting on the couch with a box of my cold KFC. To top it all off he

Dear LowRider,

I've heard that if I have a question to ask, you're the one to answer all my questions. I'm not aware of the protocol to follow that you guys on A-Soc follow but I'm just going to ask straight up. I'm taking this class in Anthropology this term. It has to do with the study of human behavior and stuffs. Anyways, I'm becoming very appreciative to culture of others.

Commonly on campus, I will go in to use a bathroom stall only to find it full of human feces. Once upon a time I thought it to be very appalling but now I'm beginning to think that in other societies it is common place for others to flush your poop before they use it. Am I right? Maybe they're just trying to save on UW's water bill.

Clueless B-Sucker

Have a problem? Need advice?
Email LowRider at

uw_lowrider@hotmail.com

Do You Have Something to Contribute?

Drop off your poetry, cartoons,
drawings, photos and anything else
artistic in the "Arts" box
in the Orifice, or email them to
iwarrior@engmail.uwaterloo.ca

Submissions may be published
here in The Iron Warrior, and
earn you valuable P**5 points
for your class!

A Tribute to Janet Yip



Eric Blondeel

It was a question I heard a lot after everything happened.

"How did you know Janet?"

The night she died, we sat up late sharing everything we could remember. We pieced together stories (more often exploits), and laughed through our grief despite the gravity of the unbelievable reality that had brought us together. "Remember when...?", "Janet always...?", "That one time...". I listened for hours to one account after another of her dark humour and biting wit, her kindness and unfailing passion, her courage and conviction, each from friends that knew and loved her best, all wearing matching sad smiles.

It felt like we were bringing her back to life that night, that even though she was gone we all had a little bit of her with us, and if we could only put it all together again she'd be back. But I felt like my contribution was so small... I had only one story to remember Janet by, and nothing more than the lingering expectations of future memories I had hoped would follow. So, over the days that followed when I heard the question repeated, "How did you know Janet?", I couldn't help but wonder if I had ever really known her. One thing remained clear however, I would never see her again and my life would be the less for it.

I desperately wish there was more I could share about my experiences with Janet, but I hope what little I write now can bring some part of her back to whoever hears this.

Everyone had a crush on Janet, and I was no exception. The first time I ever saw her, I'm certain I stared at her like a weirdo for an exceptionally inappropriate length of time. She was radiant, sitting across a crowded room scowling angrily at the events of a certain meeting she would later raise great protest over, winning an important victory for change.

I didn't see her again for several weeks until a mutual friend introduced us somewhat randomly at a line-up within the Bomber at UW. It was a quick encounter, and little was exchanged between us until later in the evening when I accidentally stole her chair. Upon noticing the error however, rather than offer it back to her politely, I opted instead to grin at her like an incorrigible boy. Janet at the same time, rather than politely request the chair's return, opted instead to stomp dramatically the long way around the table (so I would be sure to see the whole thing; she was a magnificent stomper). And, upon grabbing an empty chair, she marched it

all the way back slamming it down across from me. It was at this point she pointed a finger at me aggressively and began ranting about Colonialism and the Opium War (which apparently were both entirely my fault) and how they had ravaged her homeland.

I don't know if she intended to terrify me, or if she expected me to take it seriously, but I do know she didn't expect me to point right back at her and claim that I was in fact a humongous supporter of the Opium war, and that it was about time we had another one. She tried not to laugh and took a long drink to hide her smile, and we were good friends after. When the term ended, I left to work, and ECE switched streams, staying on campus. We stayed in touch, and tried to meet up again, but circumstance kept us apart and I never saw her again.

I have no doubt, that I will never meet anyone quite like her again, but I know that even with only one story, part of her will always be with me, and I can always listen to the fond stories of her friends to remember her.

Peter Clipsham

I didn't know Janet for very long, but someone who knew her for any amount of time can agree that it doesn't take much before she makes an unforgettable impression on your life. No matter how resistant or set in your ways you may be, she could write her name into you like wet cement, hardening quickly before you realize what's happening, then eternally there.

Within a month of having her in my life I looked back at past relationships as complete wastes of time. Had I known that someone like Janet existed in this world I would have been happy to wait patiently for my chance at her attention and thankful for whatever time I was allowed. She was unlike any person I'd ever met. Her personality wasn't supported by theatrics, she was opinionated, strong, beautiful and clever, but I always found that the most charming parts about her were in the subtleties; things that you'd never notice after only an hour of talking to her. You had to know her longer - she had to let you in before you'd see them; A shadow of a smile, or the way her nose would crinkle slightly when hearing something she wasn't quite sure she believed (I noticed this one first). Even when she'd talk to a group of people you'd notice these things. It'd feel as if she were sharing an inside joke, just between you and her. She'd make you feel special.

Janet was a gift to the world. I was so

lucky to have known her.

Ian Halliday

1. Meeting Janet

I first met Janet back when we were in grade 9. I had misheard her name and called her Jeanette. She completely interrupted her conversation and looked me straight in the eyes and said "My name is Janet." And then she waited.

Many of you can probably sympathize with just how nervous and scared I felt right then. I was thinking I had chosen the wrong girl to try to make friends with. I was wrong, Janet was the best friend I could have hoped for. I'm sure many of you know how good it felt to receive her approval. Some of you, like myself, may not remember what you first did to gain her approval, but I'm sure we all remember the feeling.

I was lucky enough to know Janet for nine years. I met her when she was a 14 year old who spoke with the maturity of an adult and I got to watch her blossom into a beautiful young woman still wise far beyond her years.

2. Her Qualities

All throughout the nine years I knew Janet, her character was much the same. She was incredibly bright, and witty, and had a fantastic sense of humour. She was deeply perceptive. She always remembered all the important details from every person she listened to. And she knew the right questions to ask to learn everything she wanted to know.

It almost necessarily follows that she was very strongly political. She knew her opinions to a tee, but she also left herself flexible enough to change her opinions when she learned new evidence or facts. She was always up-to-date with current events, even when she was younger.

Not only was Janet brilliant, but she was also very active in her community. She volunteered a lot of her time, and she gave more to her family and her friends. She did so many good things. Beginning in high school when she organized a World Vision 30 Hour Famine and continuing into university where, among other things, she founded a peace club, she was a councillor for the student federation. She was a regular volunteer in the Food Not Bombs group, handing out food to those who need it in downtown Kitchener. She was in the engineering society representing and standing up for her fellow classmates.

3. Sincerity and Honesty

Now, she didn't do charity work as something to put on her resume, nor something to gain attention. She did it because

she sincerely believed in the causes she was volunteering for. Sincerity is what she valued most in people.

Janet had the uncanny ability to be honest with herself. She knew when she was being vain, when she was being egotistical, when she was judging people and had no right to do so, and she was the first point it out. She even knew when she was listening to music for superficial reasons and she wouldn't try to defend it as having artistic merit. She would call it as it is, dumb catchy pop, or elevator music, but she'd still make you listen to it, especially if it'd make you dance.

Now, in the spirit of honesty, as Janet would have wanted, she didn't actually enjoy most of high school very much. Many of her friends and peers hadn't yet matured and were too busy trying to fit in instead of being who they were. Janet was beyond trying to fit in, she wanted to meet mature, serious people like herself. In university, people were finally catching up to her, and she had found what she was longing for. It was as though she were trapped in a box in high school, but once she got to university she found her way out had space to flourish.

4. Enjoying Life

But of course we all know Janet wasn't always so serious. She was the kind of person who preferred the silliness of Hallowe'en to getting the material gifts of Christmas. She was constantly making witty remarks and saying the quirkiest things. Janet knew how to spread her joy and you really felt it when you were with her. She could walk right up to a stranger and have them smiling and laughing within minutes. And if you were shy, if you needed a push, Janet was the right girl for the job, able to bring out the best in you. Not only that, but she knew how to break up tense situations and laugh at the awkward ones.

5. Personal

It was through these aspects of her character that I could truly feel at ease and could always be myself with her.

Janet, you were my closest friend, I loved you like a sister, and I love you still. Every day I wake I will miss you. You lived your life to its fullest, you did not hold back, and I will do my best to match your greatness for the rest of my days.

Bill and Claire Jenkins

We, that is, my wife Claire and I, first met Janet through an introduction by Simon Girard, a U. of Laval student doing a work term at Proctor and Gamble,

(Continued on Page 8)



POINT VS. COUNTERPOINT

Should Marks Be Automatically Disclosed On JobMine?

FARAZ SYED
3B CHEMICAL

Progressive measures are always fiercely opposed by those scared of change, so it's no surprise that a few students are raising a lot of brouhaha about the new CECS marks policy – that your marks will be automatically submitted for you in job applications. In the long run this policy can only be beneficial to students, in more ways than one.

Let's cut right to the chase here: this is being opposed by those who think they have 'bad' marks, and don't want employers to know about it. Maybe they partied too hard in first year, or just have disdain for classes and keeners in general. In any case, they would rather hide behind their colourful resume than raise their low self-esteem by working harder at school (and not partying 4 nights a week). Is this how engineers, especially University of Waterloo engineers, should act?

There's something to be said for developing professional conduct. It is no wonder that the faculty is trying to drill this

"What if we leveled the playing field by all submitting marks?"

concept into us with PDEng when many of us are so unprofessional that hiding their engineering scorecard is not beneath their personal standards. What's the expression again? Ah yes, Engineers Rule The World. Not these ones. Not the ones that run scared at the sign of a challenge. Remember the PDEng program when it was first introduced? There was uproar from the students. It was the hot topic to debate (i.e. bash) on all class websites. The anger was so thick that it actually decreased the credibility of students in the eyes of the faculty. "These are the students we are trying to bring professionalism to?" They must have been shaking their heads in disbelief. Are we bound to repeat this mistake? Think to yourself: what does it show about UW engineers when they react to a challenge in such a way? What message does it send to employers and other schools when we oppose these measures to improve us by writing articles in newspapers and on the Internet? It convinces outsiders that students just want to have fun – that school is just another place to party for us, class be damned!

The opponents of this measure will undoubtedly recite excuse after tired excuse. They will cite "common-sense", the folk-belief that "employers really don't care about your marks anyways, so why should we have to submit them"? If that's the concern then the real issue is to change employers' attitudes towards marks. Try a little experiment: if an employer receives 70 applications for a posting and only 10 submit their marks, there is no doubt that those courageous 10 would be looked upon with more of that illustrious quality known as confidence. Now what if all 70 applicants had submitted their marks? The answer to this is amazingly simply: the employer jumps to the resume to try and pick an applicant based on qualities. It's foolhardy to think that the employer has the time to sort through a database of marks. We're told time and time again since first year that employers are busy, rushed people and will look for any excuse to skip your resume. What if we leveled the playing field by all submitting marks?

Ask yourself: what is an employer's first impression when more than 50% of

applicants hide their marks? "What are you hiding?" comes to mind.

Co-op is our grand experiment. To a large degree it has been a successful experiment – today our graduates are seen as more polished, more nuanced when it comes to working in a professional environment. This is not because our marks are higher than those of other universities – believing that is just foolish. It is because over our proud 50 year history we have built solid relationships with employers (the ultimate source of co-op health). We have catered to their needs, always assuring them that the system works. It must have been amazingly difficult at first to convince the big-name companies to employ first years with only about 4 months of courses under their belt. Indeed, it is still difficult to convince employers new to the concept of co-op. It's like the financial system – if the customers lose confidence then the system is bound to collapse due to stress. In this case, jobs would become scarcer and relatively more valuable (just like inflation of money).

The point of employer confidence is paramount when faced by stories of students cheating and abusing the JobMine system. There have been cases of students withholding their marks through JobMine and inserting fake marks in their resume files. Stories like this could cripple our hard earned reputation. There's an old saying in the service industry: "if you do a good job 3 potential customers will hear about it, but if you do a bad job 15 potential customers will hear about it." We need to give potential employers good news rather than bad news. A message needed to be sent reassuring employers that the system is no longer open to such abuse, and that message was this policy. Questioning the need for such a move, in light of the above, is futile. In an age where University of Waterloo engineers are already known for being "arrogant", what message do cheating students send? In the new age of image-consciousness, not looking after our own reputation can be fatal. How does it affect our professionalism and credibility in the eyes of employers?

