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To you from failing hands
 90 Years Since the Great War
 Page 2
 Page 3

Point vs. Counterpoint:
 Should Cell Phone Usage in Cars be Banned?
 Page 6

Better Know A Beer:
 F&M Brewery
 Page 15

<http://iwarrior.uwaterloo.ca>

HOLDING THE TORCH HIGH

UW Scores High With Globe & Mail University Rankings Best Comprehensive Research School

MATTHEW CASSWELL
 2A CIVIL

The Globe and Mail released recently its 2007 University Rankings, ranking Waterloo the top Comprehensive University in Canada. Waterloo's reputation between current students, alumni, and employers also ranks top, with an A+ rating. While Waterloo is no stranger to these rankings, there are several other categories in which Waterloo ranks very highly.

Students at Waterloo are overall the 2nd most-satisfied students at large universities in Canada, receiving a grade of A-, which ties with the University of Alberta, and is just behind the University of Western Ontario, which received a grade of A. Waterloo also ranks highly in terms of its quality of education, receiving a grade of A-, while its students are amongst the most tech-savvy students in all of Canada. Kudos also goes out to Waterloo's faculty, who received an A on their knowledge of the subjects they teach.

Socially, out of Canada's large universities, Waterloo ranks 1st outside of Quebec (3rd overall) for its campus and environs bars and pubs.

Other well-scoring areas include library hours of operation (A-), preparedness for employment due to academic experience (A-), and the diversity of extra-curricular activities (B+).

Where did UW go wrong? UW's food gets a D overall (availability of organic food, value of food, and the number of healthy meal options available). The attractiveness of UW's campus and school spirit tie with a grade of a C, while the availability of scholarships and the quality of our off-campus housing both received a C-.

There was an increase in the overall safety/security of campus to a grade of A, and the Globe and Mail points out that some of Waterloo's top qualities include small class sizes, its multicultural student body, and the largest co-op program in the world. Waterloo was however reported as being one of the most academically challenging universities, with very heavy workloads. More information can be found at www.globecampus.ca.



Stuart Pearson

Wreaths of poppies were placed in front of the Veterans' Memorial on University Ave. More on pages 2-3.

President Holds Town Hall Discussion Addresses Fears of New Hiring and Spending Freezes

OM PATANGE
 3B NANOTECHNOLOGY

The two top executives of the University of Waterloo, President David Johnston and Provost Amit Chakma, tried to assuage the fears and concerns of faculty and staff following a recent announcement of a six month hiring and spending freeze. They took the stage in the Humanities Theatre in a Town Hall Meeting format on Thursday, November 5.

Johnston began the session by justifying the freeze with an assessment of the financial situation we all find ourselves in, "... it is reasonably clear that we're going into a recession..." He continued, "In a sense it would be business as usual [except that] we don't know what the economic horizons hold three, six, nine months out... we felt it prudent to be pre-emptive and to impose the hiring delay and freeze on discretionary spending..."

The UW community was invited to submit questions for a week prior to the meeting. In all, 32 questions were compiled from all the submissions. The most frequently asked question was regarding the health of the pension fund. Chakma, in his most definite answer of the evening, said of the nearly \$1 billion plan, "... technically, pension is secure..." He continued by describing the modest surplus that the plan saw in the last year, and the expected 15-20% decline to come. The possible state of the pension plan further in the future was left undefined.

In the freeze, one loophole has been left intentionally open. If an expenditure is "mission critical" then it can be discussed with the respective faculty dean and the

Provost, and be approved at the discretion of the Provost. The second most frequently asked question was regarding the criteria for determining "mission critical". To this, Chakma gave decisively the vaguest and most open answer of the evening.

Chakma reported, after lengthy debate, that he and colleagues determined, "...it's just impossible to describe all possible scenarios [of exceptions]. And then we decided to essentially use common sense but with a really high level of expectation of mission critical, so I cannot define what that is but I can give you examples."

As examples, Chakma described the hiring of a lab professor for the new Pharmacy program in downtown Kitchener. The mission critical criterion is met because Pharmacy is a new program, and UW does not have the capacity to run the lab unless a new professor is hired. In an example of a mission critical staff position, Chakma cited the overstretched security on campus. To provide adequate security for the downtown Kitchener campus, something considered mission critical, a new security guard would be hired.

An important message of the Meeting was that all major expenses at UW are based on sound business plans. This means that an activity is only undertaken if it will be able to pay for itself at steady-state, making it essentially revenue neutral. Under this category Chakma included all construction projects and new programs - which some saw as a drain on the finances of UW.

Thus, construction projects like the Quantum-Nano Centre and the new Pharmacy building are not drains on the operating budget. In fact, new programs and

campuses tend to contribute incremental revenue to UW's coffers. Chakma illustrated using the planned campus in the United Arab Emirates. It is expected to generate more than \$20 million in incremental income when it is operational. In another case, the revenue provided by two new programs started by UW's smallest faculty, Faculty of Environment, are chief in the reasons that make it able to tackle the current financial crisis.

The executives kept returning to the topic of expanding UW's revenue streams. They proposed the best ways to do this are to expand undergraduate enrolment, course based Masters' programs, and distance education. They also want to increase the number of international students as they pay higher tuition than domestic students. An emphatic plea to the entire UW community was expressed by Johnston and Chakma to take these suggestions to heart and take action.

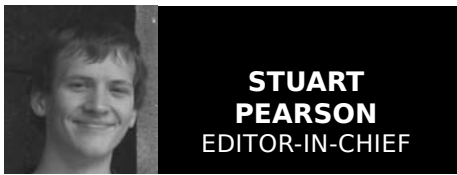
On a related note, the availability of scholarships for students was discussed. The source of these scholarships is the operating budget and endowment funds. Both of these are adversely affected by the current economic situation and freeze. However, payouts to students are expected to remain strong for now, with potential decreases expected in the short to mid-range future.

With expenses curtailed, questions were raised concerning UW's ability to continue to strive to be an international calibre institute.

See SPENDING FREEZE on Page 3

Letter from the Editor

To you from failing hands we throw the torch; Be yours to hold it high



**STUART
PEARSON**
EDITOR-IN-CHIEF

*In Flanders fields the poppies blow
Between the crosses, row on row,
That mark our place; and in the sky
The larks, still bravely singing, fly
Scarce heard amid the guns below.*

*We are the dead. Short days ago
We lived, felt dawn, saw sunset glow,
Loved, and were loved, and now we lie
In Flanders fields.*

*Take up our quarrel with the foe:
To you from failing hands we throw
The torch; be yours to hold it high.
If ye break faith with us who die
We shall not sleep, though poppies
grow
In Flanders fields.*

— Lt.-Col. John McCrae

Now I know that I am a few days late for this, but there is a very important issue which I would like to address. For two weeks every year, Canadians purchase little plastic poppies to commemorate those who fought for us. I usually go through several flowers each year, although my pinning techniques have improved considerably in recent times, resulting in slightly fewer missing poppies. They cling to our jackets but often fade quickly into the background, their meaning becoming lost in the hustle and bustle of our busy 21st century lives.

It becomes all too easy to let the traditions turn into clichés and blur together; a recitation of *In Flanders Fields*, bugling of *Last Post*, and then a moment of silence. I urge you not to just go through the motions- take the time to reflect on the blessings in your life, and on the brave men and women who went through hell so that we don't have to.

All too often, we take for granted the relative security of our daily lives; I wake up every morning, hop on my bike, go to school, and return home more or less in one piece. We sleep soundly at night knowing that our families are safe, that we can enjoy the right to free speech, and that we will wake up with the same freedoms as our neighbour, regardless of our differences. Life inside that cozy bubble of good fortune tends to distract us from the fact that many people around the world do not enjoy the same rights and privileges. What's more, were it not for the fortitude and selflessness of veterans and those who died in war for Canada, neither would we.

War is incomprehensible to anyone who has not experienced it first hand. In my cushy suburban upbringing, I have never

witnessed anything that remotely resembled it, despite Hollywood's best (and at times misguided) efforts. It is beyond my comprehension and I hope that I never have to find out what it is really like.

With more and more veterans of the Second World War disappearing, there is a growing disjoint between the current generation and the sacrifices made over sixty years ago. For instance, I personally feel little connection to the War of 1812. Nearly 200 years later, its impact is still very important: if the then still-British Canadians hadn't defeated the Americans, our country would probably look very different today and most of us would not be here. However, it is difficult to connect to it and perceive it as a real experience when it happened so long ago. Let us hope that by being proactive and keeping history alive, students 140 years from now have a greater appreciation for what happened during the First and Second World Wars, and the many other conflicts in which Canadians have served.

My dad's father was Canadian but fought in the Second World War with the British Royal Air Force (RAF). He was the pilot of a Lancaster bomber and defied the odds, surviving twenty-one missions over Europe during the final years of the war. In a line of work where the average pilot lasted only five missions, it certainly puts our own lives into perspective. When was the last time you did something with a mortality rate like that? Many students have similar stories about their grandparents or other family members who fought in the war; it was an event that to this day profoundly affects everyone, directly or indirectly.

Most of the young men who went off to fight were no older than most undergraduate students here at Waterloo. Imagine if tomorrow you were plucked from your studies and sent across an ocean to fight for your country. Understandably, the soldiers would have been scared of what lay ahead, and afraid of losing what they had left behind; nevertheless, they heeded their country's call and bravely rose to the challenge. Such selflessness and courage sometimes seems to be in short supply these days.

In the increasingly crowded and shrinking little global village of ours, it is more important than ever to keep the peace and honour those who do all the hard work. The men and women currently fighting overseas in Afghanistan and Canadian peacekeepers around the world continue to uphold their country's mission to make the world a better place.

Life is fleeting; you need to make the most of every minute of it because you never know when your time will be up. Life is ultimately what you choose to do with it. The truly incredible thing is that the brave men and women who fought in the wars chose to use their precious gift

of life not for themselves, but to help us. That sacrifice is priceless and we are forever indebted to them. Those who died fighting paid the ultimate price, but even the ones who returned home were changed irrevocably, having sacrificed their youth and experienced horrors that no one should ever have to face.

Life is awash with difficulties and hardship, and it is impossible to face it alone; we get by with the help of those who came before us. Take a moment and pause to think about those who blazed the trail for you. Your parents, family, mentors, and friends enable you to make it through life's struggles, which can be challenging enough without having to worry about your own safety and freedom. Above all, remember those who fought so that we could enjoy simple rights and peace. Be thankful for those with the courage and the passion to fight for what their country believes in. Canadian soldiers from World War I to Afghanistan have put their nation's well-being and ideals ahead of their own, and for that we must be forever grateful.

Remembrance Day should not come just once a year; we must hold the torch high, and always remember.

This issue is dedicated in fond memory of Jerry Wheaton, a wise mentor, genuinely good man, and UW Electrical Engineering graduate of 1981.

Letter to the Editor

RE: WIE Tea Party

For my list A CSE I'm taking WS 205 - Gender and Technology. The course isn't what I expected - the definition of technology is very broad, and isn't looking at things from as technical a viewpoint as I'd like. I had started to think it was a complete waste of an elective. You know, the kind of course that has interesting information, but isn't really worth using one of our 4 electives on. Then I read about the opposition Jaclyn had been encountering to the idea of a Women in Engineering tea party. As I was reading the article I was trying to figure out why she wasn't mentioning the issues with having such a feminine event for people in a symbolically male profession such as engineering. Then I realised that a) I really needed to get out more and b) that there was actually something useful in my CSE. If we want to be serious about increasing the numbers of women enrolled in engineering, we need to make sure that engineering is open to all women, not just to those who act like men. Studies have shown that social networking events are useful in helping women in engineering, not just in keeping us in school, but after we graduate too (I had to read two of these studies for class the other day). Let's work on making those events open to everyone.

Christine Steele
4A Mechatronics

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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.

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Keeping Remembrance Day Relevant



ALEX GIROUX
3B MECHANICAL

It's November 2008. 90 years since the signing of the Armistice that ended the First World War. 63 years since the end of the Second World War. The First World War, the "War to End All Wars", certainly wasn't, but every year, at the eleventh hour of the eleventh day of the eleventh month, Canada as a nation stops. But what does remembrance mean these days?

For a large percentage of Canadians, remembrance means that for two weeks out of every fifty-two, you wear a poppy somewhere on your coat – provided you don't lose it within the first day of wearing it. I managed to set a new record this week, losing my poppy five minutes after pinning it on. Don't worry, it's been replaced.

I don't know what remembrance means to whoever happens to be reading this article. I can't tell you what it should mean. That's not why I'm writing this article. I decided to write this article to remind you, dear reader, that although the World Wars are long over, there is still reason to stop at the eleventh hour of the eleventh day of the eleventh month along with the rest of Canada. In fact, Remembrance Day should be even more relevant to our generation – the past decade has seen the war in Afghanistan, bringing with it almost 100 Canadian deaths. Although Canadian soldiers have died in other conflicts since 1953, these were mostly peacekeeping operations. I personally am not a proponent of war, but I do believe that there is a purpose in these operations. Peacekeeping operations are difficult, expensive, and often dangerous, but the difference that can be made is enormous.

Now, I'm not saying that the millions of deaths from world wars during the first half of the twentieth century are no longer

relevant. If anything, they are more relevant than ever, as conflicts continue around the world. The First World War was called the War to End All Wars, but only 21 years after the Armistice of 1918, the world was once again plunged into turmoil. The Second World War spread even farther than the First, with the war being fought not just in Europe but in the Pacific, the Atlantic, Russia, and Africa. German U-boats even operated in the St Lawrence Seaway. The end of the Second World War led immediately into the Cold War, Korea, and a world living in fear of nuclear weapons. Sure, the War had ended, but can you really call teaching children to "duck and cover" and building fallout shelters peace? I don't. On top of the Cold War, there was also the Vietnam War and numerous other localized conflicts, many of which resulted in peacekeeping operations to which Canadian troops were deployed.

Now we're in the 21st century. Afghanistan and Iraq. Again, I don't support the American war in Iraq, but I stand behind Canadian soldiers in Afghanistan. My co-op job this summer was on a military base and even though I was working in a civilian office, it was a pretty horrible feeling to drive up to the base in the morning and see the flag flying at half-mast.

So this November, wear your poppy and remember not just the soldiers, sailors and airmen who fought and died, but also the civilians who died. Remember those whose lives were forever marked by scars, both physical and psychological. Spare a thought for the Canadian troops who are currently serving. Wear your poppy for your great grandfather, your grandmother. Wear it for the guy who grew up down the street from you who's over in Afghanistan until January. Wear it for all victims of war.

But please, please, do not forget why Canadians are wearing poppies in the first place.

Lest we forget.



Stuart Pearson

Fall 2008 Employment Statistics Released

World Economic Downturn Has Little Effect on Co-op Employment



MATT CASSWELL
2A CIVIL

Co-operative Education and Career Services released last week information about this term's (Fall 2008) co-op employment rates for UW students, with promising figures for students as Canada and the rest of the world continues through growing economic troubles.

