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<http://iwarrrior.uwaterloo.ca>

Waterloo Formula SAE Team Unveils 2009 Vehicle

AMRITA YASIN
3A CHEMICAL

In keeping with 22 years of tradition, University of Waterloo Formula Motorsports team, supervised by the Department of Mechanical & Mechatronics Engineering once again gets ready for Formula SAE Competition.

Organized by the Society of Automotive Engineers (SAE) Formula SAE has been challenging Engineering students for 30 years. UW will be competing against 120 universities from around the world. The competition is to be held May 13th – May 16th 2009 at Michigan International Speedway, Brooklyn, MI. The vehicle will be judged on topics such as speed, endurance, design and aesthetics, as well as its marketing plan.

FSAE Car unveiling took place in SLC on May 7th 2009. Headed by Adam Howard, this five minute presentation highlighted the key features of the new 600cc car, which will be evaluated on its functional and commercial viability.

This car has been designed “around the driver” and a dynamic relationship between the car and driver has been emphasized. The driver of the FSAE Car is not a mere tool to get the car going on the track; he is able to sense changes and respond accordingly to maximize car performance.

Joining the SAE team seems to be a great way of developing problem solving and analytical skills, getting hands-on experience, networking, gaining leadership skills – attributes that are difficult to obtain in a pure academic environment. Students have donated 1000-2000 hours to the building of a new car each year – one of the requirements of the competition. The team is not limited to people of certain qualification or backgrounds; Undergraduates, graduates, even high school students are involved in this project,

working in different organization functions such as technical, IT, and marketing. For further information visit <http://fsae.uwaterloo.ca>.

Let’s hope their hard work over the last year has helped them race to the finish line!



Michelle Croal

Members of the FSAE Team pose with Dean Rothenburg and the 2009 Vehicle.

Waterloo Science: Rocket Science, That Is!

MILENA BELOIA-CHERES
2B CIVIL

Thursday, May 14th, 9:12 AM. Another morning, another day of Fluid Mechanics and the whole shebang and the best day to start looking forward to the long weekend that was coming up. At least that was my take on it. Somewhere far away in Kourou, French Guiana, however, the Ariane 5 rocket was setting off, ready to make history by placing into orbit the largest telescope ever created for space exploration. And in the silence of UW’s Humanities Theatre, Michel Fich was leaning in his seat, thrilled to watch the piece of technology that he has devoted most of his recent career to finally start its mission successfully.

The Herschel Space Observatory is the European Space Agency’s fourth and final “Cornerstone” mission, as part of its space science program. Measuring approximately the size of a bus, the telescope will orbit around the 2nd La-

grange point (L2), scrutinizing the extremities of space for any life-supporting molecules (such as water), as well as the birth and development of stars, planets and galaxies. It will make a significant contribution to determining how the first galaxies were created and evolved, how new stars interact with the surrounding space, and what the molecular chemistry of the Universe consists of.

The observatory was named after William Herschel, the German astronomer and composer who discovered, among others, the planet Uranus using a homemade telescope. An even more relevant contribution to science was his discovery of infrared radiation in 1800 while testing various light filters. This type of radiation is the very principle that the Herschel telescope will use in studying the “cold Universe”. It is meant to capture images of even the space objects that are too cold to emit visible light, using revolutionary far-infrared technology. Enter Michel Fich, UW professor of Physics and Astronomy.

Fich’s career involves some of the things that most of us would envision when told to think about science fiction: developing new instruments for space research. As he describes it, he studies “the formation of stars and planets and the properties of the interstellar medium”. Re-

cently, his work involves far infrared and submillimeter astronomy, which stand at the core of the Heterodyne Instrument for the Far Infrared (HIFI), one of the three pieces of equipment aboard the Herschel observatory.

Dr. Fich is the Canadian Principal Investigator, who leads the 30-person team of astronomers across the country responsible for developing this high-resolution spectrometer. More specifically, Fich and his team designed the local oscillator unit which controls the HIFI; although only the size of a toaster oven, this unit is critical in capturing the distant space signals and rendering them suitable for processing. The local oscillator essentially works as a tuner for the HIFI, much like a tuning fork for musical instruments or an AM radio tuner. This very stable monochromatic signal produced by the unit mixes with the source signal from space to create a lower frequency that can be processed with electronic circuits. The hardware was manufactured and assembled by COM DEV in Cambridge, with funding from the Canadian Space Agency.

Another two cameras represent the rest of the main equipment carried by Herschel. One is the Photoconductor Array Camera and Spectrometer (PACS), and the other is the Spectral and Photometric Imaging Receiver (SPIRE). The latter was also partly developed by Canadians, led by David Naylor from the Lethbridge University in Alberta.

See FAR INFRARED
on Page 3



ESA

Launch of the Rocket

Herschel Observatory in numbers:

- 1.5 million km: The distance that the telescope will orbit at, far enough so that the instruments can record variations in temperature from far-away objects
- \$3 billion: The total cost of the equipment transported into space
- 40 km/s: The speed that Herschel will be orbiting at around L2
- 1.4 K: The temperature at which the equipment on board must be kept using liquid helium, in order to be able to capture infrared radiation
- 4: The number of years the mission is expected to last, approximately the amount of time that it will take for the Helium to be consumed
- 3.5 metres: The diameter of the Herschel telescope, approximately 4 times larger than the current one on Hubble



UW Daily Bulletin

Fich at the Humanities Theatre Seminar

Letter from the Editor



MICHELLE CROAL
EDITOR-IN-CHIEF

It all began way back on my first work term when I wrote to *The Iron Warrior*, with bright-eyed froshie enthusiasm, gushing about their new website. Finally, almost two years later, I enter the term in the position of Editor-in-Chief, having clawed my way to the top of the IW food chain (see disclaimer). It feels good to be in charge - a little nerve-wracking, especially at the start of the term - but hopefully by the time you read this, things will have gone smoothly. It's interesting to note that I'm only the second female

editor in at least the last seven years, but more on this later.

I've got a couple of goals for the term, things that I want to improve here at *The Iron Warrior*, and other content.

Improving distribution: Ever since the IW office moved from the main CPH hallway to the back corridors of upstairs E2, our distribution seems to have plummeted. Stacks and stacks of newspapers accumulate in the office instead of getting out onto the racks and to the readers. I'm hoping to tackle this issue with the hiring of a specific distribution manager to help deliver papers, increased "Press Release!" messages in your EngSoc mailing list and delivering the IW myself with my bike and little red wagon if need be. Dalia has graciously stepped up to be Distribution Manager, and as of this writing was working on an AWESOME campus map showing the IW rack locations.

Advertising and Finances: I've been told that advertising for the IW tends to be slower in summer months. This is probably due to the fact that most other universities have summer vacation, and companies may not realize there is still an engineering-based target market here at Waterloo during the Spring term. I hope to combat this by maintaining ties with current advertisers, and in conjunction with my Advertising Manager Joonha, make new contacts with local companies that could benefit from advertising in *The Iron Warrior*. I would prefer to finance *The Iron Warrior* as much as possible through advertising, and not EngSoc allocation, as that money is better spent on directorships and other student services that do not have reliable income otherwise. Finally, all EngSoc advertising receives an automatic discount, so Directors, this is your place to boost attendance at your events!

Advisory board: We've improved the advisory board visibility by adding the member list to the website, but I plan to add this to the staff masthead in each issue as well, where possible with space limitations. This should help visibility and accountability in *The Iron Warrior*, and improve our reputation as a student-run publication.

Arts Contribution: *The Iron Warrior* has often run a photo feature or arts focus in previous terms, but I'd like to expand that to written arts pieces such as short stories or poems where possible. I think it would be great if we can make this a

feature, and showcase creative outlets by engineering students (PDEng 45 anyone? Anyone?) Even if you're not a regular staff writer, I'd love your contributions.

Iron Warrior Patches: You may have noticed Iron Warrior stickers on pretty much everything in the office, including my personal laptop, thermos cup and forehead. Anything with that sticker has pretty much sold its soul to *The Iron Warrior*, and rightly so! So now I'm thinking of an update in the form of cloth patches - similar to those sold at Novelties for WEEF and Eng-Soc. I'm looking into costs/funding, but

Expect movie reviews, a new beer column, a gaming feature and the usual engineering news and events.

first I need a design! This is an official call for *Iron Warrior* Patch Designs! Submit your ideas, and we'll have a vote of some kind... I'll keep you posted on

when and where they can be obtained.

Fridge and microwave: These are actually items I'm inheriting from Kevin's term and a request to the Student Life Endowment Fund, but hopefully soon into the term we can stock up on freezies and pizza pops to fuel our production (ew gross-maybe I should read our Iron Chef feature more often).