Other schools have implemented similar policies, and for good reason. They had the foresight to see that their system might be open to such abuse, and put an end to it (while our JobMine system languishes in the category of 'barely usable and ugly as hell'). Should the University of Waterloo, the leader in co-op, follow the example of other schools? Those scared of this measure would tell you: "no, we shouldn't – we're leaders, not followers." There is no sense in that argument. If anything, only hubris comes through in the argument. Are we so proud that we can't see the good things others do?

It should be obvious now that CECS doesn't implement measures like this just because it's good fun. In the long-run, this simplified grade submission policy will be better for us, in more ways than one. Yes, CECS is looking out for us, the students (it's primary interest). It's now our job to look after the university. My call to you now is to welcome this change. Embrace the challenge, submit those marks and show those employers just how confident you are. Look after your school and its reputation.

JEFF KAO
3B SYSTEMS

Why should forced disclosure of grades be stopped? Well first of all, let's look at the less than inspiring excuses that attempt to rationalize the injustice. (Check out <http://www.cecs.uwaterloo.ca/students/marks.php> for details.)

1. Employers are dissatisfied with the marks opt-out option, and besides, all the other schools with co-op are doing it!

The first half of this point is wholly inadequate. You can be sure that there are plenty of other things about the JobMine system that employers might be totally dissatisfied about. For some unknown reason however, CECS chose to focus on this issue over all the others.

In fact, if marks were that important to a prospective employer, why wouldn't they state in their posting that applicants must submit their marks, or else their application will not be considered? I hope that CECS doesn't try to use the result of some employer survey to back this point up. After all, of course an employer would prefer to see applicants' marks, given the option. However, I'm sure you could spare the finger strength to type that extra requirement at the end of the job posting if you really cared about the marks of your co-op hires.

Citing the decisions of other schools with co-op programs is also unconvincing. Waterloo is the best university for co-op programs in Canada, and innovators in the field. In fact, the co-operative education was running when other schools were snobbishly looking down their noses at Waterloo educated engineers, probably due to a perceived lack of academic rigour. Fifty years later shows that the past innovations have paid off. Based on history, I think that having an innovative and different co-op process from other schools is even an advantage for us, don't you?

2. There were people who cheated the system. Thats bad.

Yes, there were people who tried to cheat the system. And yes, cheating is bad. But that doesn't mean there's something wrong with giving the students an option to withhold marks. After all, if cheating was the real issue, wouldn't forcibly withholding everyone's marks be an equally fair solution? It's definitely not a satisfactory reason to drastically change the co-op application process.

The issue at hand is not a flaw in the policy, but a flaw in the Jobmine system. It's unfair to institute such a whitewashed solution affecting so many people based on a couple of cases of poor judgment and misuse of the system. And anyway, weren't the cheaters in question caught and dealt with? This time it will be much less likely to happen again, especially if a solution is implemented to protect against falsification of academic records. Analogously, there are people who drink and drive, but that's not a good reason to ban either drinking or driving. Instead, there are laws, cops, fines, and other measures in place to prevent such things while still allowing people to enjoy themselves and get around.

There are so many other solutions that can be implemented to fix the problem. It's feasible to tweak the Jobmine system to get a solution to this problem that is

more or less watertight. All it would likely take is a Waterloo co-op with programming skills, some time, and some ingenuity.

So really, the measure was neither well justified nor necessary. And there are negative and unintended consequences for some students, since provided with marks, an employer will judge an applicant's marks whether intended or not. But is this disclosure really unfair? Why is it unfair?

Firstly, there is no moral imperative for us to disclose our marks. After all, and in any resume or job application you try to show your best side, and play down your weaknesses without falsification. If you're a poor programmer, you simply don't include that fact in the resume. Why punish those who might have relevant work experience, when they may be weak in an area of study? Generally employers will request their marks if they feel they require them, but that is definitely not a standard practice. The strict rules for mark disclosure will effectively skew the results toward the individuals with higher academic standing.

But then again, forcing disclosure of marks in and of itself wouldn't be unfair, since after all we must be judged by something when we apply to co-op jobs, right?

However, to change the application process so suddenly is unjust. While this may seem like an appeal to tradition, it's in fact an appeal to your sense of fairness. For let's face it, there are students who play this giant job matching game with an understanding of the rules and variables involved, (for example, one may choose to participate in extra-curriculars at the expense of marks to add something to their resume) but to change the rules of the game suddenly and unnecessarily will only hurt people who were depending on the consistency of the co-op process. If marks disclosure was to be instituted wholesale, at the very minimum out of fairness, the marks should be forcibly disclosed starting from the point when the change is made in CECS policy.

If this is all unnecessary and unfair, then why is this still being instituted?

Well, CECS offers the following statement on their website: While UW strives to involve students in the decision-making process through the Co-operative Students Council, this recent decision to eliminate the withhold-marks option was taken out of a sense of urgency and within tight time constraints.

Well, I guess that sounds reasonable. After all, there are only a few co-op students who only pay hundreds of dollars in Co-op fees every term, and Co-op services must be too swamped to implement a better short-term solution. They probably decided to make a unilateral decision to disadvantage some students while they sort things out. Maybe it was the best they could do under the circumstances?

But this is by no means a long-term solution. Yes, given the past problems they may have a marginal excuse to take away our options for one term, but in the long run they have an obligation to return to us the choice to withhold our marks from employers if we choose to, and the obligation to give us back the Jobmine system that we had before.

ENGINEERING SOCIETY EXECUTIVE REPORTS

Come One, Come All to EngSoc Meetings This Term**JEN CARROLL**
PRESIDENT

Welcome back to B-Soc for winter 2007! I'm thrilled to be back with the rest of the exec gang for our last term in office and what's promising to be a great winter term. As some of you may have noticed, myself and Greg were off during the first week of classes attending CFES Congress in Montreal. Congress is the biggest meeting for the Canadian Federation of Engineering Students (CFES) where representatives from every school meet to discuss the future of engineering education in Canada over the next year. Waterloo had an incredible number of people in attendance with both societies well-represented through exec, delegates, representatives of CEC 2008 (which Waterloo is hosting), and CFES Commissioners.

Rolling on into the second week of the term I hope that many of you took part in and enjoyed Frost week (see an article later on in the IW about this for more details). The second week was also host to the first EngSoc meeting of the term. The meeting was, well, "spirited". The 4th years were all quite excited to be back for their last term on campus and were quite vocal in their excitement. The speaker and the exec tried hard to keep

the meeting moving along and, in the end, it wasn't too long, although there were many complaints about the noise level. I'd like to apologize to anyone who found the meeting less than enjoyable and assure you that the next meeting will be better. The first meeting of the term is always noisy because everyone is excited to be back together again and with the extra excitement of 4B this contributed to a very rowdy meeting. I encourage everyone to come to our second meeting (date listed below) with an open mind and look forward to seeing everyone there. That being said, many warnings were given at the last meeting and that number of warnings was sufficient to cover the entire semester. There will be no warnings given at the next meeting. Presenters should not need to yell and the speaker should not constantly need to call for order. Anyone who is disruptive and ruining the meeting for others will need to leave.

The dates for the rest of this semester's EngSoc meetings are Jan. 24, Feb. 7, Feb. 28, Mar. 14, and Mar. 28. All meetings take place in CPH 3385 at 5:30 pm. Dinner is always provided. Looking forward to seeing you there!

Please send your questions, comments and concerns to bsoc_pres@engmail.uwaterloo.ca.

TMA (Too Many Acronyms)**GREG FITZGERALD**
VP EXTERNAL

Hello everyone and welcome back (for most of you, to B-soc for all of you first years and some of you fourth years). The theme of this article will be to see just how many acronyms I can define whilst informing you of the recent ongoings in VPX-land.

CFES (Canadian Federation of Engineering Students): CFES hosted their annual congress at Concordia University in Montreal. Waterloo had a strong representation with 12 delegates, as well as two representatives from CEC (Canadian Engineering Competition), two CFES directors and one ESSCO (Engineering Student Societies' Council of Ontario) representative. Ideas were shared and mandates mandated, here are some of the more interesting outcomes of the week: A National WIE (Women in Engineering) Mentorship program with the CCPE (Canadian Council of Professional Engineers) and the CCDE (Canadian Council of Deans in Engineering), national charity initiative, national scholarship and internship database and established membership within CELF (the Canadian Engineering Leadership Forum, a conglomeration of all national engineering bodies of which are there are far too many acronyms for me to even attempt defining). If you are interested in any of these things, drop me a line at bsoc_vpext@engmail.uwaterloo.ca and I'll get you the specifics you need to get involved.

PEO (Professional Engineers of Ontario): The Grand River Chapter of the PEO will be coming HERE to Waterloo for their AGM (Annual General Meeting) on February 7th. Third and fourth year students interested in the EIT (Engineer in Training) program are invited to come out at 6:00 to DC 1301 to hear a talk from Manoj Choudhary who represents students at the head office of the PEO.

FYIC (First Year Integration Conference): This annual conference, hosted in part with ESSCO is being held by the University of Waterloo on Jan 26th-28th. Keep an eye out for some 70+ delegates representing engineering societies from across the province.

OEC (Ontario Engineering Competition): OEC qualifiers were recently run for both A-soc (in November) and B-soc (on Jan 13th). OEC is being hosted by Carleton University in Ottawa this year on February 7th, best of luck to all of the competitors who will be representing Waterloo at this event.

Pancakes! (Pancakes!): These delightful patties are a mixed breed of flour, water, syrup (optional) and butter (also optional). They'll be making an appearance every other Friday in the CPH Foyer, with all proceeds going to charity. Also, three pancakes for two dollars is essentially the deal of the century, so come on out!

WOW! 11 acronyms, and almost as many exclamation marks!!!! TTYL-ROFL-LMAO-LOL-TTFN Until next time.

Welcome Back to a Wicked Winter Wonderland of Waterloo Wickedness**ADAM NEALE**
VP INTERNAL

Hello and welcome back to all of you good-looking B-Soccers (remember the "B" stands for "Better")! The term is already off to a great start, and with your help and high spirits it will only be more awesome. This term is going to be a busy one, the fourth years are graduating (it's about time), EngSoc elections will be taking place (so I can get out of here and finally get some sleep), and all of the great events that the engineering society puts on every term will be offered as well.

Nominations for the upcoming elections will be taking place shortly after reading week, starting March 1st until March 9th. During this period, students can apply to take on any of the five engineering society executive positions or the position of WEEF director (WEEF is good). Each of the positions is a 16-month commitment (2 school terms, and 2 preparatory work terms), and a great opportunity to get into EngSoc up to your eyeballs. After the nomination period, campaigning will take place starting March 12th going through until March 21st. During this time, nominees will be able to make posters, give speeches, and visit classrooms to promote their platform

and campaign ideas. Election Day itself (March 22nd) will coincide with EngSoc's favourite talent show, TalEng, where the new B-Soc executive and WEEF director will be announced and perform their first official EngSoc executive duty by displaying their on-the-spot creativity in an ad-lib group performance. The new executive will be officially sworn in at the last engineering society meeting of the term.

Also in this issue there should be an engineering society survey created by the current executive. It would be amazing if all of you could fill out. We are looking for honest feedback on how to improve the society and make it and its services more open and available to all of its members. The survey is completely anonymous, but if you have a particular question that you would like one of the executives to get back to you on, we ask that you include your email so we know how to get a hold of you.

Finally, for all of you internal directors out there, if you are planning an event and haven't gotten back to me with a date yet, I ask that you please get back to me with that information ASAP. If any directors have any comments/questions/concerns please don't hesitate to contact me at bsoc_vpint@engmail.ca. Here's wishing everyone a great term, and a lot of fun!

