

the IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

VOLUME 26 ISSUE 13 | WEDNESDAY, NOVEMBER 2, 2005



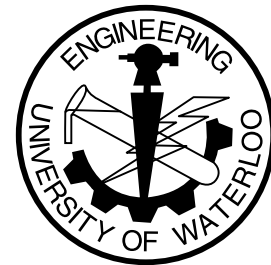
Brick beers reviewed!

Page 4



Morris dancing in Galt

Page 5



EngSoc Executive candidates

Pages 7 & 8

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Bill Gates Entertains, Inspires at UW



...and a fanatical devotion to Bill! Left to right: Greg FitzGerald, Steve Tufts, Andrew Rizkalla, Ben Wahn. Photo by Mark Truchanowicz



FRANCIS HOPE
4N ELECTRICAL

As many of you are aware, Bill Gates came to Waterloo and had a conference on October 13, 2005. I was fortunate enough to be one of the people to get a ticket to the event and it turned out to be more entertaining than I thought. However, if you did not get a chance to see the conference in person, you could have had a chance to see it projected in DC.

The conference started out with an introduction by the President of the University of Waterloo, David Johnson, followed by Bill Gates talking about how Microsoft was formed and their vision of what the software industry should become.

Namely, an industry that makes software that can fit a variety of hardware, which is mass-produced and sold cheap, which is the way that the software industry is run today. He also talked about how this vision was formed and how the company developed over time.

Next was an entertaining skit with Bill Gates himself in the movie *Napoleon Dynamite*. In it, he teams up with Napoleon to help fix the computer system of the company that he is working for. You can download the skit at "http://digg.com/links/Bill_Gates_Napoleon_Dynamite_Video_Download".

Afterwards, he showed what everyone came to see: a display of some of the cool new technology that Microsoft has been developing. This included the X-Box 360 and some cool new technology that showed an amalgamation of image recognition technology and cell phone technology. You could put down a business card

on the desk and it would automatically read the card and upload the information to the cell phone. Very cool. Finally, the presentation ended with question-and-answer session. It seemed like all the questions in the question-and-answer session were very wishy-washy, and some of them seem to be sucking up directly to him, such as the question "what personal characteristics do you feel lead to your personal success?"

However, there was one question that I thought was very interesting. This was where do you think that we should draw a line in technology? Bill responded that there are some frontiers that we should be wary of, especially when technology starts to become more intelligent than us (i.e. Artificial Intelligence). I find this answer very interesting because it raises the question as to whether we should be responsible for the technology that we create, even if it has unforeseen implications that we do not readily see. How do

we know what lines we should cross? For example, artificial intelligence may be a line that we know exists because the mass public has thought of the implications of this kind of technology through movies, books and general discussion. But what about technology that we do not know the full implications of? For example, when the printing press was first created, who at the time knew that it would completely reform the way of exchanging ideas and information, which would lead to a large change around the world, similar to the way that the Internet has? Might some of the technologies that we create do the same thing, and are we responsible for this? Could the creation of a card that holds all your personal information be hacked, leading to people having all their personal information and their identity stolen? This is an interesting question for the future, and we should in some ways be wary of where we tread.

Impact Conference Comes To Toronto

ANDREW DILTS
IMPACT MEDIA RELATIONS DIRECTOR

Canadian students interested in entrepreneurship will soon have the opportunity to join their UW predecessors in attending the year's largest student-run event in entrepreneurship.

The annual Impact Conference on entre-

preneurship will be coming to Toronto on November 18 and 19. Entirely student run and organized, the conference brings together 300 students from coast to coast to meet, learn, network and be exposed to job opportunities.

The conference's keynote speaker will be Harry Rosen, founder and executive chairman of leading menswear chain Harry Rosen, Inc.

Also speaking will be Bill Tatham, an entrepreneur who sold his tech start-up company Janna Systems for a Canadian record of \$1.76 billion to rival Siebel Systems in 2000.

Unique to the Impact conference that it offers students the opportunity to sit down with conference presenters, conversing with them and asking questions in intimate environments: during meals, between conference

sessions and at after-hours social events.

In addition to high-profile speakers, students will have the opportunity to meet passionate, ambitious like-minded students from across Canada, all interested in the subject of entrepreneurship.

Continued on page 3- see 'Impact'.

Rest well, Rosa, and thank you.



DAN ARNOTT
EDITOR-IN-CHIEF

First off, as always, a reminder that the Iron Warrior needs new blood. If you're at all interested or the slightest bit curious, come by CPH 1323B or e-mail me at iwarrior@engmail.uwaterloo.ca and we'll talk about what you can do for the IW and what the IW can do for you.

Last Monday, October 24th, the world lost one of the few true revolutionaries it had left. Rosa Parks, a veritable mother of the American civil rights movement, passed away after a lifetime of working for the interests of equality and, one December day in 1955, making a statement that sounded the death knell for segregation.

Having grown up in the American south in the early 1900s, Parks was no stranger to rampant racism. Half a century after the American Civil War and the abolition of slavery, southern Americans had still not adjusted to the fact that African-Americans were people too. The so-called 'Jim Crow' laws, a set of ridiculous statutes, were intended to enforce a state of segregation which essentially prevented African-Americans from doing many of the things you or I would do daily. People of African-American descent had to yield to white motorists in traffic, use separate washrooms and drinking fountains, refrain from showing affection in public, and sit at the back of public transit vehicles- that's just the tip of the iceberg. These laws were enacted in the southern states to attempt to take away any sort of post-Abolition freedom which African-Americans were now entitled to enjoy. The Jim Crow laws were the spiteful revenge of white Southerners who resented the loss of a vast source of their income via slave labour. Is it surprising that many Americans in positions of power still care about money far more than actual people?

Being immersed in such a culture of

bigotry, one might think it easy to overlook and get on with one's life. Not so. You know how sometimes other faculties will pre-judge you just because you're an engineer? Imagine that, but far worse. Imagine it permeating every aspect of your life. Imagine it restricting the things you're able to do, the places you're able to go, the things you're able to learn. On December 1, 1955, Rosa Parks was fed up with it.

Taking a city bus home from work, she and three other black passengers were instructed to give up their seats to white passengers. The others complied- Rosa did not. She was summarily hauled off the bus by the police, fingerprinted, charged with disorderly conduct, and jailed. A few days later she was found guilty in a trial that lasted 30 minutes, and fined \$14. She decided to appeal her conviction.

Rosa once said that the more you deferred to unfair treatment, the more oppressive it became. Outraged at the treatment of Mrs. Parks, who was one of Montgomery, Alabama's finest citizens, and inspired by her example, the African-American community in Montgomery boycotted the bus system for 381 days, beginning three days after her arrest. Eventually, the practice of racial segregation on buses was deemed unconstitutional, and the court order reached Montgomery in December of 1956.

This was not without its price. Throughout the boycott, civil rights activism had been met with hostility by much of the white community. Black churches and homes were bombed and burned and the activists themselves often met with violence. Even when the bus boycott ended, the violence continued. Dr. Martin Luther King, a proponent of civil rights, was one particular target, and any integrated buses were targeted by snipers and rabble-rousers.

But the issue was out in the open, and before long, the equality of all human beings became more of a legal reality. The 1950s and 1960s saw immense changes to the laws and thinking of the American people, and many of the issues which Rosa's act of civil disobedience

brought to the forefront were summarily dealt with.

It is too early to congratulate ourselves, though. Racism is still rampant, in our thoughts if not our laws. This is often aggravated by religious differences as well, as can easily be seen in the world events which have transpired since four Septembers ago.

And we needn't pat ourselves on the back because we're Canadian, either. Although we never had any Jim Crow laws, per se, we still sent thousands of our citizens of Japanese ancestry to internment camps during the Second World War in a display of shamefully fascist behaviour.

Even here at Waterloo, we can see that racism is still around. Being such a culturally diverse school should open our eyes to the essential humanity of our friends and colleagues of all races, but this is sadly not always the case. Meaningless grudges and indoctrinations, sometimes so old that they are utterly baseless, still stalk us and obscure our vision. But this, of course, is completely needless and a waste of our energy.

We are all human here. To use the term of the day, we are 'One Waterloo', but more than that, we are one Canadian people and one human race. As important as it is to maintain our cultural identities, we must do so without infringing on the rights of others. This is absolutely essential, and it can be done. Rosa Parks showed us that.

Therefore it has been put to us to fight discrimination and segregation in all its forms. If we do not actively identify and challenge racist and discriminatory thinking, we might as well be enforcing the Jim Crow laws ourselves. Acceptance of an unjust situation, complacency in the face of tyranny, is loathsome and unacceptable. Yet the action we take doesn't have to be violent. The simple refusal to accept an obvious injustice not only suffices, but is often the most and only effective means of causing change. Rosa Parks demonstrated that, and the world is better off for it.

Hell, we're engineers. We're certainly familiar enough with integration by now.

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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Impact: Student-run entrepreneurship conference

Continued from page 1.

The weekend conference will also feature workshops, breakout sessions and a silent charity auction. One conference highlight is a case study competition, pitting teams of participants against each other, challenging them to come up with the best solution to a real-life entrepreneurship problem.

Gaining in popularity, this year will see the University of Waterloo send the entire Management of Business, Entrepreneurship and Technology (MBET) class to attend the conference as a mandatory part of their program. In addition, UW's department of graduate studies has announced that it will be offering two separate \$5,000 scholarships for the MBET program to this year's Impact attendees.

To date, Impact's list of confirmed speakers also includes:

Michael Hughes, Canada's Networking Guru

Barry Bison, President of Shad International, Canada's program for science, technology and entrepreneurship for gifted high school students

Kevin Aguanno, Author and Senior Project Manager for IBM Canada

Many more! Complete up-to-date list available at impactconference.ca

The conference serves as a flagship event for Impact, a student-led organization committed to promoting the educational and professional development by allowing them to explore and learn more about the entrepreneurial world. Founded by students at the University of Waterloo in 2003, Impact's mission is to foster innovators, thinkers and economic movers, to stay competitive in a global economy.

