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<http://iwarrior.uwaterloo.ca>

UW Nanorobotics Group Captures Third Place

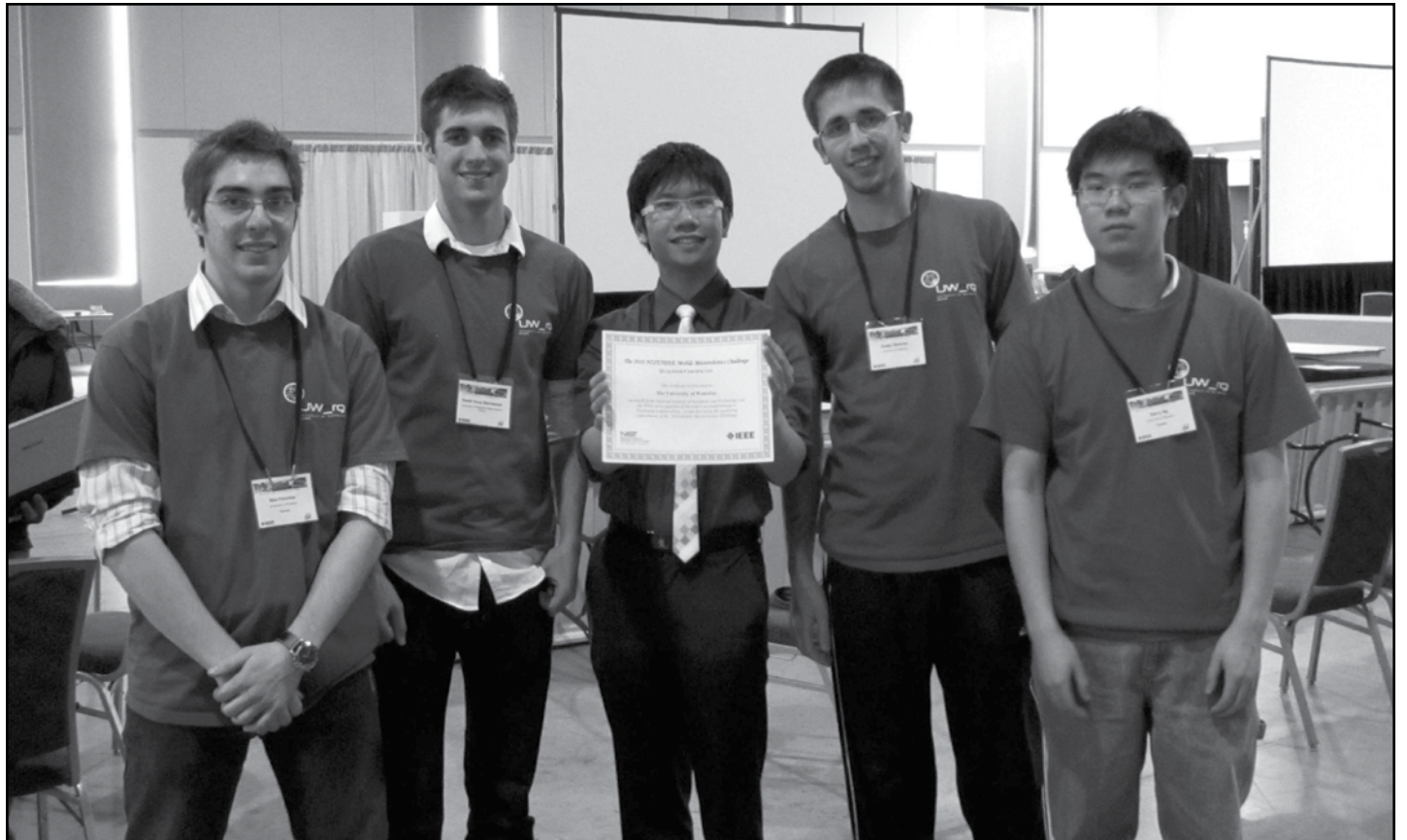
Waterloo Undergrads Put Canada on the Map For Microrobotics

KEITH PEIRIS
3B NANOTECHNOLOGY

The University of Waterloo Nanorobotics Group (UW_NRG) won third place overall at the fourth-annual NIST Mobile Microrobotics Challenge held by the National Institute for Standards and Technology. Out of eleven registered teams this year, the Waterloo team was both the only Canadian and the only purely undergraduate entrant to participate. The completely self-directed team only fell short to the entries from Carnegie Mellon University and ETH Zurich.

The competition consisted of creating a robot of under 600 micrometers in all dimensions and completing three independent events as follows. The two-millimeter dash was a timed sprint across a playing field on a silicon wafer. The microassembly challenge consisted of moving micron-scaled pegs from points on the field into holes to exhibit applications of microrobots. Finally, the freestyle competition allowed the teams to demonstrate the unique capabilities of each device.

UW_NRG's entry into the challenge
See NANO on Page 3



Courtesy: UW_NRG

Max Palumbo, Derek Bennewies, Edgar Cao, Dule Sarenac, and Garry Ng holding their award.

Root Cause of Gulf Oil Spill Finally Revealed

AMRITA YASIN
3T CHEMICAL

The Deepwater Horizon Oil Spill has been making headlines since the oil well blowout occurred on April 20th 2010. There is an array of concerns surrounding this incident as to how to stop the gushing oil and the impact on aquatic and aerial ecosystems and the environment. Most disturbing of all is that a detailed truthful account of why the accident happened is still pending.

Among the finger pointing that is still happening, a somewhat reliable account has surfaced. An interview that was conducted by 60 Minutes (an American news program), of Mike Williams, the Chief Electronics Technician at Deepwater Horizon revealed the series of incidents leading up to the accident. According to Mike, the drilling pipe was taking longer to reach the oil than originally planned. In order to drill oil faster, the BP manager ordered for a faster penetration rate by the drilling pipe which caused the bottom of the well to crack and split open. Eventually that well had to be severed with 'drilling mud' and was abandoned. Drilling mud is a man-made drilling fluid that is injected into the well and pumped up along the sides in a continuous manner to keep the oil pressure under control.

Another well was drilled and sealed with a BOP. A BOP, blow-out preventer, is a device used to measure the pressure and in-

tegrity of the well. It is installed on the sea bed when a well is to be sealed. The BOP has a rubber gasket called an annular that is critical in preventing a blow out of oil from the well. Four weeks prior to the accident a worker on site noticed chunks of rubber in the mud being pumped out of the well. This was reported to the on-site supervisor who said it was normal. In addition, the BOP is controlled by two Control Pods, one of which is a back up. A few weeks prior to the accident one of the control pods lost its functionality. According to Dr. Rob Bea of Petroleum Engineering at University of California, Berkeley, the standard operating procedure for both, appearance of rubber with mud and failure of a control pod is such that the oil extraction should be stopped and immediate action be taken to reestablish the BOP, but unfortunately nothing was done.

When it was time to seal the well, Transocean proposed that three concrete plugs be inserted in the well while keeping the mud in the well to help reduce the pressure. On the other hand BP proposed that mud be pumped out before the last concrete plug is installed in order to proceed faster. Before the last plug was installed, pressure measurements from the BOP were checked to ensure that explosive gas was not escaping. The measurements from the BOP were inconclusive, yet the mud was removed. As a result, the gas leaked from the well and got

See BP on Page 3

Federal Government Prefers Food Tasting Over Tuition Cuts

ERIN MATHESON
2B CHEMICAL

There are a few iconic things that happen every year that always remind me that summer has finally arrived; the first day to break the 20°C mark, the day after the May long weekend where the local Shoppers runs out of aloe vera, and the day when Toronto officially enters some sort of crisis that manages to anger the entire city.

From June 25th-27th, Toronto and Muskoka will play host to the G20 and G8 summits respectively, gathering the most powerful bank executives, finance ministers and nation leaders from across the globe. Toronto is no stranger to hosting events of this scale, nor are its citizens stranger to the crowds, traffic and general sense of chaos that comes with them. What isn't sitting well with the general public is the tab for the anticipated security for the three day event that is being footed by the federal government; a grand total of \$1 billion.

First off, who is all of this money supposed to be protecting? G20, also known as the Group of 20 was first established in the wake of the Asian financial crisis of the late 1990's as a meeting of finance ministers and central bank governors. Its formation was foreshadowed at the Cologne Summit of the G7 in June 1999, but

was formally established at the G7 Finance Ministers' meeting on September 26, 1999, officially superseding the G33, which itself had already superseded the G22. The G20's membership consists of representatives from advanced and emerging economies from across the globe, with goals to bring stability to the financial markets and promote economic cooperation.

The first meeting of G20 leaders took place in Washington, D.C. on November 14-15th, 2009, where they produced an action plan that outlined measures to stabilize the global economy in light of the then recent onset of the recession. The leaders outlined the importance of rejecting protectionism and introduced coordinated stimulus packages that collectively constituted the largest support program for the financial sector in recent history. A follow up meeting happened in London on April 1-2, 2009, where the leaders continued their work and committed to a historic pledge of \$1.1 trillion US to restore credit, growth and jobs in the global economy, which included a \$750 billion commitment to new resources for the International Monetary fund and \$250 billion to support trade financing.

Another follow-up type meeting occurred in Pittsburg on September 24-25

See TORONTO SUMMIT ON Page 8

Letter From the Editor

WEC awareness and the only mention of the iPad in this Issue



ANGELO ALAIMO
EDITOR-IN-CHIEF

Hello readers, thanks for turning to this page of The Iron Warrior. I hope you enjoyed our previous issue and will enjoy this one as well.

I'd like to start this letter by thanking my staff once again. A lot of hard work went into this issue by the volunteers of this paper and if it weren't for them, you likely would not be reading this letter.

Now onto this issue. Spring terms generally have little news to cover on campus compared to other terms, but we try to go out and look for any topics on campus to be covered to bring to you in text. Unfortunately, as we are human, we sometimes do not hear about some events, thus I ask you to send us an email and tell us about your event or accomplishment your group/team gained over the spring term.

In this issue, we are lucky to bring you some news from our Nanorobotics group which came third at this year's NIST Mobile Microrobotics Challenge. As I previously mentioned, *The Iron Warrior* does not hear about all events, and this was one of them. If it was not for UW_NRG's proactiveness in sending this article in, we wouldn't have had the opportunity to report on this group's accomplishment.

Also in this issue, an article about the recent British Petroleum disaster in the Gulf of Mexico. As of press time, oil is still leaking from the damaged well with the most recent "Top Kill" effort failing to stem the flow. Engineering protocols were in place to prevent such a catastrophe from happening so why did it still happen? What does this mean to the profession of Engineering?

The regular Iron Archive's banner this term is the second banner used for *The Iron Warrior*, judging from the archives. This banner was in use from the mid-eighties to approximately the early nineties when production was moved from physical cut/paste to computers. When production switched to computers, a text banner was used for a bit before a graphic banner could be implemented.

The engineering exec reports bring you a view of this term's budget and an interesting piece from the president which talks about the views of engineering students from across campus. I've seen my fair share of "engineering elitism" from people in this faculty as well as "anti-engineering" comments from across campus as well. It's time we step up and speak up about this issue and begin changing perceptions of us from those not in our faculty.

From the entertainment side, the brew man group serves up another excellent beer article, the future of gaming talks about next generation add-ons to current consoles, and Jon Radice brings his "Review Based on the Trailer" back with his review on Toy Story 3. Also, the absence of a sudoku in the last issue has not continued into issue 2; however, it's not your typical "sudoku". You'll see it along with

other distractions on pages 15 and 16.

Now there are a couple things I'd like to talk about in my editorial this issue: The Waterloo Engineering Competition, as well as the iPad - specifically the media hype.

I'm going to throw three acronyms at you - WEC, OEC, CEC. Do you know what these mean? Well, from reading the last paragraph, and using logic, you will likely now know what WEC stands for, and from further logical analysis, you will likely be able to progress along and determine the other two acronyms. If you still don't know, that's ok. WEC = Waterloo Engineering Competition, OEC = Ontario Engineering Competition, CEC = Canadian Engineering Competition.

Many people do not know what these competitions are and I feel more needs to be done to bring awareness to them. As a participant in both the WEC and the OEC, I have enjoyed my time competing and seen the direct benefits in forms of increased skills and money.

I'm not going to go into detail on exact competition details as those can easily be found on <http://wec.uwaterloo.ca/>, I'm going to talk about why more people should participate.

In a nutshell, those who win the WEC go on to the OEC, where they compete with other engineering schools in Ontario in order to pick competitors to represent Ontario at the CEC. We boast about being the "best engineering school in Canada", and that may be so, or just our reputation. From our performance at these competitions, I wouldn't think so. If we are the "best engineering school in Canada", why aren't more of our teams qualifying at OEC to be sent to CEC?

Well, we did have a much stronger showing at the OEC this term compared to previous years I will admit, sending four teams to compete in the 6 competition categories. Unfortunately, none of these teams finished in the top three of their categories on the National Level.

Competition is always fierce, I know from personal experience, but with the amount of talent I have seen at this school, there's no doubt we have the ability to dominate these competitions.

With the amount of talent I have seen at this school, there's no doubt we have the ability to dominate these competitions.

How can we dominate? Well the WEC is a step in the right direction. The WEC is a more organized competition, only starting last spring as the brainchild of former competitions director, Kevin Liu. Previously, the Waterloo qualifier did not, in my opinion, have much organization, and even less people knew of these three competitions.

By making the WEC a huge presence within Waterloo Engineering, and by raising enough awareness to ensure each student knows what they have to gain by participating in these competitions, we can attract the best and brightest to compete which will hopefully increase our results at the subsequent two competitions.

I implore you, the reader, to get informed about these competitions. Talk to your friends about these competitions, and

if your friends are interested, start a team and compete. If your friends are not interested, you have at least made them aware of the competitions.

In all, you have nothing to lose, and everything to gain. Also, who knows, you and your team might be called up to accept an award for placing at these competitions at the awards banquet.

Now onto the iPad. Why all the media attention? Back during the iPad's initial American launch, media outlets reported on everything from the massive lineups outside Apple stores to how "amazing" the device is. The front pages of newspapers and many websites were dominated by this "revolutionary" device.

I guess Apple knows their customers are rather willing to buy any product released by them prepended with an 'i'

From reading all of the tech blogs, people were praising it for its "gorgeous" screen and "intuitive" interface. Rarely did anyone criticize it for its major shortcomings. Why isn't there a front facing camera for video chat? Why is there no SD card slot? Why is it so fragile? (One drop is enough to smash the screen). What can't I Bluetooth tether a wi-fi iPad to an iPhone?

Well some of those questions can be answered by this: Apple can't sell you a 1+n generation iPad later down the road with these features if you buy the first generation product that doesn't have any shortcomings. The technological answer to all the above questions is readily available, but I guess Apple knows their customers are rather willing to buy any product released by them prepended with an 'i'.

Now, I'm not anti-Apple. I've been a macbook owner since 2006, and when looking to upgrade in the next year or two, I will likely buy another. What I don't like is their current business practice. Every product release keynote is a repetition of feel-good words such as "magnificent", "awesome", "magical", "gorgeous", "sleek", "elegant", "beautiful", "wonderful", "fantastic", and the aforementioned "revolutionary". Perhaps they're marketing geniuses and realized the general population will fall into the trap of the nice glow these words generate inside our brains.