New Year, New Term, New Novelties Shop!**CHRIS OLEKAS**
VP FINANCE

I'd like to welcome people back to school for a new term. Cutting to the chase, Engineering Society budget proposals were due this past Monday and tonight, at the EngSoc meeting, I will be presenting the budget as well as accepting donation requests. I will be accepting formal donation requests (that is a letter with a letterhead) in my mailbox until 4:30 PM Monday, February 5th. Donation requests must include a group or team title, contact information and a summary of no more than 500 words on why the group deserves the donation. The request should include a complete price breakdown for the donation. Finally, someone must give

So the Term Begins!**MARIA ARSHAD**
WEEF DIRECTOR

Hey everyone! As always for WEEF, this term started with refunds. Refunds were held on Jan 4th-Jan 19th 2007, from 11:30am-1:20pm. Therefore, by the time you will be reading this the refunds will be over. I would like to thank everyone who donated from the bottom of my heart. Everyone else, if you have donated in the past, thank you! And if you can donate in the future, please do. We will

be truly grateful. To all the students in 4B, please remember WEEF if and when you are donating to this university as an alumnus a couple of years from now.

There will be a WEEF AGM (Annual General Meeting) this term. Please look out for announcements through e-mails, posters, WEEF website, Iron Warrior etc. The proposals are being accepted now and the deadline is March 5, 2007 at 4:30 pm. Please check the website for details regarding how to submit a proposal. That's all for now, ciao until next time!

For more information, visit the EngSoc website at <http://engsoc.uwaterloo.ca/www/>

The Term Has Begun: Do You Know What Your Co-op Job Is?

MARK TRUCHANOWICZ
VP EDUCATION

Welcome back, everybody! So here we are starting off the Winter 2007 term and it's looking to be a great term all around. First off, I want to send out a huge thanks to Toni Carlisle and all of her volunteers who helped make Resume Critiques happen. They were a huge success and it couldn't have been done without your help.

Next up is Co-op. The first two postings went live on Thursday and Friday of last week, with the last posting going live today (Wednesday, January 24th). Today's posting will include jobs from the first two postings that didn't receive enough qualified applicants. So, if you missed out on a couple from the first two, don't sweat it and check JobMine today.

On a side note, specifically for the First Years, Co-operative Education & Career Services (CECS) offers plenty of informa-

tive workshops that range from learning about international opportunities to how to skillfully answer questions in interviews. You can find more info at the CECS site at www.cecs.uwaterloo.ca.

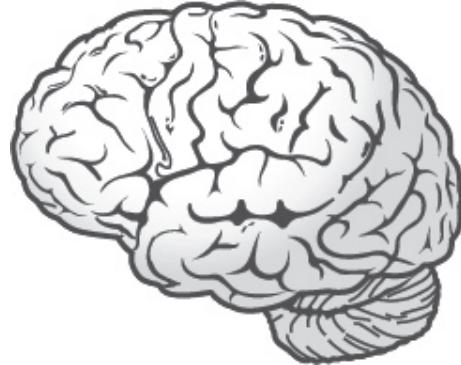
Changing gears one more time, Fran Wu is running Dancineers this term. Dancineers is a dance workshop tailored for Engineering students and their timetables. So, if you're interested in taking part, give her a shout.

Lastly, I don't have a whole lot to report on from the PDEng front this issue but check back in later issues to get more details on PDEng and how myself and other Engineering students are working together with administration to make it better. I'm always looking for feedback, comments, and criticisms on anything and everything education related here in UW Engineering, so feel free to give me a shout at bsoc_vpedu@gmail.com. Hope you all have a great term!

Genius Bowl Warmup

ALICIA LIU
GENIUS BOWL DIRECTOR

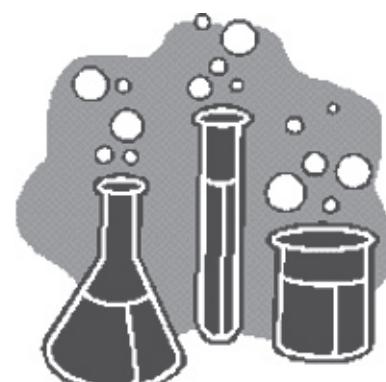
Who are the smartest engineers at Waterloo? No, we're not talking about who got 100% in Calculus last year, or who can build a circuit the fastest. No, we're talking about who knows the most about random knowledge outside of engineering.



How do we decide who's the smartest? Genius Bowl! The trivia competition held every term where anything from obscure capital cities to the most petty sports trivia are all fair game. Every class is invited to form into groups of 6 for this competition, so start cherry picking those arts minors and hardcore sports buffs right now!

As a heads up, Genius Bowl this term is tentatively scheduled for Wednesday, March 7. Until then, look in each issue of Iron Warrior for warm-up questions leading up to the main event. Who knows, questions related to these might appear in the final competition. The official rules will also be published in the Iron Warrior

Good luck!



EWB National Conference Happening in Calgary

NINA LI
1B NANO

A new term has begun, and the Engineers Without Borders is ready to take another step towards making poverty history. This year, Engineers Without Borders will be sending 34 student delegates to the National Conference in Calgary on January 24 - 27th to hear the Governor General of Canada, Michaëlle Jean, as well as several other distinguished members of the community, speak on issues of international development.

Of the 34 undergraduate students attending the National Conference, four will be going to Zambia, Ghana, and Malawi on a junior fellowship placement

to work in the areas of water and sanitation, agriculture, agro-processing, and rural energy. In addition, Sarah Lewis, our UW graduate and past-EWB president, has been assigned to a 14-month placement where she will be working in the northern region of Ghana on a number of community capacity building projects.

The national conference is a culmination of the work on campus, including presentations to over 600 senior level high school students on issues of water resources, energy sustainability, and food production and security, coupled with a public outreach and member education campaign reaching approximately 3700 individuals within the university and external community last term.

CUTC 2007: Why Isn't Everything Left up to Engineering Students?

ANDREA MYLES
3B ELECTRICAL

For all who don't know, CUTC is the Canadian Undergraduate Technology Conference. It is a conference for students, run and organized completely by students. It runs annually, and is attended by students from universities all across Canada. I attended the conference for the first time this year, and thoroughly enjoyed it.

The conference included five keynote speakers; managers from Intel, AMD, Lenovo, and Google, as well as a Professor from U of T. The speaker topics ranged from information about the companies and products to topics about the technology industry in general. I think every person in that room left hoping to work for Google one day. Did you know they will do your laundry?

Besides the keynotes, each delegate chose a number of seminars, tech shops, or tech tours to attend over the three days. The tech tours were a great opportunity. I attended the GE tech tour which packed us onto a bus, and took us out to Markham to their manufacturing plant for a tour of the facilities. The seminar and techshops were also great; they involved presenters from different companies and university professors, who discussed a variety of different emerging technologies and research projects.

The tech expo, similar to a job fair, allowed delegates to talk to recruiters from different companies including Nortel, Google, RIM, Motorola, and many more. Students were able to ask questions and inquire about future employment opportunities, as well as submit their resume. Plus, there were tons of free stuff given out by each company.

One of my favourite parts of the conference was the tech teams. For this event, we were split into different groups. I was part of the Lenovo group. Then, within this group, we were put into smaller teams of five. Lenovo presented us with the design problem to design a desktop computer suitable for outdoor use in northern Canadian weather conditions. We were given time throughout the course of the conference to meet as a team and come up with a presentation of our solution. The members of the winning team each won a Lenovo laptop!

Most engineering faculties subsidized the conference fee, so the cost was very inexpensive, especially considering the food and free swag. We were provided with breakfast and lunch everyday, and a banquet dinner on the last night. The food was superb, especially the dinner. Each delegate received a backpack full of free stuff including a water bottle, t-shirt, a sudoku book, and let's just say I'll never need to buy a pen again.

Despite the many speakers and seminars, the conference was never dull. Delegates were always moving around to different events, and the day was split up so that you were never just sitting around for hours on end. As well, the conference was held at the Hilton hotel in the heart of downtown Toronto. So, on top of the regular events, they also arranged VIP passes to several downtown clubs.

Overall, CUTC was a great experience. I learned about many major companies in the technology industry, as well as different emerging technologies and research topics. I met many students from Waterloo and other universities, enjoyed some good food, and some good times.

Upcoming Events from EngSoc

Sun Jan 21	Mon Jan 22	Tues Jan 23 11:30 IW Meeting	Wed Jan 24 5:30 EngSoc Meeting 2	Thurs Jan 25	Fri Jan 26 Extreme Sports Weekend	Sat Jan 27 Extreme Sports Weekend	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca
Sun Jan 28 Extreme Sports Weekend	Mon Jan 29	Tues Jan 30 11:30 IW Meeting	Wed Jan 31	Thurs Feb 1	Fri Feb 2 IW Deadline, 9pm	Sat Feb 3	
Sun Feb 4	Mon Feb 5	Tues Feb 6 11:30 IW Meeting	Wed Feb 7 5:30 EngSoc Meeting 3	Thurs Feb 8	Fri Feb 9	Sat Feb 10	

Memories of Janet Yip

(Continued from Page 4)

here in Brockville. Simon and his friend Catherine Cote rented our third floor apartment from May until the end of August 2006.

Simon spoke positively about our apartment when he met Janet as she visited P&G for an interview prior to starting her work term. Before long, she came around and had a chance to look at the two bedroom top floor of our two and one-half storey home. Simon and Catherine pointed out all the great features of living here. Janet asked very few questions about the apartment. She was more interested in how things worked at P&G and the social life in little old Brockville.

She explained that she was also looking on behalf of her friend Brian. "He's just a friend," she assured me, "Not a boyfriend." She left to consider whether or not to take the apartment, giving me a big smile and a fiery look from under her black cap, perched low on her forehead. After she left, I commented to Claire that she had a lot of spunk and would do well in engineering. Claire had noticed Janet's strength of character too.

Before long, she and Brian were ensconced in the apartment, working away at P&G, lugging home bags of groceries, cooking wonderful concoctions. Janet had an old Civic and Brian had a bicycle; although most days, they both rode in the car to work, leaving at 7:30 and returning about 4:30.

We listed our home for sale in early October. We had informed Janet and Brian of this possibility but assured them that it would not mean kicking them out if we happened to sell it. During the first couple of weeks of the listing, there were a number of showings that also included a tour of the apartment (with the usual 24-hour advance notice). Janet prided herself on having the place, especially her room, neat and tidy; and acted like a den mother to get Brian to make his bed and pick up his dishes that he conveniently kept on the floor of his bedroom, along with a half-eaten grilled cheese sandwich.

One time I was informing them of a viewing the next day and we had a brief three-way conversation about how small-town and gossipy Brockvillians were. Janet had been swimming at the Y. When she mentioned to a perfect stranger that she was working at P&G, the person knew all about her, where she lived and the fact that she was co-habiting with Brian. Brian piped up "Everyone thinks we're sleeping together." And they both had a laugh. I assured them that this was simply a characteristic of a very small non-university

town and that if they were in Kingston or Waterloo, no one would notice or care.

Although we would chat with Brian and Janet briefly as they carried their laundry to the basement laundry room, we did not really get into any deep discussions. Janet had applied for a passport, so we discussed that and assured her we would let her know as soon as a notice arrived about it.

"Where do you plan to go?" I asked. "Nowhere in particular," she replied. "I just want to be prepared in case I want to travel." She was a well-organized young lady.

Some weekends, Janet and Brian would scoot off to Toronto by train. They went to Kingston occasionally and Janet went to Ottawa a couple of times.

One Sunday night, around midnight, I heard a fair bit of commotion on the street. A tow-truck lowered Janet's car into the driveway. She had been in Ottawa, driving on the Queensway from Kanata toward Highway 416. She moved into the right hand lane to turn onto Highway 416 and found to her surprise that a bus had been passing her in the bus lane on the right hand side and it sideswiped her car. (She wasn't aware of the bus lanes.) Luckily, she wasn't hurt and the car simply had a few dents in the passenger side. Her Ottawa boyfriend responded to her cell phone call and drove her here. She took the train to Toronto the next weekend and I kidded her that she didn't want to show her banged up car to her parents. She said, however, that she really felt OK about driving around the city but wanted to avoid Highway 401 for now. I reassured her that she would not have any trouble.