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GIS Day

EVA DODSWORTH
UNIVERSITY MAP LIBRARY

GIS Day at UW
Wednesday November 16th, 2005

To coincide with worldwide GIS Day events (see <http://www.gisday.com>), the University Map Library and the Faculty of Environmental Studies will be hosting an afternoon of GIS Day events on Wednesday November 16th, between 12:00 - 3:00 pm in the ES1 Courtyard and the adjacent seminar room ES1-221.

All UW students, faculty and staff are invited to participate in celebrating GIS Day. Learn what GIS is and how it can be used in both your academic and personal lives. Stop by to view the poster gallery, GIS projects and other geospatial and departmental displays. Learn and engage with UW staff, students and faculty about their projects in this area, and vote on your favourite GIS poster to help choose this year's GIS Day Poster winner.

Hear a talk about the Map Library's geospatial data resources, the kinds of research your fellow faculty and students have been working on, and learn about the types of software you can use for viewing and manipulating data.

Door prizes and light refreshments!

For more information and to register please visit <http://www.fes.uwaterloo.ca/gisday/>

COMMUNITY EDITORIAL

Galt, boring? Yes, but...

PHIL COWLES
COMDEV (CAMBRIDGE)

When The Record described student's views last weekend, most of us locals had already noticed the drunks, the tarts (six rounded up by the cops recently) and the aimless talkers. Apart from Theatre Cambridge, the annual Millrace festival and events at the library, there really isn't much going on. The shops are odd, not particularly practical (how many knick-knacks do you need?), and the pubs are odd and overpriced- in two cases you're paying more than downtown Toronto beer prices.

There is hope. There is Morris Dancing across the road. I know: "Whattheheckisthat?"

I was trying to explain it to a colleague earlier this year and I was going through the usual rigmarole about how it started as a tradition from North Africa 'Moorish', was then adopted by the French courts, only to be perverted by English peasants (of which class I am a proud card-carrying member). Then I stopped and said "you know, last year I had a quite unfair amount of fun". That sums it up best.

'The Morris' goes back to before written history. Shakespeare ('Henry V' Act 2, c. 1600) and Chaucer both mention it as though it was an established fact. But beyond that, if someone tries to be more precise, suspect BS.

It's a dance; formal and not social, typically done by a set of 6, to 4/4 folk tunes. Unlike ballroom dancing, you can just turn up and join in. I danced with 'Sunset Morris' in Santa Monica last year ("Yo! I'm in town can I come round...").

Dress is varied and ranges from formal cricket whites to the wild tatter shirts that Border' sides prefer. Bells, ribbons and oddities are pretty much common. Also, there is a kind of 'Morris' attitude that allows us to do this on our own high street in full view of friends, neighbours and colleagues. Of course, it's true that some people just don't get it, we have one (anonymous) VP who steadfastly sat in the pub pretending that we weren't there- quite a trick.

The tradition is purely English,

nothing to do with those boring Celts. We dance 'Cotswold', from the Oxfordshire area, and other genres come from near the Welsh border ('Border') and the northeast and northwest of England. But they're a bit strange... Clog, Molly and Sword dances are also generally associated with the Morris.

It's also quite vigorous. I've been a cyclist for many years, and a good dance makes me puff. The dance sequences are quite complex and involve either sweeping or flicking hankies or bashing sticks. In between, there can be elegant (hopefully) crossing moves or figure-of-eight 'hays' and general tearing about. I learnt the tango in a couple of weeks, but getting reasonably good at the Morris took over a year, a milestone signalled by Dance Fore agreeing that my 'left foot count' had gone from about 17 to four.

It's a 'living tradition' in that we continually invent stuff. Also, it's quite universal, in that there are many US 'sides', mainly centred on the university towns on the East and West coasts: Princeton, Boston, Baltimore, New York, Los Angeles, San Francisco, etc. (and yes, there is an S&M side in San Francisco), Toronto has a few var-

ied sides; Toronto Morris Men, Belles of York, Toronto Women's Sword, Green Fiddle, and Orangepeel from Orangeville; we're nominally from Hamilton: 'Cold Barn Morris'.

In Cambridge, we practice and teach at 'The Terraces' in Queens Square, opposite the School of Architecture, on Wednesdays from 8 to 10. Even the timid can apply, as the classes are really supportive. None of us is critical of failure as we remember it so well. Once you've learnt a few dances, we will encourage you to come out with us. Kit is provided free, as is your first beer.

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Further reading:

Our web site is: www.coldbarnmorris.ca.

MIT site: <http://www.mit.edu:8001/people/jcb/morris-teams.html>

The Morris ring: <http://www.themorrisring.org/>

Shave the donkey: <http://www.capers.co.uk/donkey/>



Shad Valley International Celebrates 25th Year At Waterloo



GABRIEL CHAN
2B SYSTEMS

Forty or so high school students will be checking out UW on Thursday, October 27, but more specifically, they will be checking out the best faculty in the best university in the world (read: us). These are not any regular kids; they are participants of the Shad Valley summer program, which has been held every July at various Canadian university campuses since 1981 (UW has hosted Shad since its conception years). Co-ordinated by Greg

Fitzgerald, UW Engineering is offering tours of the campus and showcase of its student teams, including Midnight Sun, Alternative Fuels Team, Formula SAE, Aerial Robotics Group, etc. Additionally, the 25th anniversary gala and an extended edition of the RBC Shad Entrepreneurship Competition (RoBaShEnCo) is being held at Waterloo Inn.

Shad Valley International is the chief entity behind the Shad Valley program. Shad Valley offers a sample of university life to some of the brightest and enthusiastic students across Canada, where participants attend workshops and lectures regularly, while involved in design projects. These projects eventually evolve into a competitive form on a national level as the Shad campuses aim

high at the RoBaShEnCo, a showcase of unpatented projects designed to solve a very open ended problem, yet business strategies and marketing tools also need to be considered. One project is brought forward from each Shad Valley campus and will be competing based on criteria for the prototype, video, website, and business plan. These projects are comparable to 3rd- and 4th-year projects in UW Engineering (in concept, not in complexity). Some Shads get one-month internship placements at partner companies (a sample of co-op). Shad Valley has an extensive network of 8400 alumni, including 16 Rhodes Scholars. Shad alumni have shown largely to be highly successful in life, holding leadership roles in all sectors of the economy.

Iron Warrior Exclusive: Brick Beer Review

Reviewing Panel:

DAN ARNOTT
BOUGHT THE BEER

JOHN OLAVESON
LIKES ALANIS MORISSETTE

NEAL DAMGAARD
COULD BE JASON BOURNE

ELLIOT POWIDAJKO
ITS NOT PORN, ITS ANIME

Brick Brewery was one of the first modern microbreweries in Canada and has become a local landmark, if not benchmark, for K-W beer-drinkers. Offering a wide variety of brands, Brick caters to many different tastes and budgets. To help our discerning readership decide between Brick brands, the Iron Warrior conducted a review of some of the most common Brick beers: Premium Pilsner, Waterloo Dark, Red Cap Ale, Yellow Label Lager, and two of Brick's budget beers, Laker Lager and Laker Honey. These beers were rated on a scale of one to five 'empties'. We recorded our results on a notepad; we were going to use Elliot's computer, but it was too busy downloading porn... er, anime. Some of our notes were hard to read later on, though. Here are the results:

Brick Premium Pilsner:
5% alcohol, 341mL
2 'empties'

Brick Premium Pilsner is a European-style pilsner, reputedly one of Jim Brickman's favourites. It is bitter and hoppy, somewhat refreshing but not particularly. It has too much bitter aftertaste, which takes away from the enjoyment. It also had a slight off-flavour to it, reminiscent of ham cold cuts. We don't know how it got this flavour, and frankly we don't want to. This beer didn't particularly stand out- it's a generic beer with a few disagreeable characteristics.

Laker Honey Lager:
5% alcohol, 341mL
4 'empties'

For a budget beer, this stuff is good. Like most of the honey-style lagers, it has the body of a dark beer, and a full tasty flavour with a slight sweetness to it. However, in honey lagers, this is a good thing. It was very smooth-drinking and had little aftertaste. However, it stings slightly when you sip it, which is kind of weird. Overall, this is a very good beer considering how dirt-cheap it is.

Red Cap Ale:
5% alcohol, 341mL, 'stubby' bottle
5 'empties'

This was the best beer we drank that night. Seriously. It had no aftertaste, a good full flavour which wasn't as bitter or hoppy as most lagers, and a bit of sweetness, which worked well since it's an ale. It also lacked that prevalent off-flavour present in most domestic ales. It was slightly filling, but not too much. Plus, it comes in cool old-style 'stubbies' like Bob and Doug McKenzie drink. It routinely goes on sale for a buck a beer, which is an amazing deal for such a good beer. It's also a good thing that stubbies don't make as good weapons as usual

beer bottles, since the Leafs brutally lost the hockey game at about this point, and we were not pleased.

Waterloo Dark:
5% alcohol, 341mL
2½ 'empties'

For an alleged dark beer, Waterloo Dark was surprisingly light and not particularly heavy. I guess that light and not heavy are the same thing! Heh. Anyway, it sort of tasted like a lighter beer. It had some of the flavours expected of dark beers, but they weren't refined or mellow like in porters or darks. It was kind of weak and unfulfilling- "like a light beer masquerading as a dark beer."

Apparently John likes Alanis Morissette, or did until she cut her hair. That's kinda crazy. I didn't even know that it was still THE 90s JOHN! Oh well, time to get another beer. Whats gonna be this time? It's a...

Yellow Label Lager:
4.9% alcohol, 341mL
1½ 'empties'

This beer is insubstantial and urine-

hued. It was kinda disturbing to see something you just drank coming out the same colour it was when you drank it. It was refreshing in that it is like water. It could easily have been an American beer- a slight sweetness, but no other 'real' flavour. It was empty and hollow, really nothing special.

Oh, and ever notice how James Bond is, like, a really crappy spy? He doesn't even sneak around or anything, he's always doing the big explosions and killing people and stuff, and how's he supposed to escape detection if he's doing all that stuff?? Eh?? That kinda defeats the entire purpose of being a, y'know, spy!!!! Geez. Seriously, Jason Bourne from the Bourne trilogy was a way better spy than James Bond. Shit, we're running out of beer. Now for...