The Fall 2008 work term has 99.6% of engineering students employed, meaning that only 15 engineering students were not employed for this work term who were eligible to be. In addition, out of the 15 students, a majority of them were senior engineering students. For all faculties, there was an overall increase of 300 students employed for the Fall 2008 term compared to this time last year. Science had the largest increase in co-op students, partly thanks to the first work term starting for students in the new School of Pharmacy.

So far this year, the current economic

crisis appears to have a relatively small impact for co-op jobs for students. "It's perhaps not surprising," says Peggy Jarvie of CECS, "that the economic downturn hasn't had much impact on Fall employment, since the financial crisis didn't occur until well into this term."

For the upcoming Winter 2009 work term, 2,732 of 5,214 (54%) of eligible students have been employed, which is 160 more students than this time last year. There is one sign of the economic downturn, however, making its presence – the overall rate of job cancellations has doubled since the Spring 2008 term, to 14.5%. Most of these jobs were cancelled due to budget reasons, but other reasons include hiring freezes and cutbacks (similar to the conditions recently imposed by UW).

CECS is currently monitoring the current situation, and is building on the experience from past economic downturns to provide as much support to students and field co-ordinators as possible, part of which may involve students being open to different alternatives in order to secure a co-op job.

Keeping the Ship Afloat in a Time of Uncertainty

SPENDING FREEZE
Continued from Page 1

Johnston warned that the road to improving things like the student to faculty ratio, currently at 20:1, would now be slower but would remain a mid to long-range goal. Chakma gave examples of continued, active recruitment of a very senior professor for the Arts Faculty from another Ontario university and one for the Institute for Quantum Computing and the Department of Chemistry from an Ivy League school.

Chakma noted that "...savings are questionable..." when senior professors are let go and younger, cheaper professors are hired. This was in response to several questions about what retirement incentives are being considered for older professors. He also said, "...we suffered from an exodus of talent when we introduced [early retirement incentives in the past]... anything we do we want to make sure that we don't lose our talent pool. It takes time to build a talent pool."

Despite these reassuring comments, the issue of layoffs permeated the talks. Everyone gathered wanted to know what is the likelihood of being fired. This was the most emotional issue raised in the meeting – one woman was literally moved to tears. Each time this issue was brought up, Johnston and Chakma replied that they

were trying their best to avoid firing anyone. In fact, they said, the freeze is imposed in order to improve their financial flexibility and to minimize layoffs.

When pressed to reveal their firing preferences, the executives differed to a Human Resources colleague who cited Policy 18 – Staff Employment. She expressed how generous and positive this policy is, but said, "I don't urge you to read it..." as they are far from considering layoffs at this point.

Among the more surprising and humorous questions of the evening was whether Christmas parties would be cancelled. To this Johnston replied with a resounding no, but asked everyone to be prudent.

In all, the message sent in the Town Hall Meeting was one of resilience and community. Only time will tell what the future holds for our University.

Anthem for Doomed Youth

WILFRED OWEN
1893 - 1918

What passing-bells for these who die as cattle?
Only the monstrous anger of the guns.
Only the stuttering rifles' rapid rattle
Can patter out their hasty orisons.
No mockeries now for them; no prayers nor bells;
Nor any voice of mourning save the choirs, –
The shrill, demented choirs of wailing shells;
And bugles calling for them from sad shires.
What candles may be held to speed them all?
Not in the hands of boys but in their eyes
Shall shine the holy glimmers of goodbyes.
The pallor of girls' brows shall be their pall;
Their flowers the tenderness of patient minds,
And each slow dusk a drawing-down of blinds.

Beyond the Ring

Bridging the gap between university and the work force



Jim Estill, B.A.Sc.
CEO of SYNEX Canada Ltd.
SYDE Alumnus
Class of 1980

Efficiency for Life

Author, entrepreneur, and CEO Jim Estill will be discussing time management strategies for success which helped him become a leader in the Canadian technology market.

Tuesday, November 18, 2008
11:30 am to 12:30 pm
DC 1302

Food and beverages will be provided

TalEng: Engineers Really Can Sing!



ADRIANA CAMERON
2A CIVIL

This term's engineering talent show, better known as TalEng, took place Tuesday November 4th at the Bomber. For those of you that weren't there, you really missed out! The night kicked off with a plentiful supply of free appetizers, including pizza, wings, and nachos. Our emcee for the evening, Sean O'Neill, wore a classy blue sequin blazer with matching hat.

Prior to the first official act, Michael Seliske and Stuart Pearson decided to take the stage and sing Star Spangled Banner to celebrate election night in the states.

The first act of the night was Adam McRae and his laptop. He created an entire band using his laptop. He started crafting a song by recording a simple beat into his laptop and looping it over and over again. He continued to add to the song by adding guitar, bass, and eventually vocals.

The next act consisted of Alessia Daneilon singing with her friend Claudia on guitar. They performed a lovely acoustic cover of the Foo Fighters' *Everlong*.

After that, Junaid Malik and Hussein Kotob covered Neil Young's *My My, Hey Hey*. and Bob Dylan's *Knocking on Heaven's Door*.

Following their act was an acoustic set by Adam Neale. Much to the joy of the audience, he played a song from the amazingly popular *Dr. Horrible's Sing-Along Blog*, Avril Lavigne's *Complicated* with a bit of *What I Got* mixed in, and *The General* by Dispatch, which has been stuck in my head for the last three days.

The Tool then made its usual grand en-

trance, with the Toolbearers sitting near the front; the remaining performers had the challenge of suitably impressing them. The Toolbearers judged the next performances; ever silent, they made paper signs to indicate their approval (or or downright disgust).

The next act to take the stage was Natalie MacDonald, who sang *The Marc Tan Song*, a homage to the nightlife of the titular TalEng organizer. Marc Tan himself then came up to the stage and danced interpretively to the song.

The next act was a little more serious. Vignesh Jayakrishnan played a duet with one of his friends followed by a Radiohead cover on his own. He did a really good job of the Radiohead cover, *True*

Love Waits, and could actually hit all of the high notes.

Following that, we all got to see a sneak peak of this term's Engplay, *Underwear*. Be sure to get your tickets for the show next week!

The next act to perform was Stefan and Paul. They played several songs including *King of Spain*, and the Barenaked Ladies *One Week*. The crowd enjoyed their performance so much, that everyone chanted for an encore. During their encore, they played The Beatles *Twist and Shout*, and we all had the chance to stand up and dance.

After that, the Engineering Society election results were announced, and the old exec welcomed the new exec. The

new exec was instructed to form a human pyramid, were then covered in a mixture of chocolate pudding and stale C&D bagels.

The next act was WACappella, Waterloo's appropriately-named a cappella club. WACappella was simply amazing and left the crowd in awe. They played *King of Spain* and then the Monkees' *I'm a Believer*. If you've never seen WACappella sing before, I would highly recommend that you try to catch their next performance.

The final act of the night was a stand up comedy routine by Jeff Lipnicky. His routine generated quite a bit of laughter, with minimal heckling. After his routine, he made up a story using dirty words shouted out by the audience.

Between acts, audience members had the opportunity to exchange their dignity for candy and prizes from Dollarama, through participating in one of several games. One of the games was a spelling bee, where contestants had to spell challenging words including "Dog", "Cat", and "Szybalski". In another game, contestants were required to tape a cup and a ball on the string to the front of their pants. The idea of the game was to get the ball into your own cup, and then into your partners cup. As I'm sure you can imagine, we all got to see the contestants do some awkward looking motions and get into strange positions.

I'm sure that everyone that got to enjoy the show would like to thank the TalEng directors Marc Tan, Chris Szybalski, and Philip La, for pulling such an awesome, well run show together. Thanks also go out to the many talented performers who decided to come out and play, a great night was had by all. Hope to see you there next term!



Stuart Pearson

Paul Tucker and Stefan Nespoli serenade the Bomber last Tuesday

EngSoc Election Wrap-Up



JEFF LIPNICKY
CHIEF RETURNING
OFFICER

This term we set a record (at least in recent history). Voter turnout for the referendum and election was 28.1621457%. Typically, the turnout is in the range for 7-15% with the old paper ballot system, so clearly, moving online made things better. A number of students decided to "decline to vote", however they are still exercising their democratic right – they just didn't feel they had enough information or they could not select a candidate. This points to a need to increase awareness

of the candidates in future elections so that we can have more informed voters.

Now onto the results. First, the acclamations. Sarah Scharf is the President-elect, Mike McCauley is the Vice President, External-elect, Tim Bandura is the Vice President, Internal-elect, and Jay Shah is the WEEF director. All four were ratified by the Engineering Society Council at the last meeting. The Vice President, Education-elect is David Liu and the Vice President, Finance-elect Eric Cousineau. Congratulations to you all! These results are still "unofficial" until the vote of council outlined below.

Also, congratulations to all of the candidates who ran for a position in this election. It is great to see people step up and get involved. Hopefully you will continue your involvement with EngSoc in the terms to come.

For the referendum, 50.7% of vot-

ers said that the fee should not be raised. 39.1% said that it should, with the remainder declining to vote. Again, these results are "unofficial" until they are accepted by council.

There was one hiccup in the election and referendum this term. A number of graduate students were invited to vote, even though they are not eligible. The error seems to be limited to students from the Class of 2008 who have returned for graduate studies here at UW. I removed the ones that I knew about, and none of them had already voted. However, it is possible

that some "fell through the cracks" and did get a vote. Therefore, at the EngSoc Meeting on November 12 (the day this issue is published) I will have

a vote of council to see if they feel the election was "fair and equitable." If council feels that the election/referendum was compromised, then it will be re-run (either online or paper-ballot, as council decides). As well, I will be giving a presentation with the results and summarizing the online voting system (both benefits and areas for improvement).

I have received a number of questions about ratification. Per the constitution, only acclaimed candidates need to be ratified by council. A vote of the membership (such as the election) is above a vote of council since council is only made of representatives of the membership. If anyone has any questions about this, I am more than willing to discuss the topic with your further.

Thanks to everyone who helped me out with the election – especially my assistant Kiri. If anyone has any comments on the election, please let me know.

VPX Report



DAVE HALFORD
VP EXTERNAL

Hi Everyone,

I'm going to keep this report brief because I'm really sleep deprived after taking my Dad to the AC/DC show last night, getting back to Waterloo at 2 am, and waking up to leave for PEOSC in Windsor at 4:30am. The first thing that I want to say is that the AC/DC show was f#%&ing amazing and I couldn't help but think of our glorious mascot The TOOL as Back in Black was being performed as a piece of both musical and theatrical genius.

Congratulations to Mike McCauley who has been ratified as your new VP External and the rest of the members of our new executive team.

The past few weeks have been pretty quiet on the external communications front. A new CFES electronic bulletin was released

today which can be found at www.cfes.ca. One opportunity of particular interest is that there are opportunities to participate in CE Courses in Europe. These are short, usually week long courses meant to help compliment your engineering education.

The Ontario Engineering Competition Qualifier will be held this Saturday from 11am-4pm. This qualifier will be for both the Junior and Senior Design teams as well as the Consulting Engineering Team. For more information contact Kevin Liu (k13liu@engmail.uwaterloo.ca).

Lastly, Movember is in full swing and there are many fine (and many sketchy) moustaches being sported around campus by handsome young gentlemen and one President Elect Sanchez. If you see these gentlemen walking around, please show your support for them and Prostate Cancer Research by offering to sponsor them. There is also a Donation Box in the Orifice.

Cheers,
Dave

EngPlay Presents:

The Underpants

by Carl Sternheim
adapted by Steve Martin

Nov 20-22
7 pm

Tickets \$5/ea
Available in the Orifice

ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



TYLER GALE
PRESIDENT

I have a couple of exciting announcements and a few regular updates for your reading enjoyment. As a general preamble, if you would like to discuss, clarify, or find out more regarding any of the information here, feel free to drop by the orifice during business hours (or if the door is propped). You can always send me an e-mail at asoc_prez@engmail.uwaterloo.ca as well.

POETS is being renovated! It has been two years since the plans first went in to the university architect and it is sounding more and more likely every day that plans to renovate POETS will finally become a reality this December. Construction activities are planned for December to minimize disruption to regular CPH and lounge activity. The renovations will involve moving the bar to the back of the main floor where the foosball table is currently located, construction of a serving hatch behind this new bar to serve directly to the patio, and taking down the awkward wall that currently separates the foosball table from the main lounge. This renovation will increase the size of the bar and the amount of space available in the main floor seating area.

The Engineering Society website is being renovated!! Well, I guess overhauled would be a more accurate statement. The plan is to create a content management system for the site, as well as an online novelties store. The necessity for the revamp arises from difficulty in upkeep of the current site. Up-dated-

ness of site content has become a visible issue over the years. The main reason why it has been so difficult to keep up to date is because there has always been a disconnect between the people who would like to modify the content and the people actually implementing the changes (i.e. the webmasters). Further to this, bringing the novelties store online offers the opportunity to reach the many thousand UW Alumni scattered about the globe.

Many attempts have been made to revamp the engineering society's use of our web space over the years. The difference this time is that we have negotiated details in a forty-page document with a web developer whom we are paying to do the job. Every other attempt has involved voluntary time, and has lacked this kind of thorough planning.

Executive Transition!!! Alright maybe this isn't quite as exciting, since it does happen every sixteen months. My congratulations go out to the new executive for their election and acclamation results. The next step moving forward is transition between old and new. Us old dogs need to pass the clutter of information in our heads on to the new kids. This will include a recipe of meetings, documentation, team-building and a pinch of tradition.

Find out More!!!! Council meeting 5 will be held November 12th, tentatively in CPH 3385. Highlights in the agenda include Paula and Paula Plummer Award Nominations (In case you've never seen one of these before, they are notorious for their hilarity) and adoption of the brand-spanking new policy manual. We will be migrating over to Front Row for appetizers following adjournment.

VPI Report



SARAH SCHARF
VP INTERNAL

A week into November already! Where did the term go? I hope everyone has been enjoying the recent events. I'd like to give a big thank you to my TalEng directors. This term's TalEng was a great success. Thank you also to all those people who performed for our entertainment. All acts were really well done.

For those of you who missed out on our Halloween fun, it too was a hit among the engineering students. Thank you to all the 2012s who participated in the costume contest. The pie-eating contest was quite the sight to see, and Matt Hunt is still the reigning pie-eating champion. Anyone interested in challenging this title should start practicing for next year!

It was also great to see so many faces at this term's first couple of athletics events. For those that missed out, don't be too sad. There is an athletics event every week for the next few weeks. If your class would still like to sign up a team, send an email to asoc_athletics@engmail.uwaterloo.ca. Coming up this weekend we have a dodge ball tournament. Someone make a team worthy of opposing the

Civs, they have been unstoppable for too long!