We really did not see much of each other during the two and a half months Janet was here. One day, she was carrying laundry down and we chatted briefly. She had a toothache and was planning to have a wisdom tooth removed. Her face was a little swollen and I said the usual sympathetic things. We were dismayed when she went to the hospital and terribly shocked when she passed away so suddenly.

We knew Janet for such a short time but we could see her sense of humour, the flash of her eyes, her innate beauty. We were happy to be a friend.

At the airport as we waited to fly to Vancouver for Christmas, next to us sat a family with two young girls, waiting to fly to Vietnam for a visit to their grandparents' home. I gave the eldest one a copy of Janet's little book "Mr. Hungryman" and, in return, she gave me an autographed sheet of art work that she had prepared, duly signed "Jennifer Vo". She and her sister loved the story. Perhaps the spirit of



Janet Yip, with her wonderful, ironic sense of humour, will lighten a few more lives. We miss her and know that everyone who knew her misses her too.

Laticia Kwok

I met Janet during frosh week of Fall 2002. We lived in Village 1 residence in East 2 way back in first year. In fact, she lived a couple doors down from me on the same floor. Janet was the girl with the awesome dyed colour hair and was such a great person and very easy to talk to. Everyone got along with her in our entire residence (heck, I even remember she was the only one who was able to talk to Brian!) and if there is one word to describe her, it would have to be funky.

People often tell me that I am unusual and very unique for a Chinese girl and I believe them because my hobbies, taste in music and movies, involvement in sports, and pets I own are not what typical Chinese girls like. But Janet is the ONLY Chinese girl I know who was way more unique and I always respected her for it. She was so "funky", cool, and her personality was so intriguing, which is why she made so many friends and people found her interesting. There was never a dull moment when Janet was around. All our residence friends used to eat meals together in Village 1 and she would keep us entertained for hours.

She always had great taste in music and movies. Whenever it came time to choose movies for movie nights, she ended up picking the most unique but awesome movies. I distinctly remember her picking out the movie called Pi to watch and she made a fantastic choice.

After first year, most of our residence friends split apart, but we always had "East 2 get togethers" where we would invite all our old friends for dinners (usually Mongolian Grill) and a night of fun. Not too many people would come out to these get togethers, but Janet always made the effort to. I even remember one of my friends I knew from high school who had a crush on her and introducing them to each other. I will never forget the good times we spent together from doing nothing but hanging around in residence, our random ICQ/MSN conversations, to going out to Phil's and Abstract together, which were two of her favourite places to go because of the great music. I told her that if any guy were to treat her badly, I would kick their ass because that was the time I started tae kwon do and it was good laughs.

Even though Janet and I are not in the same faculty or on the same stream and haven't live together since first year, she was always open to talking anytime about anything! She had abstract views of the world and I had absolutely no idea what she would be talking about half the time, but that is another reason why she was so

random and so unique.

When I heard from one of my friends in residence that she passed away, I was in utter shock. Not only did I just run into one of her closest friends, Andrew, the day before but while talking to Andrew I said we need to plan another East 2 get together before the term ends, which obviously would have meant another opportunity to see Janet again. Even though we didn't hang out as much as we used to, I was immediately filled with tears and wished it was all a joke. Seeing how upset everyone is from what happened just shows how much she has touched our lives, whether we knew her a little or a lot. I pray for her family and friends in hope that we will support each other because I am sure helping one another is what Janet would have wanted. Goodbye Janet, I will miss you and will never forget you. Rest in peace.

Rajat Mathur

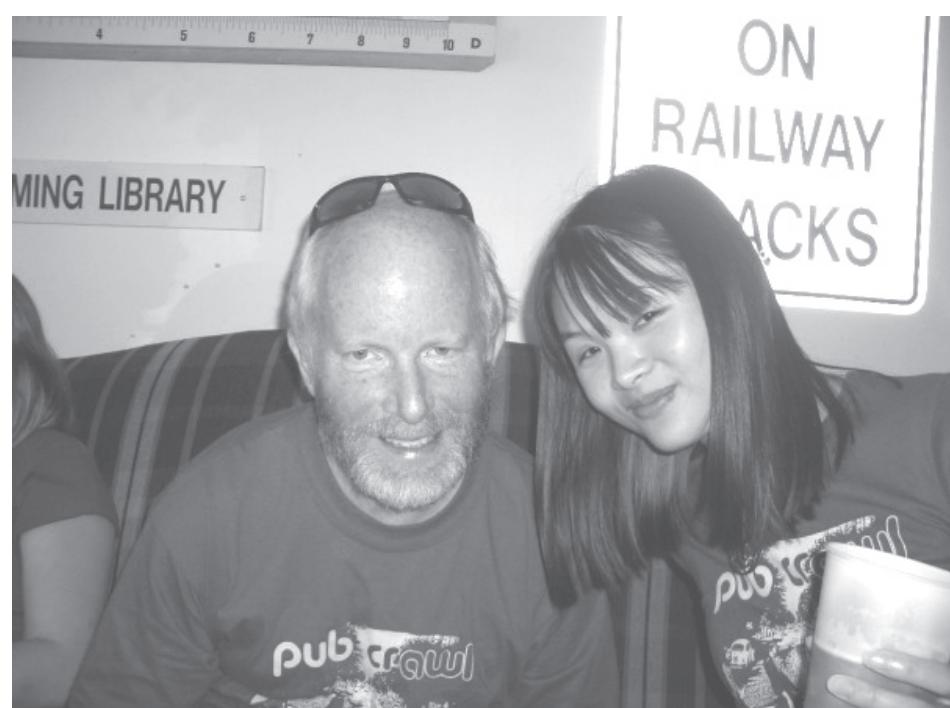
It's kind of neat when you can look back on certain moments in your life and remember the people who helped mould you into who you are today. For me, Janet was just one of those people. We became good friends in Mr. McGruther's World Religions class. Janet was the girl that sat beside me and knew a lot more about the different religions than I did. At first we were just classmates, but the more and more we talked we realized we had a lot in common. We were both very sarcastic, but in a fun and lighthearted way. Being the introvert that I had been since the start of high school, I was so intrigued that this new, random person was so open and welcoming. Before long I found myself going wherever Janet went, meeting new friends, and feeling much more confident and social. Janet may say that I helped her out with her high school drama situations that popped up occasionally, but in reality she helped me more than she could possibly know. I have many memories of her, but the one that I hold dearest is the one I encounter everyday: that of opening yourself up, being vulnerable, and ultimately receiving the greatest gift in return, friendship.

Karl Mikkelsen

Hit me like a ton of bricks. I never knew you as well I should have but, Janet, we do have a few memories. Here are mine.

I remember meeting you in the V1 cafe in the summer of 2003 when you were still in Mech Eng. I went up to you and your group randomly because I had nobody else to hang out with and I remember that you welcomed me. I remember losing touch with you for the longest time until Neil became a mutual friend. I remember your peculiar ideas and theories about politics,

(Continued next page)



(Continued from previous page)

love and romance, and maybe rolling my eyes once or twice as you shared them with me.

I remember going to the Halloween party you hosted in 2005 and having a great time. I remember a handful of us leaving it to go to Abstract, one of your favorite hangouts. I remember wearing the hat from the pirate costume you wore that night as our driver street raced 2 girls in a pink car.

More than once I remember you putting a cold beer in my empty hand. I remember inviting you to a birthday party at my friend's house where you knew no one but were excited to come with me anyways. I remember pouring you a shot of vodka while you held your glass under your chin like Oliver twist saying 'please sir, I want some more!'

I remember you inviting me to your place with the offer of booze, food and movies. I remember crashing on your couch after house parties at your place and waking up to Chinese noodles you made for me.

What I don't remember is ever meeting anyone quite like you. You'll be missed.



Eric Praetzel

Having left my teens and twenties well behind, and now as the father of twins, my understanding of life and its priorities have changed. At times like this life seems to stop and one revisits choices made.

I meet many students in the course of working as a Laboratory Instructor at U of Waterloo and Janet was one of the few who jumped out at me and will always be remembered. We talked about vegetarianism and veganism; diet and health and choices.

So many people walk thru life as a dream - eager to get to a video game or TV or movie - anything but life itself. Janet lived life. Her eyes were open. She made her mind up and worked to honour what she knew was right; because it was right, not because of personal gain or because it was easy.

Brent Tweddle

Janet stomped her foot and yelled 'You never learned nuttin from me, you are just trying to win me over with fancy rhetoric!' Although she was right about the fancy rhetoric, she was wrong in that, in only three months, she had already taught me so much.

The night Janet and I first met, at MOT, she spent a lot of time trying to convince me to come out with her and her friends and have a good time with them, when my

original plan was to just call it an early night and go home. In my own arrogance, I assumed she was trying to flirt with me but once I got to know her I realized this is how she treated all of her friends. It was through this that Janet showed me just how good it feels to be needed.

Janet had a wonderfully brilliant sense of humour that, on the surface, appeared quirky and abstract. In reality this sense of humour was in fact the product of an incredibly quick thinking mind. She could size up a situation, figure out its peculiarities and turn everything on its head with a simple quip. My favorite example of this occurred a few days after we first met, Janet and I were sitting on a bench in Waterloo Park on a late summer night. After an awkward pause in the conversation, she leaned back, turned towards me, and as a mischievous smile grew on her lips, she boldly stated:

"Don't worry, I have my papers." Completely taken aback, I shook my head and not-so-wittily replied: "What?!" Her smile grew bigger and she calmly replied: "I'm not just flirting with you to stay in the country, I have my papers you know." I think I fell off the bench I was laughing so hard. It was at this point that some guy

Janet was the center of attention that night and nobody really wanted to bother with talking to me.

When we realized that our careers would never keep us together in either the near or distant future, Janet and I went our separate ways. I never thought I'd be more sad than that morning she left for Brockville, but I guess I was wrong. But like I'm sure she did for so many others, she taught me so much. These things I learned from her I will never forget and in that way I guess she will always be with us.

Jess Voll

With the passing of Janet Yip, I felt compelled to write a short poem. It's unedited and rather rough, but the news of her sudden and unexpected passing pushed me to create something as a sign of respect.

I met Janet only a handful of times: drinking at Phil's, discussions of vegetarians, and many times at CECS as she interviewed for numerous big firms. In those brief interactions, I was able to experience her warm, off-beat, funny demeanor and intelligent, focused personality. I can only imagine the impact she had on those whom she knew for a long time.

My deepest condolences to those affected by her death, and more importantly, those affected by her life.

David Yip

It seems that my story of my first meeting with Janet is line with the others I've heard - that is to say I was a touch intimidated. We met in 1A. It was the first week of school and everyone had of course been meeting new people left and right. I had been asking people why they were in engineering, and so I asked her the same. "Well, I was good at math, and I didn't want to be in business, so I chose engineering." she said. I'm sure I'm paraphrasing a bit, but right away I knew she was someone with a cause, and as I later found out, many causes.

We never really became close friends, but she saw me get involved with the engineering newspaper, and I saw her get involved in student government and activism. She always had a knack for perceiving occasionally uncomfortable truths and bringing them to light. My last memories of her involved all these things. She'd spoken out on some unacceptable behaviour at a student government meeting, and we met once or twice to discuss how to properly publicize what happened. I saw firsthand her passion, fearlessness, and drive to set things right. She was an inspiration for me at the time, and will continue to be an example of "being the change you want to see in the world" for me, and for many others, I'm sure of it.

Jennifer Yip

When Janet was a little girl, she and her parents frequented a close friend's home where other parents would socialize while the children gathered in a common area to play.

Once, one of the children found a lighter. Each of them took turns lighting it; however, Janet refused to participate. She told the others, "I will not play with fire because mother told me it is very dangerous." The other children looked at her and laughed. One of them asked, "If your mother told you to eat a bug, would you do it?" To their surprise, Janet immediately answered "Yes! I would! Because if mother tells me to do something, it must be good for me!"