Laker Premium Lager:
5%, 341mL
1 'empties'

This looks like beer, but we can't be sure. The bottle is incoative of beer, but the contents, eeeehhh, not so much. This beer was generic, bland, and contained many off-flavours, some of which must have cancelled each other out to result in the general blah-ness of the 'beer'. As Neal says, "If you want beer real bad, this is a real bad beer."

Seriously, Jason Bourne is way better than James Bond, cause any ONE of us could be Jason Bourne@ Even Elliot or John or Neal or Dan or any one of us. 'Cuz that shit really goes on, eh? There's conspiracies and stuff all over the place. Like in the U.S. Probably SO much under the surface there that I don't even want to tHINK about it! Why else would the LEafs lose to the senators? 'Cause OTTAWA SOLD US OUT!!!

In conclusion, to conclude this article: BEER IS GOOD. Some beers are better than other ones. So if you want a beer, you have to choose wisely. but we're all out of Beers right now, so I'm going to conclude this article and go home to bed. But YOU GUYS ARE THE GFREATEST!. Serojukisly!!!!!!!



From left to right: Brick Premium Pilsner, Red Cap Ale, Laker Premium Lager, Laker Honey, Waterloo Dark.

IRON WARRIOR EVENT CALENDAR

Talks:

October 29: George Roter, EWB Co-Founder

As part of Waterloo's Homecoming, Engineers Without Borders co-founder George Roter is speaking about "Canada's role through the eyes of the poor" at Hagey Hall.

The talk runs from 6 to 7:30 pm. Advance registration is required. More info is available at <http://alumni.uwaterloo.ca/alumni/hc2005/index.html>

November 4: Self-Organizing Systems

Evelyn Fox Keller of MIT is giving a talk at the Perimeter Institute on the nature of self-organizing systems and their occurrence not only in biology but also in mathematics and physics. 2:00 pm on November 4th at the Perimeter Institute.

Live Music

November 2: The Hidden Cameras

Noteworthy Canadian scenesters The Hidden Cameras are one of the kinkiest

bands you'll hear, but their music is so uplifting you can ignore the lyrics if you like.

They're coming to the Starlight on November 2nd, \$12 in advance.

November 3: Ron Hawkins Acoustic Review

Nope, this isn't the aging bearded rockabilly artist. This Ron Hawkins is the frontman of Canadian 90s rockers The Lowest Of The Low, and he's performing a solo acoustic show at the Starlight on November 3rd. Tickets are \$11 in advance. Doors at 9:00.

November 5: The Rheostatics

Notoriously independent Canadian rock band The Rheostatics, responsible for such obscure and inspired musical creations as "The Ballad of Wendell Clark" and an entire album based on the paintings of the Group of Seven, are playing at the Starlight on King Street November 5th.

Tickets are \$16, doors at 9. This show is 19+. It's advisable to get your tickets soon, because they're going to sell out pretty quickly.

Kitchener-Waterloo Symphony Orchestra

The Kitchener-Waterloo Symphony Orchestra offers students \$15 tickets to classical music which costs other people anywhere from the low 30s to high 50s. Definitely worth checking out www.kwsymphony.on.ca to see what's going on.

On November 18, 2005 at 8:00 pm, artist/composer Steve Reich presents his 'City Life' soundscape performance at the Perimeter Institute in Waterloo, combining recorded sound and video with live instruments. Should be cool.

Campus

UW Art Gallery Current Exhibits

In ECH Gallery I, Kirsten Abrahamson's 'Diary of a River' exhibit is showing from October 27 to November 26.

In ECH Gallery II, Dermot Wilson's 'Pseudoarc' exhibit is showing from October 27 to November 6.

In the ML art gallery, Scott Fillier's series of sketches, entitled 'Drafting

Paper Memories' is showing from September 16 to December 1. Aply named- since the advent of AutoCAD, Drafting paper really has become a memory.

November 7: MuchMusic VJ Search Tour

If you feel like being one of those well-coiffed clones introducing the same crappy video over and over again on MuchMusic, then come out to the SLC Great Hall on November 7 from 12 noon to 6pm. MuchMusic's VJ Search tour will be passing through, and if they like what they see, it could be your ticket outta here. It's worth a shot, anyway.

November 4: Engineering Pancake Breakfast

Come out to the CPH Foyer from 8:30 to 10:30 am on the morning of November 4th to get some tasty pancakes for a good cause. It's to help out the Breakfast for Learning charity- helping provide breakfast for kids who don't get fed at home. And we all know how important that is. Guest pancake-flippers are Dean Sedra and Dr. Rosenberg.

POINT VS. COUNTERPOINT

Is The Computer/Software Market Saturated?

FRANCIS HOPE
4N ELECTRICAL

Is the Market Saturated with Computer Engineering/Computer Programming?

Computer Science, Computer Engineering, Software Engineering... Doesn't it seem in some ways that the market isn't becoming, but has already

become saturated with computer programmers? That's three different specializations fighting for the same job. Three of the largest graduating classes from two faculties coming out of university and looking for the same job. And after all,

what's the difference between them, other than some minor specializations, such as OS or database structures?

Now I am not saying that computer programming is a fad. It is here to stay. But there are also far too many people entering the job market compared to the number of jobs available. After all, what

"...that's three different specializations fighting for the same job..."

is with all the hype? When I first applied to university I was originally enrolled in Computer Science, but I decided to change to Electrical Engineering because I felt that the computer industry was too saturated with computer programmers, and I still do. I remember it seemed like everyone in the Math faculty was only interested in computer programming, and I felt that there are just too many people in this industry.

It seems to me that there is more than just one facet to the computer industry, more than just programming. For example: hardware, creating a computer infrastruc-

ture, and developing new technology. But society and this university seems to fixate more on programming than anything else. There is more than just computer programming in the engineering faculty, such as Civil, Mechanical, Chemical, Systems Design, and most

importantly, Electrical engineering (Go Elecs.) They have been around for years and the demand for them is still as strong as it ever was. Computer programming is not a specialization. It is just a skill, and once you learn the basics you can pick up its more difficult concepts fairly quickly.

GABRIEL CHAN
2B SYSTEMS

Never in the history of humankind was there such a great need for so many computer-specialized personnel. Welcome to the 21st century: the global economy is at a stage where the pursuit of profit is confronted by the limiting capacity of the system. Capitalism expects that every man will make stuff at a furious rate and consume stuff at a furious rate. Unless we all want to live in the Matrix a hundred years from now, capitalism needs a growth model that downplays the effects of over-

production and regulates consumption at a healthy rate while preserving the environment yet keeping as many people happy as possible (i.e. employed). Currently, the software industry is one of many solutions that are offered. Production (software) does minimal damage to

the environment, resources (developers) are in endless supply, and there are a lot of consumers to satisfy (when was the last time you went a day without using software?). The software industry is not saturated with specialists.

Approximately 8.5% of the growth of the \$11.75 trillion economy of the United States of America is driven by the software industry over the last decade. This sector nets around \$200 to \$240 billion annually in the U.S., and we all know the Yankees have the largest software industry in the world. The market for software will grow as newer technologies require faster, stronger, better machines to aid their own development. The Americans have been a big player and contributor to the software industry, so it is not surprising to see some companies hitting their market cap or suffering from some sort of saturation. But let me remind you that the U.S.A. is not the only country in the world: the market for software

"...demand will only go up because almost everyone needs software for everything everywhere..."

is growing worldwide, and software engineering is a very attractive profession, especially across Europe and Asia. The market for software is very diverse and projected: demand will only go up because almost everyone needs software for everything and everywhere; even if the demand for the development of software were to slump, maintenance and services will support the industry (why do you think Microsoft has a new Windows Update fix launched everyday?). Given the possibilities of software applications in every imaginable field, the global industry is not saturated with computer scientists and software engineers.

When the richest human on this planet came for a personal marketing drive for Microsoft on October

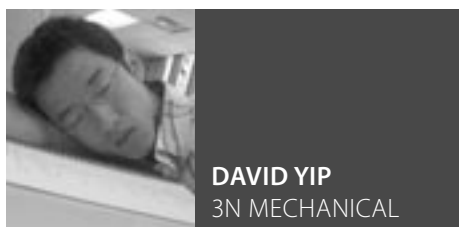
13th, he mentioned that "the beauty of software is that we are always making breakthroughs. We will have more in the next 10 years than we have had on the last 30". Bill Gates said, "Software is driving sciences for-

ward" and that "there will be a shortage of software engineers". Although his main message was "Microsoft's future is bright, come work for me", Bill also realises the practically unlimited capability of the future software industry. The dot-com frenzy of the last decade may have been characterized by uncontrolled investment and development, but the next decade will see the maturity and a sustainable and growing software industry.

The software market is not saturated and will not be saturated for a long time.

Editor's Note:

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

Disc Review: Death Cab
For Cutie's "Plans"DAVID YIP
3N MECHANICAL**Plans**

Death Cab for Cutie
Atlantic Records

Good for:

Moping, Fall, Soundtracking the OC

Bad for:

Cheering people up, First dates, Pre-drinking

My musical history is less than stellar; I didn't start listening to the radio until around grade 8, which was unfortunately a bad time to start.

Around grade 9, boy bands were reaching new heights, girl groups were still going strong, and Britney Spears hadn't even done it again yet since her first album "...Baby One More Time". It was in this climate that my initial musical

tastes were formed, combined with earlier Canto-pop influences. Fortunately for my roommates and anyone within earshot of my speakers, I've moved on. However, in part to being an occasional sap, and in part due to my formative Top 40 pop years, I still fall for pop hooks and moody ballads.

In 2003 I heard "Transatlanticism" by Death Cab for Cutie, and I was taken. Yes, another song from that endless fount of inspiration that is relationships, but the song wasn't another 3.5 minute ballad by

some aging 80s singer. It was fresh, touching, and captivating. I moved beyond the titular song on "Transatlanticism", and found that the whole thing was quite to my liking, though I liked the moody shoegazing slow-burners like the title track and "A Lack of Colour" better than the rockier tunes. I sampled other Death Cab albums and found them all quite pleasing too, but Transatlanticism remained my favourite, with the "Forbidden Love EP" coming a close second.