Now with the recent international launch of the iPad this past week, media once again is all up in frenzy over this device. Is there no more riveting worldly news out there to write about, or is the media just becoming lazy and reporting on whatever is easiest to write about? I guess it's easy to praise the device and difficult to criticize it, especially when it might save the publications that write about it through electronic subscriptions of magazines and newspapers. It'll be interesting to see how the current anti-trust lawsuits treat Apple in the coming year.

Well enough of that. *The Iron Warrior* will be taking a three week break from publication due to ECE and MME mid-term "hell week" coming up oh too soon. I hope you enjoy the rest of the newspaper and once again, if you have any feedback, positive or negative, please send it to us as we cannot improve without it.

GOOD LUCK ON YOUR MIDTERMS!
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THE IRON WARRIOR

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The Iron Warrior is a forum for thought-provoking and informative articles published by the Engineering Society. Views expressed in The Iron Warrior are those of the authors and do not necessarily reflect the opinions of the Engineering Society.

The Iron Warrior encourages submissions from students, faculty and members of the university community. Submissions should reflect the concerns and intellectual standards of the university in general. The author's name and phone number should be included.

All submissions, unless otherwise stated, become the property of The Iron Warrior, which reserves the right to refuse publication of material which it deems unsuitable. The Iron Warrior also reserves the right to edit grammar, spelling and text that do not meet university standards. Authors will be notified of any major changes that may be required.

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Send your submissions to iwarrior@engmail.uwaterloo.ca

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Letter to the Editor: A Missing Apology

RE: PDeng Renewal

Dear Editor,

This letter concerns a missing apology.

WatPD-Engineering is totally different in content from PDEng. NONE of the previous content will be even **considered** for the new version FANTASTIC!!!

The new program is in good hands. We don't have to worry about any of the previous oppressive treatment of students creeping in ... GREAT!!!

Although it will be given in the work term, the number of hours of work required will be 20-25 hours per term for 75% of the student body ... GOOD!!!

The administration of the on-line program will be handled by WatPD, the staff of which is experienced at administering on-line courses where instruction (NOT

evaluation) is the main thrust AND students who have access problems while on weird work terms will be accommodated with CDs or DVDs and can mail in their submissions WONDERFUL!!!

THREE CHEERS and a pint of good beer for all the above changes. It's about @#\$\$%^& TIME! These changes take care of all incoming students, although it will take years to rid our reputation out there of PDEng. Prospective students still ask about PDEng in their FIRST question.

BUT what about all the poor sods who had to go through 5 years of hell to get here and are now out in the work place???? They are the ones who **WON'T** be:

- Contributing to alumni funding
- Hiring our students on their work terms
- Recommending UofW engineering to

their relatives and friends

Shouldn't we reach out to them to try to heal some of the bitterness? What better way to start than with an official apology? It took the church 400 years to apologize to poor old Galileo for forcing him to say that the sun revolves around the earth. **We don't have 400 years!!!** If we want to reverse some of the aforementioned negative effects we need to apologize **NOW**.

Since administrators, like politicians, seem to be genetically predisposed to never admitting they are wrong or to never apologizing even though every shred of evidence indicates that they should, I'll write an apology for them and they can endorse it (if they can bring themselves to do it).

This is what they **should** say:

The administration officially apologizes to all students who were negatively affected by the previous version of PDEng. It profoundly regrets the frustration, stress and anger caused by its implementation. They can rest assured that the new professional development program, WatPD-Engineering, will carefully correct all previous deficiencies and will be constantly monitored by responsible faculty members and students.

Now, that didn't hurt, did it?
We're all waiting !!!!!!!

Yours truly
Donald A Fraser,
Senior Demonstrator and Head TA
(retired)

More About UW_NRG

NANO from Page 1

was aptly named EMMA (ElectroMagnetic Microrobotic Actuation) and truly demonstrated the University of Waterloo's advanced developments in electro-magnetic manipulation at the microscale. The robot's control system was composed of a complex image recognition system that controlled the magnetic field acting on the robot with sub-micron accuracy.

"EMMA truly demonstrates that even undergraduate students with limited funding can compete at the global scale in micro and nanotechnology engineering. The only thing we couldn't do out here was buy beer after finishing" joked Derek Bennewies, Business Development Officer for UW_NRG.

The team eagerly awaits next year's challenge to bring the prize to Canada.

About UW_NRG

UW_NRG came to life nearly three

years ago from a napkin design and a dream. The core team consisted of Edgar Cao, Dule Sarenac, Garry Ng, Max Palumbo, Derek Bennewies, Michael Kwan, Ivan Law, and Keith Peiris from the University of Waterloo. With the help of Advanced Micro Devices (AMD), Zaber Technologies, Sun Microsystems, the Imaging Source, ANSYS, and various university student endowments, the group is completely sustainable. The team would like to thank Dr. Mustafa Yavuz, Dr. Mir Behrad Khamesee, Dr. Pearl Sullivan, and Dr. Caglar Elbuken from the Department of Mechanical and Mechatronics Engineering at the University of Waterloo for their continuing support. Finally, a special thanks to The University of Western Ontario NanoFab and the University of Manitoba NanoFab for accommodating all of the group's needs.

BP Clearly Negligent

BP from Page 1

sucked into the diesel engines which power the electric generators on-site, causing the explosion.

It was negligence to comply with safety procedures at various levels that led to the mishap. This raises the inevitable question: How many offshore drilling sites or factories in general actually follow the codes and procedures in place? And are there any in place? BP's Atlantis PQ offshore platform in the Atlantis Oil Field

is said to have 85% uninspected/unapproved engineering drawings and 95% uninspected/unapproved welding procedures. A Minerals Management Service report instructed to shut down the site until documentation was complete and verified

but that never happened. In April 2008, the MMS exempted certain projects in the central Gulf region, allowing BP to operate at the Deepwater Horizon without filing a blowout plan. Moreover, BP and other oil industries continuously wrote letters to the

BP's Atlantis PQ offshore platform in the Atlantis Oil Field is said to have 85% uninspected/unapproved engineering drawings and 95% uninspected/unapproved welding procedures.

Minerals Management Service objecting to a proposed Minerals Management Service rule last year that would have required stricter safety measures. According to Rebecca Noblin, the Center for Biological Diversity's Alaska director,

"If they're [oil companies] allowed to take shortcuts, of course they will. And it's the government's job to make sure that they're not allowed to do that. Bottom line, our government shouldn't let the oil companies do what they're doing."

Everyone Should Know www.TED.com



CAILIN HILLIER
3A GEOLOGICAL

About a year ago, I was introduced to TED and enchanted immediately. Since then, TED and I have laughed, cried, and learned together. Never before had I felt this way about a website.

TED, short for Technology, Entertainment and Design, is an American non-profit organization that began in 1984. The aim of TED was to bring together gifted people from three very different disciplines to share ideas, "Ideas Worth Spreading." These "TEDTalks" are now available online for anyone to view.

Each year, the main TED conference is held in California. A off-spin of the annual TED Conference, called TEDGlobal, has also been created since TED's original conception. This conference is held in a different location each year, last year being held in Oxford, UK. Each year, these TED conferences have varying themes relating to world issues or simply poses a thought provoking statement to speak to. This definitely provides the framework for intriguing idea sharing.

Over the years, TED has grown considerably. The list of TED speakers now includes Noble Prize Winners, World Leaders and Academy Award Winners, including Bono, Bill Clinton, James Cameron, Bill Gates, Al Gore, Stephen Hawking and many, many more. Since 2006, there have been 200 million views of the more than 700 TEDTalks.

The TED website, ted.com, in and of itself is excellent. Depending on your interests, you can search for a TEDTalk and you will be sure to find something fascinating. The talks have also been categorized into themes of Technology, Entertainment, and Design, as well as Business, Science, Culture, Arts, and Global issues. A favourite feature of mine are the Rated talks, where talks can be rated as jaw-dropping, persuasive, courageous, ingenious, fascinating, inspiring, beautiful, funny, or informative. This is a perfect way to guide your TED viewing. Typical TEDTalks are on average 20 minutes in length, the perfect study break. There are also "TEDTalks in less than 6

minutes," as well as longer TEDTalks similar to lectures. Waterloo and TED are also well acquainted. TEDx are independently organized TED Events. This past February, TEDx Waterloo took place, hosting a variety of local genius. Videos from this conference are also available online - I encourage you to check them out! There are many other high profile TED events in existence. TEDMED is another independent TED event focusing on a medical technology and health care.

The Annual TED Prize was introduced

back in 2005. TED Prize presenters bring forth their "One Wish to Change the World," with hopes of winning the \$100 000 prize. With this financial win also brings the benefit of involving the entire TED community, with their rich supply of talent, in order to instigate change. The prize was originally awarded to three individuals, but starting in 2010 will be given to one deserving "TEDster." The 2010 TED Prize winner was Jamie Oliver with his wish "for help to create a strong, sustainable

movement to educate every child about food, inspire families to cook again and empower people everything to fight obesity." Personally, I have found TEDTalks to be a perfect source of inspiration, or "procrastinating with purpose," as I like to call it. I find myself recommending certain talks to my friends all of the time. Most of my favourites have been recommended to me by other people. Three of my favourites I suggest you check out are just above in the next column:

- Randy Pausch: Really achieving your childhood dreams**
- Ken Robinson: Schools kill creativity**
- Sylvia Earle: Ocean Wish**



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!




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

The UK: Making a Minority Government Work



BHAVYA KASHYAP
STAFF WRITER

As Canadians, we have been exposed to the idea of a minority government, and so the observation of similar phenomena in other governments provides us with some remarkable parallels as well as a sense of our place on the political spectrum. Our attention has most recently been drawn to the government of the United Kingdom, a country that has not seen the need for this sort of coalition since 1974.

In the last few years, The UK has been wrought with a series of crises and, being a country with less phlegmatic attitudes towards politics, it is easy to see how the outcome of their most recent election has left them squirming. Conditions leading up to the election, being as unsavoury as they were, did not help. Following the credit crunch, the British people were rocked by a political scandal involving a large number of MPs and their abuse of the expenses system; three of these MPs now face criminal prosecution. Adding to the chaos was the resignation of the Speaker of the House of Commons, who had previously voiced his concerns over certain acts that facilitated this sort of abuse (UK's Freedom of Information Legislation).

The ensuing election left the British Conservatives twenty seats away from an overall majority, producing a hung parliament. The

British Liberal Democrats and British Labour party were temporarily in talks with the Conservatives to make the minority government work, but a number of problems came to light, the largest issue being that the Democrats refused to accept any offers unless the Conservatives promised them a referendum on proportional representation, something that the Conservatives did not wish to do. In addition to this, there were a number of policy differences, including those relating to the depth of trust each party had for the rest of Europe and the manner in which each one wished to deal with the country's large budgetary deficit. Following these talks was an unsuccessful attempt to put together a Labour-Liberal Democrat coalition, which was ended by Labour party leader Gordon Brown's resignation from the position of Prime Minister upon the approval of the Queen.

The Brits finally declared David Cameron of the Conservative party as their Prime Minister, a decision they came to in five short days. While they were able to resolve this situation fairly quickly, the UK's history with minority governments has not been a particularly pleasant one; the last one was dissolved within a mere seven months, leaving parliament floundering until the Labour party was able to secure a majority. The Conservatives currently do have total support from the Liberals, but it will be interesting to see how long the coalition will be able to sustain itself. In the meantime, the UK will just have to be complacent with what it has.

UW Farmers Market Opening Soon



ALISON LEE
IT NANO

By now, most of us know that it's better for us and the planet to eat healthy and local. So why aren't more students doing it? Waterloo is surrounded by farms that offer fresh seasonal products all year round, and yet the Plaza remains a primary food source.

This summer, kick the expensive habit of fast food by visiting the on-campus farmers market! Every summer and fall, a farmers market is held on Thursday mornings in the ENV 1 courtyard. Aside from fresh local fruits

duce, meat, dairy, bread, and veggies, there's a big selection of baked goods, jams, and other home-made treats. Everything is priced comparably to a grocery store, and it gives you an idea of what kind of produce is in season. Bring your own bag, pay in cash, and prepare to be tempted by a \$4 apple crisp. You may also be able to sign up for a student-run cooking workshop if you're new to cooking from scratch. It doesn't have to be time-consuming and the results are well worth it! Your roommates will also love you.

Even if you don't know what a leek looks like, summer is the best time to experiment. Why not try to bake a strawberry rhubarb pie? You don't even have to be a kitchen god to assemble some sandwiches and fruit salad to eat in the sun with friends. The UW farmers market food is sourced from the Elmira Produce Auction Cooperative, a group of farmers who sell wholesale fruits and veggies to the community, so everything is fresh to eat

without cooking at all. For budding local foodies (aka locavores), www.foodlink.ca is the best place to find everything there is to know about local food in the Waterloo region. Foodlink connects local healthy food to consumers, businesses, and policymakers in a network that's bigger than you might think.

If you want to go straight to the source for more selection, a day trip to St. Jacob's is definitely worth it. It's completely accessible by transit via GRT and a thousand times more exciting than ValuMart. For something closer, the Kitchener Farmers Market is a short walk from Charles St. Terminal (I'd say a hundred times more exciting than ValuMart). These farmers markets have a huge variety of local products and some imports. You can definitely accomplish your entire grocery list, even if it includes donuts and chips (as long as it doesn't include Hungryman or Fruit Loops).

Of course, the UW farmers market is the most convenient of them all. You don't even have to leave campus, which is the major barrier for most students. It's run by student volunteers and they're always looking for more help. Stop by the WPIRG office in the SLC for more info. There's even talk of expanding the market to be all year round and making pre-made baskets ready to order for students in residence. Once you start to eat local, you'll find it's hard to stop. You really notice the taste improvement and soon you'll find yourself cooking for fun! True story, but let's not get carried away. Try out the UW farmers market and make your own assessment.

Now if you'll excuse me, I'm hungry.

Latest Cell Phone Usage Study Inconclusive



ERIN MATHESON
2B CHEMICAL

Last week, the results from the mother of all medical studies was finally released – the World Health Organization's International Agency for Research on Cancer (IARC) Interphone Study Group concluded their research on the effects of mobile phone use on the risk of brain cancer. The group surveyed more than 13,000 mobile phone users from 13 countries over the past decade and investigated any possible links between usage and two main types of brain tumors; glioma and meningioma.

With a total research budget of \$20 million and a sample population size that would send statisticians into a frenzy, this study was hoped to finally lay rest to whether or not using a cell phone does in fact cause brain cancer. The results; *inconclusive*. Overall, the group concluded that radio-frequency energy emitted by mobile phones does not increase the risk of either types of brain tumor, although a slightly greater risk of cancer among 'heavy' users was found.

Where the group is getting attacked is the way in which they collected their data, and how no one is apparently able to give a concise definition of what puts someone in the supposedly risky 'heavy user' category. Panel member Daniel Kewski explains their data collection method, "If we asked you to be a participant, we would sit down with you and ask you to try and remember every cell phone that you had used in your entire life, and then we would ask you how many times a day you made phone calls, and how long you were on the phone for each of those calls on average. So your recollection of cell phone utilization patterns may

not be perfect." This method has been called 'sketchy' at best, causing the reported 40 percent risk increase for glioma amongst 'heavy' users to be questioned.