On November 10th during a visit home

for her sister's birthday, Janet and her mother had a fight due to misunderstandings. In the end, she said something that her mother will always remember. She said, "Mother, don't you know? Everything I do, I do for you."

Things I will always remember about Janet:

- When she was little, she would always refuse the offer of a soda. Instead, she would politely request a glass of milk.

- Every time a co-op job offer was confirmed, she would always take her family to the town where she would be working for sightseeing purposes. (i.e. Brockville [incl. Kingston, Ottawa, Montreal], Brantford, Waterloo [incl. St. Jacobs])

- She wanted to bring her family to all of the Great Lakes since they were conveniently located in Southern Ontario. The past summers consisted of road trips to several beaches and locations such as Sauble Beach (Lake Huron) and Port Dover (Lake Erie).

- Every May and every October, Janet would always come home for the weekend the Clothing Show is in town. We would always go together, always discuss great bargains and never go home empty handed.

Childhood memories:

- When we were little, we slept in different rooms separated by a single thin wall. Janet made up a language that consisted of consecutive knockings on the wall. The most frequently used was one knock followed by two quick knocks which meant "Good night". There was also two knocks which meant "Come to my room", unless one was already in the other's room, in which case it meant "Get out of my room".

- On our annual trips to the toy liquidation factory, Janet and I were allowed one \$50 toy that was to be shared. One year, we decided to get a mini kitchen with plastic food, cutlery, pots, pans and plates. I remember when we were getting bored of our new toy, Janet came up with a brilliant idea to start a mini café and to even design a menu. Hours were spent on what seemed to be the beta version of Microsoft Excel, and finally, a menu was created under the establishment "J & J Café". Ironically, we still never played with the toy kitchen again.

- One day, we went to a family friend's house and we were introduced to a board game called "Payday" for the very first time. We played the game and it had taken us both by surprise the amusement it stirred. When we got home, we asked our parents to buy the game for us but, of course, it was too costly. So Janet decided to make her own version of Payday out of construction paper. It took roughly a day to draw and design the board and to write out all the payday cards and when it was finished, we played it once and never again. (The game is still in the closet, stored inside an old cardboard box for computer speakers).

Her good deeds/volunteerism:

- 30 Hr Famine for World Vision; She gathered a bunch of high school friends (and me) to participate in the 30 hour famine and raised a couple hundred dollars!

- I remember a time when she would deliver bread and other foods to those in need.

- I remember when Janet was researching and contacting local politicians about sending the OAC textbooks to third-world countries when OAC was taken away.

- Janet was the stage manager for the Canada Day celebration in Waterloo.

And I will always always always remember when she told me, "It doesn't matter if you did something right or wrong because I will always be on your side."

Grown-Up Bullying

JENN BLACK

4B CIVIL

We all remember the school yard bully from back in public school (or at least the television stereotype) - the taunts, the confiscated lunch money, the intimidation, the after school fights... Just because we don't get recess anymore doesn't mean such characters are but a distant memory. The grown-up bully may be lurking around your office waiting to pick on those smaller or weaker. But instead of actual brawn, the grown-up bully uses things such as authority, intra-office connections, and superior experience to push people around. Lacking most of the intimidation tools that the grown-up bully wields, new hires and co-op students may be particularly vulnerable to workplace bullying.

Workplace bullying can take many forms including constant unwarranted criticism, undermining your self-worth, being put in situations where you feel you have no choice, uneven work loads (too much or too little), being singled out, being treated differently, and being humiliated in front of others. Each occurrence may seem trivial or inoffensive but over time these incidents can have a serious impact on your happiness and even your mental health.

Bullying is a form of abuse and should not be tolerated. Unfortunately, in Canada, there is no clear legal path when dealing with workplace bullying. Quebec is the only province with legislation regarding bullying; there is a section on "psychological harassment" in the province's Labour Standards Act. In Ontario, the Occupational Health and Safety Act states that "employers must take every precau-

tion reasonable in the circumstance to protect the health and safety of their workers in the workplace" including protection against "risk of workplace violence." Workplace violence is defined as use or attempted use of intentional physical force that results or may result in physical injury to an employee. Threats that give an employee reasonable grounds to believe he or she is at risk of physical injury are also included in the previous definition. However, unlike the physicality of the school yard bully, the workplace bully finds ways to operate within the company rules.

There are three ways to deal with bullies. The first way is to ignore them; bullies gauge how well their tactics are working based on your reaction. If you ignore their schemes, they are likely to move on to another target. The second technique for dealing with bullies is to confront them. If someone is making you feel uncomfortable, let them know. When the bully knows you are onto him, he can no longer operate under the guise of unwittingly harassing you and may leave you alone. Finally, if neither of the above methods work, the last way to deal with bullies is to report them. The key is not to run to the boss for every little incident; it may give people the impression that you like to call wolf. Instead, document every suspected incident over a certain time period in order to present a solid case against the bully and make sure your discomfort with the situation is remedied.

So at your current job or your next job be sure to do your best. Assert your self-confidence, be sociable, don't be afraid to talk to your boss, and gather as much experience as possible. Eliminate the things that can be used against you and you can avoid being the target of a grown-up bully.

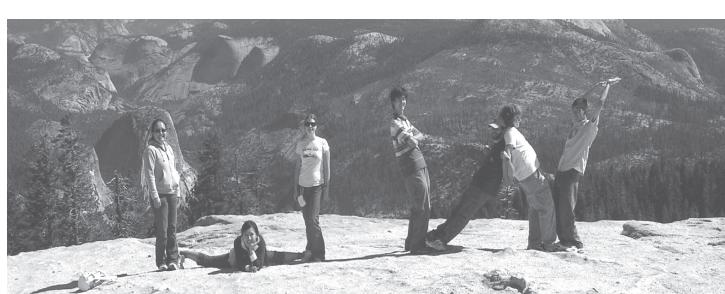
that but they turned out to be awesome roommates and friends.

The second downside was being so far away from all of my friends. The work term usually gives me a prime opportunity to spend time with my friends without the worries of getting behind in my academics. Living in California made it a little difficult to catch up. But being far away from my close friends also gave me a chance to meet and hang out with a lot of new people. Many of the interns at NVIDIA would travel together on the weekends and most of us became good friends. Together, we got to visit many tourist attractions including Yosemite National Park, San Francisco, Santa Cruz, Monterey Bay Aquarium, and Six Flags Marine World. A lot of the interns also went to Las Vegas, Los Angeles, San Diego, and Mexico. I think the traveling was the highlight of our experience but it did come at a cost.

I think, though, that most of the companies in California compensate you well so you can afford to spend a little money on enjoying the beautiful scenery that America has to offer.

Considering that I was in the northern part of California, I didn't exactly get the experience I had always dreamed of, since it wasn't always hot like I had imagined. I also had to work 10am to 7pm on weekdays. I guess my job is what consumed most of my time.

In the end, what it really came down to for me was that I really liked my job and the company that I worked for and that's what made the experience worthwhile.



UW students at Yosemite National Park

Charities are Important

AMANDA HOFF

3A MECHANICAL

At CFES Congress earlier this month, I had the opportunity to attend a session on EngSoc Charity events. The session really drove home for me the importance of us, as engineering students, actively supporting the charities in our community.

As future members of a professional organization, engineering students do not always present a professional public image. The analogy used in the session was "Engineering students are to society as baseball bats are to baby seals." The reality is, although our attitudes and public image are evolving over time, engineering students are not traditionally the greatest models for society. We have a reputation for holding "questionable events", general rowdiness, and having a problem with authority figures.

EngSoc charity involvement is a very important tool in changing these perceptions. Charity events forge an important

communication link between us and the community, and we essentially become "members of the community", as opposed to just "the students". Including charities in our everyday events can also provide an essential link between what we do as an Engineering Society and the outside world.

Unfortunately, it is also far too easy to wrap ourselves up in our busy student lives and forget about the outside world, not caring about the community or the world outside of our campus. However, all too soon we are all going to be joining the "real world", and as such it is important not to lose what small links we have with this "real world".

I encourage each of you, in whatever large or small way you can, to get involved with charity events in this and upcoming terms. Buy pancakes on pancake Fridays. Come help out with the Bus Push this term. Have a new idea you want to implement? Contact the EngSoc Exec or the Charities Directors and make it happen!

of course, it would be rude for me to turn that down.

We went through some current issues, while going through the Papal wine collection. As the Chief Systems Administrator of Vatican City, Benedict XVI reiterated his opposition to the DaVinci Coding methodology, which was covered by IW in Volume 27 Issue 6. Next, we moved on to more controversial topics.

IW: "I was at the Vatican's cluster of embassies the other day. Why does the Holy See continue to recognize the Republic of China as the sole legitimate government of China when the rest of the world recognizes the People's Republic of China. I mean technically, Taiwan belongs to China..."

VA: "Actually, we think China belongs to Taiwan. [chuckles] Who overthrew the last Emperor of China? And go read the constitution of the United Nations and see which country is one of the founders of the UN and has a permanent seat on the Security Council. You won't find 'People's' before the 'Republic of China' on there."

IW: "But look at the reality of the modern situation. Don't you think the Vatican is a bit out of sync with the rest of the world?"

VA: "We do what is right. We believe the Republic of China is the legit government."

IW: "Apparently, 1.3 billion people do not think so. Not to mention 87% of the United Nations also does not think so."

VA: "Just because everyone else does something does not make them right to do it."

Time was just about up and he commented that I spoke German quite well for a Chinese. I corrected the Pope, telling him that I was a Canadian citizen and commented that he spoke German quite well for a Bavarian. The Pope corrected me, telling me that he is a Vaticani citizen. After another strong handshake and exchange of Tschüss & Ciao (and Merry Christmas, of course), we were off.

It was indeed an honour to spend Christmas morning chatting with the jolly German Shepherd of The Church. Not to mention taking time out of his preparation for the annual Christmas address to the public. I joined the crowds at Saint Peter's Square to listen later at noon. The Pope sure did have lots to say. It must have been all that Weißbier.

A Beer with Benedetto

GABRIEL CHAN

3B SYSTEMS



Gabriel and a Swiss Guard in Rome, at the Vatican

This year's Christmas was an engaging experience for me, which I chose to spend in Vatican City, the smallest nation on Earth. Using my press pass from Iron Warrior, I was able to persuade the Swiss Guards to let me meet the Pope for a little bit to request his special blessing for us UW engineers living in virtual hell. I offered to publish his message through our newspaper.

Despite having stayed in the middle of Italian- and Latin-speaking Vatican City for such a long time, he was still 100% Bavarian. In typical German fashion, Pope Benedict XVI greeted me with a "Grüß Gott!" and a very firm handshake that probably crushed every bone in my hand. He asked me to take a seat and what I would like to drink. Happily, I asked for some warm Glühwein, while he settled for a maß of Hofbräu Weißen (quick conversion to SI units: 1 maß ≈ 1 L).

The Pope was unfortunately unable to grant my request. Hell is not in the jurisdiction of the Vatican, but he did encourage UW engineers not to give up. After all, he reasoned, UW engineering is not a perpetual hell, because there is light at the end of the tunnel (I think he is referring to IRS & graduation). Although unable to offer anything to the poor souls in hell, he was still able to offer me more wine. And

Warm Reception for Frost Week

JEN CARROLL
4B MECHANICAL

I'd like to start this article off by thanking everyone who participated in Frost Week! For those who aren't aware, Frost Week took place during the second week of January and the point was to hype everyone up for the Winter term.