Other features we'll be having this term include a summer blockbuster movie review, a *new* beer column by "The Brew Man Group", Jon Martin's continued Gaming Column, engineering advancements and innovations as well as the usual news, campus events and engineering social life coverage. In this issue specifically, the IW features the launch of the Herschel Space Observatory, the unveiling of the Formula SAE car, opinions on international issues and this year's NHL finals, a welcome from Gradcomm 2010 and the first official on-stream reports from the new EngSoc executives, among other things.

At the request of my roommates, *The Iron Warrior* will also aim to include flashing lights and free food as often as possible. Among other things I plan to construct a skylight in my office. Nevermind that it's on the second floor of a three storey building, I need solar power to produce this paper!

On a more serious note, I inherited some interesting issues coming into the term. *The Iron Warrior* advisory board is a similar concept to a Board of Directors for a major corporation: they provide advice and direction for the newspaper. The advisory board consists of members of the IW staff (current and incoming EICs), representatives from both Engineering Societies and two Student-at-Larges, who represent the average student. The advisory board usually receives an early copy of *The Iron Warrior*, and meets about twice a term. At the discretion of the EIC, past EICs may also have access to early copies for revision. Last winter, a graduating student and past editor submitted an opinion piece for the last issue, a parting shot as it were. While it raised relevant concerns of many graduating students, the tone and style of the document led to the decision not to print it. However, the real issue with "Sunnygate", as some have called it, was more the revision and voting process than the submission itself. Many advisory board

members felt that the influence of one individual had too much effect on others' decisions. While past editors-in-chief are an invaluable resource to the *Iron Warrior*, their knowledge can be limited to their own undergraduate experiences. Even in the last year, we've seen the graduation of the first PDEng students and drastic changes to the IRS. Students who had to go through these experiences will obviously have very different views from those who didn't have to, or have yet to experience similar issues or undergraduate struggles. In addition, the whole voting process on this opinion piece had to take place on a Monday morning of a publication deadline, by email. Things were messy, but in any case it's finished now. I have since met with the advisory board this term, and we had a long discussion about the issue and how to manage the membership of the advisory board better. The final verdict was as such: all advisory board members must be current fee-paying undergraduate members of the Engineering Society. This will not affect the day-to-day operation of the *Iron Warrior*, nor will it affect the content we publish. This change, and a few other minor things will be revised in the policy manual and I'll be presenting it for motion at the next council meeting Wednesday May 27. I have to be honest here and say this was a difficult process for me, not having had any experience with the Advisory Board or even Eng-Soc up to this point. Here at the *Iron Warrior*, it's baptism by fire or nothing at all!

Now back to more entertaining topics! I have made an executive decision that geese are henceforth banished to the Tin Soldier. Yes, they're stinky pests and their babies are cute but this isn't news anymore and I can no longer commit valuable layout space to our feathered friends. Unless of course I desperately need filler and my haiku/pull-out quote/photo collage tactics fail... Also, I promise to try my hardest not to turn the *Iron Warrior* into my personal blog, but again, no guarantees - what do you think this 1500-word wall of text on the second page is for, really?

Also, the *Iron Warrior* loves mail! Send us an angry letter, fan-mail, comics, opinions, anything! I'll give you bonus points if you send it by old-school snail mail, and you can level up by sending me on a scavenger hunt during production weekends! I should however let you know that if you choose to submit something as "Anonymous", I'm required by the *Iron Warrior* Policy Manual to actually know who you are. Your name will be kept absolutely confidential, but it's more of a legality thing, in case - God forbid - there were horrible repercussions on the topic or submission in question.

Congratulations if you read the entire editorial all the way to the end! It's considered an accomplishment and a compliment if you made it this far.

Cheers,
Michelle Croal

Disclaimer: The Iron Warrior hierarchy actually has less to do with clawing one's way to the top and more to do with being voluntold. "Hey you, wanna be Editor next term?"

THE IRON WARRIOR

The Newspaper of the University of Waterloo Engineering Society

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

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

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

Mail should be addressed to *The Iron Warrior*, Engineering Society, E2 2349A, University of Waterloo, Waterloo, Ontario, N2L 3G1. Our phone number is (519) 888-4567 x32693. Our fax number is (519) 725-4872. E-mail can be sent to iwarrior@engmail.uwaterloo.ca

The *Iron Warrior* Advisory Board consists of the following: *On-term:* Michelle Croal (EIC), Paul Fugere (Student-at-Large), Sarah Scharf ("A" President), Tim Bandura ("A" VP Internal). *Off-term:* Trevor Jenkins (EIC), (Student-at-Large position vacant), Cat Hay ("B" President), Laura Sisson ("B" VP Internal)

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Send your submissions to iwarrior@engmail.uwaterloo.ca

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June 3, June 24, July 8, July 22

GO Transit Coming to Waterloo Region this Fall



MATT CASSWELL
2B CIVIL

Last week, GO Transit and Waterloo region politicians announced that GO Transit service would be coming to the Region of Waterloo this fall, starting with four GO Bus park-and-ride facilities along the Highway 401 corridor, with the first being at the Highway 401 and Highway 25 (Hespeler Rd) interchange in Cambridge. The location of the other three park-and-ride facilities are still under review, but are likely to all be in Kitchener and Cambridge.

The project is being funded as part of a \$250 million federal/provincial fund for a GO Transit improvement project, which also includes other similar GO Transit expansions outside of its existing service coverage area, such as in the Niagara Region and Peterborough.

GO Buses will run from the region to connect with the GO Train station in Milton to bring commuters to downtown Toronto, though buses will continue to the GO Bus terminal at the Mississauga City Centre. The project is also being used to build GO Transit ridership before the expected expansion of full GO Train service into Kitchener by 2011. Initially, it is expected that the GO Buses will carry between 800 to 1,200 passengers daily,

providing a relief for congestion on Highway 401 during rush hour traffic between the region and the GTA. Approximately 10,400 people travel between the two regions every day for work. While the current expected numbers represent about 11% of the commuting population, that number could grow significantly once full GO Train service - which has a much higher passenger capacity - rolls into Kitchener. Numbers will likely grow even further if the region adopts its proposed rapid transit proposal, which it will be voting on in the coming weeks.

In total, the MTO is expecting to spend \$2.5 million constructing the four park-and-ride facilities. No expected route, prices, or expected time tables are yet available, but it is expected that they will both closely connect with the existing GO Bus service to Guelph, which has had on-and-off GO Transit service since 1990. A one-way ticket from Guelph to Union Station in Toronto currently costs \$11.45.

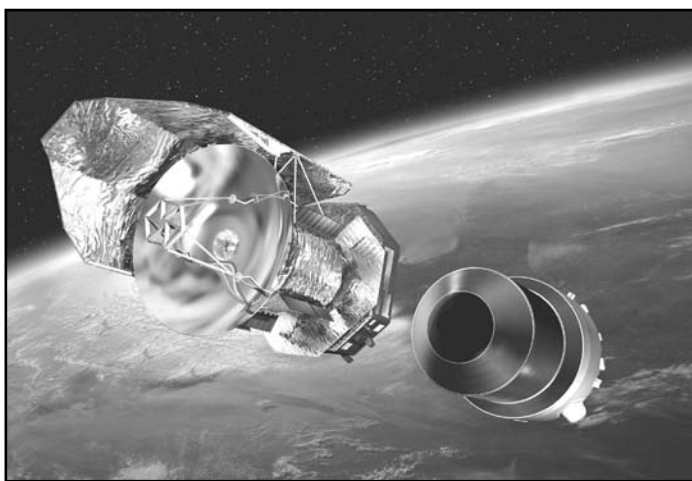
GO Transit is a crown corporation run by the government of Ontario, running a system of trains and buses covering an area of 8000 square kilometres, and serving over 7 million people in southern Ontario. The system currently runs seven rail lines radiating out from Toronto's Union Station, as well as a vast network of bus routes connecting small towns and major centres in and around the GTA. In 2007, GO Transit carried over 50 million people in the province of Ontario.

Herschel Space Observatory Launches Dreams

FAR INFRARED
from Page 1

Half an hour after its launch, the Herschel observatory contacted its home on Earth to inform that it has safely reached its destination. For the next four

years, data from the telescope will be received in Spain, while the control mission centre is in Netherlands. And back in the Humanities Theatre on Thursday morning, Dr. Fich was expressing his great excitement for the recent accomplishment: "This is great! This is wonderful!". Soon enough, he will start



Artist rendering of the Rocket separation

decoding the data sent by Herschel, the rewards for the fantastic work that he has done throughout recent years: "This is rocket science, you know. We are doing stuff that is really hard to do".

EDTW: Engineers Design The World

Nanobatteries, Less For More

ANDREW WONG
2B CHEMICAL

Writers Note: Everyday around the world, engineering is defining the basis of innovation in new technologies and advancements. These are to lead the next generation in solving the problems of today, before tomorrow comes. This column brings to light some interesting things that you may or may not know are happening in the world of engineering.