This risk group includes people who claimed to be on the phone for a minimum of 30 minutes a day, seven days a week. But this group only accounted for about 10 percent of the entire sample the panel looked at. In the end, it all works out to no great danger. Otis Brawley, chief medical and scientific officer of the American Cancer Society says that there's insufficient evidence to confirm the risk increase, and even if it did the problem would be dwarfed by more other serious health concerns. "If you use the worst case studies that we have to date, it's about 300 additional brain tumors per year in the United States," he explains. "Compare that with the fact that we have definite data to show that 3,000 deaths are caused by auto accidents due to cell phones in the United States every year."

Even though you're more likely to wrap your car around a tree while calling someone before you get a brain tumor, there are some recommended precautions made by the panel. Mobile phone users should use wired earplugs or a wireless Bluetooth device so as to avoid holding their phone next to their head while making calls, as these methods emit less radio frequency than the phone itself.

The group says that they'll look at their collected data in further detail in a years time, which gives anti-cell phone skeptic groups plenty of time to further rant and rave about how their still convinced that cell phone usage is guaranteed to give you brain cancer. In the meantime, odds are cell phones will simply fall back into the category of things that may or may not give you cancer, but we still use anyways, right along with Nalgene bottles and bad Chinese food.

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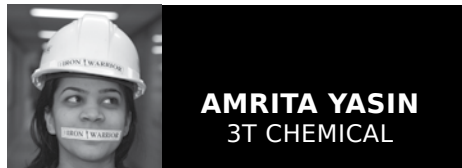
IRON WARRIOR



THE ENGINEERING SOCIETY'S STUDENT FORUM

The Iron Archives

Iron Warrior Standards, Media Commentary, Private Universities, and ECE FYDP Criticism



AMRITA YASIN
3T CHEMICAL

1990 Spring Issue 1 – May 11, 1990

The editor during Spring 1990 term, John Kingdom, talked about the standards expected of Iron Warrior in his editorial. He writes, "The standards and principles of the paper are maintained principally by tradition rather than a formal mandate. Without direction, the Iron Warrior might one day shift its emphasis away from engineering and become just another newspaper."

Kingdom further lists some of his thoughts regarding the content expected of an engineering publication. "Technical and informative articles are the backbone of the paper... This keeps the emphasis on engineering and its practice and reminds us about what we'll be doing after we get out of here. News and announcements are important as well, but the campus has two other newspapers to keep us

informed of general news. The Iron Warrior should keep its news coverage down to items that interest engineers specifically and items that the more general papers might neglect." His further comment on opinion pieces somewhat differs from what is currently practiced, "Opinion pieces are as important to the [Iron] Warrior as to any other paper, but are slightly more restricted. Currently, opinion pieces are limited to editorials, articles from the EngSoc executives, Point-Counterpoint articles where both sides of an issue are rationally and responsibly covered and Letters to the Editor dealing either with previously appearing items or with immediately topical EngSoc and engineering issues." Now the Iron Warrior welcomes and publishes all kinds of articles from the staff writers and students.

His stance on humour is notable as he explains, "if you come to expect humour in each issue, and get to the point where you have to have it, then you quickly find that you're lowering your standards and accepting items that may be both unfunny, and possibly, tasteless and needlessly offensive."

Throughout these years many writers have written about the beginning of Iron Warrior, and presented their views on the content that should be permissible. One thing that is certain and also highlighted by Kingdom is this newspaper can never cater to the needs of the student body without feedback from its reading public.

1995 Spring Issue 2 – June 12, 1995

Axel Noriega has written an enlightening opinion piece titled "Misfits of Society" on the transcending role of media in our lives and public hypnotization to it. After stating that development in technology has enabled the

world to be informed he says, "And thanks to the media, we have become sterile. Sterile to the facts that the media exposed to us. But the big question is, how far are they taking us? The media has become a commercial estate that has affected our culture. Their main concern has become not to inform us of "current affairs" but to get us involved in some of others' personal affairs."

Axel presents examples of OJ and the Bernardo case to illustrate how media hype can get the public highly engrossed in someone else's affairs. Regarding the later case he writes, "Do we have the right to overpass the doors of privacy of entire families that have fallen in disgrace? ...Does the media have the right to disrespect the feeling and petitions of these hurting families? Is justice just? The media has crossed the line. The line of respect that as human beings we all deserve. But, we have fallen in their trap. We have lost track of what's really important and what's not. The media has exploited basic human emotions

as cheap." Isn't this happening today too? We recently saw the whole affair with Tiger Woods make headlines for months. Woods sought public apology for something that was an internal affair between him and his wife and family. Should the public have been interested in the whole saga as much as it was?

Axel calls it all a game of power, money and dirty politics and says, "It is just sad to know that we spend our lives and social resource in events that should not turn our eyes." He further expresses that the money could be better spent on addressing other issues.

Axel ends the article by calling to the younger generation to stand against it and help preserve a sense of privacy, respect and self esteem within the society. Unfortunately it hasn't happened in the past 15 years. Let's hope things are better when IW hits its 45th anniversary.

Spring 2000 Issue 2 – June 2, 2000

There was a PCP written on "Private Universities: A Threat to Our Education?" with the point written by Krista Glemser, 1B Enviro and Tania Bortolon, 2B Civil.

Krista defines privatization as "the retreat of public funding – as well as public ownership, control and regulation – from post-secondary education system, to be replaced by private dollars, private ownership, private control, and no regulation of things like tuition fees."

In her view, privatizing will convert universities to businesses. She puts the blame on the Government which instead of rejuvenating the public university system wants to privatize it. In her opinion universities are becoming like corporations to stay competitive, attract the best students and deliver a top quality education.

"Canadian Federation of Students is opposed to this plan, for it will only lead to higher tuition fees, greater student debt loads and less public control of higher

education...many students fear that free speech, learning and creativity will be hindered through privatization of Canadian universities."

Moreover, according to Krista's article, CAUT – Canadian Association of University Teachers was also against this notion.

"Moving focus to specific programs, professional programs such as engineering and business programs will be the most affected while privatization will discourage Arts programs. It seems as if the value of degrees is being measured in narrow, market terms and the true value of a diverse and well-educated society is being neglected."

Tania on the other hand presents a different point of view. She starts by saying, "there is no large threat to our current education... it will be difficult for universities to suddenly make all the necessary changes that privatization requires, while still expecting to get the same caliber of students" According to her a drastic increase in tuition

is not affordable by all high caliber students, who consequently will decide not to go to university which is not something universities or industries want to see.

She further said that regulatory industries will not be allowed to have the significant input into a program's curriculum that they would like due to the role of CEAB in regulating engineering curriculum.

Bringing in UW's reputation she says "This reputation is what drives the University of Waterloo, and the administration will not readily sacrifice it."

Spring 2005 Issue 2 – June 9, 2005

Francis Hope of 4A Electrical wrote an article "Improvements to electrical 4th year design project" criticizing the ECE department for not preparing the students well for their design project.

He strongly criticizes the 3B introductory course saying, "Not enough of examples of previous design projects are given, nor are

examples of factors that should be considered when coming up with a design project – factors such as the availability of parts for your project, the lead time in part delivery, the technical capacity of the team to complete the project, good consultants, the skill set possessed by team members etc...The course ends up being the lecturer repeating the same things: What is your scope, who is your consultant and what are your goals. However, they fail to give examples of previous projects, the scope definition process, the approach to their project resolution. The course should give methodology of a design project and major things to consider along the way."

The writer presented an example of the mechanical engineering where the students had to do a thermodynamics project

Being a chemical engineering student going into fourth year and no previous experience with design projects I think I can take some advantage from Francis'

advice that he presents to the future students. "First, talk to people in your class about their interests and the possibility that they would want to work on a similar design project.

This will make sure that you all have similar interests and that you end up doing something that you enjoy. Secondly, start trying to form a design group early, perhaps in 3A or 3B. This will ensure that you are not trying to form a design group at the last minute. Thirdly, start doing research on your design project beforehand. Fourthly, do some of designs for your project the term before, this will make the 4A term a lot lighter on you. Fifthly when you come up with a design project make sure that the scope is not too large. You are not trying to design something that will change the world, just something that illustrates the concepts of design. And finally when you do make a design team, make sure that you work well together and that you communicate well. It is great if you are all friendly but if you cannot organize you are not in a good position for the design project."

The University of Waterloo's official student newspaper

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Up to 5 hours/week at \$11/hour. Qualifications; working knowledge of LAMP servers; experience with Django web framework; proficient with CSS, HTML, experience with JavaScript, JQuery an asset; experience with PHP & MySQL is an asset; proficient with Adobe Photoshop CS4; knowledge of current web trends, common practices, Web 2.0 SEO optimization. Job description tasks; web exclusive content for sections, web server maintenance; curating comment/forum pages; updating links to other websites; blogging projects; promoting Imprint website to students. Please send resume to editor@imprint.uwaterloo.ca.

ENGINEERING SOCIETY EXECUTIVE REPORTS

Engineering Pride Vs. Engineering Arrogance

Report from the President



SCOTT RANKIN
PRESIDENT

I would like to first say that all contents of this article are of my own opinion and do not necessarily reflect the opinion of the Engineering Society.

I would also like you to note that I am in no way telling any student how to act, since if I was, the entire contents of this article would be quite hypocritical itself.

There is a line, no matter how grey or how fine it is, there is a line between pride and arrogance. Humility is the opposite of arrogance, and it is possible for a person to be humbly prideful of oneself. Pride is a very powerful emotion, something that can drive a person to greatness and inspire others around them. Arrogance however does nothing of the sort of inspiring others, but in all reality only provides the opposite effect.

Pride is a fantastic feeling, it is the feeling one gets when they successfully accomplish a very difficult task. When one then decides that this accomplishment, be it a great event or skill someone possesses, deems them to be better than others, then their pride becomes arrogance.

Engineering pride is awesome, and I feel like our pride is something that

makes us special, we should all be proud to be in engineering at Waterloo, we are all in difficult programs and work very hard to achieve the things we have achieved. However, this does not mean we are better than any other faculty at Waterloo or any other students across Canada. Everyone has something they are proud of, and they all have their own faults, just like us. I think it's time we embraced each other's strengths, I personally am looking forward to bettering our relations with the other faculties, because they are just as awesome in their own ways.

Also here is some actual information you may like to know:

An accountability motion was passed where all Engineering Undergraduate students will have the opportunity to critique their Engineering Executive, much like a course critique. However we need a CFO to develop this survey and implement it, if you would like to be the CFO come to the Engsoc meeting #3 and nominate yourself

(Meeting # 3: June 9th RCH 302 @ 5:30PM)

Remember to email me questions that you would like me to directly ask the Dean by **June 9th**.

s2rankin@gmail.com

Thanks,
Scott

VP External Report



KEVIN LING
VP EXTERNAL

Hey everyone,

The past two weeks have been fairly quiet. I have been mostly working on sorting things out and making sure that everything is good to go for the term, but there are a few pieces of new business..

The date has been picked for the Waterloo Engineering Competition. Junior Team Design, Senior Team Design, and Consulting engineering competitions events will take place on Friday July 9th and the morning of Saturday July 10th. Registration should be open in the next few weeks, so watch the Engsoc mailing list for more details.

If you are planning on staying in Waterloo for Canada Day, consider volunteering to help out with the events that EngSoc will be running as part of the Columbia Field festivities. The Canada Day directors will be recruiting volunteers as the event gets closer.

Lastly, I would like to thank everyone who sent in an application for ESSCO's Annual General Meeting. If you weren't selected for this conference, or missed the deadline to apply, don't worry. There will be more conferences coming up this year so just keep an ear open. When I get some free time I'll work on getting the conference descriptions up on the web so you can check it out and see if you'd be interested in any of them.

of employers CECS should be targeting

5) Keep it classy

Just a reminder that info on the transition from PD Eng is available at:

<http://www.engineering.uwaterloo.ca/pdengrenewal/home.php>

Also, the new Jobmine system is being piloted with the Archies this summer-more details closer to release, but highlights include:

- Keyword search on employer's job description, requirements, title, etc.

- Personal "space" to upload PDFs, videos, whatever

VP Finance Report



MINA LABIB
VP FINANCE

Hello All,

Your friendly neighbourhood VP Finance here, and I have a treat for you: The Spring 2010 BUDGET!! YAAAY.

In other news: Novelties has had a make-over! I would like to invite

everyone to come on in and check out phase one of the changes that Jon and I have been wanting to make for a while now. Please drop by the orifice, or email me and tell me what you think.

Also, please make it known that Toonie Tuesdays in novelties are here to stay. Every Tuesday, the bargain bin, multi-tools and tool-bearer bobble heads are \$2

Au Revoir mes amis
Mina

VP Internal Report



PETER KELLY
VP INTERNAL

Well, we're now into the thick of school and the days are looking more and more like summer. I for one hate our weather. Cold and rainy one day, super hot and humid the next. It really makes it tough to want to go outside. Speaking of which, I went to Canadian Tire yesterday and bought some patio furniture, so my deck is all 'decked' out. Well... it will be once I assemble it all. But I digress from topic. Here are some things I

suggest you do this summer.

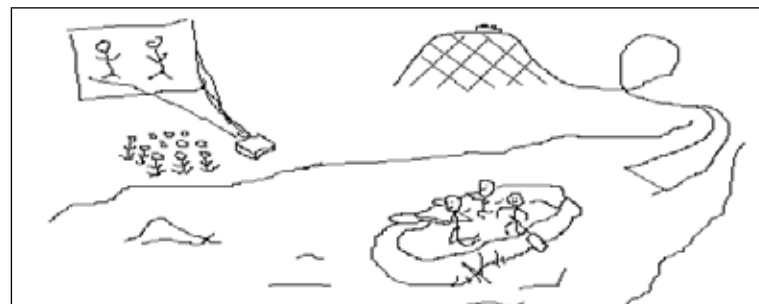
1. Go to Wonderland. – Tickets (\$40 – includes park admission and bus) available in the Orifice for June 5th.

2. Watch a movie. – Outdoor movie night with AHS on June 8th at 9pm on BMH Green

3. Go White Water Rafting - Tickets (\$210) available in the Orifice, package includes, bus to/from Ottawa River, 2 days rafting, 5 prepared meals, $\frac{5}{6} \times \infty$ fun. (June 18-20)

4. Go to an EngSoc Meeting – Next meeting June 9th

Here is something that I drew in MSPaint



Its people watching a movie outside on the shore of a roller-coaster that turns into a white water rafting trip!

WEEF Director Report



GRAHAM STONEBRIDGE
WEEF DIRECTOR

Thanks to everyone who came out to WEEF's 20th-year celebrations! I was personally quite impressed with UW Catering's culinary artistry and the karaoke skills of certain unmentionable individuals. With your donations over the last two decades, WEEF's principal is now over \$9,000,000!

The donation refund period wrapped up on the 21st of May. Finance is now processing all the applications to make sure that students who have requested their return do indeed get it. Look in the next Iron Warrior issue for statistics about how many refunds were requested.