Two years later, with their newfound OC-inspired popularity, Death Cab for Cutie released "Plans". The OC, coupled with their switch from indie label Barsuk to Atlantic Records, prompted fans to wonder if the sound would change.

Well, from Transatlanticism, it didn't. If you didn't like Transatlanticism, chances are you'll hate Plans. What Plans does is

"...the song wasn't another 3.5-minute ballad by some aging 80s singer. It was fresh, touching, and captivating."

take all the moody parts of Transatlanticism and put them in an album, leaving out the more exuberant bits. The subject matter is lovelorn, as usual, though now seen through more mature lenses, more talk of settling down, old age, and watching your loved one die.

In a way then, it was the Death Cab album I was hoping for, all moody, all ballads, an album made just for me. Well, turned out it's almost too much of a good thing. All the moody shoegazing makes it less of a general purpose album, and something more for rainy days. It's not something you'll keep the player on a regular basis. Even the tracks that are uptempo in beat and melody still seem to have this sombre relieved feel to them, like finishing exams you bombed.

Disc opener "Marching Bands of Manhattan" sounds great, but great in way that reminds me of Coldplay meets Death Cab, which is a dangerous course to be on. The trend continues in the next track "Soul Meets Body", where singer Ben Gibbard really tests to the upper limits of his falsetto again, not unlike Chris Martin. I'm not sure whether it adds or takes away from the song. All good songs, but leave you wondering if this is the stagnation point for Death Cab, that is it, the high water mark.

"Summer Skin" is one of my favourites, one for it's thumping marching drum beat, and two for it's clever, if slightly emo lyrics. Perhaps due to the end-of-summer release of the album as well, the song fits. "I Will Follow You Into the Dark" is the album's quiet centrepiece, a stark contrast to the multiple instrument productions of the other songs, "Dark" is one guy on his guitar, as far as I can tell.

Continued on page 9- see 'Plans'.

ENGINEERING
SOCIETY



Did you know you can earn valuable P**5 points for volunteering time at the C&D? Email Mary Bland at mbland@engmail.uwaterloo.ca to schedule your shift.

ENGINEERING SOCIETY EXECUTIVE REPORTS

EngSoc Takes On Cancer



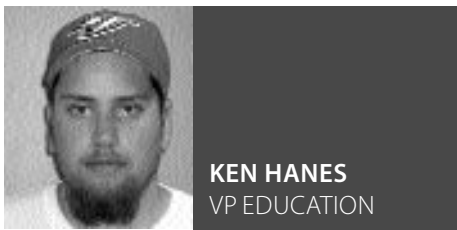
KARIM LALLANI
PRESIDENT

Midterm exams are finally over, so now you have no excuse not to attend EngSoc events for the month of November. There are a lot of events to look forward to in November including TalEng, Genius Bowl, Semi-formal, and the EngPlay.

I'm organizing a huge charity event in support of the Canadian Cancer Society. Cancer is the leading cause of premature death – or early

death – in Canada. Every 7.5 minutes, someone in Canada will lose their life due to cancer, and every 3.5 minutes, someone in Canada will be diagnosed with cancer. Based on current incidence rates, approximately 40% of Canadians will develop cancer during their lifetimes. This is definitely an alarming statistic. The fundraiser will be in memory of Vincent Fazari (a classmate of mine who passed away from cancer last year) and in honour of Rob Staruch who has recently been diagnosed with cancer. Rob is in 3B computer engineering and he's extremely involved with EngSoc. He will be helping me organize this event. His bravery is truly inspirational, and I wish him well with his cancer treatment. More details about the fundraiser will be available soon.

Co-op Changes and PDEng



KEN HANES
VP EDUCATION

Hey hey everyone

In the last couple of weeks I've heard a few people complaining about the new co-op system. Several people have mentioned that if you get an (early) job offer and don't accept it quickly, the company then has the power to change their rankings and offer the job to someone else. Obviously, this sucks – I'm going to talk to the FEDS VP-Ed about this and see what he has to say but that isn't going to change anything for now, so be aware that this can happen and hopefully things will get changed by next term.

Ok, number 2: Thanks for all of the 2nd

year students that came to the PD-Eng forum that we held a couple of weeks ago. There will be a follow-up forum at some point in the near future – more details will follow as soon as I find time to set this up. Your (constructive) criticism has been appreciated and hopefully we can get some of the kinks of the program worked out. Thanks to all of the classes that submitted a PD-Eng rep to me. For every 1A and 2A class that hasn't, can you get on that? This is going to be especially important over your co-op term. As problems arise, your class can contact the rep, who can then contact the EngSoc VP-Education. This saves EngSoc and PD-Eng from having to listen to the same complaints 97 times.

That's all I have right now. Remember, if you have any problems come and talk to me – I'm pretty much always around somewhere. On a final note, come to the Gradcomm Toronto Pubcrawl on November 11; it's gonna be a blast and I hope to see everyone there!!

EngSoc Donations allocated



DAVID JOHNSON
VP FINANCE

Hello Fellow Engineers! Have you noticed how the days are getting shorter and shorter? I have and I don't like it. But you know what I do like? I like the fact that our Fall 2005 Engineering Society Budget has been passed! Directors, you should now know how much money you can spend! Copies of the budget are available in the Orifice and on the Webs site.

You know what else I like? I like the fact that the Engineering Society Donations of the term have been allocated. Exciting! Here is the Breakdown:

EWB \$250
UWIHDA \$200
CUBE \$250
Grad Comm \$400
Memorial to Vince \$200
sLEdGo \$200
Total \$1,500

Now for something Very important! If you are a director and you are spending money, you should be submitting expense forms on a regular basis. The longer it takes to hand your forms in the longer it will take to get your money. If you all wait till the end of the term, its going to take a very very very long time for you to get your money.

Great, that's it.

You know what else I like? The fact that this report is done now.

David Johnson
VP-Fine-ass

EngSoc Exec Elections



ANDREA RAYNER
VP INTERNAL

It would appear that it is Iron Warrior time again, and do you know what that means?? Yet another round of Exec Reports. Lots of fun stuff has been happening, its been fun. And there's a lot more fun stuff still to come. TalEng is on November 8th, if you have any sort of talent at all, and I mean any talent (well, almost any talent) sign yourself or your group up on the Orifice door and perform for all of Engineering to see (well, at least for the all of Engineering that shows up, which is usually a really good crowd). If you're not performing, I still suggest that you check out TalEng as it is an awesome evening. I can promise you that the current and new Exec's will both be putting

on a show for you.

Speaking of *New Exec*, campaigning has started for this term's elections. As it stands, all positions but one will be ratified. That means that there is only one person running for those positions. At the first EngSoc meeting after Elections are over we'll vote to accept, "ratify", those people. But, there is a race on for VP External. I guess Christina just made the position look so amazing that more than one person was dying to fill her shoes. There will be a "Grill the Candidates Forum" on Nov 7th at 11:30 in the CPH Foyer. This is your chance to come out and find out what the candidates are all about. Feel free to ask them embarrassing, but relevant questions.

That's all for now folks. There's just a few more of these reports from me, so keep your eyes peeled and read them all, 'cause I love to ramble. In closing, be sure to come out and vote for the position of VP External on NOVEMBER 8TH in the CPH FOYER!!!

CFES Congress Top Ten



CHRISTINA WATERS
VP EXTERNAL

TOP 10 THINGS NEEDED AT WINDSOR CONGRESS 2006

10. McDonald's breakfast coupons because there is no breakfast at Congress.
9. Bottle openers, useful at any time of day.
8. A little bit of French so you know when 'les francos' are talking smack.

7. One sober friend to make sure that you aren't wearing beer goggles.

6. Bottled water and Tylenol because it's a permanent hangover.

5. A pink toga with nothing under it because it is Ontario's tradition...

4. Pointy elbows because the boys there don't stop with the Penis Tickle.

3. Something large to claim a bed that you, alone, get to sleep in...

2. A cock block because the guys there don't give up.

AND...

1. A sleeping bag for the hallway... the RMC guys keep occupying your room.



Upcoming Events from EngSoc

Sun Oct 30	Mon Oct 31	Tue Nov 1	Wed Nov 2	Thu Nov 3	Fri Nov 4	Sat Nov 5	Check out up-to-the-day event postings on the EngSoc website at www.engsoc.uwaterloo.ca
			Last day to sign up for Tal Eng (Orifice door) Engsoc Meeting #4		Pancake Breakfast Semi-Formal		
Nov 6 Wheelchair Basketball	Nov 7	Nov 8 Engsoc Elections (CPH Foyer) TalEng (Bomber)	Nov 9	Nov 10	Nov 11 Remembrance Day B**5	Nov 12	

ENGSOc EXECUTIVE CANDIDATES

President



JEN CARROLL
3A MECHANICAL

Hi everyone, and thanks for not running against me! I can't wait to (pending ratification from the society) be President of B-Soc for the next 16 months!!

First, a little bit about me for those of you who I haven't yet had the pleasure of meeting. I'm in third year Mech (Orgasmech!) and I've been involved with EngSoc since my first semester at Waterloo. I passed

around "Vote for Jen" leaflets with scratch-n-sniff stickers to my class during the second week of 1A, and since then, Geoff Quinsey and I have been class reps for our class. In second year I started getting more involved by taking on several directorships. Prior to this term I've worked on Engineering Arts, Competitions and Student Teams, EngWeek, Resume Critiques, and Shadow Day. This term I'm heading up Resume Critiques again, I'm the producer for the EngPlay, and I'm 1/4th of a rockin' Charities team! FYI: our next pancake breakfast is Nov. 4th, so be sure to come out!

So, why do I want to be President? Well, if you take a look at the experience I've had with EngSoc, you can see that it's sort of all

over the board. I couldn't choose which of the VP Positions appealed to me the most. Plus, I love a challenge and I love meeting new people. I'm also extremely proud of being a Waterloo engineering student. All of those reasons add up to ME wanting to be YOUR representative to the administration, to other schools, and to outside organizations.