The sun has been around for millions of years, emitting radiation and rays of light that in the recent weeks have given us bright spring days. The energy emitted and harnessed by devices such as "solar cells" holds the potential for a sustainable and unlimited source of energy. I'm not here to write to you how we should all switch to this form of energy because it's become a recent buzzword, rather I want to outline a development that is carrying this technology one step closer

While You Were Out What Happened On Winter Term



MICHAEL SELISKE
2N COMPUTER

Just as the Fall term is full of meeting new people, the Winter term is for saying goodbye. The end of the Winter term means the end of an era with the 2009 graduating class moving on and the 2010s taking over as kings and queens of the castle. There were many events that occurred during the reign of Engineering Society B (B-Soc), but notably absent were the revelry and shenanigans which usually complement the Iron Ring Ceremony. This year was relatively mild with only a few notable incidents, including the theft of some dinosaur bones from EIT and a few fines for drinking on campus.

Many people returning to campus might notice that Engineering V has topped out at its maximum height and is now beginning interior work. On the other hand, the Quantum-Nano building is still undergoing foundation work and is slowly beginning to crawl out from its giant hole in the ground. The Win-

ter term saw two Waterloo Engineering students win both the male and female *Athlete of the Year* awards, the highest honour in varsity athletics at our school. 3A Mechanical student Tiffany Terrier won *Female Athlete of the Year* for her amazing contribution to the golf team, and Eric Dingle, a fourth year Computer engineering student won *Male Athlete of the Year* for squash.

All of the normal EngSoc events were run, including the OT parties, Semi-Formal, Genius Bowl, and more in awesome B-Soc fashion. This year, Bus Push was run by B-Soc, and an effort by about 30 engineers raised over \$3600. Sasha Averline, the VP Education of B-Soc ran a very successful work term report writing workshop which was well received by all who attended. A few more unique events ran last term including two D.U.S.T.E.Ds, curling, and a slew of inter-faculty events such as water polo, camp fires and semi formals. Also worth mentioning is the new audio equipment in POETS and a new TSN video camera.

The last term was a good one and I challenge A-Soc to make this summer even better!



Stuart Pearson

E5 tops out at its maximum height

to an industrial reality.

The main concerns with solar technology are the inherent problems of efficiency, cost of production and most importantly storage of energy to deliver enough power to satisfy surge demands. Recent advancements and attention to the application of nanotechnology to engineer advances in solar cells has opened the possibility to a practical sustainable energy infrastructure.

In March 2009, researchers at the Maryland NanoCenter at the University of Maryland have developed a new system for storing electrical energy from alternative resources that have shown up to 10 times greater efficiency than what is currently available. The new system is a nanodevice that is a battery with increased energy storage and combats the problem of unpredictable energy supplies derived from renewable sources. Conventional batteries and capacitors used for similar purposes cannot attain the level of energy density, power and rechargeable rate necessary for current and future predicted energy trend demands.

This technology hinges on the use of billions of identical nanostructures with shapes tailored to transport energy as electrons between surface areas of storage. Using properties special to nanote-

chnology such as self-assembly, self-limiting reaction and self-alignment, an array of billions of tiny, virtually identical nanostructures can

With this project, we are able to see engineering at its best.

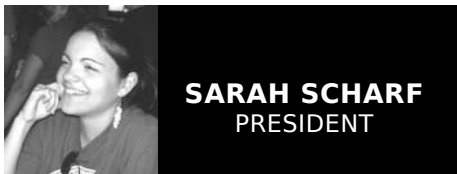
receive, store and deliver electrical energy. Through engineering and optimization of structures and processes of this renewable energy,

there has been an increased promise for the building up of our next-generation energy supplies. These nanodevices are expected to appear in mass production as well as in integrated technologies resembling thin panels or flat panel displays. Multiple energy storage panels could be stacked in batteries or solar panels to optimize the energy storage capacity.

Based on recent perception, the idea to turn to renewable energies such as solar energy derives from the idea of saving money and energy to better the environment. Though these are all long term commitments with many social and ethical questions attached, therein lies a promise of progress. In a rare combination of identification, collaboration and innovation, we are able to see engineering at its best. As we continue to walk through the tunnel of sustainable energy developments, nanobatteries may be an important key to powering the light at the very end.

ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



SARAH SCHARF
PRESIDENT

Good morning, afternoon, and/or evening to all (depending on when you read this of course)! I am Sarah and I am your Engineering Society President for this hopefully warm and sunny spring term. For those who don't know me I am in 3A Electrical and this is my first on-stream term as President.

I did give a somewhat lengthy goals presentation at the EngSoc meeting last week, so here I will give you a recap.

One improvement I would like to continue is to the atmosphere of the CPH foyer area. It is the hub of many engineering activities and the first place people see when they enter CPH. We began this development with the renovations POETS which were since completed. If you returned this summer and have not seen the changes I highly recommend stopping by for a look. The next phase of improvement is to the foyer itself. We are hoping to have the benches moved, possibly to outdoor locations, and replaced with seating more suited to the environment of gathering with friends and eating food from our Engineering Coffee and Donut shop. If anyone has any strong feelings or ideas, the Exec would appreciate hearing about them.

Something else that I know is an issue is the strained relationship we as students have with our faculty. I would like to work closely with you as students as well as with the Dean's office through Robin and the Dean himself to move in the direction of a relationship of mutual respect and understanding. The Dean will be coming to an EngSoc council

meeting and we will be giving him a list of topics we would like him to discuss, such as the Dubai campus and the PDEng review. This meeting will be a good time to ask any questions you have about Faculty issues. You can also direct those questions to me to escalate to him if you are more comfortable doing that.

One initiative I am hoping to get started this summer is a summer fundraising campaign, possibly for the Waterloo Food Bank. In the fall we have a Cancer fundraiser and Movember, in the winter we have Bus Push, so I would like to begin a new tradition of raising money for a local charity each summer.

I'm interested to hear what students' thoughts are on these topics and any other ideas/ concerns you may have. You can find me in the office or email me at asoc_prez@engmail.uwaterloo.ca. I hope to hear from many students this term, and get to know how people feel about on and off-campus issues. One final thing from your president, please visit our brand new EngSoc website, found at engsoc.uwaterloo.ca.



The EngSoc Exec – Just your typical family photo

Nadine Ferguson, Nicole Copeman, Ayush Gupta, Praveen Arichandran, Abhilash Jayakumar, Samantha Pinto, David Morris, Russell Sterrett, Sasha Smith, Abhay Jetly and Kevin Liu. We should be very grateful for having such a strong team of people who volunteer their time to make our education better in different ways. So take advantage of the education services that they bring.

With regard to PD-Eng, the PD-Eng independent review - designed to obtain feedback and advice from external agents - was finally accepted by our Dean and submitted for external review in March, 2009. The external reviewers consist of Chair of Professional Engineers Ontario and 2 retired Engineering deans. They are planning campus visits this summer to get more in-depth feedback from the students. This report will be made public when the external review is scheduled to be completed at end of this year. In addition to this, Jay Shah - Engineering Senator - and I will be working closely together to construct an online PD-Eng survey to collect your opinions about PD-Eng. The details

will be made available when ready.

Aside from trying to be a good VP-Education, I think more students should be part of our Engineering Society. Especially 1st year students; because you will be around for 4 more years and there are more things to explore in this campus. If Engineering Society is defined as the official representative body of all UW undergraduate engineering students, then the society must be diverse and inclusive. Anyone should be able to find something in common at our society. That's the kind of society I want to build. So if you have any new initiatives or you want to pursue your interest through our society, let us know.

Michelle Croal

VP Education Report



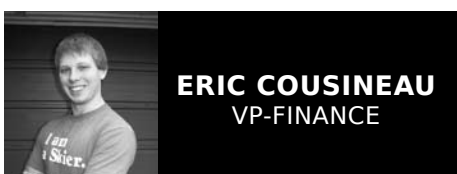
DAVID LIU
VP-EDUCATION

Hey A-Soc,

Hope your new term is off to a good start. I'm off to a busy start and I'm finding my ways to be a good VP Education for you. Sasha Avrelina, Engsoc B VP Education, has provided me with insightful information from last winter term and I'm looking to continue the role this term. Knowing the significance of this role, I will do my best to make the most out of this position during this term and this coming winter 2009 term. I will represent you at several high level academic council meetings with the Associate Deans and Associate Chairs of Undergraduate Studies to improve our program. So if you have something to say, no matter how small, just drop me a line at s14liu@uwaterloo.ca.

Our Education directors this term are: Anish Bhutani, Jessica Friesen, Abhay Jetly, Adriana Cameron, Kristine Campbell,

VP Finance Report



ERIC COUSINEAU
VP-FINANCE

COME GET YOUR WATERLOO ENGINEERING SWAG!