WEEF's governing board of directors met on May 27th to decide the total amount we can allocate to student and faculty spending during the next financial year. We also discussed the progress of our \$1,000,000 contribution to E5. Typically this sort of information would be discussed at one of our end-of-term meetings, however a generally poor economy raised some concerns and we wanted to be prudent about our funding de-

isions for the next fiscal year. The ultimate decision from our meeting is that \$60,000 is our spending limit for Spring 2010 allocations.

This brings us to proposals! If you would like to seek funding this term, look for forms at www.weef.uwaterloo.ca/proposals.html - the process is fairly straightforward.

Visit the list of class reps at www.weef.uwaterloo.ca/council.html to see if your class has a rep. If your class does not have a rep, your class collectively gets zero input into where the \$60,000 gets allocated this term. Don't forget, WEEF is designed to be for students by students – it is 100% up to the council of students (reps from each class) to decide where we put the money.

Key Dates for this term are:

June 19: Proposals are Due

June 21/22: Proposal Presentations

June 23: Funding Council Decisions made

I realize these dates may be relatively early and close together, so please make sure you take the time to prepare your proposal as soon as possible. Questions, concerns, and comments are always welcome – email me at weef@engmail.uwaterloo.ca

VP Education Report



ALEX HOGEVEEN RUTTER
VP EDUCATION

Dutch commands you to:

1) Keep Doing PDEng/Work Term Reports

2) Submit exams to exam bank for P*5 points

3) Let me know if you have good profs who might want to take a part in crafting the WatPD Curriculum

4) Let me know any ideas about what sort

ENGINEERING SOCIETY EXECUTIVE REPORTS

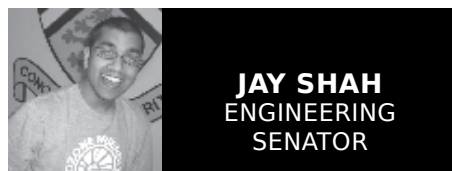
EngSoc B Spring 2010 Budget

Category Description	Requested	Approved
Income		
Fees		\$36,150.00
Orifice Sales (Photocopying, Binding, Faxes)		\$3,000.00
Less Refunds		(\$342.00)
Total Income		\$38,808.00
Expenses		
The TOOL		\$1,000.00
President		\$1,000.00
VP-Finance		\$500.00
VP-External		\$500.00
VP-Education		\$500.00
VP-Internal		\$500.00
Total Exec Expenses		\$4,000.00
Fixed Costs		
Bank Charges		\$20.00
Telephone		\$850.00
Postage		\$450.00
Payroll		\$11,530.00
Cable		\$50.00
Operating Costs		\$2,000.00
Supplies		\$2,100.00
Total Fixed Costs		\$17,000.00
Director Budgets	Requested	Proposal
Alumni Officer	\$430.00	\$430.00
Arts	\$203.50	\$203.50
Athletics	\$324.00	\$324.00
Athletics (Hockey)	\$200.00	\$200.00
Canada Day	\$594.00	\$594.00
Charities	\$665.68	\$665.68
Charities (WCBB)	\$100.00	\$100.00
Competitions	\$1,500.00	\$1,400.00
E-Council Rep	\$297.00	\$297.00
Enginuity	\$13.00	\$13.00
EngPlay	\$814.18	\$814.18
Environmental	\$200.00	\$200.00
Exchange	\$167.00	\$167.00
Frosh Mentoring	\$183.00	\$183.00
Genius Bowl	\$440.00	\$440.00
Interfaculty Rep	\$300.00	\$300.00
Jazz Band	\$1,011.11	\$1,011.11
Music	\$530.00	\$500.00
Music (Choir)	\$250.00	\$110.00
P**5	\$950.00	\$950.00
POETS Managers	\$700.00	\$500.00
Resume Critiques	\$209.50	\$209.50
Scavenger Hunt	\$525.00	\$525.00
Semi-Formal	\$18.00	\$18.00
Speaker	\$2,775.00	\$2,775.00
Special Events	\$1,687.80	\$877.80
Student Life 101	\$140.00	\$140.00
TalEng	\$750.00	\$750.00
WEEF	\$215.62	\$215.62
Women in Engineering Rep	\$250.00	\$250.00
Year Spirit (2011)	\$300.00	\$300.00
Year Spirit (2012)	\$124.00	\$124.00
Year Spirit (2013)	\$350.00	\$300.00
Year Spirit (2014)	\$250.00	\$250.00
Total Directors Expenses	\$17,467.39	\$16,137.39
Donations	\$2,500.00	\$4,000.00
Total Expenses	40,967.39	41,137.39
Net Income	-2,159.39	-2,329.39

Next EngSoc Meeting

June 9, 5:30 P.M.
RCH 305

Senator Report



JAY SHAH
ENGINEERING
SENATOR

The first Senate meeting of the new fiscal year occurred on May 17th – it was a fairly light meeting, so there isn't a whole lot to report back.

The Centre for Teaching Excellence (CTE) gave an in-depth presentation. They are a unit on campus that has a mandate of 'improving teaching and making learning more effective'. The presentation summarized their accomplishments (they were impressive, but as students, it is fair to say that we would love to see our teaching continually improving) to date and provided a map for their future plans. When asked if faculty and TAs have enough incentive to use CTE's services and become better teachers, they essentially side stepped the question. However, one should note that CTE is there to provide the service; in my opinion it should be up to the faculties to provide some incentive for their members to actually engage CTE and use the resources available. **Perhaps EngSoc should play a role in advocating to the faculty to partake in CTE's offerings?** (visit <http://cte.uwaterloo.ca/> if you're interested in more info)

For those interested in Philosophy, you now have an option, literally: A variety of parties within the University have recognized the desire for students in programs like math, science and engineering to take Philosophy. They have found that many students get close to a minor but cannot attain all the credits needed due to strict program requirements. So, they've heard your concerns and created a Philosophy option! (Hurray!).

7 PHIL courses, 65% cumulative average in those 7 courses and BAM, you get your option. This option will be effective as of Sept. 1st, 2011.

Undergrad Admissions Update: Statistically, UW Admissions has determined it needed to make between 21.1 and 21.3 thousand offers to meet its admission targets. For the Sept. 2010 admissions round, they have made 22500 offers, to meet their goal of 6085 acceptances. (This 6085 is expected, because of past trends to erode to 5487 new students by the time Sept. Rolls around)

Comparing 2009 vs. 2010: 3208 offers vs. 3576 offers, 340 vs. 488 international visa offers, 2798 vs. 2969 scholarship offers.

At this time last year, 15 offers had been made to the UAE campus' engineering program, this year we are at 23, 14 of which have also been offered scholarships. (these low numbers are typical at the moment as applications come in much later in the UAE region than they do in Canada)

Capital Projects (Buildings) Update: (Building, Target Completion, Budget, Gross Square Feet)

Quantum-Nano, 2011 Completion, 160 Million, 284,000

E5, Spring 2010, 55 million, 176,000

E6, Spring 2011, 41.4 million, 111,000

I welcome you to contact me about anything listed above or anything you think I should be pursuing on behalf of all engineering undergrads. I'd love to hear from you. (senate@engmail)

Let's be proactive!

The Spring 2010

Waterloo Engineering Competition

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JULY 9 - 10

Junior Team Design
Senior Team Design
Consulting Engineering

Registration TBA

Proudly organized and sponsored by

Why participate?

- Lots of prize money
- Represent UW at OEC 2010
- Award on official transcript
- Hands-on/technical experience
- Free food and lots of free stuff
- Free to participate

Security Costs of G8 and G20 Better Spent Elsewhere

TORONTO SUMMIT from Page 1

of last year, where the dedication of the G20 was extended to beyond the assumed eventual end of the current economic crisis. The G20 will meet again in Toronto and Korea this year, with the summit in Toronto Scheduled for the 26th and 27th of June, and a later meeting in Korea planned for late November. The agenda for June's meeting includes planes to follow through on the group's previous commitments from previous summits as well as plans to take action to build a future of sustainable and balanced global economic growth.

Now the first question that popped into my head while reading up on this group is, how in the world can a group of 20 people single-handedly turn around the entire global economy, without the help of Steve Jobs? Essentially leaders that meet at these semi-annual summits then return and lead various 'working groups' which are then focused on various economic ventures that cover everything from financial safety nets to climate change financing. Cooperating groups include organizations such as the World Bank, the IMF and the Organization for Economic Cooperation and Development, which allow for the G20 to attempt to essentially 'regulate' global economic activity. Although its intentions appear somewhat positive, it still too soon to truly understand or anticipate the end result of their work.

The second of the two giants descending upon the GTA is the G8, or Group of Eight, a forum for the leaders of eight of the world's most industrialized nations to find common ground and cooperation on current global issues. The G8 includes Canada, France, Germany, Italy, Japan, Russia, the United Kingdom and the United States, and in addition to regular communication throughout the year, leaders from these nations hold an annual summit to discuss their current issues as well as

potential action plans.

The G8's origins date back to the 1970's during the oil crisis that plagued the world's largest economies, with a meeting between leaders of Germany, France, Italy, Japan, the United Kingdom and the United States occurring in 1975 where they made plans as to how to deal with the oil crisis.

Canada later joined the group in 1976 at the Puerto Rico Summit hosted by the US, and Russia became a full-fledged member at the Summit in 1998. The European Union was given observer status at the summit in 1977 so as to allow the European community as a whole to be 'in the loop' with the G8's decisions.

Canada will be hosting its 5th summit from June 25th-26th in Huntsville, Ontario. For those of you not familiar with Ontarian geography, this is essentially cottage country. The specific patio or dock where this Summit will be hosted still remains confidential.

G8 summits are chronically plagued with world class protesting by various activist groups who feel that their voice and opinion is not being heard by these world leaders; including Greenpeace, Make Poverty History and Golfing Anarchists. Similar negative attention is being directed towards the G20 meetings as more and more people are becoming uncomfortable with a room of secondary leaders and bank execs deciding what to do with trillions of dollars of the world population's money.

This historic attention to both summits is the reasoning behind the astronomical security bill previously mentioned. Organizers for both Summits are going above and beyond your typical SWAT team riot control and pedestrian barriers, security measures for the three days include bringing in manpower from the OPP, RCMP, Canadian Forces as well as the Toronto and Peel Region Police, countless road

closures, aviation lockdowns, and even food testing for every meal served to the delegates and their accompanying posses.

The federal government is covering these costs, regardless of how high they may actually climb the day of, which isn't sitting well with taxpayers, or politicians for that matter.

Instead of blindly criticizing Harper for agreeing to pay for this outrageous security bill, most citizens and cabinet ministers are offering suggestions of where this apparently disposable \$1 billion could be better spent.

These suggestions include:

- Three years' worth of vastly improved health facilities for women and children in developing countries
- 11,000 new construction jobs
- Lift all seniors out of poverty by increasing the guaranteed income supplement
- \$1,000 tuition cuts for every student in Canada

All of these suggestions are both possible and highly ironic, considering the typical theme for these G8 meetings is national and global improvement. NDP MP Olivia Chow explains that for that amount of money, "Canada could pay one-third of the costs of the millennium development goal and save the lives of over 10 million women and children by 2015." Apparently making sure that no one pukes from the fish is a much higher priority.

What a major component of these costs stems from is the poor decision making in organizing this summit. Both events are essentially being held in the Greater Toronto Area (if Huntsville isn't considered part of the GTA now, it's only a matter of time until it is) which is not only the most populated region in Canada, but it is also the most opinionated.

The extreme diversity that Toronto allows for activist groups for every thought and opinion to form and thrive, which is precisely what they are trying to protect

these world leaders from. The barren tundra of say, Iqaluit may not be as appealing, but I can almost guarantee that at least half of these protestors won't be willing to show up to state their case, especially since most of them don't believe in wearing fur.

What the most baffling thing is why these group insist on having these physical gatherings so frequently. Have they never heard of Skype? With the nations repressing at these Summits boasting about their industrial and technological advances over the past few decades, these leaders still insist on hopping on their 747-sized personal jets and flying to the designated meeting location, or at least to their stretch SUV limousine that will drive them there.

I wonder if climate change comes up in any of these meetings? Environmental impacts aside, the point is that the main danger arises from putting all of these world leaders in the same room, which doesn't necessarily have to happen in the first place. There is more than enough technological capability for these types of meetings to happen while each respective leader remains in their home country, which cuts security requirements exponentially. Now any ECE kid will probably pipe up that online security for such communications would most likely be shaky at best, and information from these meetings will probably leak faster than the newest BlackBerry model, but considering these delegates are making titanic decisions on behalf of their entire country, isn't a little bit of transparency a good thing?

The disappointing part of this is that the public outcry against the government's spending is coming a little too late; with less than a month before both Summits, there's little hope for any budget trimming to occur. All that's left to do now is dream of cheaper tuition as you sit in stationary mid-day traffic while a European finance minister is escorted by half of the entire RCMP to their sanitized afternoon snack.

The federal government is covering these costs, regardless of how high they may actually climb the day of...

WEEF Celebrates 20 Years of Enriching Education



WEEF celebrated it's 20th anniversary on May 20th in the CPH foyer under giant banners itemizing every WEEF purchase ever.

Sylvia Wu

Building Something Better

Natural building materials present viable options.

SAM VAN BERKEL
2010 CIVIL

When someone finishes University it's usually fairly safe to assume they're doing one of four things: working, going back to school, traveling or loafing around. As someone who's not currently engaged in any of these perfectly respectable post-graduation activities, I've found it difficult to articulate to others what exactly it is I am doing.

In an attempt to dispel some of the confusion, and because I want to share a burgeoning passion of mine, I've decided to write this short article. Let me begin by explaining that for the past month I have been taking part in a Natural Building Apprenticeship program based out of Durham and Flesherton, Ontario. The program runs for three months from April to June and is a combination of learning about natural building techniques and actually working on natural building projects.

What the heck is "natural building" anyway?

Buildings account for up to one third of Canada's total greenhouse gas emissions. The primary goal of natural building is to reduce this portion of Canada's carbon footprint through energy efficiency and environmentally sustainable practices. Where natural building differs significantly from green building is an emphasis on using local materials with minimal ecological footprints and avoiding highly processed conventional building products. This not only lessens strain on the environment from mining, processing, transportation, storage and marketing, but reduces the quantity of toxic chemicals (mercury, formaldehyde, benzene and VOC's) contained in the building and

eventually emitted into the indoor environment.

While conventional green buildings may require less energy for everyday lighting, ventilation, heating and cooling than standard buildings, they may also be designed using building materials which are very energy intensive to produce in the first place. A recent study by L.D. Danny Harvey at the University of Toronto's Geography Department quantifies the life-cycle environmental impact of insulation products including the energy required to produce them, the leakage of greenhouse gases from the insulations and the heating and cooling energy saved by adding the insulation to the walls of a building.

The study concluded that when many of these products (including most spray foams and Styrofoams) are added to an existing building to improve its energy performance, it can take over 50 years before enough energy is saved to offset the greenhouse gases emitted during the production and use of the products is rarely this

long, they can effectively have a net negative impact on greenhouse gas emissions, not to mention the environment in general. Ironically the government of Canada has previously offered subsidies for homeowners to add these products to their home in the name of reducing greenhouse gas emissions!