Don't worry, if you've been too busy studying to make it out to the above mentioned events, there are still many more to come. Wednesday November 12 is EngSoc Council Meeting #5 so come out and hear about important EngSoc events/issues, and afterwards we will be enjoying some appetizers.

For those of you who enjoy having a great time, Friday, November 14 is Semi Formal, and the theme is "Midnight In Paris". Over 40 tickets have been sold so far, and there are still many dance-only tickets available. Architecture students have also been invited to this event, so it should be quite a great time. We have a great DJ coming out and there will be an appearance by a very special guest.

Other events coming up soon include Genius Bowl, EngPlay (for those of you who missed the preview at TalEng, it's going to be hilarious!), potluck, EOT and last but not most certainly not least is the Jazz Band Charity Gig. Tickets for these events will be on sale at in the weeks prior to the dates.

Get out of your study room and enjoy some EngSoc fun! Before you know it you will be glued to the books studying for finals, so have some fun while you can! Hope to see everyone at Semi!

WEEF Report



BRANDON DEHART
WEEF DIRECTOR

Hey folks! We're right in the middle of funding council decisions right now. By the time this paper is distributed, both of the presentation meetings will have been completed and we're about to have a funding council meeting on Thursday night (Nov. 13th). If your class *still* does not have a WEEF Representative, I would suggest you do it quickly. They should be at that meeting.

For those of you who do not know how the allocation of WEEF funds works, here's a quick and dirty primer: Anyone and everyone at the school is allowed to

make a proposal and a presentation to the WEEF Funding Council, which is made up of a representative from each and every undergraduate engineering class that is on stream. Once the funding council has made their decisions on which of the proposals will receive full, partial, or no funding this decision is given to the Board of Directors, made up of at least 2/3 undergraduate student members, the Dean of Engineering, and alumni. The board reviews the decision made for adherence to the constitution and policies of the foundation and passes it. Once it has been passed, the funding can be used by the groups at once.

Well, that's all for this episode, next issue will contain the funding council's decision and my final Director's report. Ever. *tear*

VPF Report



ADAM MELNIK
VP FINANCE

In the interest of effective communication please browse the following list of pertinent information:

- Class t-shirts can still be ordered through Kim Osbourne, contact her with designs and questions at kosborne@uwaterloo.ca
- Get your tickets to semi-formal as soon as possible – they are hot items!
- Please submit receipts directly after events are held, current expense turn

around time is less than two days!

- Look for a huge Novelties blow out sale in CPH Foyer soon!
- Check out Novelties – UW Engineering toques, flasks and belt buckles are on the way!
- Join me in congratulating Eric Cousineau – your newly elected Vice President Finance!

Please feel free to contact me at asoc_vpf@engmail.uwaterloo.ca with fresh ideas that you would like to see implemented in the coming 16 months. Your comments will be taken into account during the exec transition period!

VPED Report



JEFFREY LIPNICKY
VP EDUCATION

It is with great sadness that I write this, my second to last executive report. *tear* Actually, not really. It is just one less thing for me to worry about. Speaking about worrying: did you know that there is a petition going around about the lack of Counselling support available to students? You should! Because there is! Class reps, please pick up the petition, bring it to class, and return it to my mailbox in the Orifice by November 21st. I will be tallying up the responses and forwarding them to the Dean's Office, along with a document outlining suggestions for improvement of these services.

Also with the Dean's office: I have sent both Deans (Sedra and Rothenburg) a letter outlining our (the students) distaste with respect to the PDEng Independent Review timeline. The letter is also on the EngSoc website for those that want a read, and I will be delivering it to the external reviewers when they are selected.

Now onto coop terms. For those of you wishing to do a "humanitarian" work term (such as those with EWB, religious groups, other humanitarian organizations), getting credit for the term has become easier. A new coop term designation, "complimentary work term", is being used to characterize these types of placements, and students will be granted credit for one "complimentary work term" throughout their degree. A "complimentary work term" can be upgraded to a "regular" work term if the student is able to effectively demonstrate the

engineering content in the position. Having these types of work terms approved has been an issue in the past, but now CECS and the Faculty have reached an agreement on how to deal with them – at least in the interim.

I would also like to inform students that if you are interested, you can take an 8-month work term placement without falling a year behind. There is one caveat. You need to be in a two-stream program (i.e. Mechanical, Chemical, Electrical). It is possible to do a "stream switch" in order to work the 8-month coop term in, and not too much extra effort. If you are interested in this option, you can contact me, or speak with Janet Metz or Randy Dodd over in CECS.

Related to work terms are work term reports. Recently, ECE has changed the work term report to a mandatory milestone that must be completed before a student can proceed to the next term. You can contact the ECE department to get the specifics, but basically, hand in your work term reports when they are due and you won't have a problem.

To close, I would like to thank my directors for their work the past few weeks. We had a successful Course Critique Stuffing Party (so look for the course critiques in class, and then come out to the Reading Party!) last week. Also, we had a Frosh Mentoring event with Cotton Candy and all kinds of other good things that start with 'C'. It was a de-stresser for everyone; modeled on the grade 'C', which is what is required to stay in engineering. Thanks for your work guys and gals!

In other news, my stand-up act needs work. But don't fret, I'm still funny.

POINT VS. COUNTERPOINT

POINT



ADRIANA CAMERON
2A CIVIL

Ontario's Transportation Minister Jim Bradley has proposed a new law, which would make driving while talking on a cell phone illegal. The proposed ban is also applicable to text messaging, emailing, using hand held GPS systems, playing portable video games, and a variety of other distracting activities which I'm really not sure why anyone would partake in while driving in the first place. Under this new legislation, using hands free devices, and calling 911 while driving would still be permitted. If caught driving while talking on a cell phone, the driver would face a \$500 fine. Furthermore, the driver could lose demerit points under the existing Highway Traffic and Safety Act. Similar laws are already in place in Nova Scotia, Newfoundland, and Québec.

The justification for this new bill is simple; using a cell phone while driving creates a distraction increasing the chances of accident. Transportation Minister Jim Bradley stated that "research shows that drivers using hand-held devices are four times more likely to be in a crash than drivers who are focused on the road". According to the US Department of Transportation, driver inattention is the cause 25% to 30% of accidents which are reported to police. In most of these cases, the cause of the inattention is cell phone use. Using a cell phone creates manual, visual, and cognitive distraction.

A task like dialing a phone, text messaging or even holding a phone requires the driver to take one hand off the wheel. How many times have you seen people driving too fast, too slow, not signaling, or even drifting in and out of a lane while talking away on their cell phone? Dialing or text messaging also requires the driver to take their eyes off the road. Consequently, the driver is less aware of what is happening on the road, which is in no one's best interest. If something unexpected were to happen on the road, it would be much easier to react appropriately with two hands on the wheel and eyes on the road.

In addition to taking a driver's hands off the wheel and eyes off the road, a cell phone can also take a driver's mind off the road. Carrying on a phone conversation diverts the driver's attention from the road to the conversation. This is especially true when the driver is carrying out important business conversations, or even very personal and emotional conversations. Sure, they may be able to see what is happening on the road in front of them, but are they actually focused on that?

According to Transport Canada, 68% of Canadians support a ban on using cellular phones while driving, while 64% of Canadians rate using cell phones while driving as a serious or extremely serious problem. The Ontario Medical Association suggests that driving and using a cell phone is just as dangerous as driving while at the legal alcohol limit. Similarly to driving under the influence of alcohol, using a cell phone while driving significantly increases the reaction time to an unexpected event.

Using a cell phone while driving should not be a personal choice when it is a matter of public safety. Currently, reckless driving is punishable under the Highway Traffic and Safety Act. However, there is presently no law specifically pertaining to the use of cell phones while driving. In some cases under the Highway Traffic and Safety Act using a cell phone can result in a reckless driving charge, but this act does not address the elevated risk associated with using a phone while driving.

Although it is easy to argue that eating, drinking coffee, disciplining children, putting on makeup, adjusting the heater and changing CDs, are all activities that are just as dangerous, if not more dangerous than using a cell phone, it would be impractical to enforce a ban on many of these activities. However, this is not justification to not place a ban on cell phones, because the fact of the matter is that driving while on a phone is dangerous.

In addition to being dangerous, cell phone use while driving is also completely unnecessary. I don't think that anyone can deny that some accidents can be directly attributed to cell phone use. It is very hard to justify that using a cell phone while driving is acceptable, when it directly results in accidents and even fatalities.

Should Cellphone Usage be Banned in Cars?



SYLVIA WU
1T MECHATRONICS

The McGuinty government's newest attempt at controlling every possible aspect of its provincial subjects' lives claws its way into the 15 cubic ft inside a car. On October 28, a proposal to ban the use of hand-held devices to talk, text or e-mail while driving was announced. This new "Countering Distracted Driving and Promoting Green Transportation Act" is full of loopholes, and its passage will not guarantee safer roads due to less distracted drivers, contrary to what some naive Ontarians may think.

The ban primarily focuses on hand-held electronic devices that could take one or more hands of the driver off the wheel. Cellphones without Bluetooth headsets and GPS units without dashboard or windshield mounts fall into this category. Hands-free calling is permitted, so are secured GPS units and portable media players "that [have] been plugged into the vehicle's sound system." It does not ban lipsticks, coffee mugs or screaming babies who stink and in desperate need of a diaper change while driving 140km/h down a remote section of Highway 401, which are all perfectly valid ways to distract a driver. More importantly, the details that have been released thus far on this Act does not mention a word of how it will promote green transportation- talk about misleading name and inadequate preparation for a news release!

While holding a cellphone to your ear while driving could cause a sore neck, tilted vision, and/or (God forbid) leaving only hand on the wheel, it is the conversation that is often more distracting than the act. Driving with one hand is not acceptable during a driving exam, but admit it, you have all done it: whether it's toggling with the channels on the radio, messing with the equaliser, or adjusting air conditioning. Feel free to argue that the previous 3 examples only take a short amount of time, but anyone who has driven a trip longer than 3 hours in remote country where good radio recep-

COUNTERPOINT

tion doesn't come as a privilege knows that it can take as much time as a phone call home to say you'll be late for dinner. Those who yap away on a Bluetooth headset about Jennifer's new boyfriend or Angelina's new adoption are much more distracted than the drivers who talk for a shorter period of time with hand-held cellphones!

Keeping one's mind on the road is just as important as keeping both hands and eyes on the road, because looking ahead and holding the wheel while not thinking about one's surroundings is called blanking out. Why isn't the government proposing to ban conversations while driving all together? The lame excuse that Big Brother gave was "difficult to enforce." Well, so is banning pot.

Portable media players plugged into the car's audio system is perfectly acceptable. However, this media player could be duct-taped to the dashboard or resting on the driver's lap. In terms of distraction, toggling through a complex menu (the latest generation of iPod classic has over 60 places to click, according to Gizmodo.com) to find your favourite driving song is much worse than dialing a number. Fiddling with the FM tuner, especially in a metropolitan area with a bizarre amount of interferences, only contributes to the problem. If the McGuinty government is serious about stopping driver distraction, why the differential treatment?

The list of things that could distract a driver goes on and on: paper maps (you've all read them while driving, whether it's over your wheel or on your lap), a spilt cup of tea, an itchy pair of underwear... Banning the aforementioned would be absurd, but they can have the same effect on a driver as a cellphone, if the driver chooses to be distracted.

I will rest my argument with one word of advice to the Ministry of Transportation: Trying to legislate stupidity is absurd. Cellphones do not kill people on roads, stupid drivers do. Don't put the cell phone in the slammer, instead, put this law-enforcement money in young driver education. How about a road safety course in our high schools? I bet it'd be more interesting than Careers.

Waterloo Cases in Design Engineering (WCDE)

WCDE is a group in the Faculty of Engineering that converts **work reports** into **Engineering Case Studies** for use in Engineering courses.

Work reports submitted electronically are worth **seventy-five P**5 points!**

cases.uwaterloo.ca

Sample Case Studies

All first-year concept courses are using these cases:

Hydro Quebec

- Alternative Energy Sources

Engineers Without Borders

- Alternative Drinking Water

Other cases currently in use include:

- Foot Brace Design

U.S. Elections: A Step Forward or a Step Backward?

California's Proposition 8



SUNNY NG
4N COMPUTER

November 4th, 2008 was a historic night for the United States. Senator Barack Obama pulled a huge victory that night over Senator John McCain by capturing the majority of the electoral votes in the presidential election. Senator Obama will become the 44th president of the United States and will be the first African-American in history to hold this position. To many, it signified change and hope. As well, this historic moment proved that a candidate can be elected as president based on his ideas rather than his skin colour.

However, for many Californians, that night was bittersweet. In what many would consider as one of the the most progressive states of the country- one that is willing to accept new ideas- an intense battle of civil rights also took place in California. Proposition 8 was one of the 12 state propositions that appeared on the state ballot on November 4, and it became the most expensive campaign outside of presidential elections in U.S. history as contributions totalled over \$73 million from both sides. The

official ballot title of the Prop 8 was "Eliminates Rights of Same-Sex Couples to Marry." By passing this proposition, a new line of text would be added to the Californian state constitution reading: "Only marriage between a man and a woman is valid or recognized in California".

Earlier in the year on May 15th, the California Supreme Court ruled that the previous ban of same-sex marriages violated the equal protection clause of the California Constitution. By overturning this ban, they have effectively made same-sex marriages legal in the state. However, this situation was short-lived as Proposition 8 managed to pass with a margin of 52%-48% on November 4th, banning all same-sex couples from getting married once again. This was the first time in Californian history where a group of people's rights have been stripped away by a popular vote.

The battle of Proposition 8 has been a long and bitter struggle. Initially, the opinion polls favoured the opposition side. However, the supporters of the proposition launched a series of ads that I would consider to be full of lies and scare tactics, which suggested that by defeating Prop 8, churches can lose tax-exemption status, gay marriage will be taught in schools, same-sex couples already enjoy the

same rights as married couples and that people can be sued for their beliefs. None of these are true. These ads unfortunately were very effective in flipping the results and from then on the polls either favoured the supporters or they were very close. The opposition launched ads to counter those lies and even recruited the superintendent of California's Teachers Association to emphasize that schools are not required to teach anything about marriage. However, to be a little fair, I wouldn't say the opposition's ads were all that innocent. One of their ads described Prop 8 as discrimination and made comparisons to how Japanese-Americans were treated in World War II and how Hispanics and African-Americans were not allowed to vote in the past; I found that a little hard to stomach.

The lists of endorsements from both sides of the campaign were very impressive with a significant portion of the contribution on both sides flow in from out of the state. Supporters of the proposition included many religious groups such as Knights of Columbus and the Roman Catholic Church, as well as Republican presidential candidate Senator John McCain.