How quickly these first two weeks have gone amazes me, but time flies when you're having fun! I am really enjoying working as your VPF, and I look forward to the completion of several projects I have on the go.

I launched a Novelties survey through the EngSoc Mailing list, in April, asking the opinion of students on Novelties. With 83 respondents, and 3 winners of Gift Certificates, I would call it a success. Thanks to the survey, my priorities (in order) for Novelties this term will be: New Items, Display (Appeal of the Store), Advertising, and Female Sizes. New Items already in this term are, EngSoc Hip-Flasks (non-engraved), POETS T-shirts (Women's Fitted Sizes too), Black Sigg Bottles, EngSoc Logo T-shirts, Baseball Caps, Lanyards (With built in USB

Keys), Tool Shaped Belt Buckles, and Pilsner Glasses.

I am looking for people interested in Personalized Engraved EngSoc Hip-Flasks! If I can get enough people interested, I'll be glad to make an order. Sign one of the sheets located in POETS or Novelties.

Another exciting thing about Novelties is that the Online Store (www.engsoc.uwaterloo.ca) will be up by the end of the month, hopefully sooner! Soon you will be able to get Novelties while on coop as well!

I have made four goals for this term: increase the appeal of Novelties, optimize the distribution of EngSoc funds, look into getting more Event-A-Tron type billboards, and generally remain responsible and friendly in my role as VPF.

Last of all, and most importantly, I just wanted to remind you that Directorship Budget Proposals are due to me by 4:30 pm on Monday May 25th. The form can be found on our website or in the Orifice.

Show some Waterloo Engineering spirit, and wear one of our garments! :D
asoc_vpfin@engmail.uwaterloo.ca

VP External Report



MIKE MCCAULEY
VP-EXTERNAL

Welcome back to the summer term A-Soc!! I hope you are all as excited as I am for the amazingness that summer terms entail!

I'll start with some events that are coming up in the near future. Firstly, former Presidents George W. Bush and Bill Clinton are coming to Toronto on May 29 and will be speaking about the global and domestic challenges facing the U.S. and Canada. The Ontario Society of Professional Engineers (OSPE) is selling discounted tickets for ~\$200 - contact me if you are interested. Also coming up at the end of the month is a SKYDIVING event being put on by the Engineering Student Societies' Council of Ontario (ESSCO). It will be taking place May30/31 -contact me if you are interested.

As a quick refresher and for those of you who may not know, I am responsible for representing the Society outside

of the school as well as across campus. There were a couple events that took place during this past winter term that I attended.

The first was the Canadian Federation of Engineering Students' (CFES) annual Congress which was hosted by Carleton University in Ottawa at the beginning of January. This conference acts as the Annual General Meeting for the CFES and was focused on the "Lifestyles of Engineers". Five members of A-Soc had the opportunity to join engineering students from across Canada in attending informative sessions, workshops, planning for the year, as well as nightly socializing events. Secondly, the First Year Integration Conference (FYIC) gave 4 first years from A-Soc a chance to meet other engineering students from across Ontario and to learn a little more about ESSCO. Good times were had by all!

That's all for now! Feel free to come see me in the Orifice or send me an email (asoc_vpext@engmail) if you are interested in anything I've mentioned.

Peace out, Mike

ENGINEERING SOCIETY EXECUTIVE REPORTS

VP Internal Report



TIM BANDURA
VP-INTERNAL

Hey! IT'S SO GREAT TO SEE YOU ALL AGAIN!!! I CAN'T BELIEVE WE'RE BACK AND IT'S NOW THE SUMMER! I hope everyone had a great work term and you're looking forward to an awesome summer! So I'd just like to talk about a few goals I have for this term first. I'd like to increase attendance to a lot of events. They are a lot of fun and a really great way to relieve stress and take a break from studying! It's also a novel way to meet new friends from different departments and years! I also want to offer a lot of support to all directors. I am working on updating the online wiki available on our new website. Any other directors are welcome to drop by the Orifice to chat (I'm there most afternoons or I'll be in PO-ETS), or request me for assistance with setting up or clean up of events. I'd also like to improve on our records and organization of documents and archives. We've got a lot of old photos and documents lying around, and it'd be nice to make them available for the rest of the society.

Two weeks ago we had our BOT party, which was a great time! Everyone was on a BOaT! Some had their flippie floppies and their swimming trunks. Some got lucky enough to be lei-ed by a mermaid! There was a lei for all guests and the TOOL was out for a visit too! Last Wednesday was our first society meeting of the term, which went by rather quickly. We wore funny hats as exec, along with our coveralls. Come out to see more of our meetings when all of us as exec will have even better costumes!

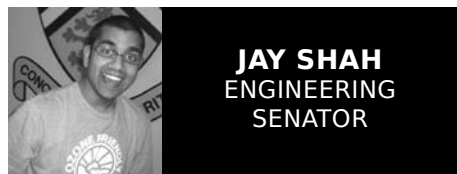
Last Thursday we also held our first Athletics pickup event: football. Although a small turn out, it was a lot of fun and plenty of game breaking passes, catches, and slides! There were also a lot of missed passes and wind-carried punts. I really hope to see you at some more of the upcoming pickup sports!

A**5, or A-soc's Almighty Awesome Alleyways Adventure, is a bowling event! It [takes/took] place [tonight at 8 PM/Thursday, May 21st], and [will be/was] a lot of fun! I [will try/failed] to bowl a couple strikes and [give/gave] it my best attempt to avoid the gutter. ****NOTE**** Just pick the verb tense appropriate based on the fact if you are reading this on Thursday, May 21st or not. Or insert your own verbs. I leave it to your imaginations!

We have some great upcoming events! Friday, May 22nd come on out to CIF ice rink for some free pickup hockey at 4 PM. You will need all of your own equipment (skates, helmet, etc.). Saturday, May 23rd is our annual dodgeball tournament! This event has always been a blast and a great success! Encourage your class to make a team! The following Wednesday is our second Engsoc meeting. Please come out and observe your exec dressed up as fictional characters (i.e. tooth fairy and Easter bunny) from childhood! As always, there will be lots of fun and free food. On Thursday May 28th, there will be Genius Bowl! It is another event run every term. It's a trivia game, so please make a class team to challenge the exec team! Check out our new website on the events page (<http://engsoc.uwaterloo.ca/events/calendar>) for more details or information on events!

Love to see everyone out! If you're walking by the Orifice at anytime, drop in and say hi!

Senator's Report



JAY SHAH
ENGINEERING
SENATOR

Last term, elections were held in order to select the 2009-2011 Engineering Senator. I strongly believe the election process showcased how many engaged, proactive and truly innovative students we have at Waterloo - it was wonderfully refreshing and I hope to leverage on this during the next two years in a quest for positive change within our faculty & university. A quick formal introduction; my name is Jay Shah, I'm in 2011 Tron Eng, and I will be your Senator for the next two years. I am going to do my utmost best to disseminate information from the senate level to all engineering undergrads, and most importantly get information from the undergrads back up to the Senate to ensure the changes made are in our collective best interest.

One of the big initiatives I am working on this term is to establish a survey regarding PDEng; some may say that this has already been done, but there's a twist. The last time this was attempted, 36% turnout was garnered. I'd like to run a survey (with significantly different questions), with a goal of 80% turnout. The statistical significance gained from an overall engineering undergrad opinion regarding PDEng will allow us to act with more certainty and confidence when it comes to working with PDEng to improve the program. (For all I know, maybe 50+% of engineering undergrads are actually satisfied with PDEng? I'm unaware of any definitive stats that say otherwise) This survey will be run through a secure medium, where every engineering undergrad (on both societies) will log in with their Quest ID/Pass

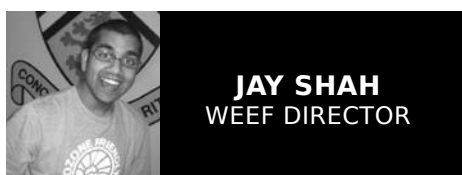
and get a single vote for each question. All responses will be anonymous. (Imagine a system very similar to the one FEDs uses in their elections) I will be working with David Liu (VP Education) in this initiative and we will keep you posted with developments - we hope to get the survey to you as soon as possible. I consider the survey setup to be the easy part; the 80% turnout is the hard part. **The power will be in your hands.**

My first Senate meeting has yet to occur (May 19th) - be sure to stay tuned for developments from that meeting. In the mean time, I welcome you to contact me about anything you think I should be pursuing on behalf of all engineering undergrads. I've love to hear from you. (jshah.uw@gmail.com)

Fact Grab Bag (I hope to make this a continuing part of my Senate updates):

- 1) 10730 offers in 2009, compared to 10583 in 2008 (UW wide undergrad offers)
- 2) 620 Visa offers, compared to 595 in 2008 (UW wide undergrad offers)
- 3) 16 active applications at the United Arab Emirates (Dubai) initiative
- 4) Ontario Government increased Co-op Tax Credit for Employers from \$1000 to \$3000
- 5) Completion of E5 estimated for Spring 2010
- 6) Completion of Quantum-Nano estimated for 2011 (no term provided)
- 7) 2008 Engineering Co-op Employment @ 98%
- 8) 6563 co-op positions filled in 2008, 13.4% were outside Canada
- 9) Engineering Undergrad Fall Term Enrollment at 5720 (Nov. 2008)
- 10) In 2007-08 there were 523 cases of Cheating and 74 cases of Plagiarism (in all UW undergrad - total enrollment 23142 students)

WEEF Report



JAY SHAH
WEEF DIRECTOR

Traditionally the first three weeks back are really busy weeks for WEEF Staff, however, as many have noticed, the door to the WEEF office have not been open around lunch time, as they have been year after year in order to accommodate donation returns.