As President, one of my goals is to increase awareness of what's going on in the world around us. Everything from the next EngSoc event in the foyer, to campus wide events like Warrior weekends, to events in our community and beyond! So many times I've heard "Oh, I didn't even know that was going on" about super cool events. Class reps, get ready for me to make sure you're

doing your job of communicating upcoming events to your classes! I would like to create a new directorship which work to inform engineering students about upcoming events in the KW area and to communicate with event organizers and explain to them how awesome it would be to have engineering students attend!

Basically, my goal for the next 16 months is to make sure that every student in engineering is having the best time ever! Got an idea for a new club? Want to see a certain event happen? Questions/concerns/comments about the way EngSoc does things? Come talk to me. We're all members of the Engineering Society. I want to help everyone take advantage of that!

WEEF Director



MARIA ARSHAD
3A MECHANICAL

Hey everyone! How goes? I am doing greatly awesome; because I have just been told that I am your new acclaimed-WEEF director for 2006-2007. I must say, I am very excited to take on this position.

My name is Maria Arshad and I am presently in 2B Mechanical. Just to brief you on how I have been serving WEEF in the past; I was class WEEF Rep in 1B (spring 2004). In 2A (winter 2005) I moved on to becoming WEEF assistant, and this term I am serving as WEEF assistant director.

WEEF is good; it has been enhancing and benefiting our educational experience at UW since its humble beginning in 1990. WEEF has donated money for different departmental equipment such as oscilloscopes, computer labs, softwares, machine shop as well as student teams like world record holder Midnight Sun, 1st year challenge X competition winner UWAFI and many more. The fact that WEEF is a student run organization and where the money goes is completely

decided by students (us) makes WEEF even better. Also, WEEF donates over \$200,000 every year to provide a fulfilling educational experience for students. As a WEEF director, I will be thriving to continue this success and make it greater.

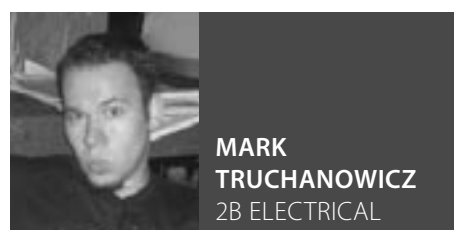
On top of that, my goal is to increase awareness about how WEEF benefits and can benefit our education at UW. Class visits and WEEF promotional campaigns are at the top of my list.

Moreover, like any organization, WEEF requires a dedicated set of volunteers to make it the best it can be. I will be recruiting volunteers from different disciplines and years who will be assigned various tasks. This way WEEF will have many voices to promote its goodness.

I would like to thank Mike Spendlove, for being a wonderful WEEF director and mentor. He has worked hard to promote WEEF and I will be sure to follow his foot steps to achieve my goals.

In the end, it takes a lot to be a WEEF director and I am up to the challenge. I would like to ask all of you to not hesitate to ask me if you have any questions. Please contact me at marshadr@gmail.com. I would love to hear from you, if you have any ideas. Lastly, I am looking forward to being YOUR WEEF director.

Vice President Education



MARK TRUCHANOWICZ
2B ELECTRICAL

Hey Everyone! Let me begin with a little introduction. For those of you who don't know me, the name's Mark Truchanowicz, or as I'm more commonly known, Mark Truck. I'm currently in 2B Electrical and looking to be ratified for the position of VP-Education.

We all know that qualifications are important, so why ratify me, you ask? The answer's simple. I'm currently the Education Assistant and Frosh Mentoring Director under Ken Hanes, the current VP-ED. I've been an active part of the public PDEng forums run this term for students to provide feedback on the program. Ever since 1A I've been a strong advocate of Course Critiques and have continually helped with them every term. Not only that, but I'm all about EngSoc. As one of the POETS Managers and one of the Webmasters, it's quite clear that I devote a lot of my time and effort to our Engineering Society.

What kind of candidate would I be if I didn't have a platform? Not a very good one, I can tell you that, but luckily I have one! Overall, we're all here for our education, and if you see anything that needs improvement or could be done better to increase the quality of our education, then I want to hear it! Administration, whether it's the Dean, Co-Op, or PDEng Coordinators, need to hear your concerns, questions, and comments, and I'll be there to represent the Engineering student body. Lastly, with everything that goes on during the term, I plan to keep everyone informed and up-to-date with all academic matters.

For the 1st- and 2nd-year students, as many know or have heard, PDEng is one hot topic, and I plan to continue providing public forums for students to voice their opinions and concerns and relay them to the PDEng Program Directors. It's only through feedback and constructive criticism that we'll be able to improve the program.

In the end, it's our education, and we need a voice to represent us. I plan to go out there and give 110% so that both us and administration are informed and up-to-date with both sides of the story. So at this coming EngSoc meeting remember to KEEP ON TRUCKIN' and ratify Mark Truck for VP-Education.

Vice President External



GREG FITZGERALD
2B MECHATRONICS

What does Eng Soc mean to you? Better yet, what should it mean? Are you among those who feel that you have to drink the purple punch, and wear Nike shoes to participate in, or at least understand this society?

Eng Soc has often been accused of being too much of a clique, even as far as being considered a 'cult' (pfft...what does a dark room filled with a crowd of students chanting 'tool' have to do with that?)...don't get me wrong, I love Eng Soc, I may even be...in...love with Eng Soc, that's why I'm applying for VP-External - but there is always room for change.

I believe that as Waterloo engineers, we still don't have a reputation amongst other schools that is reflective of the awesomeness that is UW. The engineers I've met here are the most dynamic, creative, and diverse people I know. We have many talents, aside from the standard academic and fermented-grain-consuming skills. Whether it's learning another

language, composing and playing music, or simply knowing how to juggle while riding a unicycle, Waterloo engineers can do it all.

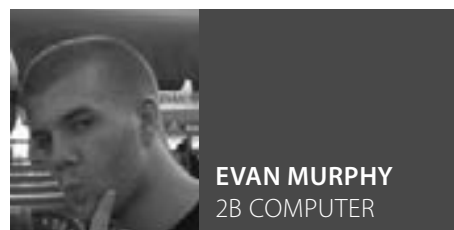
As VP-External, these are the attributes that I will be promoting to other faculties, the local community, and other Universities. Integration would be encouraged by organizing mixers, socials, sending delegates to conferences, even by holding competitive competitions such as interschool sports tournaments or scunts.

So what makes me qualified to fulfill this position? Well, on the streets I'm known as Greg 'Organization-Machine' Fitzgerald, because I love to organize so much. You may be asking who "they are"...well you shouldn't ask such things, don't question my street-cred. Since I started at Waterloo I've helped to organize such events as Tal-Eng, DUSTED, our tasty pancake breakfast charity fundraiser (come out Nov. 4th for more pancakes!), as well as being involved with Feds, two student teams, and a few intramural sports for good measure.

As VPX, be assured that you could approach me any time with any thoughts on your mind, and that I would be a generally awesome, outgoing representative of Waterloo.

Remember - when it comes to VP-External, "One size 'Fitz' all" (to quote Comic Book Guy, "worst campaign slogan ever!")

...seriously though, vote for me!



EVAN MURPHY
2B COMPUTER

EVANMURPHYFORVPEXTERNAL... So why should you vote for me as your next Vice President External, you ask? Quite simply, I have the experience and the abilities to make the next 16 months the best possible for every student in engineering. I would like to increase participation and interest in interschool events, not just to the core group of "Engsoc People" but to engineering at large.

Now a little more about me... for those who don't know me, I am a Computer Engineering student currently in my 2B term (it sucks!), I enjoy long walks on the beach and candlelit dinners. All jokes aside, I love it here in Engineering, I am 100% sure that we have the best faculty in the best school in the world and I want everyone to know it. I have gotten involved in every possible way since I've been here, taking on leadership roles both within the Engineering Society and in my Class (Green Eggs 'N' Ram).

Since my first term I have won the

President's award for engineering society involvement, won the Paul Harlick award for class rep, helped my class win P**5 last year and finish 3rd the year before, attended numerous conferences with delegates from other schools, thus making External connections, held numerous directorships... so many I cant even name them all.

I would like to make more large-scale inter-school events and encourage Waterloo Engineering's reputation for being the best in Ontario. I believe our current VP-X has done a great job establishing relationships with other schools. I would like to continue her work in the future, by expanding on her great ideas, plus pitch a few of my own.

I'll wrap this up now, because I know you have to get back to your busy, busy day. I want to be your VP-X because I believe you will get the most out of your Engineering society with me as a part of it. I will do my best to make your time at school as fun as time at school can possibly be. If you have any questions, please email me at e2murphy@gmail.com.

So remember, on November 8th, come out and vote for Evan for VP-X.

More candidates on page 8.

ENG SOC EXECUTIVE CANDIDATES

Vice President Internal



ADAM NEALE
2B ELECTRICAL

I'm Adam Neale. People seem to like me because I am polite and I am rarely late. I like to eat ice cream and I really enjoy a nice pair of slacks. I'm also the only person running to be the next VP Internal.

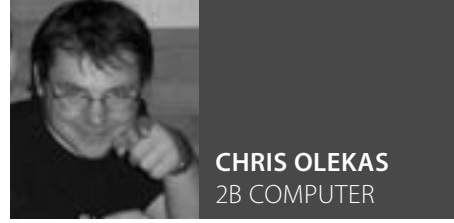
Over my past couple of years in engineering here at Waterloo I have become very involved in the engineering society, not only through participation, but in organization as well. Last summer, in my 1B term, I co-organized not only the wheelchair basketball tournament, but also the amazingly successful 4-way Dr. Dodgeball Tournament. Who remembers how awesome that was? Dodgeball just isn't dodgeball without some torrential downpours... Since then I have also worked in the Orifice and for WEEF doing refunds. This term, along with Evan Murphy, I am running class rep feedback at all the EngSoc meetings and organizing TalEng, which is shaping up to be a memorable, or depending on your choice of beverage, not so memorable night.