Supporters of the opposition included Senator Barack Obama, Republican Governor Arnold Schwarzenegger, every major newspaper across the state, as well as the mayors of

San Francisco, Los Angeles and San Diego. Many Hollywood celebrities contributed including Brad Pitt and Steven Spielberg. Even tech companies Google and Apple Inc. publicly opposed this ban and donated to the opposition campaign.

In spite of the disappointing result of the November 4 elections, this battle is not over. Several lawsuits have been launched the day after the election, that argue the validity of the proposition. Moreover, rallies and marches are currently being held statewide to protest the unjust treatment of same-sex couples. As the CEO of the Center Advocacy Project, Dr. Delores A. Jacobs said in a recent San Diego rally on the day after the election, "232 years ago, this country was founded. 141 years ago, slavery was abolished in this country. And yesterday, we elected our first African-American president. Last night could not be a better snapshot to indicate that our day will come."

Being in the middle of all of this had made me think a lot. I still do not understand the hatred of some of the Prop 8 supporters when I talk to them, nor do I understand why they feel the need to force their religious beliefs on others by making them into laws. For these reasons, I have never been more proud to be Canadian.

Obamarama



JON RADICE
2B CHEMICAL

In case, if for some reason, you have not had any contact with a human being for the last week, or your only source of news is the Iron Warrior, Senator Barack Obama has defeated John McCain in the presidential election. Barack Obama set many new standards on election night; being the first Democrat since Jimmy Carter in 1976 to gain more than 50% of the popular vote (he garnered 52.3% of the vote), having won the most electoral votes for a democrat since Lyndon B. Johnson did exactly 40 years ago with 364 of electoral votes (270 were needed to win) and getting no fewer than 65 million people to get out and vote for him on November 4th. His charisma and bravado had many previously red states seeing blue. Nevada, Colorado, New Mexico, Iowa, Indiana, Ohio, Virginia, North Carolina and Florida had a Republican majority after the 2004 election; now they have all helped propel Obama into the Oval Office.

At the time of this writing, Missouri is still up in the air and being recounted; McCain is leading the votes in that state by less than 6000 votes. The House and the Senate were also shaken up on election night. Both levels will retain their Democratic tinge. Democrats were elected to 254 seats of the House, surpassing the mandatory 218 seats to retain power. The Senate will hold 57 democrats, well above the 51 seats required for control. The night was fraught with highs and lows, with many people, including myself, constantly refreshing the major news sites hoping to get every update to the numbers. Indeed, a great day for a country that has definitely fallen on hard times.

But, as I suspect many of you already knew this, given that this paper is being published a week after the election, this headline probably has about as much shock as a dead nine volt battery. However, along with the presidential election, there were many other topics on the table the night of the election.

On November 4th, America took a huge step backwards in regards to gay and lesbian rights. The hotly contested Proposition 8 passed in California, effectively halting all wedding licenses to be given to gay and lesbian couples in the state, and effectively

nullifying all licenses given in the 6 months since the Supreme Court of California allowed them to wed. Arizona and Florida (the only other states with same sex legislation on the table) both voted overwhelmingly to approve constitutional amendments to recognize marriage as being between a man and a woman only. With this motion, no same sex legislation can now be tabled without a full-blown state amendment. Truly, this damning news was not the "change" that many envisioned on Election Day.

In other states, many strong anti-abortion bills were shot down. Of the two major bills to be defeated, the first was in Colorado; it attempted to define a person as "any human being from the moment of fertilization," and thereby protected embryos under the Colorado Constitution. The second, in South Dakota, also narrowly shot down the proposal to ban abortions except in cases of rape, incest, or when the mother's health is at risk. Michigan voted to allow stem cell research to be conducted under certain conditions limiting how those cells were collected.

Enjoy marijuana? Well, Massachusetts approved an initiative to decriminalize possession of up to an ounce of marijuana, while Michigan passed a law to allow medical marijuana to be used on patients.

Barack Obama has the chance to change many of the backward ideas brought upon the US in the last little while and, in that sense, the future does look bright. As a response to the Obama-mania that I've seen before, during and after the election, I say this: In this writer's mind, I believe that Obama was the better choice in the election. I do not, however, hold him in such high regard that I expect him to be able to instantly right the many wrongs in the world. He is not going to hastily end the war in Iraq; he has expressed that Iran is a dangerous nation and should be watched; he voted for the Patriot Act, and also was in favour of the 750 billion dollar bailout to Wall Street. It should also be noted that for the last two years, Democrats have held control of the House, yet still allowed the war in Iraq and sat idly by, while the telltale signs of a failing economy crept upon them. Again, Barack was the right man for the job, but don't follow him like some religious zealot. He will make mistakes, and he might choose to avoid the leftist path that many think he will take. He's a politician, a Democrat and the president, but he is not a savior.

What Canadian Politics Lack

Where Was Our Obama?



BLACK JACK BOYD
IRON POLITICAL JUNKIE

On Tuesday November 4th, after Barack Obama became the US President-elect, I sat down with some friends and had a few bottles of beer while we watched his acceptance speech. It was inspiring, powerful and it was exactly what they all wanted to hear; they being the thousands there and the millions across the country. It was an election that will be remembered for ages to come. Put aside all the issues and all the possible consequences, and I think that we can all agree

that it was a grand affair; it was the focus of a nation for months- both important to so

many people and on the late night TV show side, oh so entertaining to others. It was hyped for years, and will surely be talked about for years, but my question to you is do you remember what happened the day after Thanksgiving this year? Oh right, that Canadian election. Will you remember it for years? Of course not, it's Canadian politics, but what does that really mean?

The US election had one of the largest voter turnouts ever; from minorities to the very old to the stoner college students, people came out to cast a vote to shape their country. And the Canadian election? Well it was one of the lowest voter turnouts ever, and hey- did YOU even vote? It's not your fault, Canadian politics are horribly boring. I would rather knit a sweater than watch a political show about how Canada needs to act with urgency in regards to the Arctic sovereignty issue. Are you serious? That's ridiculous, yes there is climate change, but it's not like tomorrow we are going to wake up and all the ice will have melted away to reveal an advancing fleet of Russian submarines.

Let's look at the candidates: in the States it was a black man with a Muslim

middle name who screamed for change and an elder with as much experience and stories as Mother Nature (not to mention the 26 times he's had cancerous skin removed). One was an amazing orator who found a way to make people believe that "Yes We Can" and yes they did, and the other, well while he wasn't as inspiring, he certainly gave SNL their highest ratings in the last 3 years. The Canadian candidates were so disappointing: a fat guy from Calgary with odd-looking hair, a woman who really couldn't speak French, and two guys who really couldn't speak English! Who did I leave out? The only guy I give props to for entertaining us is Jack the 'Stache' Layton- rumour has it that

is where he keeps the NDP platform.

Where was the Canadian election memorabilia? All the Obama t-shirts put

us to shame. My sympathies go out to the Royal Canadian Air Farce; I really appreciate the level of jokes they come up with considering what they have to work with. And on the American side, SNL would have had to air nightly if the campaigns were to continue the way they were. If you still don't know who Tina Fey is, I really must suggest Youtube-ing it.

Canada may not have the same level of importance on election issues as the United States, but we are involved in Afghanistan, our economy is not that great (especially the automotive industry) and I really believe that it's not all about the issues. To have an amazing election you need amazing characters. Where was our Obama? Where was our Palin? Where was our promise for change and good? There are surely many things that can be improved in this country. Canada needs more emotional and passionate political figures; some characters that speak their minds and understand that getting people on your side of the ballot involves grandeur, charisma and entertainment. Until we get that, I guess we can all be Obama bandwagon jumpers! You-bettttcha!

What happened the day after Thanksgiving this year? Oh right, that Canadian election.

Horrorifying Hallowe'en Happenings

Costumes, Candy and Architecture



TIM BANDURA
2A MECHANICAL

So, Halloween happened to be a week and a half ago as we all know, and it was a blast! It started off on Thursday October 30th, with a special Halloween-themed Enginuity just after the all-candidates open forum. While the turnout was a bit small due to the slightly awkward start time, we still had four great teams show up! The challenge was to find the most creative way to deliver candy to energetic

trick-or-treaters and the teams tried either huge, extendable reaching devices or catapults. And as promised, there was lots of free candy.

Friday was the big day, and it started off with decorations going up in the foyer early in the morning. The festivities really kicked off at 11am with students showing up to partake in the various activities. One intrepid student gave it his all in bobbing for apples, and eventually emerged from the murky depths of the bucket with his prize. In hindsight, perhaps it was best that it remained a solo event. A few talented artists came out and tried their hand at pumpkin carving, and many were in

costume. Particularly awesome costumes included ancient Edcom, Beetlejuice, a Frosh, Batman and Robin (complete with Batmobile), a cow, King Arthur and Tim the Enchanter, a pimp, Leela from Futurama, Beaker from the Muppets, Santa Claus and his jolly helpers, Pocahontas and John Smith, Dr. Horrible's Captain Hammer and a groupie, V for Vendetta, a fork with spaghetti, and even a 70's porn star! 12 o'clock rolled around and there was a showdown of sorts in pumpkin pie eating. The pies went quickly, and there was only one winner, Beetlejuice, who seemingly inhaled his pie. After that, anyone who was dressed up and in 2012 tried

their best to win the 2012 Costume Contest. In the end, everyone (and not only the 2012's) was a winner due to the large amounts of free candy being passed out.

MOT was a blast as well, with POETS being nicely decorated, free pumpkin pie, everyone out in costume, the Tool making a visit, and the half-way standings for P**5 points! The fun didn't stop there as many took the bus out to Cambridge for the Architecture Halloween party. The time passed by rapidly and unfortunately, the night soon drew to a close. And with that, one can only wait in anticipation of next year and begin to plan out their next epic costume.



DEPARTMENT	POINTS
2A CIVIL	1875
4A GEO	1022
2A CIVIL	975
2A MECH	6725
2B SYDE	6450
2B MECH	5800
2B ELEC	5600
2B CHEM	4275
4A MECH	4025
2A MAN	3100
4A TRON	2950
3B MECH	2725
2A CIVIL	2650



The Iron Warrior

DesignCamp Waterloo

Calling All Digital Designers

ANUP TULADHAR
3B CHEMICAL

Want to connect with fellow design enthusiasts who love working with digital media? Are you creating the next killer app and dying to spread the word around campus? Do you have an innovative project you'd like to attract local investors to? Do you have an interesting 4th year project to share? Come out to DesignCampWaterloo and show off your amazing work!

Mark your calendars. On November 20th, 2008 we are hosting another exciting instalment of DesignCampWaterloo this term.

DesignCampWaterloo is an informal BarCamp-style open forum that provides student digital designers an opportunity to connect with fellow designers and showcase their work. What is BarCamp? Started in Palo Alto in 2006, it's a network of user-generated workshops that focus on discussing early-stage web applications, open source software development, social protocols and other open data formats. The

motivation is to encourage a "cross-pollination" of ideas between designers. In DesignCampWaterloo, we are expanding the BarCamp scope to incorporate digital media and technology-based projects.

Every presenter has 5 minutes to showcase their project. The next 5 minutes is opened to the floor for interaction with participants. Prizes will be awarded to the most innovative project and the best presentation.

This term, we are very excited to collaborate with Sean Van Koughnett, Director of VeloCity, to showcase innovative multimedia projects designed by tech-savvy residents at the Media Incubator. With the support from both the Faculty of Art and Faculty of Engineering, we strongly encourage collaboration between students in our school's various faculties.

Past keynote speakers included Microsoft Canada's User Experience Advisor Qixing Zheng.

For presenters and interested participants, visit www.DesignCampWaterloo.com to register.

The Start of your Journey as an Entrepreneur

Impact National Conference

XIAOXIAN ZHOU
IMPACT

When one thinks of the word "entrepreneurship", images of business start-ups and people in business suits come to mind. Unlike the commonly accepted definition of "the practice of starting new organizations or revitalizing mature organizations", the Impact Entrepreneurship Group believes that entrepreneurship embodies a lot more. It is not merely the act of just starting a business, but more a mindset towards life- that one can achieve anything and unlock your full potential.

The Impact Entrepreneurship Group, which started out as a small 150 person conference in 2004, has since grown into a national student-run organization, running initiatives both locally and nationally.

In particular, the upcoming Impact

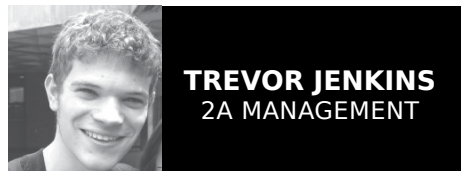
National Conference taking place from November 21-22nd 2008 at the Westin Harbour Castle in Toronto is the flagship event of the year. The conference will bring together the country's top 500 students and give young leaders and entrepreneurs a chance to learn and to network with speakers, student leaders and some of the industry's best.

This year's line-up includes Rebecca MacDonald, founder of Energy Savings Fund, Bruce Poon Tip, a self-made millionaire and founder-CEO of G.A.P. Adventures, Leonard Brody, venture capitalist and best selling author, Bob Young, co-founder of Red Hat Linux, founder of Lulu.com and a self-made billionaire and many more...

So what are you waiting for? Register today at www.conference.impact.org and secure your spot at Canada's largest youth entrepreneurship event!

When the Building Boom Goes Bust

The Chicago Spire Put On Hold



TREVOR JENKINS
2A MANAGEMENT

Everyone is well aware of the recent fall in stock markets around the world that was sparked by the fallout of the sub-prime mortgage market in the US. The effects have meant that countless Americans have lost their homes, their jobs or forced to declare bankruptcy. It has also meant that many significant real estate developments have been put "on hold" due to the insecurity of bank financing and the overall downturn in the



Rendering of the Chicago Spire

economy.

One of the hardest hit projects is the Chicago Spire, a super tall residential-hotel skyscraper in the birthplace of the skyscraper, its namesake Chicago. The tower was meant to penetrate 2000 ft (609.6m) into the sky, have 150 floors and become the twelfth tallest freestanding structure in the world. Over 350 of the 1,193 units had been sold by June 2008, including the penthouse which went to Beanie Babies founder Ty Warner.

Renowned Spanish architect Santiago Calatrava, best known in Canada for his design of the BCE Galleria in Toronto (the complex where the Hockey Hall of Fame is located), designed the building, giving inspirational credit to nature's glory. The upward spiral, climaxing to a nipple-like tip was meant to resemble an imaginary smoke spiral coming from a campfire lit by the Native Americans indigenous to the Chicago River area.

The developer of the building, Ireland-based Shelbourne Development, has been adamant to see this building completed. Groundbreaking occurred in June 2007 with the installation of a 104-ft diameter cofferdam to a depth of 78 ft to prevent accidental flooding from the three surrounding water sources, and later act as support for the building's foundation. Excavation of the site continued up until as early as September 2008, when it was announced that the project would be put on hold until the economy recovered. As a result, all that remains at the site now is a perfectly circular foundation that pierces the earth to a depth of 55 ft.