Below is a recount of what has been happening for the past two weeks:

Student who would like to request donation return: "The WEEF door is closed!! This is madness!!!!"

WEEF Director: "No, this is SPARTA normal!"

Yes. It's normal. Don't Panic. Take a deep breath. In our mandate to serve students better, WEEF has transformed the donation return process (with the help of UW Finance) to an online process. It is now easier for students to request a donation return. Visit www.weef.uwaterloo.ca/refund_policy.html for more details.

The reaction to this process has been interesting. Some students who love WEEF are outraged that we are making it easier to request refunds. Some students who do not love WEEF as much are happy that their return can be ac-

cessed without a visit to the WEEF Office. Most surprisingly, some students requesting a donation return are upset that the system is conveniently online and would actually prefer to come into the office instead! The system is ONLY online; there will be no old paper system option. As of Fall 2009 all Endowment Funds on campus are being mandated to use the online system.

Submission of WEEF Proposals is just around the corner. If you are thinking of submitting a proposal this term, email me at weef@engmail.uwaterloo.ca and I will add you to the mailing list. If you have never made a proposal before visit http://www.weef.uwaterloo.ca/proposal_form.html to see just how easy it is!

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, that means your class collectively gets zero input into where the ~\$85,000 gets allocated this term, so it is in your best interest to get a rep. How can we know what your class/department needs/wants if you won't tell us or help us decide ;)?

Stay tuned for all the WEEF related dates in the next Iron Warrior Issue. Questions, comments or suggestions are always welcome. Email me at weef@engmail.uwaterloo.ca

Wishing everyone a WEEFalicious term!

Free Grad Photo Retakes for all Engineering Graduates!

Sign up at www.lifetouchatwaterloo.com
(519) 888-4567 x 37539

Lifetouch Photography
Room 104 Student Life Centre - University Of Waterloo

A Welcome From Your New Gradcomm

SCOTT HOOKER
GRADCOMM 2010

Welcome back for the summer term! Just like every summer, we're in that weird transition period between this year's graduating class and the incoming frosh class. Only a few short weeks ago, all of your '09 graduating friends departed (and if they didn't, then they're "sketchy grads") and made way for a new wave of students to make the big step into fourth year. With a new graduating class comes a new Gradcomm, ready to make the upcoming 2010 IRS and Gradball awesome for all of you fourth-years out there. So who is the 2010 Gradcomm? JD O'Leary and I (Scott Hooker) will represent A-Soc as co-chairs. B-Soc's co-chairs are Anna Lafoyiannis and Mark Cremasco. There are also a ton of director volunteers who are going to help us make all of this possible. Gradcomm is a separate entity from EngSoc—we're here to represent *everyone* who's graduating in 2010, and all the engineers are invited along for the ride!

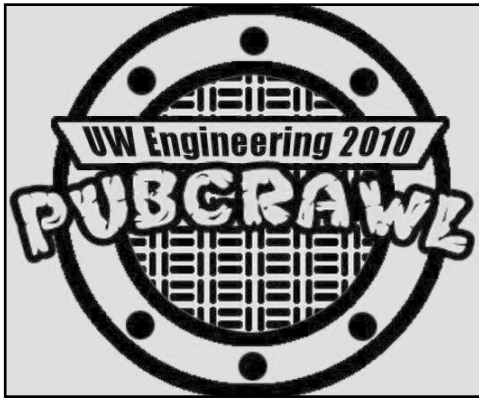
So what is Gradcomm going to do for you, the average not-so-fourth-year engineer? Well, first of all, we're going to continue with the legendary Gradcomm Pub Crawls a few times each term. There are,

however, going to be a couple changes. Unless you've been living under a rock for the past month, you probably know that The Silver Spur has shut its doors

for good. This is quite the predicament, since we have traditionally ended every pub crawl at The Spur for as long back as anybody living can remember. We've been tossing around some ideas with our directors, and one of the best

ideas seems to be to end the night at our very own Bomber. It seems to be the best pub in the area that has the required capacity for the end of the night. So, instead of ending in Uptown, our path will take us from POETS, through the plaza, uptown, back to the plaza, and to Bomber. I know that this seems like a lot of crawling, but let's face it, you could use the exercise after 10+ hours of drinking. Another idea that we had was to end at The Fox and the Fiddle. This was the format followed for the May 15th crawl due to the fact that

Bomber closes at 9pm on the Friday before long weekends. We're going to try out both ideas this term and see which works out the best.



Graeme Williams

In case you were wondering, the pub crawls this term are on May 15th, May 29th, June 12th and July 10th. You can get your shirts for \$15 in Novelties, the CPH foyer during lunch on crawl dates, and from the pub crawl directors during the crawls. Also, there is a good chance of multiple out-of-town crawls throughout the coming year. Our aim is for one per term. Where will the magic Gradcomm school bus take us? Guelph? London? Toronto? Stay tuned and find out!

So you say that you want a way of supporting Gradcomm outside of regular bar hours? How about purchasing some Gradcomm Pizza? It's back and better than ever! We'll be in the CPH foyer selling quality eats at dirt-cheap prices every Wednesday from 11:30 until 1:30 (or until we run out of pizza). \$2 gets you a slice and \$3 gets

you two. Also, if you frequent the EngSoc meetings, you'll notice that we have a 50/50 draw during every meeting. Throw in a couple bucks for a chance to win big! Half of the proceeds go to Gradcomm, and the other half go back to one lucky winner, so it really is a win/win situation.

Finally, if you're a fourth year and you want to give back by volunteering some time, we could definitely use your help! Right now we could really use people who are currently on campus for our fundraising committee. The commitment shouldn't be more than 2-3 hours per week and involves selling pizza every Wednesday, selling 50/50 tickets during EngSoc meetings, and coming up with other fundraising events to keep things interesting throughout the coming year. You can email gradcomm2010@gmail.com if you're interested, or if you have any other questions, comments, or suggestions for us. Also, be sure to check out our website at gradcomm2010.wordpress.com. We'll be updating this frequently with news on events and volunteer opportunities.

We're really looking forward to making 2010 the best graduating year that this school has seen in a long time. Hopefully, with your help, we can make this possible. See you all on the crawl!

I'm On A BOaT

Term Begins with Oceanic Awesomeness

STUART PEARSON
2B CIVIL

Get your towels ready! The Spring 2009 term started out with a bang, as engineering students gathered for a party of oceanic awesomeness. A-Soc was welcomed back to campus for the summer and to celebrate, this term's BOT party was themed around the song "I'm On A Boat". The popular tune is performed by Saturday Night Live members The Lonely Island and it parodies rap videos that glorify the



rich life and excessively large watercraft. It was the first time for many A-Soc

members to see the new POETS upgrades in action, including the renovated bar and entertainment system. More than half of the party's guests actually dressed up in keeping with the video's theme. Many people brought their swim trunks and their floppy-floppies. Inflatable dolphins, sailor hats, nautical-themed Pashmina Afghans, a mermaid, and even T-Pain made an appearance.

After the party was over, party-goers retreated to UW's own Bomber, since traditional post-OT retreat, The Silver Spur, was closed at the beginning of May. Definitely a great beginning to what is looking like an awesome summer term.



Stuart Pearson

Costumed characters enjoy the festivities at this term's BOT.

We Want You!

Task Team Volunteers Requested

TASK TEAM DIRECTORS
ENGSOCA

Task Team needs your help!!

Do you like tasks? Do you like being on a team? Regardless of what your answer to either of those questions is, you'll LOVE being a part of Task Team!

Task Team is a general, all-purpose list of awesome people who volunteer to be contacted by EngSoc directors when they need a little extra help with their events.