A similar story exists for other common highly processed building materials including concrete, vinyl, steel and asphalt. Natural building attempts to minimize the use of these products by substituting historical building methods which rely on stone, wood, clay and straw. Wherever possible, these building materials are

sourced directly from the site, further reducing and containing their impact.

Are natural buildings efficient?

It depends how you define efficiency. If efficiency means being able to create thousands of nearly identical homes as quickly and cheaply as possible, then no. Natural building can be very efficient in other ways however. For example, natural building emphasizes the creative use of the local materials to design solutions that avoid unnecessary waste. This concept is illustrated in this timber frame structure which uses a combination of two smaller locally sourced beams to avoid having to use large timbers taken from old growth forests and transported across the country.

Another creative use of local materials is the Rocket Mass Heater which is a high efficiency wood stove created from scrap metal, brick and clay.

Natural buildings are further customized by considering the specific site conditions and climate, including passive solar orientation which optimizes the benefits of solar exposure and by utilizing natural ventilation. Most natural buildings utilize a vapour permeable (often referred to as "breathable") wall system which acts as an air barrier while still allowing water vapour to pass through. Because vapour produced by occupants and their activities (sweating, showering, cooking) can be released through the wall system, the need for mechanical ventilation is reduced. Typically this vapour permeable wall system is some combination of straw and/or clay coated in an earth or lime plaster.

Another key characteristic of natural building is an emphasis on labour intensive techniques and community involve-

ment. By involving homeowners in the building process, people become better informed about their home. The result is buildings which are designed and built with more thought and care, and which are well maintained over time. The goal is to create something which will last for hundreds of years not only because it is well built, but because it is something that each subsequent generation will want to use and maintain themselves.

How can you get involved in natural building?

Details about the Natural Building Apprenticeship are available at NaturalBuild.ca.

If you or someone you know is having a home, cottage, studio or other building constructed, suggest natural building as an alternative. As an interesting example, the Grand House Student Co-op at the University of Waterloo's School of Architecture in Cambridge was recently insulated with straw bales.

There is also a huge need for research in the area of natural building. Although many natural building techniques have been practices for thousands of years and collective knowledge has been passed down over time, little modern day testing has been conducted. Collecting rigorous and non-subjective scientific data about natural building concepts is not only important for understanding and applying them more effectively, but also for gaining more widespread acceptance of natural building amongst regulatory bodies.

Editors Note: For more pictures, check out the article online at <http://iwarrior.uwaterloo.ca/?p=2304>



A finished first coat of earthen plaster.



Two locally sourced timbers are used to replace a larger timber not available near the site.

Rogers Made Me Do It!



I hate cell phone companies, but my phone falls into a category of my personal belongings comparable to vital organs. It's a struggle a lot of us deal with; we pay obscene monthly rates to keep our phones running, and get hung out to dry if we go over our monthly allowance by one second or text letter. When it comes to cell phone providers, I've been around the block, and the kicker is – each one is just as bad as the next. I have an ongoing tolerate-hate relationship with my cell phone provider, and I'm probably not alone. But a woman from Toronto (not myself, surprisingly) has managed to take this hatred to a whole new level.

Gabriella Nagy is currently suing Rogers for a butt-kicking \$600,000 for breach of contract and invasion of privacy. What in the world could Rogers have done? Sold her personal information to third party advertising companies? No silly, that's Facebook's shtick. Charged her for a plan she didn't have? No, that was someone else. What Rogers did was combine Nagy's phone and internet services with her hus-

band's newly purchased cell phone onto one bill. Oh the humanity! Not that big of a deal, until her husband discovered multiple calls made to an unknown number... well unknown to him. After a bit of 'detective work' on his part, he managed match the number to a man with whom his wife was having an affair. He walked out on his wife and two kids soon after. Overcome by this disparaging situation that she apparently did not see coming, Nagy was 'overly emotional' at her workplace, which included crying on multiple occasions and snapping at coworkers. Needless to say, she was fired a few weeks later, leaving her royally up the creek.

Now any Hallmark card will tell you that this is probably the point where you should pull up your socks and get your act together, but what does Nagy do? Blame Rogers for the whole thing by smacking them in the face with a lawsuit! Rogers disagrees with the accusation; a spokesman explains, "We cannot be responsible for the personal decisions made by our customers." The most intelligent response to this I can think of is, "Well freaking DUH." Calling this a legitimate accusation is like being able to

hold your cell phone provider responsible for your Friday night drunk dials. What I find slightly ridiculous, or rather, the more outrageous of the two, is the 'invasion of privacy' accusation.

This phenomenon has been several years in the making, but now more than ever it seems people as a whole are blurring the definition of 'privacy'. Any anthropology major can tell you that modern technology minimizes the need for human-to-human interaction and allows for people to essentially isolate themselves, but it seems now that we're currently contradicting ourselves completely. Twitter, Facebook, personal blogs, and a host of other forums allow

people to literally broadcast every minute of their lives to whoever is willing to watch and listen. What people are apparently forgetting, however is that the internet is everywhere. This isn't 1995 anymore, boys and girls; even grandma is online now! Is it a little outrageous and inconsiderate that because of Facebook selling information that third party, advertising firms now know your birthday, address and favorite type of cheese? I'd say so, but weren't you the one who posted it online in the first place?

Any anthropology major can tell you that modern technology minimizes the need for human-to-human interaction and allows for people to essentially isolate themselves...

interaction and allows for people to essentially isolate themselves, but it seems now that we're currently contradicting ourselves completely. Twitter, Facebook, personal blogs, and a host of other forums allow

POINT VS. COUNTERPOINT

POINT

Should Toronto Ban Junk Food in City-Run Facilities?

COUNTERPOINT

HOBYUNG LEE
2B MANAGEMENT

The city known for its friendliness, multiculturalism and horrendous sports team now also wants to be known for something else: health consciousness.

The City of Toronto is in the process of implementing a proposal that would ban all sugary drinks from being sold at all city facilities. This includes pop, sports beverages, fruit drink and cocktails. According to this new proposal, all vending machines that are located at city run facilities (arenas, libraries, community centers, parks) will have to be replaced with milk, soy beverages and 100% fruit and vegetable juice. This would slowly take place over the course of the next 4 years. Currently, the city mandates that 50% of their vending machines be filled with health conscious drinks, which would be then bumped up to 75% by 2012 then to 100% by November of 2014.

And I say 'Coolbeans dude'.

But first, let us be clear on what this proposal would be doing. This ban would NOT be city wide. You will not be penalized in anyway if you are spotted with a can of fizzy drink on city property. And this ban will not be the start of a downward spiral into dystopian rule of a totalitarian dictatorship where free will and speech will become nonexistent. No. Just city run facilities.

For a city that is so strapped for cash, yes, these vending machines are a good source of income, generating \$330,000 last year, \$70,000 of which was from commission. The way that it is set up now is that the current contract in place (a deal with Pepsi signed in 2005) is set to expire at the end of October. A new contract is currently up for grabs that will be signed by the city within the next couple of weeks. Imposing these new rules is not going to take away this influx of cash that the city so desperately needs. Pepsi, Coca-Cola or any other beverage company for that matter is not going to shy away from an opportunity to have their products all over the city. There is still going to be cash coming in. It will just be through juice, not pop.

The big reason why banning junk food is a good idea is that it is a step in the right direction in our struggle with obesity. No, simply banning pop from city facilities will not miraculously make everyone healthier. I think the best way to

help impose a healthy lifestyle is through education and teaching adults, teens, and especially kids the importance of a maintaining an active lifestyle and, more importantly, the effects that junk food and pop have on one's system. Reinforcing the benefits of a physical lifestyle has been, I think, well in place. But there needs to be a bit more emphasis on junk food, pop in particular.

A bottle of pop that has the equivalent of 17 teaspoons of sugar, is linked with obesity, diabetes, tooth decay, mood swings, sugar crashes, hundreds of empty calories and has as much nutritional value as a bag of rocks. Education will take time, but this ban, however minute, can help facilitate that education in the meantime. I know,

No, simply banning pop from city facilities will not miraculously make everyone healthier.

the topic of health care is a whole other can of worms, but currently, Ontario spends 43 cents per program dollar on health care. The cost of health care

spending has exceeded inflation by almost a full percent since 1982. The aging baby boomers are going to add to this cost. Having the following generation that is very unhealthy will again only add to this cost. This is Toronto's way of helping to stop that. Is it the best way? No, but it's something.

Now, the option of choice is still existent. Want a pop? Fine, you'll just have to go to a corner store, a grocery store, a mall, or anywhere else in the city that isn't a park or an arena or community center or city hall. There is absolutely an endless amount of choice. When was the last time you went into a city run facility to buy from a vending machine anyway?

And speaking of choice isn't that what we've had so far? The argument that people will make the healthy conscious decision when given a choice has proved that people will just go straight for the sweet stuff. Even though city vending machines are only half of the sugary stuff, pop and sports beverages account for 71% of all sales, with juice at 6%.

Imposing this will not automatically lead to some sort of draconian rule where everything that is bad for you will be banished. British Columbia has had a junk food ban in all schools since 2008 and the last time I checked they seemed to still be a functional, democratic province. The city just does not want to endorse something that has been considered by many to be one of the main ingredients in the obesity epidemic on their property.

To be clear, I do not think Toronto im-

CAILIN HILLIER
3A GEOLOGICAL

Governments should not have to ban junk food. The City of Toronto's proposition to ban the sale of pop on city property by 2014 is seriously flawed. Not only is 2014 a ridiculously long time to implement such a ban, but it's pointless in and of itself for the reasons included below. Also, why ban just pop? What about the plethora of snacks like chips, candy and chocolate or even the highly sugary fruit juices that will be replacing them in vending machines? What about the other 90% of the population that do not work on city property - what will this do for them? This one infinitesimal step towards solving a massive issue is

extremely insignificant. At this rate, with obesity morphing into the catastrophic monster-issue the way it currently is, nothing will be ever solved this way. If anything can be concluded from this vapid plan, it's that the City of Toronto is looking for positive publicity demonstrating their ability to act... actions that are both erroneous and will only make changes if looked at on a geological time scale.

The amount of time and money devoted to this ban could be much better served elsewhere like to food bank donations, or to after-school programs to encourage physical activity among young people, or even to my new spring wardrobe. The point is, municipal governments cannot afford to waste precious resources policing people from hurting themselves with food and drink intake. Looking at this on an elementary level, is a little self control too much to ask? Can't people recognize that drinking cans upon cans of sugary pop or bags of chips, chocolate bar after chocolate bar, is bad for them? Reality check

posing a city wide ban on pop would be the right thing. If you want a cold can of Sprite, go for it. It tastes great and not everything you do has to be for the healthy betterment of your life. You sometimes eat/drink/do things because it makes you

necessary. And even if the argument is made that people are not educated enough to make healthy food choices on their own, like the much raved about Jamie Oliver Food dilemma, imposing a limited ban on the toxic substances in question will clearly not resolve this issue.

Don't get me wrong, I realize that this minor change might reduce stress on the health care system by at least \$5 annually, but this is just another symptom. We need to all take a harsh look at the direct cause of the obesity issue plaguing society. Government efforts should be redirected to the root cause of the problem in order to make a dent on the pandemic.

Nutrition education needs to be increased because people need to be making healthy food choices on their own at home on a regular basis. This is step one; however, governments are coming in the way of this step, contradicting themselves

dramatically. In the United States, governments are subsidizing junk food and various forms of fast food, making it the only option for much of the lower economic bracket of the population. If you have seen either of the stellar documentaries Food Inc., or Super Size Me, you know what I am talking about. Secondly, physical education needs to be emphasized everywhere. It's simple: people are just not getting enough exercise. Calories in has to equal calories out. Back to the main issue - how will taking away a few people's daily Coke, Pepsi or Sprite fix change these fundamental flaws? Education is required for both the young and old regarding food choices, basic nutrition, exercise in balance with their busy lives. Even starting with basic public service advertisements regarding these principles would be a better directed first step towards solving the actual problem here.

Editor's Note:

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

That's so Homophobic

ALEX HOGEVEEN
RUTTER
3A ELECTRICAL

Last term I attended GLOW Ally training, designed to raise my awareness of on-campus resources for the queer and questioning as well as better enable me to discuss issues affecting the queer population in Waterloo. For those of you who don't know, "queer" is a politically correct, all-encompassing term for those of non-traditional sexual orientation. GLOW started out as one of the first organizations in Canada campaigning for gay rights. While there is still a place for activism, GLOW has transformed to be more of a

resource for individuals wishing to learn more about history and issues affecting the queer population, as well as offering services and social events to the queer and queer-friendly community.

As someone who cares passionately about minority rights, I am always up for a discussion about the rights of various groups and how we, as the Waterloo Engineering community, can help promote equity. As such, I was quite distressed to learn of several studies illustrating homophobia on campus, especially in the faculty of Engineering. Thinking back to my own experiences, I realized I've witnessed several homophobic incidents on campus, and not done enough to educate and rebuke the offenders.

In the words of our illustrious president,

this is "Un-fu***** acceptable." In the words of Edmund Burke, "The only thing necessary for evil to triumph is for good men to do nothing." While tolerating and encouraging homophobic (or racist, sexist, etc.) jokes, comments or more flagrant acts may seem harmless, tolerating intolerance can be very dangerous indeed. Cognitive psychologists will tell us that if we repeatedly hear or think something is true, we will eventually start to believe it. I am imploring my fellow engineers to take a stand against any such activity whenever they see it, to prevent such pernicious ideas from taking root.

Personally, one of my biggest pet peeves is the phrase "that's so gay," to describe a prof, exam, homework, policy, etc. that one dislikes. Really? Is it really "gay"? Or

do you merely lack the proper intelligence and/or diction to properly express yourself? Next time you hear someone use the phrase "that's so gay," or attempt to do so yourself, think about why it is your mind has become so lazy and/or stupid that you can't even think of an appropriate phrase to describe your thoughts.

My final point is that we should try and reverse the onus. To me, if we want to employ the negative connotation of a word to indicate our displeasure because we do not have adequate means of expressing ourselves, we should at least use a word that is actually negative. Next time you want to say "that's so stupid," "that's so unfair," "that's so poorly thought out" or the like, why not try "that's so homophobic."

Student Government Accountability



MICHAEL SELISKE
2N COMPUTER

Student groups are everywhere and require an executive type body to run them. Typically, the executives are elected by general members of the body in the hope that their leadership will provide the best usage of group resources. In larger groups with greater quantities of funding, the executives have much more responsibility, meaning that accountability plays a larger roll. Once an executive team is elected, they are often in office for at least a year and are expected to maintain appropriate accountability for the entire duration of the elected term.

Maintaining accountability for long periods of time can be an issue for many people. I find that accountability is one of the most difficult issues to discuss in a student run organization, whether the executive members are volunteers or paid positions. I find that students often hate conflict and tend to complain about problems without doing anything about it. In my wide range of experiences with student run organizations, I have observed the problem with not doing anything about issues that arise with the executives. Most of the time when an executive member of an organization stops putting the appropriate amount of effort into their position, the common response is to complain about it to everyone but that person and wait until their term is finished. Most of the time, the weaker executive member in question does not realize

their faults and those complaining do not know someone else could do a better job. There are a few things every student run organization should have: a venue for honest feedback of on executive performance.