From a structural engineering perspective, the curved nature of the building provides two enormous benefits. Firstly, the curved face of the building helps to minimize wind forces. While not completely negating them, a tapering concrete core and twelve shear walls radiating from it are designed to counteract the force. In a typical rectangular building, a fluid wind flow causes pressure on the exposed face of the building, while air moves around it as a suction is applied

to the leeward face. This typically leads to a sway in tall buildings which is typically counteracted by a wind damper or stiffening the structure. The second benefit of the design, according to M. Salvadori's best seller *Why Buildings Stand Up: The Strength of Architecture*, is the fact that the curves have a tendency to add to the strength of a structure. This is the primary reason why curved stadium roofs are common.

While The Chicago Spire has not been officially canceled, the future of it seems bleak at best. It brings back memories of the ill-fated 57-storey Bay-Adelaide Centre in Toronto's financial district. The project, originally beginning construction in 1990, was cancelled in 1993, after only the parking garages and 5 stories of the central core had been constructed, due to the effects of the recession. The core became known as "The Stump" in developer circles and symbolized the recession for over a decade. The project sat dormant until October 2005 when a new application was launched and by June 2006, The Stump and garages were torn down. The new tower has now been topped off at 50 storeys and will become the largest office building to be built in Canada in over a decade when fully completed in late 2009.

The current state of the economy has also had effects on other major US residential development projects such as the 1,047 ft Waterview Tower in Chicago, which has been put "on hold" despite already having 24 floors constructed, the 252.4m Met 3 in

Miami, and the 214.9m Club Renaissance in Las Vegas. However, large Canadian residential projects haven't been hit hard yet. One Bloor East, a 953 ft tower set for the southwest corner of Yonge and Bloor, is set to start excavation in the upcoming months. Trump Toronto, just north of Bay and King, broke ground earlier last year and will eventually top off at 924 ft in late 2010. Maple Leaf Square, the mixed-use development located next to the Air Canada Centre, has the frame of its 10 storey podium nearly completed, after which the 50 and 54 stories will soon begin to rise. All of these large projects have remained strong throughout this financial turmoil, and all signs point to their success.

With the economic uncertainty likely to remain with us for the short term, the survival of other engineering and architectural marvels remain at risk. While the building boom of the last six years has given us some impressive buildings, all good things have



harryc of SSP

The foundation for the as-yet incomplete Chicago Spire

to come to an end. While we can hope that some marvels like the Chicago Spire hopefully survive the trouble, the expectations of what the next boom will give us will tide us over until then.

Ode to the LHC

ANDREW CROAL
GUEST POET

Far beneath the fields of France, physics takes a massive chance.
Europe's best & brightest teams, are focusing their narrow beams,
While gangs of dedicated geeks, tighten tubes & look for leaks.
Giant magnets, it is said, accelerate a proton thread,
Until they reach the speed of light; - well maybe not exactly quite.
But anyhow, extremely fast. The speed of light is unsurpassed.

When they've got sufficient spin, they're whacked against their proton kin,
Spun from an opposing strand, swirled around from Switzerland,
All aligned with great precision, and smashed together in collision.
Then, whatever fragments found, fathom riddles most profound:

What are mass and gravity, space and super-symmetry?
Dimensions deep & matter dark? What secrets lurk within the quark?
Is it worth the money spent, on this vast experiment?
Other matters, not as thrilling, strangely garner equal billing?

"What if all this - just perhaps, precipitates a mass collapse?"
Could the apparatus heave a hadron through Geneva?
Could quantum spin & somersaults, zap the gold in Zurich's vaults?
Sour the milk & spook the pigs? Just what if the hunt for Higg's
Tolls our final self-destruction? Invites an alien abduction?
What would Isaac Newton think? Would he agree that Earth will sink?
Humanity, prosperity, down to a singularity?

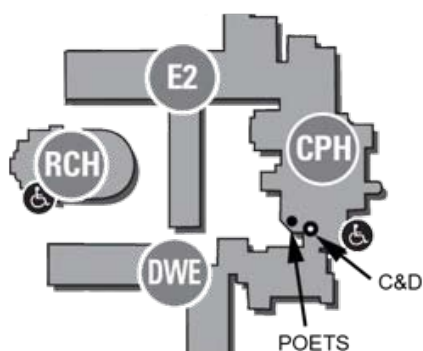
For this we've waited many years, to see a hadron smash,
Boldly probing new frontiers, and spent a pile of cash.
Scientists seem unconcerned, bravely listing all they've learned,
While their rivals gather traction in 'equal and opposing action'.

Alas, no protons whizz around. - Silent is the ring.
No hadrons thread the underground, at least until the spring.
Some free advice, for this device, while disappointment lingers:
'Find that glitch & throw the switch! Be sure & cross your fingers!

MORE THAN JUST COFFEE & DONUTS

The EngSoc C&D has more than just Coffee and Donuts. Stop by for a variety of freshly prepared sandwiches, baked goods, soups, and more! It is run by students for students, so the prices can't be beat!

There are a variety of specialty coffees available - including fair trade. Bring your own mug to help the environment too!



ENGINEERING SOCIETY



HOURS OF OPERATION

MONDAY-THURSDAY 7:30AM - 7:00 PM
FRIDAY 7:30 AM - 5:00 PM

Life on Blackberry Research In Motion Wants You!



MIKE MCCAULEY
2B MECHATRONICS

Did you spend your last work term filing documents, booking meeting rooms and ordering lunch? Are you looking for a more rewarding and challenging co-op placement or full-time employment opportunity? Research In Motion (RIM) is currently hiring motivated students like yourself for co-op work terms and new graduate positions.

RIM is a leading designer, manufacturer and marketer of innovative solutions for the worldwide mobile communications market. RIM was founded in 1984 by Mike Lazaridis, and is based in Waterloo, Ontario, with offices throughout North America, Europe and Asia. RIM is most famous for the BlackBerry – a revolutionary communication tool that allows people to access email, phone, Internet, Facebook, and (of course) take pictures, play music and stay organized on the go.

RIM currently employs over 650 students each term in a variety of positions across Canada and around the world. Job opportunities for engineering students are available in software development, hardware, mechanical

design, manufacturing, and project management. Student employment at RIM provides career opportunities that are second to none; not to mention how awesome it is to get your own BlackBerry during the work term!

I was fortunate enough to have the opportunity to work in the Hardware Engineering Lab at RIM in Waterloo this past summer. I enjoyed the opportunity to work on important projects involving PCB design, prototyping and testing. Working as a valued member of my team and taking on the responsibility of the concept-through-to-completion process for many projects gave me an extremely rewarding work term and allowed me to gain valuable experience. I was able to secure a position in mechanical design for my next work term with RIM and I'm looking forward to another rewarding co-op experience!

RIM is currently seeking students for the upcoming term and there are new positions being posted on the website daily. If you are interested in applying for one of the many exciting opportunities at RIM, please check out www.experiencirim.com. If you have any questions about the application process, what it's like to work at RIM or any other RIM-related questions, free to contact myself, Mike McCauley, your RIM Campus Ambassador, at mmccauley@rim.blackberry.net.

"Sign" Me Up For Justice

MIKAYLA MICOMONACO
2A ELECTRICAL

Imagine that it's your first time going to court. You don't really know what to expect and you're stressed out about what's going to happen. You don't need anything else to worry about, but there is one more major obstacle in your way: where do you need to go once you're inside?

The Attorney General's design competition "Sign" Me Up for Justice, hopes to eliminate this source of confusion and stress in the courthouse. It gives design and legal post-secondary students the opportunity to design new, clearer signs for the courthouses. Working in teams of two to four, with at least one law or paralegal student and one design student per team, students will submit entries for accessible, clear directional signage for Ontario courts.

This competition is in response to the Civil Justice Reform Project, which was published November 2007. Among other recommendations, the need to provide better and more accessible information was discussed. The Government of Ontario implemented this design competition as a way of making the justice system more accessible for the public, by ensuring that courthouses are easy to navigate and people know where

they can access the services available. To make the signs useful to the maximum amount of people, they are required to be in both official languages with useful images. There should also be raised text or Braille where appropriate.

The winning team will be responsible for an important contribution to enhancing the accessibility of the legal system in the province. Their designs will be implemented in the 179 courthouses in Ontario, and will assist approximately 12 million people per year to find their way. Each member of the winning team will also be awarded a \$1500 bursary.

Registration for the competition closes on November 14, and submissions are due November 25. For more details and submission requirements, visit <http://www.ontario.ca/signmeupforjustice>, or the "Sign" Me Up for Justice group on Facebook.

The Attorney General has given university students the opportunity to "work together to use their creative skills and knowledge to develop signage that could play a pivotal role in enhancing access to justice" (Chris Bentley, Attorney General). If you think you have what it takes to improve the accessibility to the Ontario justice system, sign up and show the province just what you can do!

Indigo Opens Bar for Open-Minded Engineers



SYLVIA WU
1T MECHATRONICS

When posters advertising Indigo's recruitment event first appeared in CPH, a number of engineering students were quite puzzled by the company's intentions: why us?

Those who did not limit themselves to careers for technology powerhouses and those who wanted some free food and beverages had their expectations exceeded at the Indigo Recruitment Event, which took place in the evening of October 7 at the Bomber. There was indeed food, and the bar was unexpect-

edly opened after an introductory speech by Indigo's CTO, Michael Serbinis. There were no PowerPoint presentations or ties involved.

Indigo is a relative new-comer to the co-op employment practice. Despite having only hired co-op students for two years, the number of co-op positions has already reached 20. Engineering and Math students are responsible for a number of projects related to Indigo's online shopping system, which is constantly being innovated in order to complete with similar book and music retailers such as amazon.com.

Two new projects that especially caught the engineering students' eyes were the touch-screen kiosks being introduced to In-

Indigo and Chapters retail locations, as well as the Shortcover ebook service.

The current self-serve kiosks in Indigo and Chapters stores vaguely resemble PCs found in poorly-funded elementary schools. Luckily, the company decided to replace these with touch screen kiosks whose impressive looks draw attention from the customers and encourage use. Book retailers in the U.S. have even expressed interest in purchasing the technology from Indigo.

In addition to the innovation in retail stores, Indigo is also tapping into the ebook business. However, it is not aiming to "re-invent the book in electronic format" like the Amazon Kindle. Dan Galperin, the project lead on Shortcover, reveals that the company

would rather targets the smart phone-toting set, selling books one chapter at a time and bringing premium copyrighted content to Blackberries and iPhones. The students who are passionate about mobile apps development will definitely find themselves attracted to a co-op under Galperin.

Indigo Books & Music Inc. is the largest Canadian book retailer. It operates under the names of Indigo, Chapters, and Coles in all ten Canadian provinces. The company also recently opened a chain named Pista-chio, which specializes in environmentally-friendly stationery, apothecary, and gifts retail. Two stores have already opened in the Toronto, with a third one coming soon in Mississauga.



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Karen Mark Scholarship

Na Mei

Teaching Assistantship Awards

Darcy McGlynn, Ali-Reza Asarizadeh, Sanders Wong, Yasser Mohamed, Hassan Mostafa, Sean Walker, Martin Walker, David Shuang Li, James O'Leary, Rick Marta

Debate Winners

Uzair Chutani, Keith Peiris, Alyssa Mohino, Andrew Ostler, Derek Thurn, Brett Wiens, Thilan Costa, Pareet Rahul

Technical Speaker Competition Winners

Chris Togerez, Ryan Michaud, Thomas Haylock, Steve Edwards

Hecker Exchange Fellowship

James Huiskamp

SFF Exchange Scholarships

Vadim Bachmutsky, Han Xu, Milos Agatonovic, Emily Vance, Mikhail Koldychev, Jane Jing-Ying Ho, Alex H.S. Chik, Andrew Hartman

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

So You Think You're A Gentleman?

Bringing Back Chivalry

MILENA BELOIA-CHERES
2A CIVIL

Bonjour, mes chers collègues, et bienvenue à votre discussion importante du jour: chevalerie. It is no coincidence that I decided to dust off my (limited) French vocabulary for a few moments and introduce this topic as I did. The underlying reason for pursuing the holder of the title for "the most melodious language in the world" is the fact that it is also the origin for the topic discussed herein: chivalry. Derived from the word "cheval", meaning "horse", "chevalerie" signifies "knight-hood", as it was known in the Middle Ages all throughout Western Europe. Although initially knights were simply mounted armed warriors, with knights being granted land for their service, feudalism began to flourish and soon enough knighthood was a mark of social distinction and refined manners. Now, when I think of knights and the Middle Ages, I can instantly imagine a fierce man fully equipped in one of those gigantic metal armour, most likely made of iron. "You mean, iron warriors in *The Iron Warrior*!?" you say. We are just that good...

Leaving the history lesson behind, I'd like to note that as the world has moved on to the 21st century, so has the definition of chivalry, and not necessarily in the right direction. According to a general definition, today's gentleman is meant to be intelligent, behaviourally refined and, in some cases, to occupy a respectable social class status. As nice as this sounds, the definition implies nothing regarding the man's moral or ethical attributes. It is quite easy to understand that one could simply be intelligent, self-supporting and polite to women, yet deceitful or unsympathetic towards others. So next time your female friend complains "Oh my God! There are no more

real gentlemen in the world... Men don't know how to act anymore!", she might be right. Has chivalry truly disappeared?

Switching back to the Middle Ages for a moment, knights vowed to present the following characteristics, among others, at all times: mercy, courage, generosity, loyalty, valour, fairness, protection of the weak and the poor, faithfulness to God, as well as a gentleness and grace of service towards women. Why has the list shortened? By the end of the Middle Ages and into the 16th century, the term "gentleman" slowly gained an increasingly closer relationship to social superiority. With the emphasis placed on the distinction between classes, moral attributes were slowly left in the background and standards of good conduct and chivalry began to gain more social significance. By the time the 19th century rolled around, the Industrial Revolution had left such a scarring impact on aristocracy that the working class became more and more valued. With this social transition, gentlemen became men of good wealth or intelligence rather than honourable persons.

So here we are today, in a society that values itself as being one of the most developed in the world. Shouldn't our value of chivalry match this status? I say it should and can see no way in which this could disadvantage our society rather than benefit it. From a female perspective, it is pleasantly surprising to see random acts of chivalry performed by men (note the word "random"), as it makes us realize how rare these are. I am by no means a feminist, as I believe in equality between sexes, yet it is important to note that, simply because a girl can do something on her own, doesn't mean she always should... She is still a lady and should be treated accordingly.

Plus, these small things do gain you points in our books, trust me!

Therefore, my dear gents, I have decided to put together a small guide for you to follow, as I know engineers love steps and guidelines. Ladies, this is what you should look for:

R-E-S-P-E-C-T: Always be respectful. When addressing a girl, you're not out with the guys. As cool as she might be, avoid being rude and, for goodness sake, remember that words are separated by very small pauses, not F-words. Also, when talking to someone, it is rude not to look at them. This indicates that you do not care about the person you are talking to or about the conversation, so meet their line of vision (which does not originate at their chest, in case you were confused...).