All of these things however are in the past, or at least they will be during my

time in vice presidency. What is important is the future, not only the future of the engineering society, but the future of all of those involved in it. Our engineering society could not be where it is today without the strong support and leadership that come from its students. It is my goal to become the next VP Internal and provide us, as students, with the fun outlets necessary to be able to go out and have a good time, and to provide opportunities to escape from the heavy workload we face everyday as engineering students. I want to ensure that all the great events that go on within engineering such as TalEng, Semi-Formal, and Genius Bowl continue to be as fun and well run as they are now, and I strongly encourage new ideas for new events. I think the House Crawl event that is coming up soon is going to be a huge success and we need more new and fresh ideas like that to keep all of us as engineering students active, sane and sociable. I am also in support of increasing the publicity and involvement of frosh in our events. This will give our new frosh a chance to hangout and meet some of you upper year students.

I think that the next two terms have the potential to be great, so long as we can keep our engineering spirits high and have the guidance of strong leadership. This is why I'm asking all of you to come out and ratify Adam Neale for VP Internal in the upcoming EngSoc election.

Vice President Finance



CHRIS OLEKAS
2B COMPUTER

Allow me to introduce myself;
Name: Christopher Olekas
Class: Green Eggs 'N' RAM Graduating Class of Computer Engineering 2008
Function: To be your next VP Finance

As for what the VP Finance does, it is somewhat mystical... which is all right with me because I've heard that I'm a bit of a magical kind of guy myself. But in all seriousness, the VP Finance is the person that is responsible in drawing up the budget each term, ensuring that there are no discrepancies with the EngSoc books and also writing up all those lovely cheques to all those lovely directors who make all those lovely Engineering Society events go off so lovely. Can't you feel the love? I'm all about the love... and all about the money!

Ok, FOCUS! I believe that I'm very capable of performing the less VP Finance-y

stuff like run the novelties shop. I've had ample success with various class swag such as the favourable seasonal Green Eggs 'N' RAM OT hoodie that is good for BOT, MOT, and... EOT! As well, there's some awesome tshirts that I got printed for my

class last term - If you've been to the WEEF TA Office you might have seen this news clipping on Don's door - Front: "I want to be an Engineer". Back: "Sex can wait". (The actual line from the clipping is a picture of a kid on the billboard with the slogan - "It's my future! I want to be an Engineer, sex can wait!") As VP Finance I want to bring back some of the cooler swag to the novelties shop as well as the possibility of online purchases of UW Engineering novelties.

I'm a fun loving type of guy, EngSoc rep for my class, and have held a number of

EngSoc directorships, the most current being POETS manager this term, so if you want to ask some of the tougher questions, like, Chris, how do you grow such sexy sideburns, or Chris, how do you drink so fast, or Chris, how do you feel about the "tough" issues, I'm always available to help. Also, for all you 8-stream elects, you'll probably be seeing me as I'll be sticking around to be your WEEF TA for ECE 100.

This is a real easy decision for you as I'm the only one who ran for VP Finance,

but I believe that I have the critical analysis and organizational skills to be a great VP Finance, and all it takes is for you and your class to RATIFY CHRISTOPHER OLEKAS FOR VP FINANCE.

Thank you, and goodnight.

Your future VP Finance

Christopher Olekas

RATIFY ME! THANK YOU...

CECS November Workshops and Events

TARA KEOGH
CECS

November Workshops

November 1

Work Search Strategies: Special Session for International Students, TC 2218, 4:30-6:00

International students will learn best approaches to search for work in Canada after graduation from UW, including visa requirements.

November 2

Knowledge & Ability Test for Mathematical Statisticians DWE 3519, 6:30-10:00 PM

Work Search Strategies TC 1208, 3:30-4:30

Practise networking and other strategies in order to increase the effectiveness of your job search. Limited to 20 participants

November 3

Writing CVs and Cover Letters, TC 2218, 12-1:30PM

Are you interested in a career in academia or research? This workshop will show you how to prepare an effective curriculum vitae and cover letter when applying for positions in these areas. Register on TRACE website.

Letter Writing TC 1208, 3:30-4:30 PM. Learn how to use letters to your advantage in the job search.

November 7

Working Effectively in another culture: what does it take? TC 2218, 4:30-5:30. Explore the impact of culture and intercultural communication on the work

environment and find strategies for success in a different work culture. This participatory workshop is geared toward students who will go abroad to work and international students who want to work in Canada.

November 9

Info Session: University of Toronto TC 1208 11:30-1:30. Master of Management & Professional Accounting Program

Business Etiquette and Professionalism TC 1208 4:30-5:30. Proper etiquette is crucial to a successful job search- and to your career. This workshop will cover dining etiquette as well as appropriate behaviour at interviews, employer receptions and other networking activities.

November 10

Career Decision Making TC 1208 3:30-5:30. Self Assessment, Occupational research, Information Interviews & Career Decision Making. After this session you will be in a better position to assess yourself and your fit in the world of work.

November 14

Successfully Negotiating Job Offers TC 1208 4:30-5:30. Increase the odds of getting what you want when negotiating salary and other details related to the job offer. This workshop is geared toward graduating students.

November 15

Work Search Strategies TC 1208 3:30-4:30. Practise networking and other strategies in order to increase the effectiveness of your job search.

November 16

Interview Skills: Preparing for Questions TC 1208, 11:30-12:30. Discuss and learn from taped excerpts of actual

interviews.

Letter Writing TC 1208, 3:30-4:30. Learn how to use letters to your advantage in the job search.

November 17

Teaching English Abroad TC 2218, 2:30-3:30. Find out about TESOL certification, relationship between a certificate and employment, skills required to teach ESL, jobs, etc. Presented by John Richardson, lawyer, author and provider of professional test prep and admission programs.

LSAT Strategy and Law School Bound TC 2218 12:30-1:30. Hear about LSAT strategies and best practises to prepare and effective law school application. All attendees who sign up for the newsletter will receive a FREE copy of LSAT success with CD by Thomas White. Presented by John Richardson, lawyer, author and provider of professional test preparations and admissions programs.

Interview Skills: Selling your Skills TC 1208, 2:30-4:30. Do not stop at the fundamentals; you must prove your skills in the interview. Here is your opportunity to practise and improve.

November 22

Info Session: University of Western Ontario TC 1208 4:30-6:00. An information session on the MD/PhD program at Western

Upcoming Events

November 18 & 19: Impact Conference
Impact Conference Metro Toronto Convention Center, Toronto. Join

Canada's Largest Student-run entrepreneurship conference. This conference will bring together industry representatives, educational partners and more than 300 students from coast to coast to meet, learn, network and offer exposure to job opportunities. Cost is \$129 for the 2 day event, which ends in a banquet with keynote speaker Harry Rosen.

November 8: Networking - networking - networking!

The KW chamber of commerce offers a great evening of networking - learning and doing it! Nov 8, 2005 at the Holiday Inn from 4-5 pm learn how to network and from 5 to 7pm apply your new skills at Heffner ,Lexus Toyota on King Street in Kitchener .. Business after 5 - it's called. You have to register call Megan Harris at 749-6045 - only 40 students will be accepted!

Employer Information Sessions

November 14

Cigna 7:00-9:00 PM, University Club, Main Dining Room. For Co-op and Graduating Students, Actuarial Science

November 15

Hewitt Associates 5:00-7:00, Tatham Centre 2218 For Co-op and Graduating Students, Actuarial Science, Mathematics

November 17

Microsoft 7:30-8:30, Davis Centre Colloquium 1302. For Co-op and Graduating Students in Computer Science, Engineering, Mathematics.

IRON WARRIOR REVIEWS

WEEF News: Proposals and Funding Council

MIKE SPENDLOVE
WEEF DIRECTOR

Participation stats are not listed in this issue, but I have a few bits of important business regarding proposals, the funding council, etc. New proposals are due in electronic and paper form by November 11th, see our website for more details.

PROPOSALS:

1. Since an amendment to the WEEF Bylaws passed this summer, all proposals granted WEEF funds now have an expiry date of two years. (All proposals prior to this summer have two years from May 1st, 2005.) Exceptions can be made (e.g. if you are saving up for an expensive piece of

equipment or if you have a 2 or 3 year build schedule) as long as the proposer contacts WEEF before the deadline. WEEF will be responsible for warning the team or department at least 6 months (note: corrected from 1 month) prior to expiry.

The rationale for this is that occasionally some people don't spend the money that was allocated to them. This means that money has been withdrawn from the principal, is not earning much interest, and is not even being used to benefit undergraduate education. Ideally, we would like to see everyone use their funds soon after they are allocated so that we can continue to generate maximum interest.

2. If you are looking to spend your WEEF funds, please check our website for our newly updated Purchasing Guide. We also have old proposals dating back to 2002 under Past Proposals, if you're unsure how much you were

allocated.

Please note: Although we track all spending, we are not a bank and do not have the staff or infrastructure to give each team and department a detailed listing of their activity each term. That's why we insist that you keep detailed records of your Purchase Requisition and Requests for Payment forms. Any requests for outstanding balances will be processed as soon as possible, but are not considered high-priority.

3. In an effort to spruce up the WEEF website and bulletin board, we're now welcoming any photos – especially showing a WEEF sticker – of WEEF funded

equipment, as well as any news or press releases regarding achievements or

competition results. Feel free to either email them to weef@engmail or leave

them in the WEEF mailbox in the EngSoc Office.

FUNDING COUNCIL: (AKA WEEF reps)

Attention WEEF Class reps, your two meetings for this term are coming up in mid-November, and are tentatively booked for Monday November 14th and Wednesday November 16th. An email will be going out shortly, or check our website for more info.

In other news, a big congratulations to Maria Arshad who will be the next B-Soc WEEF Director! Maria has been helping with WEEF for several terms now as a class rep, a WEEF assistant and most recently as Assistant Director this past term. I have no doubt she will be do a great job.

For more info on WEEF, please check out our website: www.weef.uwaterloo.ca.

Book Review: Brunelleschi's Dome

NEAL DAMGAARD
3B CIVIL

Brunelleschi's Dome: How a Renaissance Genius Reinvented Architecture by Ross King. 2000. New York: Walker & Co.