Frost Week started out with Meet the Tool Again Day and gave people a chance to learn about the Tool and about engineering purple. Lots of purple dye was dispensed to those who were willing and for the rest of the week there were many purple people (some more faded than others) roaming the halls. Tuesday was to be Build Your Own Toboggan Day. However, the lack of snow resulted in a lack of participation, but we still saw three of the EngSoc exec building toboggans. Wednesday was

an indoor event with Duct Tape sculptures that saw some civil engineering creations as well as replicas of video game controllers. Thursday, with actual snow on the ground, three incredible snowmen were built in the CPH courtyard. I hope many of you made it out to see them before the rain saw them disappear. Friday was the last day of Frost Week and actually began on Thursday evening with participants kicking off a game of Bigger, Better, Best. The highlights from the finale on Friday included a bar fridge, five reservations at the estaurant at the End of the Universe, and an unopened PlayStation game.

Thanks to all who participated throughout the week. I hope everyone enjoyed it. This was a new event for us so I'd love to hear some feedback from everyone on what they liked, didn't like, etc. about the week. I'll pass the feedback along to the next Prez with hopes that they might be inclined to run the event next winter. You can contact me at bsoc_pres@engmail.uwaterloo.ca.

K-W: Knitting Wool

CHRISTINE STEELE
2N MECHATRONICS

Some of you reading this article may recall hearing last winter about a bunch of rather dedicated knitters, who decided to take up the woolly version of the Olympics. I unfortunately was unable to participate, being on-stream at the time (I'm crazy, not stupid), however I followed the progress of several knitters who participated due to wonder of knit blogs. One of the knitters I participated vicariously through was the originator of the idea – one Stephanie Pearl-McPhee (a.k.a. The Yarn Harlot), a blogger and writer who has managed to become well known not just in knitting circles, but among some people who can't tell knitting from crochet.

In addition to chronicling her adventures in yarn on her blog (www.yarnharlot.ca), the Yarn Harlot has written three books of knitting humour and advice with a fourth on the way, and, by giving talks in person, shares the same quirky outlook that makes her blog and books so enjoyable. On Tuesday January 9th, the KW Knitters' Guild hosted one such talk, and I joined the mob of non-members who came out as guests to enjoy the delightful evening.

After opening by declaring that she was not cool (ask her three teenaged daughters, they're on her side in that one), the Yarn Harlot proceeded to spend the rest of her talk proving that statement wrong. Even those of us who weren't knitting were in stitches as she talked about knitting, and how to fit it into every part of a busy life. Her talk covered such wide-ranging topics as tips for dealing with and converting non-knitters ("muggles"), projects she has made and loved (and hated), and balancing knitting with the less interesting parts of one's life.

One part of the talk that will interest those people who are reading this far in the article more out of a need for something to do in class than a love of knitting came at the end. We were treated to a philosophical explanation of why people knit. There are many reasons that people knit, and a lot of stated reasons are nothing more than a rationalization of the inexplicable urge to pick up needles and yarn and cast on just one more project. As we were told, there is something very fascinating about the process of turning string into a sturdy fabric using just a pair of pointy sticks.

It's more than just having one more hat, or pair of socks, or we would go to the store and buy them for less than the yarn costs. It's more than just having something to do on academic term, or else I'd be doing homework & getting better grades. It's not even getting to play with wool, silk and other cool materials, although I suspect that may be enough for my boyfriend. What the Yarn Harlot saw, and managed to share with the rest of us, is that it's for a sense of personal accomplishment. Just as anyone who plays a sport can feel they have done well, they have accomplished something, whether they won an Olympic gold medal or finally managed to get the ball over the net, any knitter can enjoy having made something, whether it be a bridal shawl, or a lumpy first scarf.

And if you want to test that scarf theory out, come find me in POETS some time (I'm the one with the pointy sticks who is tethered to my knapsack.)



ENGINEERING NOVELTIES

ALUMNI SHIRTS	40.00	WINE OPENERS	5.00
BASEBALL CAPS	15.00	BEER STEINS & PILSNER	10.00
CHILD & YOUTH T SHIRTS	10.00	BELT BUCKLES	20.00
COVERALLS	60.00	BOBBLE HEADS	15.00
FLEECE (CRESTS)	50.00	CD CASE	10.00
FLEECE VESTS	35.00	CERAMIC MUGS	10.00
LADIES RINGER Ts	30.00	CLOCKS	20.00
LADIES TOPS	20.00	DISC CASE	10.00
LADIES V NECK	10.00	DOME SCREWDRIVERS	2.00
HOODIES & POLO SHIRTS	35.00	KEY RINGS	3.00
MENS		LARGE NALGENE BOTTLES	15.00
& LADIES LONG SLEEVED	20.00	LARGE TOOL KITS	15.00
MENS RINGER Ts	35.00	LICENSE PLATES	5.00
MENS WINDSHIRT	40.00	MOUSE PADS	5.00
MENS RACE TS	20.00	PATCHES	5.00
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SWEATPANTS	25.00	POETS BEER STEIN	15.00
REGULAR T SHIRTS	15.00	SCREWDRIVERS	4.00
THICK KNIT TOQUES	15.00	SHOT GLASSES	6.00
TIES	24.00	SMALL BEER GLASSES	2.00
		STICKERS	1.00
		TAPE MEASURES	10.00
		TRAVEL MUGS	15.00
		WATER BOTTLES	7.00

COME IN AND SEE SOME OF THE NOVELTIES WE HAVE!!!
HAVE A GREAT NOVELTY IDEA?
EMAIL BSOC_VPFIN@ENGMAIL.UWATERLOO.CA

Top Five Resume Tips

TONI CARLISLE
3B MECHATRONICS

It's that time of year again! Jobmine season! Resume Critiques sessions have been running for the past week and first-year and upper-year students alike have been prepping their resumes for the summer co-op hunt. So as the EngSoc director of Resume Critiques, I thought I'd share the Top 5 suggestions for creating or updating your resume. In no particular order:

1. Make sure the content fits the job

Sports are great, but unless you are looking to be a pro badminton player, make sure athletics is a bonus to your personality, not your whole life. You may have a lot of skill with computers, but if you are not going to be applying to a desk job, perhaps stress your leadership or interpersonal skills instead.

2. Make your resume different

Format, format, format! MS Word templates look great. That's why everybody uses them. Take the format and make

it your own with new fonts, underlining or different headings. On that note, however, using too many fonts or heart bullets might look messy and/or unprofessional.

3. Don't regurgitate acronyms

This one is for those people concerned with having all those computer and software acronyms somewhere in their "Technical Skills" section. Don't get carried away! A resume in all caps not only looks overdone, but it also shows that you haven't customized your resume to the job to which you are applying. Try to only list software you think will be applicable to the position.

4. Keep track of white space

Although having impressive content is uber-important, so is that blank space. Employers will be "reading" dozens of resumes. So keep important information near the front and keep it as short and concise as possible without sounding like a robot.

5. Brag!

The resume is all the employer knows about you. Unless you brag about your best qualities, achievements, and skills, they won't know about it. This may seem obvious, but many people downplay their awards, involvement in community service, or even course projects and labs. Employers may not know that your labs prepare you well for a career unless you tell them, so spill!

As much as we all enjoy preparing for job searching and interviews, it is co-op that differentiates Waterloo from other schools, so take advantage of the services offered. If you would like to learn more about constructing a resume, Career Services has both workshops and reference material available at <http://www.careerservices.uwaterloo.ca>. Good luck to all of you with your applications and interviews!



Stephanie Pearl-McPhee (The Yarn Harlot)



Graduating... A Guide to Know Wha' Gwannin'

RISHI LUKKA
4B SYSTEMS DESIGN

So here we are. It's the 4th week of school and I can't believe 4B is flying by. What is exciting however is that we are down to the 20s in our countdown to getting our Iron Rings (28 days as I write this article)! So this is intended at being an information piece to all 4th year engineers about what is happening this term and some dates & info for you!

Remember if you do have any questions regarding the Engineering 2007 Graduation Committee: please send an email to the chairs!

1) Gradcomm Chairs
- Andrea Rayner (aerayner@gmail.com)
- Paul Paquet (pepaquet@gmail.com)
- Ryan Harris (rd2harris@gmail.com)
- Rishi Lukka (rlukka@gmail.com)

2) Gradcomm General Meeting
- Wednesday January 25th @ 12:30, POETS upstairs

3) Gradcomm Slave Auction
- Thursday February 8th 11:30-13:30 in POETS (email Rishi to be a slave!)

4) Iron Ring Stuff (you should have received an email with this information)

- Temporary Warden Forms Due: Friday February 2nd
- Information Session: Will be attended by the Wardens of Camp 15 and you will learn the history of the ring – Tuesday February 6th
- Iron Ring Fitting: Tuesday February 13th
- Iron Ring Ceremony: Friday February 16th
- Iron Ring Stag: Friday February 16th (tickets sold in the CPH Foyer)

5) Grad Ball

- Saturday March 24th @ Bingemann's

- Tickets sold in CPH foyer everyday at 11:30-13:30

6) Gradcomm Pizza

- Sold in the CPH Foyer Wednesdays at lunch 11:30-13:30

7) Pub Crawls

- Friday January 26th
- Friday February 9th
- Friday March 16th

8) Yearbook

- Send in as many pictures as you can to submit.grad07.photos@gmail.com
- Sold in the CPH Foyer with Gradball and IRS tickets

9) Convocation

- Saturday June 16th @ 10:00 & 14:00



There are also a ton of other fun things going on, so make sure you pay attention to your emails to ensure you know what is happening. You can also join the Graduates email list which will make it easy for us to communicate information to you! (send a blank email to: uw_eng_007-subscribe@yahoogroups.com)

Anyways, have fun with your 4B... it's going to be LEGENDARY!

JOHN OLAVESON
4B CIVIL

Michael Faraday was an English natural philosopher. He was born in Newington Butts, a subdivision in London, England, on September 22, 1791. His father James was a blacksmith. James sent Michael to school, where Michael learned how to read, write, and do some arithmetic. The young Faraday was apprenticed to a bookbinder. This apprenticeship gave Faraday access to all sorts of material, including texts on topics of natural philosophy, and especially chemistry.

His position as a bookbinder offered Faraday another opportunity to explore chemistry. A client of the bookbinder offered a seat to lectures by Humphry Davy. Faraday was so enthralled by these lectures that he prepared a series of notes and presented them to Davy. When the Chemical Assistant at the Royal Institute (an organization dedicated to disseminating scientific knowledge) had a row with the Instrument Maker and was dismissed, Davy appointed Faraday to replace the Chemical Assistant.

Soon afterwards, Davy and his wife went on a tour of Europe's scientific centres. Faraday was recruited to travel as Davy's valet (Davy's passport allowed for him, his wife, a maid, and a valet). Faraday was exposed to some of the leading ideas and experimental techniques of 1820. Faraday went on to be an innovative experimenter.

Michael dabbled in many fields of science. He worked with the Instrument Maker to create a better steel for making tools. He liquefied chlorine gas (now used in tap water). He discovered benzene (now used in the petroleum industry in the manufacture of styrene, resins, and other oil-based products). He designed a ventilation chimney for lighthouses to carry the smoke away from the operator. The chimney was also installed in Buckingham Palace.

Faraday spent most of his time experimenting in electricity and magnetism. In 1821, Faraday developed an electromagnetic rotator that could be adapted for use as an electric motor. In 1831, he discovered the properties of electromagnetic induction (moving a magnet around a coil of wire to induce an electric flow; he also noted that moving a coil around a magnet had the same effect). Induction is the method used today to generate power and operate transformers. In 1831, induction opened up electricity as a viable power source (instead of using steam).

At about this time, Americans were trying to develop a power system for public transit vehicles. Early attempts to use electric power failed as the voltage was inconsistent and the physical connection to the overhead power system kept breaking. Faraday's work solved the problem of steady power, and a spring-loaded arm kept the connection to the power cables intact. Thus, he helped invent the streetcar, which helped move people through the congested streets of industrial revolution-era cities. Streetcars are still operated in cities like Toronto and San Francisco using the same principles that Faraday developed.

He was challenged at a lecture to repeat one of his early experiments in magnetism. The repeated experiment had the same results, but Faraday was inspired to set up a new test. He exposed a piece of glass between two magnets and found that the glass aligned itself between the two. Further experiments followed this, and Faraday reasoned that magnetism was inherent in all materials. These experiments also proved the existence of magnetic fields, which evolved into Field Theory.