Courtesy is the key: I know you've heard it times and times before, so why do so few of you do it? Holding the door for ladies is a must, as is inviting them to

walk ahead of you when entering a building, elevator or in any other circumstances when only one person can walk through. Similarly, a true gentleman should be attentive and helpful to women in any circumstance. Help her put her coat on, open the car door for her, pull the chair before she sits down, help her to carry things if she's struggling, offer her your seat on a bus, and the list could go on. Also, this doesn't just apply to girls you want to impress; remember your mom and other ladies in your family deserve the same level of courtesy, if not more.

That long-forgotten instinct, protection: Men are supposed to be the stronger sex, and I'm sure you all boast with that particularity. Well, with privilege comes responsibility. Protecting a girl doesn't mean risking your life for her. For example, if it's raining outside, offer her your coat or hold the umbrella,

or offer to pick her up in your car. When walking down the street, you should always try to walk on the outside of the sidewalk, in order to protect her from the risks of traffic or from getting splashed. Always make sure she gets home safely, and that means paying for the cab if need be.

Extend your chivalry to the social scene: Being great to her and terrible with everyone else doesn't mean much. Try upholding as many of the values of chivalry mentioned above as possible. Be generous to others, be happy to help someone if they ask you and be honest in your actions. If you're meeting your girlfriend's parents or friends for the first time, be courteous, yet friendly. Speak to them politely, but don't be shy and hide in a corner because that's just awkward. The more comfortable you are with her acquaintances, the happier she'll be to have you around. And this works both ways: if you meet with your friends, introduce her so she doesn't feel awkward.

Don't play the Don Juan: As cliché as it might be, loyalty and honesty are key for women. Don't be afraid to share what you think or feel with girls in your life: it's only human. Just because you bottle up feelings and emotions doesn't mean you're stronger or better perceived. Ladies like to hear what you truly believe, and never EVER lie to them. Needless to say, if you're in a relationship or expect to be in one in the near future, be loyal to your chosen one. It is beyond unacceptable by any norm to be disloyal to a lady or not respect the idea of commitment.

Armed with all these hints, I trust you to become excellent knights in shining armour. In the name of chivalry, I invite you, UW engineers, to the order of gentlemanliness, as prescribed by its standards. Do not disappoint the ladies. Until our next edition, au revoir!

IW RECOMMENDS

Album

Chinese Democracy
Guns N' Roses

SHELDON FERNANDES
1A SYSTEMS

Let me go right ahead and say that I've never really been a fan of G n' R. Of course, I accepted their place in music history and the evolution of music, but "Sweet Child 'O Mine" never really affected me or made me listen like Linkin Park's "Numb" did. "Chinese Democracy", the 15-years delayed album with some pretty interesting stories attached to it (free Dr. Pepper for every American if it's released in 2008?), has finally been given a release date of November 23rd, 2008, to be exclusively sold at Best Buy, much like AC/DC chose Wal-Mart. The single, also the title track, was released to radio Tuesday, October 24th. However, another track was released through the video game Rock Band 2. I found out about this, and decided I'd check it out on Youtube... It was not at all what I expected. It is a



guitar-driven track, and has old-school riffs in the verses and pre-choruses, but the solo is very original, almost techno-driven. However, as old as Guns N' Roses are, they made a modern-rocker like myself listen to the song 40 times straight, I kid you not. And I still love it. The metal-ish chorus is furthered by a really modern groove established with drums, and it's simply intoxicating. This is the epiphany of old meets new; sure to please anyone. Be sure to check it out.

high GI foods spike energy levels causing you to crash later. The first half of this book is about nutrients and getting what your body needs, while the second half is super inspiring recipes and full page glossy photos! The breakfast section is particularly inspiring and keeps me fueled and thinking throughout morning classes! Even if vegetarianism is not your thing, a healthy diet is applicable to anyone, especially students who need the energy to study (party) late into the night.

Book

Low GI Vegetarian Cookbook
Dr. Jennie Brand-Miller

MICHELLE CROAL
2B CHEMICAL

Glycemic Index (GI) is a measure of how carbs and sugars affect blood-glucose levels. Low GI foods are converted to glucose slowly, and help give your body energy for longer periods of time, while

Album

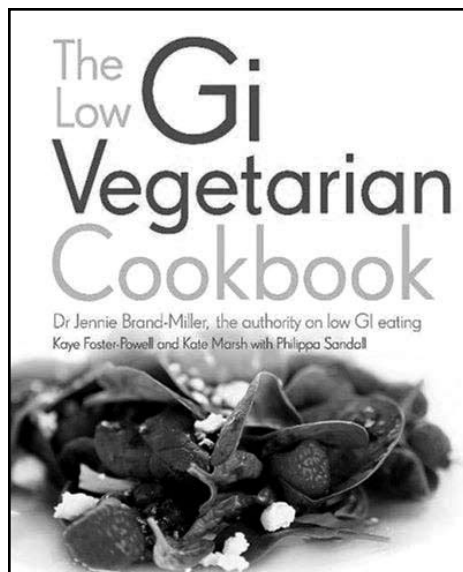
Combi: Nations Volume 2
Marco V

CHAD SEXINGTON
2.5N MANGINEERING

Welcome to the first of my Techno recommendation articles. I love trance (though I'm not picky) and every once in a while I come across a CD or set that I just can't put away. I've got a number of favourite DJs and from now on, you're going to want to love them too. If you need the scoop on some of the best albums around, look no further. This issue it's an incredible two-disc album by my hands down favourite Trance DJ (sorry Armin), the one, the only, the sexy, Marco V -pronounced vee-. With a penchant for playing hard sounds coupled with outstanding lyrics and a lot of thudding deep bass that compels you to nod your head, every one



of his songs is a new treat for the ears. Superb dance mixes populate both discs with stellar transitions between tracks and flow that go head to head with the best of them. The first disc starts off strong with a pair of middlin' pace tracks featuring a lot of synth and bass. Disc 2 starts off with a pair of loop tracks, which sets the tone well for an increase in bpm over the rest of the disc. After the intro, the killer second disc really starts to entertain with one hot track after another and finishes off by breaking traditional form and hardly slowing down at all. Recently Marco has been evolving his sound to keep pace with the club scene, but as far as I'm concerned it's only getting better. I've heard these tracks played stand-alone and as remixes in many bars and even at the Bomber some nights when the DJ feels creative. If you love a fresh sound you need to check him out. If you liked this album, try the recently released and equally sexy Combi: Nations Volume 3 as well. If you aren't sure, ask to have a listen before you buy down at the local music store. They'll oblige, and you won't be disappointed.



Basic Fix-Its

Duct Tape: The Engineering Wonder Material



MICHELLE CROAL
2B CHEMICAL

This week's fix-it focuses on the all-important engineering material: duct tape! Shiny, most commonly available in an appealing silvery grey, and sticky beyond belief, you may know that duct tape has many many more uses than just patching holes in ventilation ducts, (which apparently it doesn't work that well for anyway-Berkeley proved it). And yes, duct tape is actually spelt with a T, and not a K at all, because seriously- what the heck would a duck need tape for? Come on people, sometimes English makes sense!

As an introduction, duct tape was first invented during World War II as a water resistant tape for sealing ammunition cases and making temporary repairs to military equipment. It quickly became a household staple. According to Wikipedia, duct tape is so amazingly amazing that even NASA has it written in the spaceflight policy manual that duct tape must be kept on board to physically restrain any astronauts who get a little space-psycho... (oh and to fix all those bits that keep falling off the shuttles too). So here are some top ten uses of duct tape! (plus or minus however many I don't think of)

Backpack reinforcement:

Textbooks and laptops are heavy, and

day-in day-out use takes a hard toll on your beloved backpack. If your warranty has expired, or if you never had one, duct tape is an effective, cheap way of solving the rips in the seams and zippers of your bag. The time you spent sewing all those patches on is worth much more than the cost of a new backpack, so the duct tape is validated (MSci quiz anyone?). Also, it's stronger and shinier than the other common alternative: staples. If you have the time, why stop at just a wallet; build yourself a completely new backpack!

Textbook Protection:

Now that you've spent \$150 plus dollars on that differential equations text that you probably won't use after this term, it's important to protect it from the harsh elements of weather, tutorials and general beating up. By covering it with paper, then duct tape, your textbook is effectively pressure protected and water proofed! Also, if you should choose to remove it later, the underlying paper will help prevent that permanent stickiness associated with duct tape removal.

Designer Items:

Since your education is leaving only dust bunnies in your bank account, designer items may seem out of the question. However, with a little practice, duct tape can become your secret amazing fashion knock-off trick. Covering your clothes with duct



tape makes them shinier and stylish, as well as saving on laundry. Metallic everything was in fashion last time I checked (which may have been in February), so why not use your engineering skills to update your wardrobe? Handbags and wallets are common duct tape items, as well as formal wear for the more artistically inclined.

Hurricane-proof your apartment:

You may think that hurricanes only happen in Florida, but with all this global cli-

mate and socio-political change in the future, you can never know what to expect. Be prepared for the worst by taping an X over windows (saves on plywood costs!), and sealing windows and doors to prevent leaks. If the wind takes your roof, be consoled that at least your windows will still be standing, and everything will be water-proofed!

Hair removal:

Personally I don't recommend this alternative use for duct tape, but if you really have a problem with hair, feel free to give this option a try. Guys, save on razor burn this Movember by waxing it off!

Christmas:

With Christmas coming up (granted, in two months), duct tape makes an excellent student budget friendly decorating item. Use it to hang up lights indoors or out, tinsel for your tree or pick up all the sticky crumbs on the carpet after your Christmas kegger (vacuuming is for wimps). If you forget to get someone a gift, wrap a box in duct tape, complete with bow and ribbons. By the time your giftee gives up the struggle to open the box, it won't matter that the box is in fact empty.

So, in essence duct tape has endless uses (thanks to www.ducttapeguys.com for these particular tips). Any good engineering student worth his or her salt should own at least a roll! And remember, "Duct tape is like the Force: it has a dark side and a light side and holds the universe together!"

The Hitchhiker's Guide to Hitchhiking

GALEN MERRITT
2B ENVIRONMENTAL

I hitchhike. It's one of the things I do that people don't like to hear (namely my mother), but it's true. I've thumbed Highways 1, 100, 17, 11, 69, and 8. I've hitched by myself and with friends. I've been picked up by truckers, Americans, WWII veterans, off duty Mounties, and high school dropouts. I've been stranded in the middle of the Prairies in the heat of summer, and stuck overnight in the frosty chill of the Rocky Mountains. And the answer to your question is yes, I am alive and unspoiled.

But why do it? Hitchhiking costs nothing, and is one of the most environmentally friendly modes of transportation. Also, you can hitchhike ANYWHERE – not just Greyhound station to Greyhound station.

You may think it is slow ("no one picks anyone up..."), but I can assure you when done properly, hitchhiking is much faster than Greyhound. You may think it is illegal. Once again, I can assure you when done properly you will not get a ticket. In fact, I've talked to many "hitchers" who

have actually had the OPP drive them to a safe place on the highway to hitchhike. You may think it is dangerous. I'm not going to say that it isn't, but take this into consideration: what makes the Greyhound any safer? You are still in close contact with complete strangers, and whatever safety there is in numbers is likely offset by the fact that they are likely to be a lot less friendly than someone kind enough to give you a ride out of sheer generosity.

This generosity attracted me most to thumbing rides. Why do people pick up hitchhikers? In all my hitchhiking endeavors, I have never encountered a situation where I felt unsafe or unwelcome in a stranger's vehicle (The only exception to this was train hopping – railroad workers don't like you riding their trains...). I've found that people who pick up hitchhikers are kind, interesting, hard working, and incredibly lonely. I've talked about politics, history, sports and even chemistry. I've been given food, water, and travel advice by countless drivers. Hitchhiking has always left me with the sense that there is an incredible amount of inherent goodwill left

in the world.

But how do you do it? Through my own hard-earned experience, I have accumulated several pieces of advice that you should consider before you grab your bundle and head out to the 401 this Friday...

1. Supplies: Take a backpack with all the essentials. Lots of water, some emergency calories, warm clothes, and waterproof clothes. In extreme scenarios, it's the difference between life and death.

2. Location Location Location: Choose a place to hitchhike on a section of highway where people driving by are guaranteed to be going in your direction. This means hitch from the western edge of a town if you are heading west. Pick a spot on the side of the road not only where traffic will see you, but also in a location where it is safe and convenient for them to pull over for you. One of the hardest places to get a ride is on a narrow shouldered mountain road on a steep uphill grade... trust me.

3. Don't get discouraged: Think about how many cars are going down the 401 right now. Imagine one in two hundred drivers will pick you up. You'll have a ride

in less than 5 minutes. Don't worry; it'll happen sooner than later.

4. Attract Attention: If you have the energy, get noticed on the side of the road. A little dance or funny sign may charm drivers into picking you up, or at least it'll give them something to smile about.

5. Communicate. When you get a ride ask them where they're going and settle on a drop off point before you or your backpack get in the car. I've messed this one up before, and luckily everything worked out, but it's much better to avoid it altogether.

6. Be friendly. Make as much conversation as they do, and don't ask too many questions. Tell them about your life and they'll tell you about theirs.

I am a co-op student, going to a university far from my home. I work in a different town every four months to make money to be spent on tuition, books, rent, food and BEVERages. What makes me any different from the hitchhiking itinerant workers of the past? What makes you any different? I dare you to try it. You'll find that the world is not the big scary place that parents, police and Career Services tell you about.

POETS

MOVIE SCHEDULE

SHOWINGS BEGIN AT NOON

Wednesday Nov. 12 How I Met Your Mother Scrubs Family Guy	Thursday Nov. 13 The Departed Catch Me If You Can Blood Diamond	Friday Nov. 14 How I Met Your Mother Scrubs Family Guy	Monday Nov. 17 Blow Donnie Brasco Charlie & The Chocolate Factory	Tuesday Nov. 18 How I Met Your Mother Scrubs Family Guy
Wednesday Nov. 19 Pirates of The Caribbean 1 Pirates of The Caribbean 2 Pirates of The Caribbean 3	Thursday Nov. 20 How I Met Your Mother Scrubs Family Guy	Friday Nov. 21 Good Luck Chuck Wedding Crashers Night at the Museum	Monday Nov. 24 The Pursuit of Happyness Men of Honour The Devil's Advocate	Tuesday Nov. 25 Analyze This Analyze That The Breakfast Club

The Engineer of 2001: A 1987 Perspective



TREVOR JENKINS
2A MANAGEMENT

Stuart said “Someone look through old *Iron Warriors* and write an article about some wacky Engineering tradition”. I said “okay”, figuring it wouldn’t be that hard. I sat down and started looking through the old boxes, hoping something would pop out quickly so that I could write my article and get back to procrastinating.