Brunelleschi's Dome tells the absorbing story of the design and construction of the dome of the Santa Maria del Fiore cathedral. The dome has since become recognized as Florence's greatest landmark. The church itself was

begun in 1296, but construction was interrupted by repeated occurrences of the Black Plague. In a spirit of architectural brinkmanship, the structure of the church, which was the design of Arnolfo di Cambio, included a massive area which was to be covered by the largest dome ever built. (Fierce competition for the most dazzling examples of architecture existed between the Italian city-states; presumably this competitive spirit has since been channelled into the less profound realm of professional soccer.) In fact, the cathedral's design-

ers and builders had no idea whether it would be possible to build a dome of the size required: its diameter would have to be almost 44 metres long, and the building materials comprised only unsophisticated resources like limestone blocks, brick, mortar and timber.

While the men responsible for the design and construction of Santa Maria del Fiore did not know how the dome could be built, they believed that God would send along someone with the intelligence and ingenuity to solve the problem. What they got was a man by the name of Filippo Brunelleschi who was in fact an artisan, a goldsmith who was already celebrated for his work on several projects (none of which had a struc-

tural context). In 1418 Brunelleschi entered and won the design competition for the dome; for the next eighteen years he would give himself entirely to its design and construction.

Author Ross King does a good job of explaining the engineering problems which faced the protagonist and how he went about working them out. In addition to solving the problems which the structure itself posed, Filippo Brunelleschi also managed the construction and invented several very

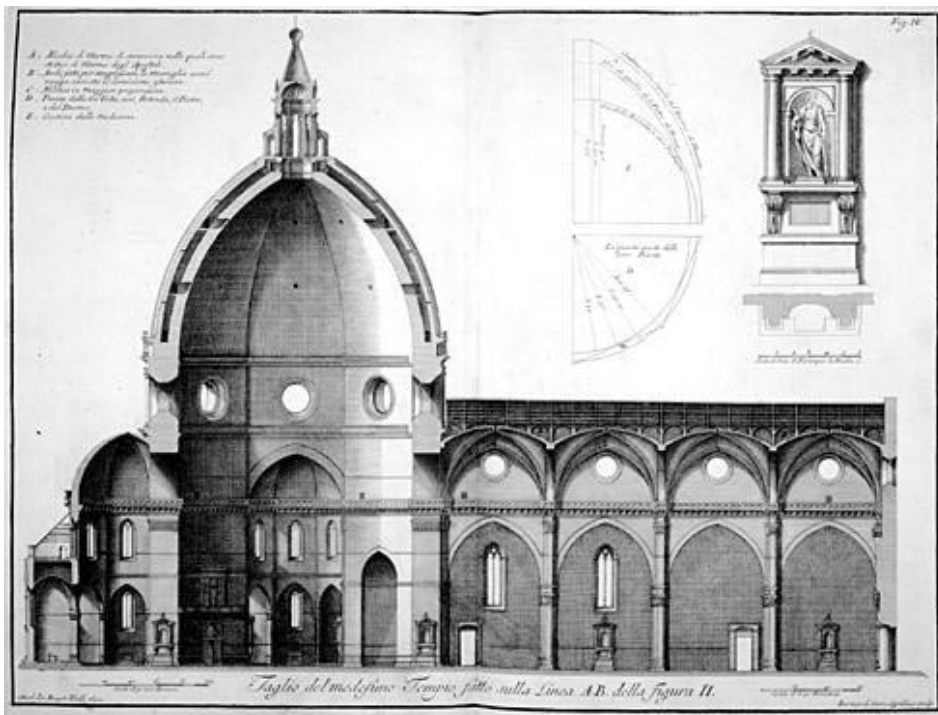
clever machines which made possible the erection of the dome. However, Brunelleschi's Dome also finds room to tell of the cultural and political climate of 15th century Italy; after all, Brunelleschi was a relatively small part of an incredible period of artistic development which was effected by artists such as Michelangelo and Botticelli and poets like Dante and Boccaccio. Elsewhere in the book are descriptions of Florence, of the working class, work-site conditions and the guilds, which

filled approximately the same role as the labour unions of modern time. It is a relatively short and undemanding but very rewarding read.

Filippo Brunelleschi died just a short while after the dome's structure was completed. He and his achievement are cred-

ited with elevating architecture to the same level as that of painting, poetry and music; before him architects were all but anonymous. Brunelleschi was buried in the Santa Maria de Fiore cathedral, and the slab set over his body eulogized him as a magni ingenii viri, a great ingenious man. The English word engineer is derived from the same root; Filippo Brunelleschi deserves recognition as the man who made engineering and architecture worthy of admiration in Western civilization.

“...before
[Brunelleschi] archi-
tects were all but
anonymous...”

EWB Co-Founder To
Speak At UWGABRIEL CHAN
2B SYSTEMS

On October 29th, George Roter, co-CEO of Engineers Without Borders (EWB) Canada, will be speaking about “The Canadian Way? Canada's role in the world through the eyes of the world's poor.” Mr. Roter is also a UW Alumnus and one of the founders of the charitable organization. He has considerable experience in the field, working on third-world

development issues to create sustainable solutions. The talk will be from 6:00-7:30 pm in the Humanities Theatre.

Besides the main presentation, there will be a BBQ prior to the talk from 4:30 to 6:30 pm in the SLC Atrium. EWB representatives will be talking about the “Make Poverty History” campaign.

If you are interested in the event, please RSVP at <http://alumni.uwaterloo.ca/alumni/hc2005/>. This event is a part of UW's Homecoming 2005.

Plans:

New album is mellow, moody

Continued from page 5.

This is where the theme of growing old and dying is introduced. The theme continues in “What Sarah Said”, a ballad describing waiting in a hospital waiting room. “Plans” closes with “Stable Song”, a reworking of the 12.5 minute “Stability” from “The Photo Album” into a compact 3.5 minute version. A nice conclusion, it's plodding stable tempo paints this idea of gracefully aging quite well. I've

left out some other songs, which are also quite pleasant as well, if not particularly memorable. Probably something you'll hear at American Eagle while you're shopping for fall sweaters and striped shirts to accompany them.

A good solid album by Death Cab, though not really standout, and not really their best material. If you're new, “The Photo Album” or “Transatlanticism” might be a better place to start, but if you're a fan, by all means pick it up. “The Forbidden Love EP” is a great disc too, but if you're starting, it does only have five songs.

Cindy's Kitchen: Arthur Hungry and Bread Pudding



CINDY BAO
4N ELECTRICAL

Not all the food blogs I read are about cooking food, there are those who simply enjoy the food. Arthur Che from Arthur Hungry (<http://www.arthurhungry.com/>) is one of the best examples.

Raised in San Francisco and going to school in Boston, Arthur Che has frequented countless restaurants in both cities as well as anywhere he has travelled. Some, I'd say most, of the places presented in the blog are posh and upscale, serving truffles and foie gras, while others simply the kind of joints students visit for a quick meal, like the Plaza. The motto of his blog is "eating one meal at a time".

The interesting, if slightly odd, thing about the blog is that for every meal he has eaten out, he took a picture for each of the courses he or his dining companion(s) ordered. Many of the photos are so mouth-watering, it's

definitely a pleasure just to see. Of course there are always his comments on the quality of the food and the overall impression of the restaurant. There is no doubt that he is passionate about the food and takes it seriously, much like a professional critic. It is surprising to see a guy in his early years with such an extensive experience in food. The better question is how a university student is able to afford all those frequent dining-outs, not being the child of Joanne Kates or the like.

Sadly, this blog offers no recipes. If one can easily reproduce those menu offerings at home, who'd go to a restaurant anymore? Much like what Toronto chef Susur Lee has to say about his recent publication, *Susur: A Culinary Life*: say you buy a book on architecture, do you race out to build something as soon as you've finished reading?

But being the recipe column this is, I'd share a savoury bread pudding found in the Food and Drink magazine, which is completely unrelated to Arthur Hungry at all.

It originally calls for 3 cups of fiddleheads, which are only found in the spring. So When I tried this out in my

test kitchen, I substitute other vegetables that would roast well, such as zucchini and cauliflower.

If your baking dish is larger, simply place all bread at the bottom and top with the vegetables and cheese, instead of layering.

Savoury Bread Pudding

Butter or nonstick spray
3 cups fiddleheads
2 tablespoons butter
2 cups sliced mushrooms
salt fresh ground pepper
5 eggs
1 cup milk
6 ounces crusty baguette, day old, cut in 1/2 inch rounds
1 cup Fontina or Oka cheese, shredded
2 tablespoons fresh herbs (tarragon, basil, chives, chevril)

1. butter an 8 inch (2 L) baking dish.
2. Rub brown papery scales off fiddleheads, rinse several times under cold water, drain well & trim off ends.
3. Melt butter over medium high

heat in a large skillet; add mushrooms and sauté for about 5 minutes or until softened. Add fiddleheads and sauté for about 3 minutes or until fiddleheads start to turn bright green and mushrooms are browned.

4. Allow mixture to cool; season to taste with salt & pepper.
 5. Whisk eggs, milk, 1/2 tsp salt & 1/2 tsp pepper together in a large bowl
 6. Place half the bread slices, overlap as necessary. Sprinkle with half each of the vegetables, cheese and herbs. Pour over half of the egg mixture. Top with remaining bread slices and pour over remaining egg mixture. Press down with a spatula to soak top layer bread with egg. Sprinkle with remaining vegetables, cheese & herbs.
 7. Cover & refrigerate overnight or at least 2 hours.
 8. Uncover pudding & press down again with a spatula; bake in a preheated 350F oven for about 45 minutes or until a knife inserted in the centre comes out clean & top is golden.
 9. Serve hot or warm.
- Makes 4 servings

Restaurant Review: Mr. Sushi



JOHN OLAVESON
3B CIVIL

I decided to broaden my search for restaurants this time. I went over to the Philip St. plaza (y'know, the one with Sugar Mountain). I found Mr. Sushi. Well, someone else found it for me, and that was a couple years ago. But like the Pita Factory, I find myself going back.