It can be easy to complain about something but this sort of behavior rarely yields results. The key to expressing an opinion regarding a certain situation is to do so in a way that is effective and efficient. It is understandable that many people are uncomfortable in confronting problems, so there should exist a method in which elected executives can receive honest, constructive feedback regarding their current positions. Students need to be confident that their feedback will be heard and acted on. The biggest issue with this complaint cycle is that no consequence system exists to hold executive members accountable

for their actions. Although impeachment is a harsh consequence, sometimes it is the best option.

The number one thing that needs to happen in student run organizations is a feedback system for executives with some guarantee that improvements will be made. Executives should receive positive feedback when necessary; however, if they are not doing sufficient work, they will have to option to step down. Should things continue as they were, impeachment should be the alternative. Ultimately, student group executive doing poorly should know about it, strive to fix it or be self aware and step down from the position. This is the premise of a motion I put forth at the last EngSoc meeting. For more information, see the EngSoc Meeting Minutes.

Should we Push Women to Pursue Engineering?



AMRITA YASIN
3T CHEMICAL

I am a female. I am an engineering student. I am proud of it, and I encourage all elementary, middle and high school girls who want to become engineers to follow their dreams. As much as I would like to see females pursue engineering as a profession, I feel that the concern on part of governments and university administrations to increase female enrollment in engineering is superfluous.

We live in a society where men and women have equal opportunities to get an education and build their careers, unlike medieval times where women were specifically prohibited from going to school and working due to societal taboos. In an environment where both genders are being equally encouraged to pursue any given field of study, if there are less females in any field of study or workplace, why are we identifying this as a serious problem to which a solution should be sought?

Every year there are reports and articles written over how the female population is one-tenth of a percentage less or more than what it was the previous year. There are many organizations and groups, both governmentally and non-governmentally controlled, trying to come up with recommendations and projects geared towards increasing female enrollment in engineering programs. What surprises me is that I have never seen any initiative to learn WHY there are fewer females in engineering from the perspective of females. I fail to understand how anyone expects to find a way to increase female enrollment without attempting to understand the root cause(s).

When I look at this situation, the only thing that comes to my mind is that most females don't want to be engineers. Period. Just because someone can choose engineering doesn't mean he/she wants to or has to.

Sometimes I feel that the society has branded 'male' as the ideal human being and the females are being challenged to become the ideal human being, and this accounts for a push to increase female proportions in male dominated fields. Professions such as nursing are predominantly practiced by females. I have never seen a concern to raise the male proportion of nurses. It has become easier for males to freely practice nursing now as it was say 20 years ago, again due to fewer stereotypes, but they aren't on the hook to prove that they can do what females are doing.

Having said that, I still support groups like Women in Engineering (WIE) and appreciate their efforts. In universities, where currently females are in the minority, it is essential to have a body that represents their interests, ensures a healthy learning environment and tries to prevent stereotypes from developing. Similarly, female high school students should be encouraged to pursue engineering if they are genuinely interested but are intimidated by the fact that they will be outnumbered by male students in class, or that the smaller proportion of females in engineering implies that it is abnormal to have interest in engineering as profession.

In a nutshell, the focus should be to encourage females who are interested in engineering not to be held back by societal norms and pursue an engineering discipline of their choice, rather than forcibly persuading females to pursue engineering to boost up the numbers or using the male ideal to create artificial interest for the engineering profession.

Immigration Application Destination



LISA LIU
3A ENVIRONMENTAL

With the recent uproar of Arizona's new "carry your papers everywhere you go" law to counter illegal immigration, I began to wonder about Canada's immigration system. How does someone immigrate to Canada anyway? Besides the rite of passage of sticking your tongue onto a frozen pole and an undying love of hockey, what does it take to become a Canadian? I set on a mission to find out.

My first stop is, of course, the official Canadian Immigration website. I immediately noticed two things: one is that there is an abundance of information available on the subject from a very organized Canadian system, and two is the flash selection system the website employs which makes it impossible to access any of the aforementioned information.

After some wrestling with the selection system, I finally found some good information – who you need to be to qualify. There are essentially 4 categories, be rich, be skilled, be a family member, or be here for a while. If you're rich and want to pour all your money into the Canadian economy, of course we want you! Somebody needs to stimulate the economy besides beer sales. If you're a skilled professional, like we are all aiming towards, then Canada would love to have your skills and expertise. If you have family members here and you wish to join them, we're nice enough people to let you come over. Finally, if you're reading this article, chances are you're in Canada already. You can use your experience here to land yourself a pass to Canada branded health care.

All the above sounds so organized and civilized. The fence climbing and border control images conjured up from the US-Mexico border don't really fit here. What fits is hours and hours of paperwork and weeks of waiting for news. Which is worse? I honestly don't know.

So, by being rich, skilled, or well-connected, you managed to get yourself a visa and decided to come live in Canada. You liked nice people, the snowy weather, and the bilingual cereal boxes enough to want to become a citizen. What should you do now? Well, you're older than 18 and have lived in Canada for at least 3 years, now you just need to be able to speak English or French, have no criminal history, and know Canadian geography, political system, and history. Oh yeah, you also need to submit an application (we all knew this was coming) and if you're lucky enough, appear before a judge for a 15-30 minute interview.

By the way, by "know Canadian geography, political system, and history", they mean you have to take a test on it. Most of the information asked has been taught to us in high school at some point, but some of them can be tricky. For example, what are the rights of a Canadian citizen? How about which province is the only officially bilingual province? (Editor's Note: It's not Quebec) Can you name all the federal political parties in the House of Commons and their leaders? If you can, then congratulations; chances are you just passed the immigration test. Now all you're left to do is attend a ceremony, swear an oath to Her Majesty the Queen, and sing the national anthem.

You are now a Canadian citizen, enjoying all the perks of being Canadian such as public health care, nice people, more progressive laws, a holiday named after a deceased queen of another nation, and most importantly – not being American.

FEDS Engineering Student Councillors



TREVOR JENKINS
2B MANAGEMENT

Hello fine Engineering students, I'm Trevor Jenkins, and along with Jordan Lui and Praveen Arichandran, we're half of your FEDS Engineering Councillors for the 2010-2011 term. In total, engineering has six seats on FEDS' Students Council, with three having been filled this past term and three being filled this term. By the time this issue of The Iron Warrior comes out on Wednesday, nominations for the remaining

three seats will have closed as of yesterday and we'll have one of the following scenarios: 1. An upcoming by-election later in June, 2. Three acclaimed individuals, or 3. Some acclaimed individuals and some unfilled seats. We'll let you know what happens in our next article, or check out vote.feds.ca for up-to-date information.

Many of you are probably unaware that Students' Council existed until now, so what does it actually do? Council is composed of elected representatives from all faculties, disciplines and affiliated colleges based on the total population of each constituency. At the most basic level, the purpose of council is to uphold the goal

of the Federation of Students under its Charter and its by-laws, and to establish the policies of the corporation. It provides a forum for student input into Feds activities, including overseeing the performance of the Executive team in certain areas of their performance. Council meets once a month to consider matters that affects the Federation, to hear updates from exec, and for councillors to provide updates on issues affecting their constituency.

Since coming into the positions at the beginning of May, council has only met once. There's not too much to update as the Exec are transitioning in, and various council committees begin to start-up. As

issues arise and are dealt with, we'll provide updates at EngSoc meetings and in IW Reports in order to make sure you're as informed as possible. We'll pass on information on how to get involved with Feds in different capacities. For information we can't get into the IW due to timing, we'll send out relevant updates to the EngSoc mailing lists.

As mentioned before, council is composed of six councillors from our faculty. Engineers have a strong say in what goes on so if you have any problems, concerns, issues, or suggestions that you want addressed, let any of us know and we'll follow-up on it.

Celebrating African Enterprise

Engineers Without Borders

UMAIR MUHAMMAD
EWB CORRESPONDENT

William Kamkwamba is a secondary school student who at the age of fourteen, built a windmill in his rural home village in Malawi to provide electricity. The story of how he came to build the windmill, along with his life as a child growing up in Malawi, is documented in the book *The Boy Who Harnessed the Wind*, co-written by William and journalist Bryan Mealer.

Due to famine in Malawi in 2002 William's impoverished family was unable to afford his school fees and as a result, he was forced to drop out. To compensate, he began spending time at the library in his village and it was there that he stumbled upon physics and energy textbooks which changed his life forever.

The windmill was built using parts from a broken bicycle, PVC pipes cut and moulded into flat sheets after being heated over a fire, and other impromptu materials William had collected. It became a regional attraction, with visitors from neighbouring villages routinely stopping by to see the magetsi a mphepo – electric wind.

The story was picked up by some Malawian newspapers. From there it found its way onto the blogosphere, and came to the attention of an organizer of the Technology, Entertainment, and Design (TED) 2007 conference in Arusha, Tanzania. The organizer tracked William down and invited him to attend the conference.

Upon arrival he was asked by another enthralled organizer if he would like to speak at the conference. Having agreed, the nervous 19 year old William spoke in front of an audience which included aid and development workers, businesspeople and innovators from all over the world. His presentation, which was given a standing ovation by the audience, is available for viewing on www.ted.com.

Thanks to the financial support of wealthy proponents from the 2007 TED conference, today William is enrolled at a school called African Leadership Academy in Johannesburg, South Africa after having spent five years out of school. His most immediate goal is to enroll into a university in the US after completing his SATs. After finishing his education William plans to return to Malawi in a capacity to help better the lives of his compatriots.

"Celebrating African Enterprise" is the theme Engineers Without Borders will be working with this spring term. We intend to employ the word "enterprise" in a more wide-ranging sense than the narrow use it usually gets to refer to private business and social development ventures. While not ignoring that aspect of enterprise altogether, we also want to draw attention to individual courage, innovation and hard work; of which William Kamkwamba is the embodiment.

The reason EWB chose this theme is to focus, for a change, on the positive aspects of the usually jaded world of international

development. By highlighting stories like William's we hope to inspire students to envision and develop a sense of purpose that is beyond their own self-interests. We also hope to encourage discussion about the big-picture facets of international development relating to the lack of opportunity that restricts African enterprise.

In his book William recalled scenes that took place as the famine became progressively worse, take for example, the following:

"Soon people began selling the iron sheets off their homes for a cup of flour, and thatched roofs for even less.

'What good is a roof when I'm dead?' one man asked.

A man in the trading center was caught trying to sell his two young daughters. The buyer had informed the police. People were becoming desperate."

Such scenes are reminiscent of the Irish Great Hunger, and the El-Nino induced famines of the late 19th century in India, China, and elsewhere. Granted, the death toll from the famine in Malawi was in the thousands as opposed to the millions that died in the other famines mentioned, but it is pertinent to wonder how in a world of such abundance and achievement people could die from want of food.

The next step is to ask questions about things such as the arrangement of global food markets, the role of international financial institutions, patents and intellectual property rights concerning genetically

modified foods, as well as, of course in this case, specific details about the Malawian famine.

Aside from floods that washed away budding crops and a drought that followed, William placed part of the blame for the famine on the International Monetary Fund, which insisted that the government of Malawi sell a portion of the country's emergency grain reserve to pay off some of its debt. Corrupt officials in the government were emboldened by the occasion and sold all of the reserve grain and kept much of the money made from the sales for themselves.

Another reason for the famine was the elimination of fertilizer and seed subsidies by the government to farmers. It has also been established that the international community did not do enough to help when the famine was occurring.

After asking questions and seeking out answers, the next step is to determine solutions and advocate their implementation. EWB offers to serve as a channel through which to create positive change in the world. We will be hosting various kinds of outreach and educational events throughout the term, as well as discussion groups, high school classroom presentations, and lobbying our political leaders to create policy changes.

Please visit our website, www.uwaterloo.ewb.ca, or email us at uwaterloo@ewb.ca if you are interested in joining EWB or attending any of our events.

Charities!

Helping EngSoc build a school in India

MARISSA BALE, LISA TRUCHON, ANGELA ROSSI
CHARITIES DIRECTORS

Engsoc will be supporting Free the Children this term by raising money to build a school in rural areas of the Udaipur district in India. It costs about \$8500 to build a school for Free the Children, but if the full amount isn't raised, the money will still go towards building a school because Free the Children can match us with other groups until the full amount is made.

Despite recent economic gains, India still faces pressing problems such as overpopulation, environmental degradation, extensive poverty, and ethnic and religious strife. India is the second most populous country in the world after China. Malnutrition affects nearly half of all children under 5. Free the Children concentrates its efforts on rural areas of northern India since it is an area that has long been forgotten by the Indian government. The rural areas have little education, water, income generation activities, and health care services, leading to an extremely low quality of life. These areas also have the highest primary school dropout rate in India due to poor and distant educational facilities, the need for children to work, and the lack of educational and health support. Free the Children has therefore engaged several communities in the Udaipur district to implement their Adopt-A-Village program. Through this program, Free the Children works in partnership with these communities to eliminate obstacles that prevent children from accessing education, engaging community members in development and education projects.

Many children in the rural communities in the Udaipur district do not have access to education. In most cases, there are no local school and children have to walk long distances to reach the nearest school. In the communities where schools do exist,

they lack electricity, the infrastructure is often dilapidated, and the number of students has long outgrown the capacity of the classrooms. Free the Children works towards building schools and repairing existing infrastructure, while supporting the local economies by hiring local men and women to help with the construction. Free the Children's schools are built in central locations so all community members have access to the facilities and children don't need to walk long distances to go to school.

To support this effort, the charities directors will be holding a number of events, including:

- Pancake Breakfasts!
- Mini Golf!
- Float Day!
- A community car wash!
- Purpling for charity!

Pancake Breakfasts are held every other Tuesday in CPH foyer. For \$2 you can get 3 delicious, freshly-made pancakes with or without chocolate chips and syrup. Yum!

Mini Golf was held on May 26, and was a HUGE success! With enough interest, we may hold it again.

Float Day will be held on June 16th. For just \$2, you can get a delicious float. What is a float? It's a cup of delicious made of vanilla ice cream and a pop of your choice.

What a way to cool off from the summer heat! We will be holding a community car wash on Sunday, July 18th.

On July 21st, you will be able to dye yourself purple for charity. For a donation (or pledges adding up to) \$100, you can dye your whole body purple, just in time for the last EngSoc meeting and a night at Bomber! Other donation/purpling levels are to be determined.

Look out for posters, Event-A-Tron ads, and emails from the mailing list for more information or volunteer requests for these events.

All proceeds from all events will benefit Free the Children.

EngSoc Time Capsule: Fact or Fiction?

ANISH BHUTANI & ERIN MATHESON
3N & 2B CHEMICAL

During the Winter 2000 20th anniversary celebration of the Iron Warrior, several older issues of the newspaper were taken out of the archives and a booth was set up in the CPH Foyer so students

passing by could take a look at past editions of the paper from the 80's and 90's. During one of these events, an edition from June 4th, 1999 had the front page heading "Engineering Society to Construct Millennium Time Capsule". The plan was for engineering students to put belongings they thought students in the future would like to see and put it away in July of that year.

The date that they wanted to open the time capsule was eleven years from then on July 1st, 2010, or in other words, under a month from when this issue is released. Unfortunately, after sifting through the rest of the Iron Warrior archives as well as EngSoc minute meetings from the past ten years, no additional information on the time capsule could be found! Now the question remains: *is this all just a rumor?* Or will a time capsule revealing the secrets of EngSoc's past mystically reveal itself on the 1st of July? What possibly could be in it? Stay tuned to find out!