“Concrete Toboggan Team: Who are they?”- hmmm. They’re still around. “Grad Gift ’88: A Hot Tub for POETS?”- that never happened. “A Work Term in Fort Mac- Why I Would Never Go Back?”- some things never change.

Then I stumbled upon one that caught my eye. “The Ring Road Classic”, a full page article accompanied by pictures of bikers and crowds surrounding roadways- BINGO! The article originally appeared in a May 1987 issue. Unfortunately, after further research I learned it ran up to as recently as Spring 2006, and is still accessible on the EngSoc

website. Maybe a good article idea after the 2010s graduate and no one remembers it anymore.

By the time I found this out, I was already home and the deadline was pounding down. I didn’t have enough time to go back to the IW office (read: I’m lazy) so this is why my article will have nothing to do with UWEng Traditions, but instead on the only other article I took notes on: “The Engineer of 2001”- a summary of a 1987 American Society of

Engineering Education report detailing how the engineering curriculum of the future needs to evolve in order to keep engineers on the ball.

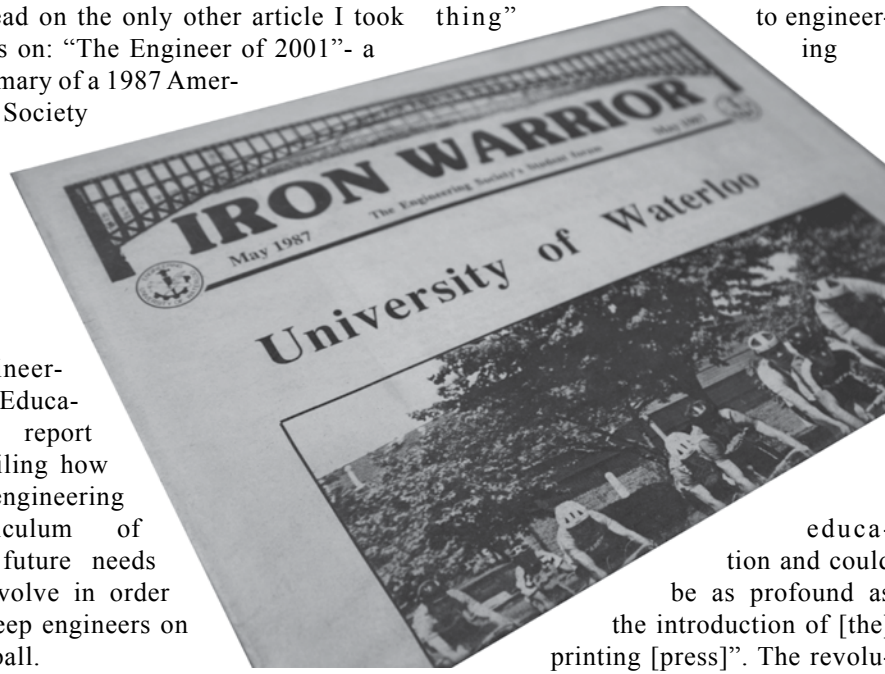
Some of the goals remain timeless in the 21 years since the article originally appeared, such as “We should teach students to “learn to learn” and the engineer should pursue a lifetime education,” and “Engineers should have a firm base in humanities and social sciences.”

On the other hand, some show their age: “computer technology “does something” to engineering

tion did happen and we now have access to databases of limitless materials, the ability to run complex models, and the capability to test out designs before building them; some of the few things that were unimaginable 21 years ago.

The role of computer was the major theme of the report, with a large amount of debate put on whether it is worthwhile to invest in the expensive technology or continue to work with tried and proven methods. In a time when computer technology was still rare outside of academia and government, and the prospect of a personal computer in every house was unthinkable, representatives saw its value in the end: “teaching methods should be updated with an emphasis in incorporating computer technology when possible”.

Whether we agree with what happened to our education or not, it’s always an important task to look back and reflect on what the future will hold. Had we not seen the potential of computers in engineering, who can imagine how behind the times we could be now and all the inventions that could never had been created?



education and could be as profound as the introduction of [the] printing [press]”. The revolu-

Co-op Horror Stories

Dancing Landladies, Cold Water, and Public Transit



MICHELLE CROAL
2B CHEMICAL

Stuart says, “Does anyone have any co-op horror stories?” Being only in 2A, we can excuse him for not knowing that the entire co-op process is one horror story after another! My personal experiences are more with housing situations than anything else, but here goes:

Fresh out of 1A and having lived in the “real world” for a measly 4 months, it was decided for me by the powers that be (aka Jobmine), that Windsor was calling my name. After spending New Year’s Eve 2007 stranded alone in a hotel room in Miami after poor flight connections, I hopped on a train January 2nd for the world of freedom, independence and hydrofluoric acid manufacture. I had arranged a room and board type deal, in a small town near to the chemical plant I would be working. Well, needless to say, that didn’t work out so well- Cold basement bedroom + loud sump pump

every 2 minutes all night + creepy owners with a variety of diseases = total stay two weeks. My first real experience with house hunting led me through the tunnels and alleyways of Windsor, which is to say, not a very nice place for a wide eyed naive kid that I was- I distinctly remember one apartment above a pet store, already with a family of five or more, and a critically low oxygen to sawdust ratio. I ended up in a house on a nicer street, close to the train station, waterfront and a brewery. Somehow I managed to not notice the dancing pole in the front living room when I was checking the place out, but you can imagine my surprise when I figured out my landlady’s profession! To be fair, she was super nice, taught me how to cook a few basics and was generally actually away on trips three out of four weeks a month. Advice: if you can at all avoid it, don’t live alone. It gets really indescribably depressing, and there’s no one to help you out if perchance you were to faint from low blood glucose levels and fall on your face. Ouch.

My 1B work term found me in Lake-

field, a little village outside Peterborough. This time armed with a roommate, the fall term found two girls living in approximately a 20ft square “apartment”. I lucked out and got the bedroom (read bed + 1m + closet), and the rest of the house was our kitchen-dining-living-roommate’s bedroom. The place reeked of the downstairs neighbour’s chain smoking, had an eccentric combination of grandmother donated, tool shed scrounged furniture, not a single level centimetre of flooring and was drafty like you wouldn’t believe. The piping in the shower must’ve been incorrectly installed, because 80% of the water went out the bath tap, with the rest actually coming out of the shower! Getting hot water was another challenge, and going out to social events generally involved coordination with 2 or more hours in between people showering. Advice: if you plan on showering with a friend, watch your heads. Passing out because of oddly inclined ceilings is no fun! Housing aside, Lakefield was so quintessentially quirky that everything just fit, as bizarre as it sounds when I think of it now. Tak-

ing the fire escape in the bathroom to sit on the roof and look at the stars was just something we did, and part of the character of that whole work term. And who could ever forget the infamous all out attack from the crazy Dutch landlords concerning the boyfriend and (non)marital status of my roommate?! Good times...

After those two, living at home during the summer was a breeze... The worst part was probably the realization on the first day that I would be spending 3 hours commuting on public transit a day to spend 8 hours in a lab measuring water samples by the 0.01g increments. I went home and cried. Honestly. However, it was pouring all day, and my friends will tell you that I get cranky and morbid without regular daily doses of radiation and vitamin D (read: November - March).

So that said, am I hopelessly jaded and cynical about co-op?? Probably, but sshh! I didn’t say that, because the gods of Jobmine and CECS will smite me with unemployment! Bring forth the next work term adventure!

Upcoming Events Calendar

Sunday November 9	Monday November 10	Tuesday November 11	Wednesday November 12	Thursday November 13	Friday November 14	Saturday November 15	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca  
	5:00 : IW Meeting in (E2 2349A) 6:30 : Resume Critiques	Remembrance Day 7:00 :Workout Tips Workshop @ PAC	EngSoc Meeting #5 (CPH 3385) Iron Warrior Issue #4 GradComm Pizza	Boggan Burgers	6:30 : <i>Midnight in Paris</i> Semi-Formal @ South Campus Hall 2010 GradComm Elections Close	Santa Claus Parade OEC Qualifier Dodgeball Tournament @ PAC	
Sunday November 16	Monday November 17	Tuesday November 18	Wednesday November 19	Thursday November 20	Friday November 21	Saturday November 22	
	5:00 : IW Meeting in (E2 2349A)	2:30: Career Interest Assessment: TC1112 3:30 : Success on the Job TC 1208	7:00 : Genius Bowl GradComm Pizza 2:30: Work Search Strategies: TC 1208	EngPlay Boggan Burgers 4:30: Getting a U.S. Work Permit: TC 1208	EngPlay 6:00 : Iron Warrior Issue #5 Deadline	EngPlay 3-on-3 Basketball	
Sunday November 23	Monday November 24	Tuesday November 25	Wednesday November 26	Thursday November 27	Friday November 28	Saturday November 29	
	5:00 : IW Meeting in (E2 2349A)		EngSoc Meeting #6 Iron Warrior Issue #5 GradComm Pizza	Boggan Burgers	9:00 : EOT (POETS)	Jazz Band Charity Gig	

HUMOUR AND SATIRE

The Adventures of Dangerman

“Chatham Moments”



Dearest Reader,

Just the other night I was having a round-table discussion about what a person's likely behaviour would be if they discovered they only had 5 minutes to live. While most of those present opted with the time-honoured “Grab a bottle of scotch, steal a car, and drive as fast as possible while receiving certain ‘favours’¹ from a passenger,” there was one girl present who replied simply that she would “call her family”.

Now let's face facts, if anyone only had 5 minutes to live, it's true they probably wouldn't really be in the mood to throw on the Marvin Gaye and grab the nearest person for some sudden-death carnal delights. However, I don't think calling my family would be high up on

my list of priorities either. Don't get me wrong, I love my family and they know I love them; we have hugged many times. More likely than not, if anything is said in those last five minutes, it's just going to ruin the good thing we have going.

Dangerman: “Hi mom, I only have 5 minutes to live...I just wanted to call and say I love you”

Mom²: “I knew this was going to happen! All that Danger-crap, I just knew you would do something stupid and kill yourself one day!”

Dangerman: “No, mom, we're just in a hypothetical exercise, I didn't do anything wrong!”

Mom: “Well you sure never did anything right!! How come you never met anyone nice? Is it so much to ask that there's at least the possibility you might've gotten married, and given me some grandchildren?! So what if you're going to die, it probably wouldn't have changed anything anyway!”

Dangerman: <hang up>, “Well that really puts a damper on the whole “dy-

ing” thing...”

All the same, I can't help wondering if family is somewhat less important in my life than in many other folks'. Lots of people seem to have big extended families and cousins everywhere that they're really close to. I also have a humongous extended family. My father originally had twenty brothers and sisters. That's right, 20. However, I'm basically estranged from my Dad's side of the family, for no particular reason other than my Dad got a job in Vancouver when he was fairly young, and keeping in touch was apparently much harder before the internets.

So now, I punch my last name into facebook and 70 people I've never met, who live within a few hours drive of here pop up (most of them still live in Chatham where my grandfather originally settled after immigrating from Belgium), including people with my exact name. It's bloody weird.

Now, whenever I meet someone who turns out to be from Chatham, especially

if it's a girl, I have to weigh the likelihood that I'm actually related to them. This happened just last Friday, and she told me she likes to refer to them as “Chatham moments”.

So if you're from Chatham, and you're reading this, you might have a little more Danger in you than you first realized. And if you're not, would you like to? (Bad joke, I know).

Till next time,

Dangerman
Eric.Dangerman@gmail.com

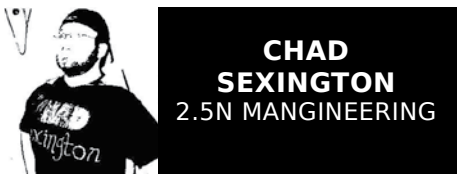
PS: Want to know about Danger-Academy? Email me.

¹ Favours = Roadhead

² I should probably point out that Danger-mom is nothing like this. If I was dying and called her, she'd probably be very cool about the whole thing.

Concerning Beards

Common Queries, Upkeep, and What the Ladies Really Think



Hey there sexy, you ready to go again?

Many a times the sexy people have asked The Chad what it is like to be bearded. “Does it itch?” and “Isn't it hot?” are common types of askings I receive. Indeed all of these raise concerns when making the decision to grow a beard, but allow myself to introduce a bearded revelation.

Why would any man choose to grow a beard? To show his manliness of course! Beards command instant respect, and can give an impression of greater knowledge to the unbearded. The very fact that a man can produce such a wondrous thing makes him the envy of the less able. He looks more powerful, older, tougher, wiser, and more confident. A quick look at history will show you just how many great men also had a great beard: Gandalf, Hemingway, Chewbacca, Van Gogh and even Chuck Norris had beards. The number of times bearded men get called ‘sir’ is far greater than bare faced men, and men just love to be called ‘sir’.

The Common Questions:

Does it itch? The only time I have ever found my manly mane to be itchy is whence forth I am growing it. Whenever you see a man scratching his beard, it is usually because he is a-pondering beardedly issues. Is it warm? An insulated jaw line can be a hindrance during the summer months when the heat causes perspiration to build up in it, but the beard can actually reflect and absorb nasty sunlight this preserving a man's sexy skin. Also, having a home grown scarf more than makes up for it's weight in gold during those chilly winter months. Can you store things in it? No. Do you get tired of it? Do you get tired of being attractive? Can I touch it? Go right ahead. I won't speak for all men out there, but most bearded boys enjoy a good chin stroke. It definitely helps when considering tough problems or when stressed out. Does it give you

super powers? Super powers of sexiness sure, but I'm not allowed to discuss any other benefits being in the League of Beards might have (yes, it exists).

Maintenance: There are a few key things required for maintaining a sexy beard.

--Trimming your beard to keep it a manageable length, especially in the professional world, is a must. A short yet full beard gives an air of professionalism and confidence. This is also important during interviews as it shows you can pull off a clean cut look while maintaining your individuality. This is less important if interviewing for a lumberjack or construction job.

--Clean lines on the cheeks and neck as well as around the lips/mouth help define your beard and make it stand out more. An electric trimmer over the whole face followed by a blade for the edges and bare areas is a good weekly to bi-weekly activity. Go bare up until where your beard becomes full. Get rid of any patchy beard syndrome on your neck and face.

--Keep it dry. A wet beard can start to smell and even if you don't notice it, other people will. This includes sweat, drinks, and breath-moisture in the winter. Food goes double in this regard.

--Wash regularly. You should be washing your beard every time you have a shower. Soap is fine, but if you want that extra sexy feel that the ladies love, go like The Chad and use conditioner in there too: lather, rinse, repeat. You won't regret it.