Faraday, for whatever reason, never developed mathematical models from his experiments, but he was a very well-spoken man, and was recognized with an appointment for life as the Fullerian Professor of Chemistry at the Royal Institute.

Sandford Fleming Foundation
E2 3336, ext 84008, sff@engmail
www.eng.uwaterloo.ca/~sff



WELCOME BACK

The Waterloo Campus Committee of the Sandford Fleming Foundation maintains an active awards program at the University of Waterloo. The value of awards and other programs of benefit to students during the 2005/2006 academic year was over \$47,000. The Foundation will provide many grants, prizes, awards and scholarships during the present academic term. Funding for these events comes from engineering student contributions and depends on them for continuation.

Technical Speaker Competition

Department Competitions will take place until February 2nd. Please check with your class representative for the exact date of the competition in your department. Winners from the departments will participate in the Faculty Competition on **Thursday, February 8 at 10:00 a.m. in DWE 2534**. The winner of the Faculty Competition will receive \$300 while all other participants in the Faculty Competition will receive \$50.

All students are invited to participate in the Department Competitions. The presentation should be based on a work term experience, including one or more satisfactory written reports but not necessarily the most recent report. If you are interested in participating, please pick up an information package from your department's undergraduate officer.

Murder of Editor Causes International Uproar

HAROUT MANOUGIAN
3B ELECTRICAL

On January 19, 2007, Hrant Dink, founder and editor-in-chief of the bilingual Turkish and Armenian daily newspaper, Agos, was shot three times in the head at point blank range outside his newspaper's building entrance. Dink, had been selected for several awards for his journalism and advocacy of freedom of speech. In 2005, Dink received a six month suspended sentence under Article 301 of the Turkish Penal Code for "insulting Turkishness" for publishing editorials about the Armenian Genocide. Other figures who have spoken publicly about the issue and have also been charged under this controversial law include Nobel laureate Orhan Pamuk and novelist Elif Shafak. Dink had been receiving increasing amounts of hate mail and death threats in recent months. "The assassinated journalist had complained in a letter that he had received no response from authorities after he had told them about threats of violence made against him," the Turkish TV network NTV reported.

As news of the event spread, various international bodies issued statements of their reaction. EU Enlargement Commissioner Olli Rehn said, "I am shocked and saddened by this brutal act of violence... [Dink] was a campaigner for freedom of expression in Turkey." Amnesty International said, "This horrifying assassination silences one of Turkey's bravest human rights defenders."

Reporters Without Borders expressed that "The Turkish government must weigh the extreme gravity of this crime and ensure that a thorough investigation identifies those responsible as quickly as possible." The Canadian Embassy in Turkey also remarked "We deeply regret the tragic killing of Hrant Dink, a respected journalist and human rights advocate. On behalf of Canadians, we extend our deepest condolences to his family and friends, and express our strong hope that his murderer will be brought to justice as quickly as possible."



Hrant Dink (1954 - 2007)

The government of Turkey condemned the murder but the Armenian National Committee of America, a lobby group based in Washington, D.C., had the following to say: "Hrant Dink's murder is tragic proof that the Turkish government - through its campaign of denial, threats and intimidation against the recognition of the Armenian Genocide - continues to fuel the same hatred and intolerance that

initially led to this crime against humanity more than 90 years ago."

In July of 2006, after Dink's attorneys were assaulted in the very halls of an Istanbul courthouse, the Armenian Students' Association of the University of Waterloo had hosted a booth in the SLC about freedom of speech violations in Turkey, outlining those facing prison sentences for criticizing the government's stance on the Armenian Genocide and occupation of Cyprus. The government of Turkey still denies that the state-ordered execution of 1.5 million Armenians during World War I constitutes genocide, despite countless third party scholars who have concluded otherwise. Due to their public denial, the legislatures of various countries,

including Canada, have passed motions to affirm the Genocide and remember the victims. Today, Turkey keeps its border with Armenia closed and the two countries do not have diplomatic relations. However, Armenian President Robert Kocharian has stated that he supports the immediate opening of the border with no pre-conditions.

As an Armenian editor-in-chief of a newspaper myself, the recent event is especially disturbing to me. It is a reminder of the freedom we take for granted in Canada and only motivates me to be more vocal about issues that matter.

Prayer services were held last Sunday at the Armenian Churches in Cambridge and Toronto. Also, a vigil will take place at Queen's Park on Thursday, January 25.

Working Off Those Holiday Pounds

JEFF KAO
3B SYSTEMS DESIGN

The holidays are a time of celebration. We have reunions and parties with family and friends that we haven't seen in ages. We may go to those once-a-year dinners at the house of some extended family member we've never heard about, and eat huge portions of turkey, stuffing, desserts or even (my favourite) HAM! And of course, at the end of the holidays comes the New Year, and with the New Year, we'll develop a whole new list of (possibly repeat) resolutions that we'll eventually neglect to keep.

One New Year's resolution that's at the top of many people's lists is the decision to get fit. After all, it's hard not to feel guilty following the orgy of gluttony and over-consumption of alcohol that North Americans use to mark the sacred days of certain major religions. Unfortunately,

getting enough exercise is also one of the hardest resolutions to keep. All too often people regard exercise as a chore. They may think that it's not worth the cost, boring, and a hassle. And heck, who has the time to exercise when they're at school, anyway?

While it may definitely be a bit of work to look into the options that we have on campus to shed those holiday pounds, the possibilities really are endless! The variety of choices for fitness enthusiasts at Waterloo is overwhelming and you'll definitely never be bored. And as for the cost concerns, you can relax, because you've already paid for them! In fact, the fact that you've already paid for these facilities would make it a travesty NOT to take advantage of what's already available.

An activity that I've been enjoying lately is swimming. It's a great full body workout that puts little strain on

(Continued on Page 15)



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We have exciting career opportunities in Software Development, IT Programming and the Engineering Leadership Program.

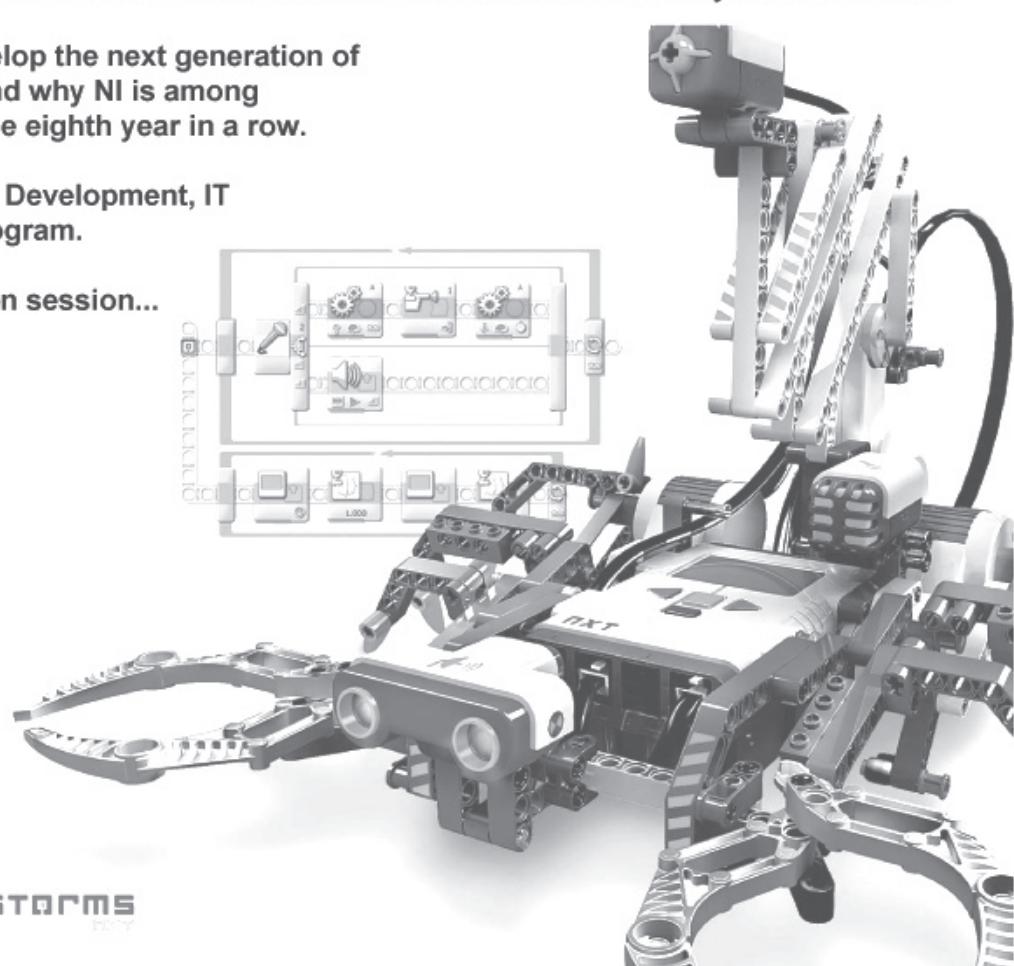
For more information please attend our information session...

February 7, 2007
7:00 pm - 9:00 pm
University Club - Burgundy Room

... or look for our postings on jobmine soon.



MINDSTORMS



SPORTS

Canada 3-peats Gold Medal at the World Junior Hockey Championship

MICHAEL SIMOES
3B CHEMICAL

The IIHF World Junior Hockey Championship in 2006 took place in Sweden. In the two previous years, Canada went undefeated in North Dakota and Vancouver under Coach Brent Sutter. He drove home a message to Canada's young hockey talent, not to take a shift off. This year, with the tournament being played across the Atlantic, where Canada has struggled to perform, the same message was drilled into them by Coach Craig Hartsburg, the assistant coach with Brent Sutter.

Eleven players from the gold medal win in Vancouver returned, most notably five returning defensemen, where Canada only allowed 6 goals against. All pres-

sure was on Team Canada, the top seeded team in the tournament to perform at the same level and the same grit as they have in previous tournaments. With Montreal Canadians goaltending prospect Carey Price getting the starting role, he had big shoes to fill, no Team Canada Junior team has won a gold medal abroad without an MVP goaltender.

Again, Canada went undefeated in round robin play, beating host Sweden 2-0, USA 6-3, Germany 3-1, and Slovakia 3-0. Going undefeated, they had a quarterfinal bye, and looked to the semifinals where they would face the US squad. The semifinal game brought to it excitement and anxiety, with Team Canada down a goal in the third. Luc Bourdon, a Vancouver Canucks defense prospect took a bullet knuckle shot that beat the US goaltender, Jeff Frazee.

The game went to overtime, and Team Canada was outplayed by the Team USA, spending the majority of it short one man. Carey Price stood on his head, and brought the game into a shootout. Jonathan Toews scored three times on three different shots in the shootout to lead Team Canada to victory. They would have to face the only other undefeated squad, Team Russia, in the championship.

For the third time, Canada's road to a gold medal would have to go through an explosive Russian squad, with an offense and defense matching Team Canada's. On Friday, January 5th, Team Canada would score three goals in a 2:27 span late in the first period. Andrew Cogliano, Bryan Little, and Jonathan Toews were the three goal scorers. In the 2nd period, Brad Marchand would put Canada up 4-0. The

Russians started to play aggressively, and Team Canada sat back and the Russians scored twice, but that was it, giving Canada their 3rd gold medal in three years. Carey Price was named the tournament MVP allowing only 7 goals against, and Jonathan Toews had the game winning goal.

With a country behind them, 22 young men came to Sweden with one thing on their mind: winning the gold for the third time. With a strong defense, an offense that was explosive when the time required and a goaltender that has come a long way from the previous year, the goal was met. In another year, Canada will have another goal on their mind in the Czech Republic, to win the gold for a fourth time and remain undefeated. For now, the team will proudly say that Canada is still the best country in junior hockey.