Here's an example scenario; suppose the Genius Bowl directors need some volunteers to help them judge teams' answers to their questions. They'll talk to the Task Team directors, who will send out an e-mail asking for help from everybody who's a part of Task Team. Task Team members who are interested in helping out will then reply to the Genius Bowl directors, who will give them something to do. It's that simple!

Other events that frequently require Task Team's help include Semi Formal, Resume Critiques, Course Critiques, and TalEng

Signing up for Task Team is a great way to get involved in various events that you might not otherwise have heard about or been interested in. You'll find cool new Engineering-related stuff to do, and feel a lot closer to the rest of your loving EngSoc family. Task Team is very low-pressure; being on the mailing list doesn't automatically commit you to doing anything, it's just a way of making sure that you hear about volunteering opportunities when they arise. We treat Task Team members who volunteer at least twice to an end-of-term dinner and a kickin' awesome t-shirt, so rest assured that your hard work and overall coolness won't go unrewarded.

If you want to sign up, or if you're a director who needs an extra hand, shoot an e-mail to task.team.s09@gmail.com

It's Genius Bowl Time!

GENIUS BOWL DIRECTORS
ENGSOCA

Do you get excited when you get Jeopardy questions right? Does something tingle inside you when you hear the phrase "random trivia"? Do you want to use your knowledge of random facts to win *FABULOUS PRIZES*? Then here is the UW Engineering event of the term with your name on it - GENIUS BOWL!

Genius Bowl will be run this term on **THURSDAY, MAY 28 from 7 to 10 pm** in DC 1351. For those who have been to Genius Bowl before, you know what it's all about. For those who are new, Genius Bowl is the infamous trivia competition, where your team competes against others to answer trivia questions to win *FABULOUS PRIZES*. The highest-scoring team wins the top prize.

A maximum of 35 teams are allowed, with a maximum of 6 members per team. Sign-up is first come, first serve. Everybody is welcome, not just engineers, so invite your friends from around campus to be part of your team. To sign up, e-mail

us your team name and members at GeniusBowlS09@gmail.com, or sign up at the Orifice the week of the event.

So, why should you come to Genius Bowl? Other than the fact that it is the most awesome event of the year, Genius Bowl will be providing the winning teams with their own personal economic stimulus packages. That's right, the winning teams will be winning *FABULOUS CASH PRIZES*! There are also bonus prizes for best costumes, most spirit, etc., so even if you don't win top, you have the chance to win another fabulous prize!

Ergo:

- *Who?* You!
- *What?* Genius Bowl!
- *When?* Thurs., May 28 from 7-10 pm
- *Where?* DC 1351
- *Why?* Fun! Excitement! Fabulous Prizes!
- *How?* E-mail your team (max 6 players) at GeniusBowlS09@gmail.com

We hope to see you all there!
-Your Genius Bowl Directors:
Adriana, Ann, Matt, Russ

Invisible Children and Fighting Indifference



NEIL PARTIDGE
3A CHEMICAL

Joseph Kony.

It was a little more than a month ago that I learned his name. Now, a mere thought invokes feelings of sadness and anger. Truly, Kony is one more example of humanity's capacity for evil.

Joseph Kony (of Uganda) and select members of the Lord's Resistance Army (LRA) are wanted by the international criminal court for multiple crimes against humanity. The charges, to name a few, are actions resulting in the abduction, torture, rape and murder of over 20 000 young children. What makes this even more sick? The children are forced to commit the same types of crimes to their former family and country, or face mutilation and death. These child soldiers are now referred to as the "Invisible Children", since their identities and existence are untraceable. Kony and the LRA based these actions as "acting in accordance with God" in hopes of forming a theocratic government.

I often wonder, how I could NOT know about Joseph Kony? After all, if we reference the beginning of the rebellion in

1987, this story is over 22 years old. Why did it take so long to register? I would love to blame someone or something other myself, but that's simply not true. Put simply, I was both ignorant and partially indifferent in youth to international issues. However, I believe that maybe this could be another step in "coming of age". As I look at Waterloo campus, I realize my recent epiphany is common to many others.

There are indeed groups of students who discuss every imaginable issue whether environmental, religious or humanitarian based. Many contribute whichever way they can to make a change. As an optimist, I hope most people keep similar values for their fellow man, although my concern is that there are still many others who might be indifferent or reluctant to take action for a cause they believe in. I am by no means a martyr, hardcore humanitarian, or strict environmentalist, but simply one who wants to learn more and become educated about the world we live in.

Therefore, with as little preaching as possible, I propose we all perform one simple task. Learn and mentally summarize current world issues. Hell, Wikipedia will even work fine (that's mostly what I use). I believe that ignorance and indifference is perhaps the sole reason why Joseph Kony and the LRA are still in existence, and as university students, we are in an optimal position to make a difference.

If you want more information about Joseph Kony and InvisibleChildren, check out invisiblechildren.com. There are currently massive efforts to raise awareness, and stop child soldiers for good. The movie is bound to pluck some heart-strings and maybe even inspire an opinion piece to IW.



Invisible Children

Displaced Ugandan children await hope and recognition.

International Exchange Plan Now - Think Ahead!

PETER ROE

DIRECTOR OF EXCHANGE PROGRAMS

If you are in 1B or 2B this term, now is the time to plan to go on exchange and study in another country at one of our partner universities. If you're in 3A, it's not too late, but you'd better hurry. Many people come to me and say something like: "I didn't hear about Exchange in time, and my friends who went can't say enough good things about it."

We have over 60 exchange partners around the world with opportunities to immerse yourself in different cultures and customs, different organizations of study and education, different languages. The experience you can gain on exchange is invaluable, and the opportunity can pass you by if you don't think now about how you can seize it.

If you are in 1B you still have time to get prepared to learn enough of a new language to live and learn in it. For the more faint-hearted, we have lots of exchanges where lectures are in English, but you can realize the full potential of the exchange experience by going to a place where you will imbibe both the language and the culture of your hosts. And to prepare, all you have to do is learn a little of the language in advance - a couple of beginning courses is usually enough.

Let's look at opportunities in France and Switzerland. Guess what - they teach in French. When you come back you'll be able to speak read and write the first language of millions of Canadians, and be prepared for a career in such organizations as the Canadian Space Agency, Bombardier, SNC Lavelin, or the Canadian Diplomatic Service. With French you have a real advantage, because almost every Canadian learns some French in primary or high school. True, you may have dropped the language as soon as you could, because not all French courses in school are taught by stellar teachers. But that little bit is enough to get you started, and you will learn the language the painless way, by living there. We have agreements with some of the top engineering schools in France, and the best one in Switzerland. This is an opportunity well worth the effort.

How about Germany and Austria? You need to learn some German, from scratch! But Germany has one of the most advanced technological systems in the world; it is the leading economy of Europe, and learning its language is not that hard. Austria was the capital of the most powerful European empire for centuries; the musical, artistic and historical milieu should not be missed, and you can live in it while studying at the best technical university in the country in Vienna. Moreover, about 60% of English

Us, All of Us Engineers Without Borders



SAM VAN BERKEL
4A CIVIL

While for most of us the beginning of summer means heading back to classes or starting at another engineering firm, two UW Engineering students have decided to do things a little different this year. Gajan Sathanathan and Rob Sparrow are two of Engineers Without Borders' newest overseas volunteers and just recently set off for what will be three and a half months of incredible challenge, questioning, perseverance and - above all - learning.

EWB works in four countries in Africa:

Ghana, Burkina Faso, Malawi and Zambia. Volunteers are either long term or short term. Long term volunteers are university graduates who commit to at least a year in their host country, but often stay two, three or even four years. The goal of the long term overseas volunteer program is very much about achieving measurable results on the ground. Volunteers partner with an existing organization, which can be either a division of the government or a local non-profit group.

The relationship is something like management consulting - EWB volunteers provide their partner organizations with a unique set of capacity building skills and offer a valuable outside perspective. At the same time, EWB volunteers attempt to draw upon the wealth of local knowledge that their coworkers hold - knowledge that can only be gained through years of living and working within an organization and a culture. The process is about strengthening local institutions and building opportunity within communities.