Of Ladies and Lions: ¼ of sexy ladies love a man with a real beard. But many tigresses are too intimidated by the beard to get close. Fear not, if a man has properly maintained his mane, it should be no problem. A soft beard won't scratch you when you get close, and if he trims his whiskers you have no reason not to kiss him. If he's scratching you, tell him to wise up and hand him this article. A beard used properly can be quite a treat! Beards are a bit tricky to handle sometimes, so you should forgive him for catching the occasional drop of mustard in it, but a real champion will be able to handle his own face.

Make sure he knows you appreciate it. Another added bonus of the beard is the intimidation blanket that comes with it. Most guys will refrain from making passes at a girl travelling with a sexily bearded man, and you get to hang out with that tough guy you've secretly been wanting. So next time you see that burly big guy, go for it, you might be pleasantly surprised.

Final notes: If you're going to do it, do it right. I'm talking about those wispy tufts of hair so many of you like to call a beard (which by-the-by is un-sexy in the extreme). Beards are not available as an option to everyone and some of

us men do suffer from the patchy beard syndrome. Seriously boys, if you're going to be sexy, you need to get control of your facial hair situation and get it where it counts or bite the bullet and get rid of it entirely. Finally, here are three things not to do to a beard, ever:

- 1) Pull on it. That really hurts, so just don't do it.
- 2) Shave it when he's asleep. You risk death.
- 3) Ask to wax it off. Think about what it would mean!

Until next time,
Stay Sexy

ProfQuotes

“I don't want to be in the prof quotes, ok? I'll be looking for them and if I see it I'll adjust the final accordingly.”

- Miller, ECE 484

“When you get theory and experimental values that match like this, you do a little dance!”

- Pritzker, CHE 231

“Is it hot in here or is it just me? No one cares if the instructor is hot.”

- Nespoli, ME 432

“I urge you to take marks off on the evaluation, because I'm not really qualified to teach here.”

- Thorburn, MUSIC 140

“I'm in an odd mood today and I hope you are too because if you are we're going to have a lot of fun. If you're not you better leave now.”

- Thorburn, MUSIC 140

“Does anybody know how to take a cross product? No? It's fun, you should do it more often.”

- Inal, ME 559

“That's probably a bad example, because I'm telling you to go steal stuff.”

- Kennings, ECE 223 (referring to patent infringement)

“Before I moved to Waterloo I lived in some hick town. If I had stayed there, I would have gone into Computer Science and worked at Google, or gone into Physics and been unemployed”

- Kennings, ECE 223

“I wish I could use a Band-Reject filter to reject your comments.” - Leung ECE 241 [To guy talking on mobile in class]

Mixology 101

Heat Up Those Bartending Skills: Coffee



AMANDA LEDUC
2A MANAGEMENT

Now that the weather is becoming colder, it's time to warm up your bartending style ... literally. When the weather drops below freezing, nothing beats a hot cup of coffee, especially if it has a little extra kick (and by kick I mean liquor).

Coffee as we know it today has been around since the 1400s. Most engineering students are well aware of the wonderful effects of coffee due to its caffeine content. This caffeine is what enables us to stay up for ridiculously long periods of time to finish those annoying assignments that get in the way of our drinking. If you are somehow oblivious to the marvel of coffee, I encourage you to go to the C&D and experience firsthand what you have been missing.

Despite the long history of brewing coffee, adding alcohol to coffee is a fairly recently development in history. The many types of liquor infused coffees all have rather interesting and humble beginnings.

Irish coffee for example was invented by Joseph Sheridan in west Ireland in the 1940s. Joseph, a head chef, offered coffee to a few American passengers on their way from the airport on a cold damp day. He added Irish whiskey to

the coffees in an attempt to warm the passengers up and named it "Irish Coffee".

There are a multitude of liquor infused coffee recipes available on the internet. By doing a quick search, you will certainly find that very few recipes for the same type of coffee contain the same ingredients. Pick one that has the most ingredients you like, or the most ingredients you happen to have on-hand.

If you prefer the route of creativity, designing your own alcoholic coffee is really quite simple. In fact, I invented my own recipe a few days ago and it came out deliciously (although it has only been tested by two people so far). I have posted the recipe below and would love to hear your feedback should you decide to mix it!

The easiest way to design your own coffee is to first look at existing recipes. Once you get a feel for what is typically in recipes, try mixing some of the more common ingredients together.

Begin by selecting a base for the drink. Generally, this should be a creamy li-

queur such as an Irish cream.

Next, select a few flavoured liqueurs to add to the mix. Make sure to pick flavours that compliment each other well and typically go with coffee. For instance caramel, toffee, chocolate and nut flavours always go well in coffee so choose liqueurs with these underlying tastes.

Finally, if you want a stronger coffee,

add a shot of 40% liquor to the mix. Whiskey and rum are the most common to add to coffee since they add a bit of their own flavour. If you don't want to change the flavour much, adding vodka is a good way to increase the alcohol content of your coffee.

Be sure to garnish your coffee with a sugar rim, whipped cream and of course, a cherry! Also, you should

serve your coffee in clear glass. A normal coffee mug will do but doesn't have the same visual effect as a proper fancy glass coffee mug or short stemmed glass.

If mixing your own recipe doesn't work out, or you'd like to use a tested

recipe, try mixing the recipes below.

Tip: To really impress your guests, first rim the glass with sugar and add a 40% liquor to the glass before adding any other ingredients. Warm the liquor and then light it on fire while rotating the glass on a slight angle so as to caramelize the sugar on the rim. Extinguish the fire in the glass by adding the remaining liqueurs followed by the coffee and whipped cream!

Interesting Fact: Fancy coffees should be served in a clear glass. Make sure that the glass you are using is tempered, otherwise, you risk shattering the glass due to the heat if you intend on lighting the liquor on fire in the glass.

Cheers and Happy Mixing!

Coffee With Kick

Amanda's Creation Coffee

2 oz. Irish Cream
1 oz. Triple sec
1 oz. Butter Ripple Schnapps
Coffee

Simple Irish Coffee

1 1/2 oz. Irish Whiskey
Coffee
1 tsp. Sugar (as required)

Simple Spanish Coffee

1/2 oz. coffee liqueur (Tia Maria)
1/2 oz. Rum
Coffee



Better Know A Beer

F&M Brewery Presents Stone Hammer Light, Dark & Pilsner



RORY ARNOLD
4A MECHANICAL

When asked what your favourite beer is, how do you reply? "Whatever's local, fresh and interesting," is how F&M Brewery's Brewmaster George Eagleson answers that question. George was nice enough to show me around the brewery going into great detail about the equipment, setup and future expansion, as well as answer some of my questions about brewing and F&M.

F&M was started in 1995 by Charles MacLean in Guelph. After a bit of a shaky start the company has begun to see excellent growth. In 2007, they produced 1750 hectolitres and are expected to grow by 17-20% this year. Initially they brewed 7-8 beers but have since stuck to just the three beers in the Stone Hammer family: the pilsner, the dark and the light. They also brew MacLean's Pale Ale, which was derived by MacLean, who continues to have close ties to the brewery.

The brewery uses a combination of Canadian and European malts and hops focusing on the quality of their products to make a great product. The company also attributes the quality of its brewing equipment to

the success of their beers. F&M is also one of the few breweries in Ontario who still uses a copper kettle.

George Eagleson began his brewing career 18 years ago in England and attributes Burton Bridge Porter as his inspiration to entering the business. He worked for a number of different craft breweries in Ontario before landing a job with F&M. Working alongside George is F&M's other brewer Andrew Henry who shares George's passion and enthusiasm for beer. Together they have worked on and off for the past 17 years and the relationship shows as this duo and the other F&M employees have a love and passion for their product that is very hard to find in most companies. The brewery is often filled with the sounds of rock 'n roll and they take that as inspiration into their beers. George also has a passion for recycling anything and everything whenever he can and showed me a number of simple engineering solutions he had came up with from recycled materials, including a hopper cover which used old cut up drumsticks to hold it in place.

Stone Hammer Light is a typical light lager at 4.2% alc/vol and pours a golden straw colour with a decent amount of head. A slight malty aroma with a delicate balance of flavour gives this light beer a great smooth taste that would be great on a hot summer day. This beer is definitely refreshing and still tastes like beer,

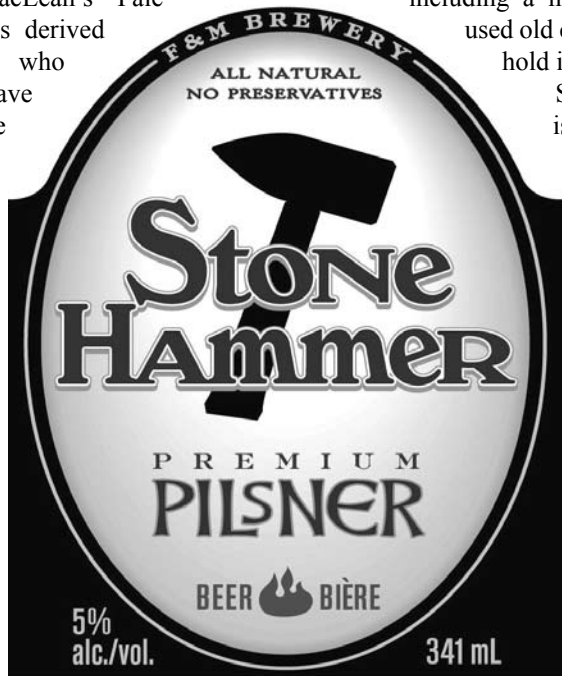
which makes it a great choice if you want something a little lighter tasting. A score of 7.2/10 is well deserved and a great score for a light beer.

Stone Hammer Pilsner is a near replica of the light with a slightly darker hue, higher alcohol content and a little more flavour. This beer is a great party beer and a lot easier drinking than any macrobrew. What I really love about this beer is that a small layer of head keeps the beer covered the entire time you enjoy it, sealing in the flavour. It also sticks to the glass showing that it's fresh. I give the Pilsner a score of 7.6/10

Stone Hammer Dark is an award winning beer, winning a gold medal at the 2007 Canadian Brewing Awards. One thing that F&M takes great pride in is their grains. This is probably why this is the one thing I notice in all their beers. It gives the beer a nice gritty flavour, which goes great with any hearty red meat. I also think this beer would go great in my chili. It pours a bit of a light chestnut colour and like the other Stone Hammer beers has great head retention. This beer is served a little bit warmer at around 7 degrees. It has a nice grainy taste that lingers around on the tongue. Not as malty as a lot of dark ales, this one a little more robust, giving you a full taste with only a slight aftertaste which stays around just

long enough to make you want more. This is a great beer, which scores an 8.4/10.

F&M Brewery is a great place to drink beer. Although they produce just a few flavours they do each one well. I really like their passion and their energy, which you can definitely taste in each bottle. The brewery and store are tucked away off Hwy 7 just as you enter Guelph, hidden in the back corner of a small plaza in an industrial area. However, like a diamond in the rough this growing brewery is starting to pop up everywhere from local LCBOs to even the Grad House where it is now available on tap, a Stone Hammer beer is definitely worth checking out.



DesignCamp Waterloo 100

4:00 - 6:00 PM
November 20, 2008
Multi-Purpose Room (SLC)

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The Iron Crossword

MATTHEW CASSWELL
2A CIVIL

1	2	3	4		5	6	7	8	9	10	11	12
13					14							
15					16							
17				18				19				
20				21			22			23		
			24			24			26			
27	28	29			30		31	32				
33					34	35		36				
37				38			39			40	41	42
43			44			45			46			
47					48				49			
50									51			
52									53			

The Iron Sudoku

MATTHEW CASSWELL
2A CIVIL

	8	5				9	6	
			8		6			
2	6			5			3	4
		8	6		5	7		
1								5
		4	1		7	2		
8	3			9			4	2
			3		2			
	1	2				3	5	

Crossword Clues

Across

- British Association for the Advancement of Science (abbr.)
- A hasty, haphazard manner or answer
- To have the sufficient power or resources to accomplish something
- Your cars _____ will run out, conveniently, a month before the car breaks down
- Slang for a unsophisticated, country person (not redneck or hick!)
- Little Johnny _____ to his mother that he ate the last cookie
- On Dec. 26, 2004, this hit South-Eastern Asia
- A _____ consonant is formed at the back of the tongue, and helps pronounce many words in different languages
- What you do to pants that are too long
- Blouse with a sailor collar
- Road on the Western edge of Waterloo and Kitchener; _____ Needles Blvd.
- Instant Message (abbr)
- Version of the word "a" when it precedes a word starting with a vowel.
- Nike - Just _____ (2 wds)
- Old-world monkeys, Papio
- Einstein said, "The only reason for time is so that everything doesn't happen _____" (2 wds)
- Ski manufacturer from Slovenia (sounds like "Ellen")
- French word for "gold"
- Opposite of "out"
- Official title of Elton John, given by Queen Elizabeth II
- What dogs do to squirrels (before they bark and chase)
- Estimated Time of Arrival (abbr)
- Chemistry term; two carbonyl groups bound to nitrogen
- A shot (medication) that you get as a child
- Nothingness, empty, abandoned
- Cars tend to do this at the Tim Horton's drive-thru in the morning
- Twisted together
- First name of a famous African-American civil rights activist (female)
- A ladder of statistics, including scores and rankings (ie, "Where is your class in the P**5 _____?")
- The Ugly Duckling

Down

- Author John _____, The Sot-Weed Factor
- Attempt by one person to control another using fear or violence
- "Let It Be" was the last _____ recorded by The Beatles
- Alternative word for "saw" (past-tense)
- Hindu Honourific Title
- Describes something pretentious (3, 2-letter wds)
- This attaches your hand to the rest of your body
- The Queen's _____ Council for Canada was established by the British North America Act in 1867
- Usually written at the top-left-or-right hand corner of a page at the beginning of a lecture
- An insect whose name combines "lion" and "ant"
- C₁₈H₃₆O₂ (type of Acid)
- Term used to indicate that a substance contains water
- This goes in a gun or rifle
- What makes you, you!
- Atom or molecule that has lost or gained 1 or more electrons
- Residence-life co-ordinator
- Making an additional point
- French for "food"
- One who has the expertise in the preparation of espressos
- Neither this, _____ that
- Another word for "lean"
- Spoiled
- Very cold or icy
- Dandelions
- To provide with property or income
- City in Oklahoma
- Association of Southeast Asian Nations (abbr)
- The direction this clue is in
- Affected manner intended to impress others
- Ruined and uninhabited medieval city-state in Turkey.

THE IRON INQUISITION

Stuart Pearson, 2A Civil

"Why is Remembrance Day important to you?"



JD O'Leary
3B Civil
"To remember how we got to where we are today"



Matt Friesen
3B Chemical
"It commemorates an important part of Canada's history as a nation"



Anthony Iseyemi
2B Computer
"We should never forget the sacrifices people made for our freedom"



Natalie MacDonald
2A Civil
"It gives us a chance to bond as a community"



Robbie Francioso
3B Software
"So that we don't repeat our old mistakes"