Waterloo Engineering Showcases Its (Not So) Athletic Side

BAHMAN HADJI
3T COMPUTER

The first week of January saw delegates from Undergraduate Engineering Societies across Canada come together in Montreal for the annual Canadian Federation of Engineering Students (CFES) Congress, hosted by Concordia University. It was a week filled with discussion, learning, workshops, and plenty of politics, but there were also fun evening activities planned by the organizers.

One of the evening events was a soccer tournament held at Soccerplex Catalogna, a domed sports complex with artificial turf. The delegates were split up into 12 teams in three divisions, with players from each team coming from the same region (for example, there was a Central "Maniskatchewan" team with delegates from the University of Manitoba, University of Saskatchewan, and University of Regina). Waterloo however had its own team due to the fact that it had the most delegates there of any

school, as a result of having two Societies and active members within CFES and the Canadian Engineering Competition.

After having their plan to decorate the backs of their shirts with "#1 (According to Maclean's)" foiled by not being able to find a permanent marker, team Waterloo started the night with a match against a team from the West, consisting mainly of University of Victoria and University of Alberta delegates, who came prepared with their own custom soccer jerseys. The match was fairly one-sided in favour of the West as they jumped ahead to a 1-0 lead, but that didn't keep Waterloo from getting on the score sheet. Waterloo's star of the night Evan Murphy (3B Computer) headed a cross right into the net; unfortunately, the net was their own, making the final score 2-0.

Waterloo bounced back with a strong second game against team Windsor and was the better side for much of the match. However, their remarkable skill at being able to miss the net from anywhere on the field and failing to convert any scoring

chances had the match at a scoreless tie going into the late minutes of the game. This was when the referee blew his whistle and motioned towards the Waterloo net. A penalty kick was being awarded to Windsor because Waterloo had nine players on the field, while the rules called for only eight. How much of the game was played with nine players and how much that had to do with the fact that they outplayed Windsor will never be known. Windsor easily converted the kick, and Waterloo lost 1-0 not because they played a bad game of soccer, but because, oddly enough, they couldn't count.

After a rest, a depleted Waterloo squad faced off against team Ottawa, represented by Carleton University and the University of Ottawa, in their final match (Rene Marchand (3B Electrical) was one of the dedicated few who opted to miss this match in order to write motions for the following day's plenary session). At this point, their main goal was to come away from Congress having scored just once. And it happened towards the end of the

game, when Evan delivered a magic strike that went past two defenders, through the hands of the goalie, and into the net. It was his second goal of the night, and the first into the opposing team's net. A celebration at midfield followed. Unfortunately, there were still a few minutes left in the game, and Ottawa kept pressing, unlike Waterloo, who, content with having scored, had all but given up. The game ended in a tie after Ottawa scored an easy goal on a 3-on-0 against the goalie, leaving Waterloo out of the playoffs with two losses and a draw in three games.

It was a very fun night for all who participated and even those who watched from the sidelines. In hopes of doing better in future soccer tournaments at Congress, team Waterloo is planning to be prepared by working out a mathematical model of the game ahead of time to optimize their plays and maximize their goals scored. It's the Waterloo way.

(See picture on next page)



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**Congratulations to the following winners of the
2006 Teaching Assistantship Excellence Awards**

Emre Celebi, Management Science
Flora Li, Electrical and Computer Engineering
Yuseph Montasser, Electrical and Computer Engineering
Andrew Prpich, Chemical Engineering
Mohammad Yaser Azizi Tarkanpour, Electrical and Computer Engineering
Christina Wei, Mechanical and Mechatronics Engineering
Mark Whitney, Mechanical and Mechatronics Engineering
Di Zhang, Systems Design Engineering

Please consider recognizing your TA by nominating them for this award. Contact the Engineering Undergraduate Office or the Engineering Society Office for nominations forms.

Funding for these awards comes from engineering student contributions and depends on them for continuation.

An organization devoted to the advancement of engineering education.

Backstroke to the PAC

(Continued from Page 13)

the body, and for those of you who have accumulated some extra fat tissue over the holidays, you'll be less dense, which makes swimming easier and thereby more enjoyable. As a side benefit, it is generally recommended to take a quick shower before and after a swim. If you're feeling lenient, this could be counted as two showers, which for us engineers could last us for more than just a few days. It's a time saver that can be a great motivator to get fit at the pool, especially for those of us who share shower facilities with too many other roommates to shower on a consistent basis.

On campus, the swimming facility free of charge for UW students is located in the PAC. For those concerned with the hassle, it's actually extremely convenient. In fact, all you have to do is bring your swimwear and show up!

There is a towel service available for swimmers as well. All you have to do is swipe your Watcard, take a fresh towel for your use, and re-swipe upon return of the towel. Lockers can be rented for the term to contain your swimwear, goggles and other gear, or a combination lock can be brought to lock up your valuables. The

pool is open for all users during rec and fitness swim times, with certain lanes designated for swimmers of different levels, so you don't have to be concerned that the level of swimming will be too advanced or not advanced enough. During the rec swim time, the diving board is also available for use, in case you get bored of just swimming. There's even a sauna room, also free of charge!

For those who desire a little more structure in their exercise activities, Campus Rec also offers swimming, scuba, and NLS instruction. While sign-ups are generally finished at this point in the term, I hear they will still accept late-comers based on availability. Sign up at the Athletics Office, PAC 2039 8:30am-4:30pm on weekdays.

The swimming facilities are one of a number of great ways to get or stay fit at Waterloo. For more information, the website for Campus Rec: Aquatics can be found at: <http://www.athletics.uwaterloo.ca/CampusRec/Aquatics/AquaticsHome.aspx>, and the detailed weekly pool schedule found at

<http://www.athletics.uwaterloo.ca/Facilities/Schedule.aspx?SiteId=1&FacilityId=3>. Good luck working off that holiday ham, and I'll see you at the pool!



Nick Dymant, Stephen Tufts, and Jen Carroll on the sidelines at CFES Congress soccer night

ARTS & ENTERTAINMENT

POETS Movie Challenge!

JASON SHIRTLIFF
MATTHEW TSE
NATASHA POUNDER
POETS PROGRAMMERS

This term your POETS programmers have decided to spice up the afternoon movies by holding a movie challenge with PRIZES! It's simple: you show up in POETS and check out the three movies playing that day. The movies will have a common link in some way, shape, or form. All you have to do is guess the theme and enter your guess and your name/contact info on a slip of paper and put it in our challenge box (which will be in POETS).

Do the Write Thing!

Come to the Iron Warrior meetings held every Tuesday at 11:30 in CPH 1323B.

Then, the first name we draw at the end of the afternoon with the correct answer will win a \$10 gift certificate to the Novelty Shop.

When: Every other Wed
Where: POETS
What: Prizes
Who: You
Why: Because

Also, every Monday, we will be showing the episode of 24 from the previous week to get everyone psyched for the episode that evening! Jack's back and this season will not disappoint!

If you have any questions, comments, ideas or movie requests, email any of the programmers.

See you in POETS!

Fass 2007: Every Sin is Silly

DAN ARNOTT
3B ENVIRONMENTAL

Anger. Sloth. Greed. Pride. Envy. Gluttony. Lust. Now that I have your attention, I'd like to tell you more about these seven silly sins. That's right, not deadly, silly. Waterloo's FASS Theatre Company (acronym for Faculty, Alumni, Staff and Students), is taking an ambitious and satirical stab at human nature itself this year, as it presents FASS 2007: The Seven Silly Sins, directed by Rob LeGood.

FASS is a remarkable fixture at Waterloo. Year after year, they write,

"They've been doing it non-stop since 1962"

rehearse and perform a full-length musical comedy, taking it from script to stage in under a month. Even more remarkable than this, they've been doing it non-stop since 1962, the year Waterloo turned out its first graduating class. Now in its forty-fifth year, FASS is going as strongly as ever and shows no signs of slowing down.

This year's production will take on each of the so-called deadly sins one after the other, with typically hilarious results. I don't want to say too much (read: go see it yourself!) but if you've seen a FASS show in the past, you can probably expect there'll be pirates somewhere. Showtimes are: Thursday February 1 at 8:00pm, Friday February 2 at 7:00pm and 10:00pm, and Saturday February 3 at 8:00pm. Tickets are \$8.00, or \$6.00 for Thursday night. Shows are in the Humanities Theatre in Hagey Hall.

POETS Movie Schedule

Mon Jan 22	Tues Jan 23	Wed Jan 24	Thurs Jan 25	Fri Jan 26
Episodes 3 & 4 of 24 The Sentinel A Few Good Men	Insomnia One Hour Photo Death To Smoochy	MOVIE CHALLENGE	Godzilla Vs. Gigan Godzilla Vs. Mechagodzilla Godzilla Vs. Monster	Batman Begins Superman Fantastic Four
Mon Jan 29	Tues Jan 30	Wed Jan 31	Thurs Feb 1	Fri Feb 2
Episode 5 of 24 Enemy of the State Fugitive	Clerks Clerks 2 Jay and Silent Bob	Jumanji Mrs. Doubtfire Flubber	Swordfist Face/Off BeCool	Beerfest Old School Dazed and Confused

Enginoku

HAROUT MANOUGIAN
3B ELECTRICAL

Engineering is all about being able to think yourself through a problem that you may have never seen before. Good luck working your way through this one. The nine characters are listed below:

w p q η t̄ t̄ p̄ d̄

		p̄	t̄			q̄	w̄	
t̄			p̄		p̄	t̄		
		q̄	d̄			p̄		
p̄			η̄	t̄		d̄		
w̄		t̄			p̄		η̄	
d̄			q̄	p̄				w̄
p̄		d̄	w̄					
p̄	d̄		t̄			q̄		
w̄	p̄			q̄	d̄			



the Iron Inquisition

Teri Leung, 3B Systems Design



"Snowboarding"

Bernice Chan, 2A Systems



"Eat It"

Tricia Enns, 2A Systems



"Face wash an arts prof"

Jay Peterson, 3B Electrical



"We're foreign and we're not supposed to survive snow."

Yan Ma & Aditya, 2A Mechatronics



"Nothing special."

Syed Salman, Civil Grad



"Make it yellow (after Unit 36)"

Alex Chik, 2A Environmental



"Put it in the fridge."

Ginger Yen, Grad



"Melt it for countries without water"

Neil Norris, Mechanical Grad

Prof Quotes

"Soils may be dirt, but they are not stupid."

-G. Cascante, CIVE 353

people for everything but didn't really care what they thought."

-R. Kroeker, HIST 252

"What do we have in this plot? We have a line that is really, really amazing. You will not believe this!"

-G. Cascante, CIVE 353

"I know some of you couldn't comprehend the existence of a self-excitation process."

-K. Nigim, ECE 362

"If you walk up with your piece hanging out of your coat, which I often do, they can refuse you."

-J. Casello, CIVE 440

"At least your nation wasn't founded in blood. Well... beaver blood but who cares?"

-L. Smith, ECON 102

"We have one dC/dt and one dC/dx . We don't know how to solve it. We scratch our heads and make pouty faces."

-J. Craig, ENVE 321

"It's not about failing the course, ladies and gentlemen. It's about failing life itself."

-L. Smith, ECON 102

"Feel the PDE!"

-J. Craig, ENVE 321

"They make the machines that go whir

- that's the mechanical engineer."

-J. Straube, CIVE 507

"So when you've forgotten Laplace transforms, when you don't know what a Green's function is, when you can't even integrate x squared anymore... don't laugh, it'll happen."

-J. Craig, ENVE 321

"Water goes through brick like poo through a goose."

-J. Straube, CIVE 507

"By the end of this course, you should be able to integrate [points to weird shape on board] this chicken!"

-A. Elkamel, CHE 321

"Water - that's the wet bit in moisture."

-J. Straube, CIVE 507

"[Free radicals are] kind of like someone who's been in the wilderness for two years and is looking for company."

-P. Huck, ENVE 375

"The statement is: screw you and pee on the environment." (on the architectural statement that the Tatham Centre makes)

-J. Straube, CIVE 507

"I'm like Augustus. He went to the