The menu only offers about five or six types of sushi, and I will not try to recall their names now. I would butcher the words. I shall instead describe what I found there. Salmon wrapped in rice wrapped in salmon. Breaded shrimp. Vegetarian sushi. Rice stuffed into shell-like bread-ing. I'm missing something, I know, but I blame homework for addling my memory. The sushi are sold in platters of eight for the veggie ones and four or six for the fish varieties.

I've tried them all and I love each one. Like anything I eat with chopsticks, I eat

"...the flavour offers a wonderful balance between intensity and delicacy."

sushi slowly. I'm glad, because the experience lasts longer. The flavour offers a wonderful balance of intensity and delicacy. The meal leaves with me a craving for more.

The service is instant. All the sushi is pre-made and pre-packaged. One need only walk in, select a tray or trays of food,

and pay. The process gets one seated (or walking to wherever one needs to go) within a minute. Be warned, though; they only accept cash.

If one chooses to dine in the restaurant, there is ample seating at handsome wooden tables. Mr. Sushi offers its customers complimentary helpings of a fish broth soup thing and green tea. Watch out for the tea, some people say it's not even worth being free.

The price is pretty good for what in Canada is an exotic food. I can enjoy a filling meal with a friend for about \$12. We get three trays and split them. We both get full, and we both enjoy a variety of sushi.



Sandford Fleming Foundation
E2 3336, ext 4008, sff@engmail
www.eng.uwaterloo.ca/~sff

FALL 2005 TECHNICAL SPEAKER COMPETITION RESULTS

FIRST PRIZE

Steve Young, Systems Design Engineering

OTHER COMPETITORS

Patrick Chan, Civil Engineering
Leya Behra, Chemical Engineering

SANDFORD FLEMING DEBATES FINALS

The finals for the debates will be held on November 4 at noon outside POETS in CPH.
Refreshments will be available.

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

ARTS CORNER

Screaming Silence

RAHUL N. BHARDWAJ
4A ELECTRICAL

A Raven sits on my porch,
This dried and dead home,
There's a shuffle of footsteps around me,
But I am all alone

Woken up by the call of my name,
And yet I don't know
Everybody picks me apart the same
In which direction do I have to go?

Brought down to my knees,
In this life I thought could choose,
The feel of her breath is now a distant breeze,
I thought you loved me?... I was so confused

I guess I do enjoy being the victim,
Breathing my pain through the air,
I admit, I am wrong as you told me
But all those dreams you gave me, it was never fair!

On this street of my life,
There's a child abandoned on every mile,
The face of a child that never sings,
But the silence is broken... always broken, when you're with him

Your love was the essence that fed my heart,
This room is well lit, but you are still a stranger in the dark,

I hear the rigging of broken silence and shattered souls,
It's a cold summer night, but my dream is not yet old... my dream is not yet old

Tears flow through my decaying face,
Never reaching the ground,
Someday I'll wake up and see,
Someday the blindness will end, and my eyes will never drown...

A silence louder than a scream,
This is the reality,
It is the truth, Of my shattered dream...

And a Raven sits on my porch,
This dried and dead home,
There's a shuffle of footsteps around me,
But I am all alone,
Old and I was always... all alone...

Iron Warrior ProfQuotes

"Kentucky Fried Chicken is now called KFC. They no longer fry their chicken, they F it."
-Larry Smith, ECON101

"Have I sold you my ideas yet? Buy my diagonal matrices"
-Aplevich, ECE 682

"When in doubt, buy something"
-Larry Smith, ECON 101

"When in doubt, get a kid if you can't think of something else to buy"
-Larry Smith, ECON 101

"The computer has eaten more homework over the years than any dog that has ever existed"
-Larry Smith, ECON 101

"It's great to have a name like mine. Practically anonymous and it's even my real name"
-Larry Smith, ECON 101

"I'm a prof, I don't have to do anything useful"
-Larry Smith, ECON 101

"Tomorrow at 10 is the time for the slamdown... err ... I mean smackdown."
-Glen Heppler, SYDE 281

"If you write that on an exam, I'll be inclined to take violent action..."
-Ed Jernigan, SYDE 252

"I suggest you pay attention. This is the most important lecture in this course, if not your entire life."
-Ed Jernigan, SYDE 252

(to the class before a midterm)
Prof: "You're in the big leagues now, you should be able to hit a curveball"
Student (crying): "But I don't *wanna* be in the big leagues..."
-Ed Jernigan, SYDE 252

"If you don't understand the Fourier Transform... here's a quarter, go call your mom, tell her your not cut out to be an engineer."
-Ed Jernigan, SYDE 252

"Notice how the equation... there's nothing to notice, it's just an equation."
-Stephen Birkett, SYDE 114

"There's nothing wrong with cheating, if cheating works."
-Chris Springer, STAT 231

"Optimal foraging theory is like a buffet. You hone in on the high-energy shrimp and you stay away from the carcinogenic red chicken balls."
-Hall, BIOL 250

"I'm a Virgo, but I'm not a Virgo!"
-McCormack, ENGL 105A

"When I'm marking, I take everything into account. I don't think 'he's a great scholar', I think 'he's a son of a bitch.'"
-McCormack, ENGL 105A

"This is the recipe for baking an external rate of return."
-Saccomanno, ENVE 292

"This is Robitussin coffee- the Robitussin's actually in the coffee! Not really."
-Jenkinson, ENVE 214

"What's that noise? I'm going crazy. It's the Robitussin."
-Jenkinson, ENVE 214

"You guys are gonna use this equation from now until the end of time."
-Jenkinson, ENVE 214

"This is the well-known Bernoulli Equation. And by 'well-known', I mean you have to know it well."
-Jenkinson, ENVE 214

"For those of you who sometimes open the textbook, this example is on Page 192."
-Potapenko, ENVE 223

"Pathetic right-hand-side, pathetic equation."
-Potapenko, ENVE 223

"If you have a hangover, two beers in the morning will fix this equation."
-Potapenko, ENVE 223

Joint University Singing Competiton At Fed Hall



University of Waterloo, University of Western Ontario, and Wilfred Laurier University. Each school will be sending 2 finalists to the competition. After auditions on October 13th, Desmond Pang and Kathy Fung were chosen to represent UW. The competitors will be singing mainly in English, Mandarin, and Cantonese.

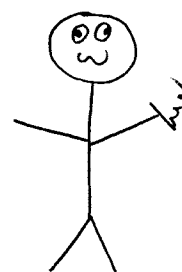
Doors open at 7:00 pm; after the show, there will be a dance starting at 10:30 pm. Tickets are \$10 for CSA members, \$12 for non-members, and \$15 at the door. Tickets will be on sale at the CSA With the exception for UW students, only 19+ will be allowed to attend. Apparently, the first 50 ladies that come in tube- or tank-top and mini skirt will receive free admission.

Hosted by the Chinese Students Association (CSA), the 9th Annual TownWest Finals is going to be held on November 16th at Federation Hall. This year, 7 universities will be participating in this event: McMaster University, University of Guelph, University of Toronto (Mississauga), University of Toronto (Scarborough),

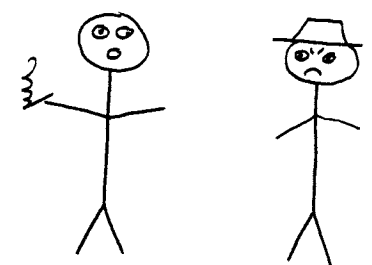
Mr. Grumpy

JOHN OLAVESON
3B CIVIL

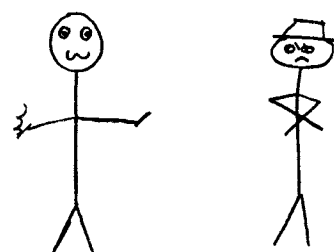
Mr Grumpy after a pot party.



Mr. Grumpy is caught!



Mr. Grumpy tries to bribe the inspector. The inspector arrests him.



Mr. Grumpy goes to jail, but a friend on the outside brings him drugs.



Phil's Rum

JUSTIN W. ANISMAN
1A SYSTEMS DESIGN

When I was a frosh! Not older than seventeen.
I idolized EdCom cause they looked so mean.
They told me of a grand but dirt filled bar.
The place was named Phil's and it smelt like old tar.

The morning after just before eight.
Trying to remember the last night of late
Feeling like hell and looking the same
I blame Phil's rum 'cause I cant blame the dame.

Wouldn't be the last time that I've gone to Phils
Thinking back on that hole it gives me the chills.
No wonder whenever I get back from that place
I got dirt in my nails and I'm fucking shit-faced.

Drink rum, drink rum, so thats what we say
And we do and we do and we do everyday.
Unfortunately for us we drink up Phil's rum
It tastes like crude oil and burns off our gums.

Now when I'm thirsty theres only one place In town
Not Fubar or Filthy's though the're both around.
I order from Phils a double rum straight.
I then order not one, but two, for my mate!

Even thought in the morning I dont feel so tough,
When I yell and I curse all of Phil's stuff.
But I can't abandon the last true bar in 'loo
So I don't and drink rum all the night through.

When winter comes swiftly and there's snow on the ground
in10SYDEe gathers to spread Phil's rum around.
We sit in a place that's small and that's warm
And drink up Phil's rum to wait out the storm.

Spread the news quickly for the time's almost come.
Suns down in an hour, everyone will succumb.
Tonight we will party 'til two or 'til three
A declare Phil's rum a legend, this is my decree.

PHIL NEWMAN
2B SYSTEMS DESIGN

Connect-The-Dots!



the Iron Inquisition

Philip Newman, 2B Systems Design

What's the best Halloween costume you've ever seen or worn?



"That guy."

- Chris Pellett, 2B Systems



"That guy."

- Kevin Li, 2B Systems



"The totem pole guy from MXE."

- Ken Smith, 2A Civil



"Slot machine/one-armed bandit."

- Erica Waugh, 2A Civil



"Uncle Jemima."

- Greg FitzGerald, 2B Mechatronics



"Super Mario."

- Adam Neale, 2B Electrical



"Ryan Harris as a cross-dresser."

- Emily Ecker, 2A Civil



"Mega Man."

- Jeremy Taylor, 3B Civil