If you happen to have any additional information pertaining to this time capsule, please email The Iron Warrior at iwarrior@engmail.uwaterloo.ca!

It's Peanut Butter Genius Time!

YASSER AL-KHDER, ANDREW FISHER, KAL SOBEL
GENIUS BOWL DIRECTORS

(We bring the peanut butter, you bring the genius)

Yes ladies and gentleman, it's that time of the term again. Time for Genius Bowl! Where you put all that useless trivia you picked up over the years to use and win awesome prizes!

So, since we love you oh so much. We're gonna give you the perfect set-up of a winning team. Here goes:

1. Smart guy: It's Genius Bowl, so you might as well have a "genius" on your team
2. Sports guy: You gotta know your sports, and we're talkin more than just

hockey

3. Token drunk: Never underestimate the token drunk. For he knows what others know not.

4. Epic Beard Guy: Because beards are epic.

5. Movie quotes guy: This person can quote anything from Star Wars to Ninja Cheerleaders From Space 3.

6. You: Yes you. Cuz you're awesome. Can't find this combination of people? No problem. Just grab your friends, sign up at the orifice, and come to Genius Bowl on Thursday, June 10th at 7:00 at MC 2065.

Team spirit and matching costumes are encouraged (and will be rewarded).

Andrew, Kal, and Yasser
Genius Bowl Directors

All You Need is 30 Days

Tips to start your running routine



KIRSTEN HOEDLMOSER
4A CHEMICAL

Everybody has trouble staying motivated sometimes, whether it's on an assignment, studying, a project on a co-op term, or when you're trying to make a new habit. People often say that it takes 30 days to make or break a habit, but what they forget is that those 30 days are typically far more difficult if you're trying to form a good habit rather than letting a bad one take root.

If you've decided to make a running habit, congratulations! If you haven't started yet, it's never too late to begin something new. Try your best to stick with it regularly for 30 days, and you'll be on the road to running success in no time at all!

Some of the biggest hurdles in those 30 days will be the frustrations you feel, no matter your personal reason for running. These frustrations can be disheartening; no matter how long you've been running. They make that little voice in your head ask you questions you don't want to answer: what do you think you're doing? Are you crazy? Did you seriously think this would help you?

If you let that self-doubt get the better of you, your response to it might be: "maybe I'm not cut out for this."

Don't feel that way! It's normal to get discouraged. The fact is that there is no such thing as a small achievement when

it comes to forming a healthy lifestyle habit, like running regularly. It's no easy task, but it's incredibly rewarding once you've achieved it.

One of the first things you might have noticed if you've just started running is how sore your legs are, or maybe how stiff your back feels. What you're feeling are tiny tears in your muscles, and these tears actually build more muscle as they repair themselves. It's uncomfortable, but it's also a reminder that the rewards from your hard work are building slowly and surely. A word of caution, however: if the soreness doesn't go away in a day or so, you may need to back off running a little bit to give your body time to adjust. Use your common sense and you should be just fine.

If you're discouraged because you haven't seen any physical improvements yet, don't worry. That's normal! It takes time for change to happen. Focus on the little things you've been feeling. Are you more awake and energized? Has your mood improved? Are you able to focus better during the day? Do you sleep more soundly at night? Do you feel better about yourself in general? These are things to be proud of! Celebrate them, and remember that you'll notice the big changes very soon.

If you're having trouble with the little things, like getting out of bed in the morning to do your run or workout, there are a few tricks you can use. The first is to set out your workout clothes the night before, so that when you wake up you'll be reminded of your commitment. If you

have a coffee machine with a timer, set it to have your coffee ready as soon as you come in from your run. You could promise yourself little rewards, like treating yourself to a great dinner if you run 5 out of 7 days during the week. Whenever I'm having trouble motivating myself, I count how many miles I've done in my running shoes and figure out when I should replace them during my training plan. Having a date on the calendar to remind me that a reward in the form of new running shoes is coming really helps me get out the door.

You can also find a running partner. This person can be someone who is at the same point in their running as you are, or could be someone who is a little bit of a stronger runner. Setting a

running date that you can both commit to will help get your run done, because you'll have someone to hold you to it. Running with a partner is fun and can help you push yourself. If you don't have a friend who wants to run with you, the EngSoc running club, the Accelerated Masses, meets every Monday at 6pm and Saturday at 11am on the POETS patio, and everyone is welcome to participate.

If you're having trouble getting out the door because you don't see where running will take you in the long term, the best idea is to set a goal you want to reach after a certain period of time. For example, if you're just starting out, your goal may be to run 5 km by the end of the summer without needing to stop. If

you've been running a little bit longer, you could set your sights on completing a road race in a certain amount of time. Or, if you're up for a challenge, you could sign up for a half marathon in the fall.

It's important to celebrate the little victories along the way. Did you work out or run 5 out of 7 days this week? That's awesome! Did you run a little bit further or faster than you did the last time? Amazing! Did you roll out of your warm and cozy bed to go run even though you didn't want to? That definitely earns you a pat on the back.

Hopefully these ideas will help you through those first 30 days. Remember: be proud of your accomplishments no matter how big or small, set a goal, and try not to lose heart. It's never too late to start running, and it's totally possible to learn to love it. You can do it!

If you have any questions about Accelerated Masses or about running in general, email acceleratedmasses@gmail.com. The other pacers and I aren't experts, but we might have the answers you need. Run happy!

Next IW issue: Eating well to run well

Accelerated Masses Meets
Monday at 6pm
Saturday at 11am
POETS patio

Review Based on the Trailer: Toy Story 3



JON RADICE
3T CHEMICAL

I, along with the entire human race, am a huge fan of everything that Pixar has laid their hands on. I have joyfully sat through every Pixar movie with never so much as a complaint walking out when the movie was done.

Even Cars, known as the weak one of the Pixar bunch, was definitely worth sitting through for at least one watch through. There are very few sure bets, especially when it comes to good movies, but Pixar would be the closest thing to it. But why am I so apprehensive about Toy Story 3?

Sequels and movies aimed at kids are always such a tricky business. Using the recently released 4th movie in the Shrek series as an example, one can see how far a great first movie can fall when it uses a sequel as a means to cash in on its own popularity. It will often go for the cheap laughs that make the characters seem hollow catchphrases attached to CGI. Disney has a terrible track record with sequels (mind you, Pixar was a separate entity from Disney when the 2nd came out) as you may have noticed if you have had to babysit little cousins sometime in the past decade.

Looking at the trailer, there is a lot of potential for that. Buzz Lightyear getting a Spanish Accent is the main perpetrator in the official trailer. If this becomes a main part of the story, I can see myself growing very sick of it really fast. However, if they make it a small, Mrs. Nebitt-form-the-first-movie-esque, part then I could see some good laughs on it.

Also from the trailers we see Ken is

added to the gang, and I think that the opportunity for Ken-related jokes died out once everyone got sick of that Aqua song. Many of new characters were glossed over from the first two movies for a reason, and I hope they are infused with character more than just put in there as a reason to bolster the merchandise line.

Aside from the worries, there still is a lot of heart to be seen from the trailers. If watching Andy growing up is as well done as the opening montage from Up that alone will be worth the price of admission.

The thing about Pixar- the main reason that it separates itself from the other animation studios - is that characters really come alive in their movies. They're not used as fodder for lame jokes, but are actually given depth and make you care for them outright. Pixar treats kids like young adults, giving them mature plot lines rather than mocking them with easy burp and fart jokes.

The last fifteen years has been especially dominated by Pixar; with toy story coming out in '95 they have been able to

craft great stories that contains more with and imagination than anything in the Disney Cannon. Their high standards exude in every movie, and Toy Story 3 will be put up to them as well.

Should you go see it? You definitely should. Even if some of the jokes are aimed for someone less than half your age. Pixar has ways of making every story endearing for everyone. It definitely doesn't look as good as Wall-E or The Incredibles, but it's the closest thing to a sure thing out there. Go watch it.

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Brew Man Group: Old Speckled Hen



DAN ARMSTRONG
3T MECHANICAL
NEIL PARTRIDGE
3T CHEMICAL

Howdy beer quaffers and aficionados alike. Welcome to yet another superlative edition of the Brew Man Group. As some of you might already know, the Brew Man Group continues to be split up by spans as large as an ocean (actually, this time it's the Atlantic). As we write, Dan is now braving the (not so terrible) pitfalls of every English pub he can stumble his drunk-ass into, while Neil wallows in his parents' basement, making home brews to ease the pain. Sad times indeed. Regardless, we plan on bringing another installment filled with educational material for everyone (except for those under 19, who might also be informally called "jail-bait" as Dan tells me). So sit back, crack a beer, and enjoy my friends. Today we will be reviewing an older English ale, Old Speckled Hen.

Dan: Old Speckled Hen is classified as an English Pale Ale, though could just as easily be referred to as a 'bitter', given the right context anyway. The term 'pale ale' was coined in early 18th century England to make the somewhat obvious distinction from other ales (such as porters) that were not so pale by comparison. 'Bitter', in particular, referred to pale ales that were relatively lighter and clearer in colour and had a more prominent hop character. However, many 'pale ales' were simply referred to as a 'bitters' when served in a pub on cask, which brings us to the sub-topic of this article. "What's a cask?", I'm sure some of you are asking. Well, dear readers, a cask is a magical wooden barrel from which delicious ales are served. They are not pressurized, and must be served using a hand-pump. These beers complete secondary fermentation in the cask itself and are not pasteurized or filtered, which is why they are sometimes said to still be 'alive'. The carbonation in cask ales is entirely natural, which results in a thinner body, making

them dangerously easy to neck (or 'chug', or 'pound back', or 'drink a whole beer in one night' if you're Neil). Thankfully most cask bitters are relatively low in alcohol (3 to 4.5%), which makes them quite conducive to such activities.

Neil: Generally, the history section of our breweries is pretty simple to uncover. In addition to a thorough Google search, we sometimes (improperly) reference real printed literature. As for our key feature, Morland Breweries, we had trouble. Their own website as well as my super-awesome "Designing Great Beers" textbook is surprisingly stark... Needless to say, employing Wikipedia yielded great results (I thank every deity, no, I thank the deity known as Wiki for this awesome gift bestowed upon man).

It turns out, Morland breweries actually does have a long history dating all the way back to 1711, when John Morland abandoned farming to start his brewery in Berkshire. After starting his brewery, his name soon became known in the public houses (aka.pubs), which led to the acquisition of the Abbey Brewery in Abingdon. Moving further ahead in time, Morland paired with Thomas Skurray (an astute businessman), and essentially waged a game of "brewing Risk", wherein he bought out several breweries in the immediate area and added these brands to his own (As an aside, the production/consumption of beer does not typically lead to sound strategy in the board game, unless your goal is to get everyone else shammed.) In 1944, these companies were merged into Morland and Co., which continued through until 2000, wherein it was bought out by Greene King

brewery.

Closer to present day, Old Speckled Hen was conceived in 1979 as a commissioned brew from MG Cars. The beer itself was designed as a standard English Pale/Bitter, and brewed with a specific gravity of 1.050 (see, 50!). Interestingly enough, the name was derived from an old MG release that gimped around the brewery, which was highlighted by a gold and black speckled paint job. The people there called it the "Owd Speckl'd 'Un", which eventually became Old Speckled Hen. Very quickly, this became the flagship brand for Morland and Co., and is often seen in both bottle and cask form.

Dan: In hopes of bringing to light some of the distinctions of a cask-served ale, I'll be reviewing a pint I had while in Leeds, England. In case it was not already mentioned (not that I'd hesitate to mention it again), I am currently on a little jaunt around Europe. Being a good traveler, I've been sure to sample plenty of domestic brews wherever I've been,

hoping to get a fuller appreciation for the culture in which I have embedded myself, or I just wanna get hammered and laugh at everyone at school/work this summer. Either way, according to my drunken notes, I tried 21 new beers in my 10 days in England. Of these, Old Speckled Hen on cask was far from being the winner. Though it showed up in my glass as a perfect shade of copper, the dense, creamy head (a product of some cask pours) made it difficult to discern much of any aromas. Sipping did indeed show some improvement however. Caramel and toffee paired up with a bit of an apple flavour to make for an OK beer. The real highlight however was the mouthfeel. Despite

its higher alcohol content compared to most bitters (5.2%), the thin mouthfeel makes this one very easy to drink, and a dangerous choice when taking on English drinkers who are used to downing seven pints by seven PM. Overall this isn't a bad beer, but do not think that it is representative of English brewers' capabilities. In general, I would compare Greene King brewery to someone like Rickard's in Canada. Their beers aren't offensive, and they're making attempts at styles beyond pale lagers, but you'll have to resort to some smaller breweries to get some truly delicious, complex ales. [2.5/5]

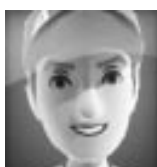
Neil: It has been a while since my last sampling of Old Speckled Hen, and picking it up in the LCBO brought me back to the days where every European beer was a small bundle of joy (After a few, this turned into a bundle of drunken trouble too). Filling up my pint glass, I noted the carbonation was pretty low, which is typical of an English pale ale/bitter. What's not normal though, is the lack of head retention, especially considering Dan mentioned his was too dense... Oh well, I believe that Dan got a fresher serving, but I reckon my home brews fare much better in this category, or so I like to believe :). Overall, colour was a red-caramel, albeit a bit clear and watery (minus points!). Taking a quick whiff, I am surprised to detect some notes akin to Labatt Blue (Double minus points!), with some hidden notes of toffee. Fortunately, this didn't follow through into the tasting. Remarkably, Old Speckled Hen actually has a decent malt profile, however as I mentioned before, it's a little watered down. Overall, the beer was OK, but I would have liked experience far more depth and mouthfeel (You can also use this seemingly innocent beer comment to get one punched by your girlfriend, believe me, I've seen it happen to Dan.) [3/5]

Try it if you want, but your money would be better spent on: a trip to England and a few visits to a good pub. Failing that, search out cask ales in Toronto at C'est What and Mill St. Brew Pub.

Props to hops // Dan and Neil



Future of Gaming: Holy Coordination Batman!



JON MARTIN
OBI JON1138

Over the years there has been a constant trend within the video game market – splitting and consolidating. Now that may seem contradictory – but it's not, no really, it's not. I am talking about the disconnect between different gaming systems as well as the consolidation that happens within a system – whether this trend is good is something that remains to be seen.

Obviously the biggest evidence of the split in the video game market is hate and disgust expressed between rival gaming systems (think Sony vs. Xbox fanboys) and between all gaming systems and the PC. Now, I have nothing against the PC gaming industry, well maybe I do. I started out playing SEGA genesis and NES, and then started playing PC games.

The biggest cause of my switch to a console was the demands of PC games. Yes, it's great when a game can take advantage of the latest technology, the newest shading algorithms, the most advanced texture modeling – but I hate the cost.

Many times I awaited the release of a new game, sometimes years in development, only to have it not run unless I bought a new graphics card, or not at all with my current processor. This was my biggest reason for switching to a console; while the graphics

will never be able to keep up with a PC – with specs doubling every couple of years and consoles lasting for longer lifespans – they have greater accountability.