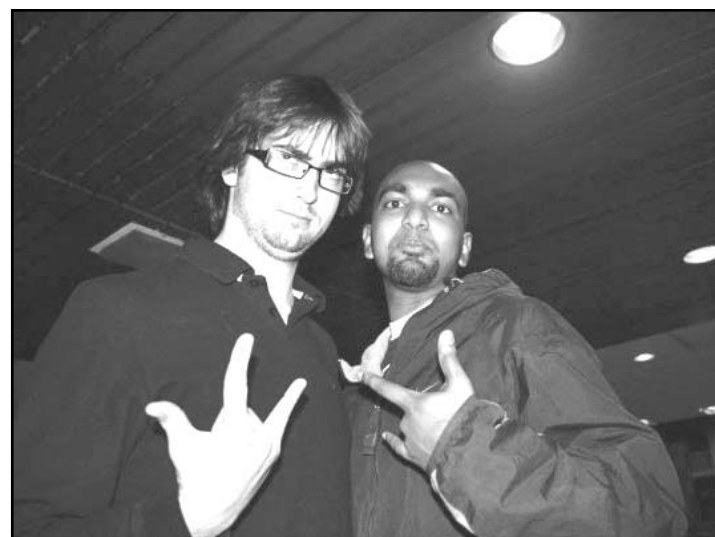
Gajan and Rob are short term Junior Fellow overseas volunteers. While most Junior Fellows are incredibly focused on how they can create change within their partner organizations, many are also realistic about how challenging this can be in less than four months. Rob, who will be working with a water and sanitation project in Malawi, writes in his latest blog entry:

"I'm going to [Malawi] with the belief that I have some skills, some knowledge, or some understanding that I can use to create change. This also means that I

think I have something that [my partner organization] is currently missing. [I am] remembering that I have so much to learn about the water and sanitation sector, operations and maintenance models, livelihoods in the community - the list goes on! Pre-departure [training] has given me the confidence that I will be approaching my placement with reverence for the knowledge of the people I'm working with and respect for how they live their lives."

Gajan, who will be working with the local government in Ghana, echoes a similar sentiment about humility and the need for collaboration within development:

"It was pretty amazing, the way the superficial barriers we created sort of fell apart when we were all put in a tough situ-



Rob Sparrow

Rob and Gajan enjoy a joke in Canada before leaving for Africa.

ation together. I feel like it's a good analogy of the development industry, and how much more effective we are when we stop thinking of it as 'Us and Them' and more as just 'Us, all of Us'."

In many ways the Junior Fellow program is about strengthening the connection between people who might otherwise feel worlds apart. While Gajan and Rob have a momentous challenge ahead of them in their volunteer placements, we all have a challenge to learn as much from their experience as possible. You can start by visiting their blogs or asking them a question at uwaterloo.ewb.ca/volunteers.

The Waterloo chapter of EWB also holds a number of events related to international development throughout the term. Everyone is welcome, engineering or otherwise, and details are always available at uwaterloo.ewb.ca. Most importantly, EWB is about far more than just sending volunteers overseas, so whether you love organizing events, working with high school students or telling grocery store shoppers about Fair Trade bananas, there's almost guaranteed to be an interesting way to get involved.

words are derived from Germanic ones, making learning German easier.

Next, consider Mexico. You need to learn Spanish, but our exchange programs in Mexico make it really worthwhile. We have a new exchange in Puebla for Nanotechnology students, and our exchange in Monterrey is with what is said to be the best technical university in Latin America.

Then there are our exchanges in Japan, China, Taiwan and South Korea. You need to learn the language, but you'll be studying in lands with ancient cultures and modern technology. Think about it.

I've mentioned only nine countries so far. We have exchanges with many more. Most of the remainder offer courses in English, despite their native language. If you go to the Czech Republic, Norway, Denmark, Sweden, Finland or the Nether-

lands, you'll still get to live in a country with its own distinct language, and you'll pick up some of it, and that's better than nothing. And if the very idea of a second language is totally scary, you can still go on exchange to Australia, England, India, Ireland, Singapore or Wales, and get most of the advantage of exchange.

"The main thing is - don't let the language scare you off! If you work hard, you won't have any problems on exchange - in the end it's absolutely worth it. The bottom line is, exchange is one of the best things you can do while you're in university, and if you don't go you'll definitely regret it!" So says Sherman Wong from Computer Engineering. Sherman spent a full year on exchange in Germany, and he had to learn the language from a base of nothing at all.

Farewell Silver Spur

**TREVOR JENKINS &
CAILIN HILLIER**

1T MANAGEMENT & 2N GEOLOGICAL

At the end of last term, the engineering family suffered a terrible blow. I will always remember where I was when I first got the news: "The Spur is closing." Over the course of its 13-year lifespan, the Spur treated us kindly, accepted our wild ways, rowdy behaviour, and terrible singing voices. Who could forget the chanting of "SpuuuuUuuuur, spuuuuuuur, spuuuuuuur" at the end of every 'OT? I can distinctly remember attending many a Spursday, watching as my guy friends dared one another to talk to the mysterious and oh-so exuberant Laurier girl, generally to no avail.

Many on campus and in the community have been left wondering why the local landmark would be closing. Anyone who attended The Spur's last day can attest to the large number of diehard Spur fans in the community who were willing to shell out \$20 for a pitcher and 3lbs of wings. Clearly the profit being generated wasn't a problem, as anyone who tried getting in after 11pm on a weekend could tell you.

According to an article published in *The Record*, The Spur site was purchased by local developer Jeff Zavitz, who currently owns a large number of buildings in and around Uptown Waterloo. Having no plans to actually develop the site, Zavitz offered Spur owner Tom Ferguson the opportunity to continue renting the site. However, Ferguson decided to make a "clean break" and take the money. Like many who are reading this, we are heartbroken to know that The Spur could have lived on and on and on and on.

With so many unforgettable nights (and even more that cannot be remembered), The

Spur will go down in the memories of every engineer who graced its western-themed interiors. With its beer soaked floors, and pool tables stained with unidentified fluids, the sights, sounds and (unfortunately) smells of The Spur will continue to live as distinct memories in our university lives.

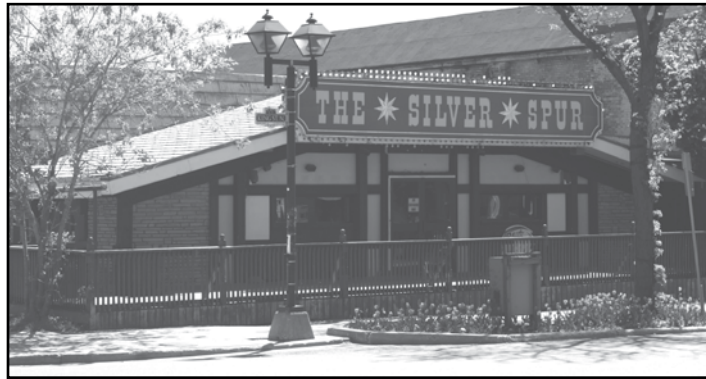
The most distinguishing feature of The Spur had to be the karaoke stage. Who can forget flipping through the poorly laminated song books, which seemed to have absolutely no logical method of song listing? That one-of-a-kind thrill of writing down your song choice, name, and the names of your reluctant friends who have conceded

to being dragged on stage with you, and then wondering if you'd get onstage before you left, with excessively beveraged anticipation. And finally the adrenaline rush when your name finally got called and you stumbled on stage to show everyone what you've got

to offer (-or not); probably the only chance many engineering students would have had at feeling like a rock star. With such staples as "Respect", "Man, I feel Like a Woman", "Love Shack", and "that song you totally know all the words to but can't remember the title of," the song variety was extremely limited - and don't lie, you loved it just as much as we did.

Just to add onto all the trauma of losing one of our favourite watering holes, we are now faced with an even harder dilemma. We must now figure out where to end one of our most cherished events: The Pubcrawl. Having been the natural finale for many a crawl past, due to its huge capacity and liberal tolerance towards the inebriated, we are now at a loss to find a replacement. While other establishments like The Fox and The Fiddle, Dooley's, and The Bomber all have the capacity to take in the hoards, none have proven to have the finesse to handle us all.

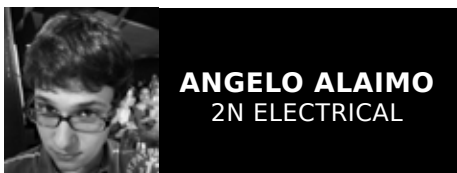
So before we start going into individual accounts of what may or may not have gone down at The Spur, leading to incriminating evidence and infractions of the IW publication standards, let us leave you with this: Don't stop believing!



Stuart Pearson

The Spur- empty now, but not forgotten.

Thoughts on Americans



ANGELO ALAIMO
2N ELECTRICAL

My flight, United Airlines 474 with service to Vancouver, just took off from San Francisco International Airport, marking an end to a short but satisfying end of term trip through California.

For the last six days, I visited several cities - San Francisco, LA, San Diego, San Jose, and Palo Alto. It was my first "real" trip to the U.S. as in the past I have only taken a short shopping day trip to Buffalo. Of course, I had stereotypes of Americans ingrained in my head from watching television, movies and reading/hearing other's opinions/ horror stories online.

The most common stereotype I expected to encounter was Americans are a rude, inconsiderate bunch of people. Sure, with the amount of people one will encounter on a trip, at least one or two will be rude - everyone has a bad day now and then. Instead, I found Americans in California are by far some of the nicest people I've encountered in my travels.