If I go out and buy a brand new game for a console – PS3, Xbox 360, or Wii – do I ever have to worry about it working in that system? No, any PS3 game will play in a PS3. Now I will admit that some games utilize peripherals for part or all of their functionality, but that is different from replacing a piece of hardware within the system.

But I'm getting off topic a bit, the major problem within the console gaming industry is the competition between companies, and the effect that has on the games. If a game is developed for one system and ported to the other there will always be loss especially because of the difference in programming structure between the PS3 and the Xbox, as well as the spec difference between the Wii and the other two. What happens when the developer instead chooses to develop completely separate versions of the game for each system? Now we have gamers missing out on sections or features of the game which are available on another system, as well as the resources, time and talent of developers being split instead of producing one amazing game.

The other trend I mentioned was consolidation within brands, which brings me back to the peripherals I mentioned earlier (see, not as off topic as it seemed). Anyway, while consoles may go through a form change, the rarely come out with significant

upgrades through the life-cycle. In the case of the Xbox there have been multiple motherboard revisions to stop the RROD (Red Ring Of Death), as well as adding a small amount of internal memory.

In this case the earliest adopters of the system are not alienated, their games don't suddenly stop working, and they can still buy the newest games. When major changes do occur it is normally in the manner of an external hardware attachment or peripheral. Things like the PS EyeToy, Xbox Vision Camera, PS Move and MS Project Natal come to mind. While the last two are not available yet they show the greatest potential for being a midlife crisis type change for video games – both introducing new control schemes and design options that will fundamentally change the way games are played on either the PS3 or the Xbox 360.

How many games will be released that are exclusive for the new peripherals? How many will have extra content available but won't stop other gamers without the peripheral from enjoying the game? The other question is price, what is reasonable and what is going to put the peripheral into an early grave? I have heard rumours for both systems about a sub \$100 price point, and some estimates much higher. One estimate put Project Natal at \$200, which I find very hard to believe. Nobody is going to buy a system accessory that costs as much as the system itself.

As for the PlayStation Move, I haven't

heard much about pricing, but I wonder about the logistics of multiple users. The Move system consists of two 'wand' like controllers that are tracked by sensors, but what if you have two or more people who want to play co-operatively? Does each person have to have another set of controllers? How much is that going to add up to? That is a benefit I see for Project Natal, with its ability to track multiple people it will be possible to have a friend jump in and play without requiring any more investment than the original peripheral. How this will turn out, I have no idea, but it will be interesting.

So, with the industry split so distinctly into different camps, and games becoming exclusive or diluted between those camps, we are at an interesting point in the evolution of video games – will we ever see a single gaming system in the future? How should I know? - I just talk about video games. I am sure that games will keep coming regardless, and they will keep getting better.

Oh yeah, to tie into the title. Did anybody else ever find it odd that in the old Batman movie (1960's Adam West and Burt Ward) when the Penguin knocks Batman and Robin out with sleeping gas, he kicks them out of the batmobile and drives away leaving them on the side of the highway – wasn't it convenient that the batcycle just happened to be hidden in the bushes two meters away? I mean, that was really planning ahead! Anyway, Keep on Gaming!

Beginners Guide to Camping

Smooth Jazz Edition



CHAD SEXINGTON
4X MANGENEERING

Good Morning Sexy Readers!

It's that time again! We're well into the term, and I'm sure you're all working diligently to do well in school, because intelligence is sexy right? Right. Recently, I had the opportunity to go camping, and while the rain of an early May weekend may have been a bit of a damper, there are few things a Chad likes better than going camping. I'm not talking about RV's and tent trailers in a field with electrical hookups, those are for old people and kids from Miami. I'm talking about a tent (at most) and a sleeping bag, a backpack full of food and a warm summer weekend. Whether you're with friends, with family, or just by yourself alone in the wilderness, there is always something profoundly calming about being away from technology and city life, even if it's just for a night. I could go on and on about all the fantastic adventures I've had in the wilderness, but the real way to get a feel for it is to try it out!

To go camping, first you'll need to pick a location. Canada has hundreds of parks and campgrounds, all you need to do is find one close to you. If you're a novice camper, an official provincial park campground is the best place to start your experience. They

usually have amenities and running water in 1 or 2 locations if you need a break from the wild.

Once you have the location picked out, you'll need the following handy items to make sure that you don't succumb to the horrible beast that is nature:

A Tent: Make sure it fits you inside of it!

A Sleeping Bag: One that fits you inside of it!

A Cutting implement: A handy knife will be very useful for hotdogs to stick sharpening to rope cutting

Tarpaulins: Best for keeping your everything dry, you can even use them like a blanket!

Rope: Useful for absolutely everything.

Flashlights or Lanterns: To see after it gets dark.

With these 6 simple items you can survive almost anything anywhere. Most of this stuff can be rented from the UW outdoors club for really cheap, so you have no "I don't have the stuff to camp" excuses.

After you hit the open road, get to your camp spot of choice, and create yourself a fire to be proud of, you're going to be pretty hungry right? Right. There are a few fun foodstuffs that are staples of any camping trip like sandwiches and trail mix, but here are my favorite fireside snacks:

Banana Boat: Peel 1 part of a banana skin, scoop out a trough, fill with delicious melty bits, fold the skin back, wrap in tinfoil, put very close to the fire for 20 minutes, eat

with spoon

Roasted Nuts: Put peanuts, cashews, other nuts into a fireproof pan and a spoonful of sugar or honey on top. Place over fire until roasted well.

Spider Dog: Slice an X into each end of a hotdog about 1" deep using your knife. Skewer it through the middle and roast in the fire. The ends will curl out making a deli-

cious snack.

And unfortunately, I'll run out of space if I list any more. So, seize the day and night my sexy readers. Take an adventure or two and live in the world around you. Who knows, maybe you'll run into a Lumberjack or two roaming the woodlands next time you're pitching a tent.

Until next time, Stay Sexy.

profQuotes

"My fantasy life: teach macroeconomics to farm boys in China. I would set off a riot..." - Smith, Econ 102

"Give up your female companion because she couldn't cook to save her soul... I've had bad experiences..." - Smith, Econ 102

"This has nothing to do with the lecture, but who cares" - Frappe, Earth 232

"On Monday I will see the ugliest man on the planet...he has been dead for years though" - Frappe, Earth 232

"It's embarrassing because I'm fat, but it's okay because they are uglier than me" - Frappe, Earth 232

"In engineering, we don't really care about that because we don't invent differential equations for fun like the math people." -Collins, ME 250

Laser pointer isn't working well "It looks like I'm going to have to double hand this one."-Thom, ME 220

"It's kind of a hard concept to explain... but I guess that's my job, so..."-Thom, ME 220

"R-12, which is illegal, although you could probably get it in Cuba"-Collins, ME 250

Send in your profQuotes to:
iwarrior@gmail.uwaterloo.ca

The Iron Hexadoku

BHAVYA KASHYAP
STAFF WRITER

	6				A	2			E		9			
1			7	D	8	9	4		F	6		A	C	E
	A							2		9		5	6	8
	8				3	7		1		A		B	4	
				1	4	A					7		3	
	C	2	3		E	F			1					
	7			2	D	C				3	1		A	B
				0				D	2	5		C	8	9
5	E	C	2					0	7					8
6					A			3	8		4	B	F	D
3						B			2	6	5	7	C	E
B		8	A	6	3						2	4		
	0		B		4	5		7			F		2	C
7		3			C					D	E		B	0
		9	6	3	0			E						
				7				F	B	8		6	9	

Solutions to Last Issue's Iron Crossword

T	R	U	N	D	L	E			M	A	C	A	W	
R	A	D	I	O	E	S			A	N	I	L	E	
O	D	D	M	E	N	T			L	I	S	L	E	
T	I	E				T	O	R	E			T	A	P
H	O	R	N	P	I	P	E	S				E	Y	E
					O	I	L		S	C	O	R	E	R
A	F	R	O	S						R	A	N	D	S
T	O	O	K	T	O			P	E	T				
T	O	O				O	V	E	R	W	H	E	L	M
E	L	F				N	A	V	E			L	I	E
M	E	T	E	R				A	L	A	B	A	M	A
P	R	O	V	O				D	I	L	U	T	E	D
T	Y	P	E	D				E	M	P	R	E	S	S

DIRTY BURGER DAYS
\$2 BURGERS AND WINGS \$5.50/LB
SUNDAY, MONDAY, WEDNESDAY

\$2 BUCK TUESDAYS - EVERY TUESDAY

LIVE MUSIC TUES, WED, SAT
AND KARAOKE EVERY NIGHT

BIGGIE-UP
ANY DAY ANY TIME

A BURGER AND A BEER FOR \$4 BUCKS!!

ADD FRIES FOR \$2
ADD WINGS FOR \$2

PRESENT THIS COUPON AT TIME OF ORDERING

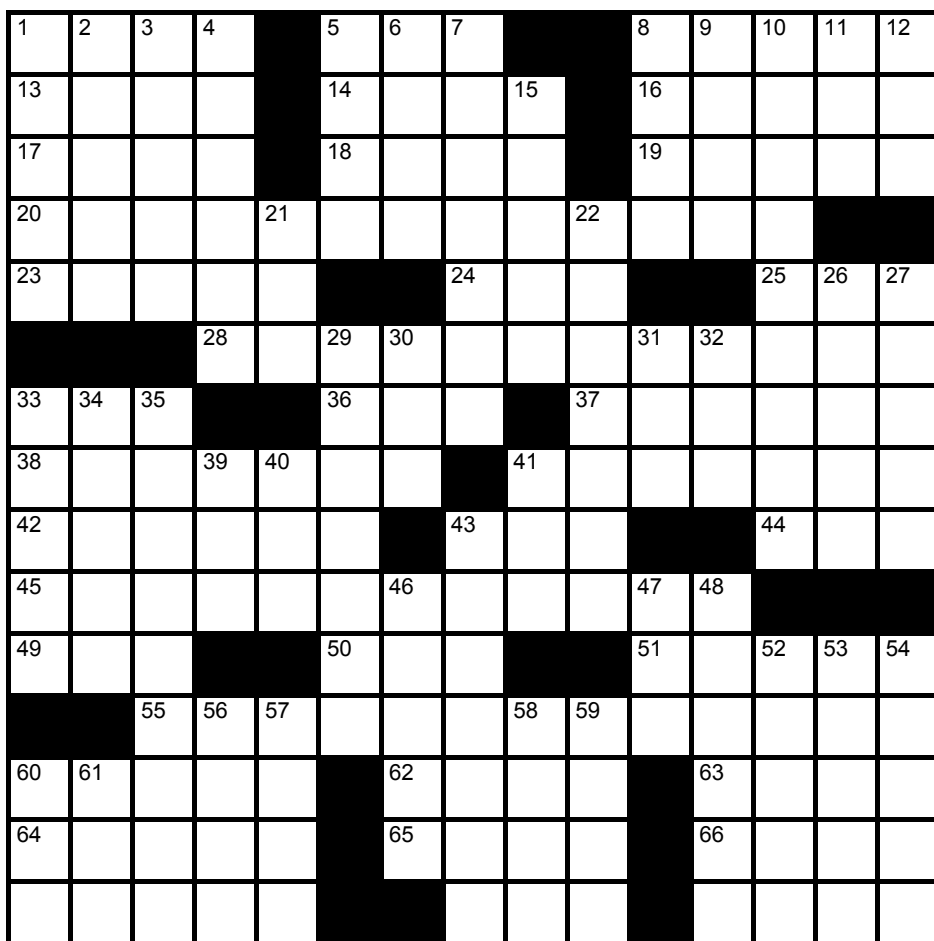
LIMIT 1 COUPON PER PERSON. OFFER DOES NOT INCLUDE APPLICABLE TAXES. NOT VALID IF REPRODUCED, SOLD OR TRANSFERRED.

#02

SAWDUST AND BEER AT 28 KING ST N, UPTOWN WATERLOO • 519-954-8660 • JOIN CHAINSAW LOVERS ON FACEBOOK

The Iron Crossword

LISA LIU
3A ENVIRONMENTAL



Engineers Watching Movies

BHAVYA KASHYAP
STAFF WRITER



Across

1. Stationer's stock
5. Bleat
8. Colorado resort
13. Yemen's continent
14. Baltic capital
16. Pacific island republic
17. "___ be a cold day in hell ..."
18. Knowing, as a secret (2 words)
19. Small branches
20. Fizzy drink dispenser (2 words)
23. Scent
24. An end to sex?
25. Pedro's sun
28. Habit particular to an individual
33. N'est-ce ___
36. Short order, for short
37. Like some humor
38. Gamed
41. Protector of the clubs
42. A military leader in India, Pakistan,

or Afghanistan

43. Not in
44. Victorian, for one
45. If Dumbledore were female
49. Death on the Nile cause, perhaps
50. Theatrical chapters
51. Winged
55. Trance state for study of emotional reactions
60. Superman: Man of ___
62. "A Prayer for ___ Meany"
63. Flight data, briefly
64. Aussie "bear"
65. Cover, in a way
66. "Buona ___" (Italian greeting)
67. Suggest
68. "What's ___ pussycat?"
69. Cafeteria carrier

Down

1. 100th of the rupee
2. Mary of "The Maltese Falcon"
3. Phallic object
4. Deli offering
5. Get-up-and-go
6. Hokkaido native
7. A person torn by inner conflict
8. Against
9. Cut, as a log
10. Power, might, or force
11. .0000001 joule
12. Fraternity letters
15. Anxious
21. Beanie Babies, e.g.
22. Having an amnion during the embryonic stage
26. Twig from a willow
27. Brand of spandex
29. Basque, e.g.
30. Aged
31. French vineyard
32. Howard of "Happy Days"
33. Ottoman title
34. Astrological ram
35. Dump
39. Make sense, with "up"
40. Beaver's work
41. Plant sticker
43. Resident of a capital
46. Inside info
47. "Do the Right Thing" pizzeria owner
48. Most like Sylvester
52. Daisylike bloom
53. Beauty pageant wear
54. English exam finale, often
56. Cry
57. Theatre production
58. "Scream" star Campbell
59. Again
60. Schuss, e.g.
61. Actor Cruise

THE IRON INQUISITION

What does E2 smell like?

Angelo Alaimo, 3A Electrical



**Kishen Pais
Nishant Gupta**
3A Electrical
"Smells Like
Pee."



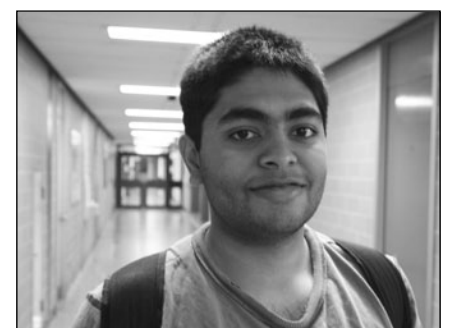
Vivek Trehan
4A Computer
"Ballsweat."



James & Rebecca Thomson
3A Computer & IT Arts
"Broken dreams and crushed spirits."



Will Zochodne
3A Mechanical
"Manmeat mixed
with semen, sweat
and depression."



Rohit Sinha
4A Computer
"Dudes and
Pizza."