I'm not basing this entirely on my sole interactions with Californians, but also my observations on how they interacted with each other. On my last full day in California, I took a shopping trip to a mall, and saw a young lady help an elderly man in San Jose while waiting at a bus stop after his papers began flying everywhere in high winds. The elderly man was very grateful

for her help and thanked her generously.

Californians, for the most part, do hold doors - definitely at a higher rate than I have experienced at Waterloo. Also, when asking a question on the street, most people are glad to provide help without arrogance or smugness. Probably the coolest person I met apart from my friends I visited was a taxi driver who drove me to a Caltrain station. For the entire 10-minute trip, he took me on a mini tour of landmark buildings without my request, and helped explain the social issues of the city's seemingly high street population. I tipped him well upon arrival at the station.

I would also like to mention that San Franciscans seem to have excellent driving skills. Perhaps it's highly developed patience when dealing with slow driving tourists like me, or those extremely steep hills. While navigating our way out of the city to head down to LA in our rental, I noticed how considerate each person was. I can't say I was ever cut off, even though I was driving slower due to unfamiliarity. Although drivers were mostly decent all over Cali, driving skill seemed to plummet on LA's entanglement of freeways during rush hour. Thankfully, my 401 skills more than enough prepared me for the challenge.

Overall, I'm very glad I took this end-of-term trip to the States; it really gave me a firsthand view on the inaccuracies and unfairness of stereotypes. I now wonder how it must feel for Americans, when discovering Canadians aren't a bunch of drunk, maple syrup-drinking, igloo-living, "about"-saying, hockey-playing lumberjacks.

Movie Review: Star Trek



CAILIN HILLIER
2N GEOLOGICAL

This weekend I saw the new Star Trek movie- the movie that every Trekkie has been anxiously awaiting in hopes of a possible revival for their beloved series (be forewarned of possible spoilers; just saying). The 11th feature film instalment of the Star Trek Series has been highly anticipated, bombarding every form of media out there over the past while. I, however, have never watched anything to do with Star Trek before this weekend and yet was compelled to go see this movie. I went in dreading the idea of watching a Star Trek movie full of Sci-Fi things and ended up being pleasantly surprised when I actually enjoyed it!

Although the general plot seemed somewhat predictable and reminiscent of a lot of movies where the main character feels alone and faces adversity, there were several twists to the story. For instance, since when were there two Spocks?! That threw me off for a while, even more so than attempting to really understand how Hermione's time turner works. And when they met at the end, the reaction was very ... well, Vulcan-y (ie. emotionless and unexciting). Oh, and just wondering, did anyone else

here know about Winona Ryder being in this movie at all before they went to see it? That seemed really random; she plays Spock's mom and makes about a 5-minute appearance. Overall, the plot was a combination of WALL-E (because it was in space - whoa!), Independence Day (with all of the fighting the evil Romulan Nero in that spiky ship-that did not look like Eric Bana at all by the way), and a Discovery Channel special (that was definitely because of all the black hole, warp drive, and beaming-up explanations).

This movie was hilarious though! I really appreciated the witty repartee between its characters. Kirk was a self-assured character that threw caution to the wind, resulting in many interesting encounters with Spock, girls, and a whole host of interesting creatures. The way in which Spock and Kirk toyed with one another's intelligence and emotions (or supposed lack thereof) was very amusing. Kirk being chased by that giant polar bear/ wolverine animal after being abandoned by the Enterprise was really great thanks to his incredulous self-dialogue. One particular character stood out for me in this film. Personally, Simon Pegg playing Scotty made this movie and I suggest everyone see it just for him. To stop ruining everything about this movie for someone who hasn't seen it yet, I will stop writing. But now I finally know the difference between Star Trek and Star Wars.

POETS

MOVIE SCHEDULE

SHOWINGS BEGIN AT NOON

Thursday May 21 Bowling Day!	Friday May 22 Bartender's Choice	Monday May 25 James Bond Day!	Tuesday May 26 Inside Man Vantage Point Jumper	Wednesday May 27 Pleasantville Clockwork Orange 1984
Thursday May 28 How I Met Your Mother	Friday May 29 Bartender's Choice	Monday June 1 POETS Programmer Picks	Tuesday June 2 Johnny Depp Day	Wednesday June 3 The Bourne Identity The Bourne Supremacy The Bourne Ultimatum

POINT VS. COUNTERPOINT

POINT

COUNTERPOINT

Should Facebook be Used as Evidence in Court Cases?



JON RADICE
3A CHEMICAL

Facebook is one of the premier and most commonly used social networking sites out there. The most important word that everyone should not forget is the fact that it is a **social** site. The items, links, articles and pictures, once posted on the site, have lost their sense of being a private entity. And heck, the reason why that item is posted on Facebook is to show it off; from

that awesome week-end at the cottage, to a ridiculously long chain letter about your in-depth relationship past, the sole purpose of anything on there is to share it with someone else. Facebook is tailored to that; to make sharing with anyone as easy as it can possibly be. And it's not only people you deem your friends that get to peep in on your worldly achievements. The defaults for many different articles that can be published, pictures, videos, notes and more are set so that not just your friends, or even friends of friends can see it. No, the default is that **everyone** can see it. Without modifying your settings Facebook is designed, by default, for anyone to look at your private life.

But this isn't a surprise. For as long as I've been going to UW, I've heard the horror stories that employers check applicants' Facebook pages for wrongdoing. And I don't see the problem in that. Facebook is your social projection of your life in probably the widest forum you can readily accept. Every application, every picture, every gift, every wall post is a reflection of yourself to the world. With the amount of time that we as students spend on Facebook, chances are that Facebook may just be the best (or at least the most conglomerated) shadow of yourself. It's not you talking to you, it's not even you talking to your friends, it's you talking to the world.

So at least cover your tracks.

I'd like to think that the older-than-us adult population is not as oblivious as they seem. If someone was to do any investigating on a person, Facebook is the best bet to go. With timestamped pictures, a list of friends, and sometimes, and a nice detailed history of the person's status and whereabouts, Facebook can easily paint a quick picture of your life for any investigator to look at.

But is it right? First off, I am a huge opponent to the "Well, if you don't have anything to hide, you'll be safe" mentality that is the reason for many measures imposed upon us in the name of "anti-terrorism" but

Facebook is different. Facebook is mediated by yourself, and not someone else. You control what people can see, what pictures to put up, and how much of your life you spill into it. If you have something to hide, for God's sakes, HIDE IT! No matter how sweet/epic/bro-that's-so-cash you look in that picture of you and your buddy robbing a convenience store, resist the urge to put it up as your display pic. You feed the monster that is Facebook, and you control how much the world sees of you. The bad guys aren't trying to pry into your life, like a security camera at the street corner - you're shouting it right at their faces. Posting it is your own doing, your own photos and your own fault.

So it's easy detective work from their standpoint, and you are pretty much handing it to them on a silver platter. Some things should be kept private, including most of your illegal misdoings. Should lawyers be allowed to view it? Well, make them get a warrant to search your effects, but don't pin it up in a public forum (and yes, almost everywhere on the internet is a public forum) and cry "Invasion of privacy" when the wrong person looks at it. Privacy means kept to you, not shared with 400 semi-acquaintances to whom you barely cared enough to click the "accept friend" button. If you're inept enough to keep it from surfacing on Facebook, chances are they would have gotten you some other way.

Not everyone has to know about everything. That is your choice. Now if you'll excuse me, I'm off to delete all those pictures of me chugging whiskey dressed as a 1930s prostitute.



JOONHA SHIN
2B MANAGEMENT

I don't particularly like the idea of lawyers snooping around my profile on Facebook. I say this because currently, lawyers are allowed to use anyone's Facebook account as valid cross-examination material. I'll explain my point of view from two different angles, one being the invasion of privacy, the other being the questioning of Facebook as valid evidence material.

Facebook or any other social network websites can contain very personal and private information that you wouldn't want to share with anyone, except maybe some of your closest friends. If you use Facebook often, you can probably agree with me that there are, or there has been at one point, some pictures on your Facebook account that you would not want your siblings, parents and your cur-

he did not make available to the public. Although I do not know the results of that court case, I am sure that that man is now very careful with how he uses his Facebook account, if he even uses it at all.

The current law allows Facebook or any other social networking sites as evidence material. Does this mean that one should just blindly follow it without questioning it? I think not.

It should be noted that information on Facebook is not reliable. Evidence in court must be dependable and should be based on absolute truth. However, information on Facebook can be largely fabricated with few strokes on a keyboard and a click of a button. This includes person's name, birth date, and uploaded pictures. As more cases that involve use of Facebook content as evidence in court arise, people will start to notice, and they will have the opportunity to use Facebook to distort truth and manipulate their information to their own benefit in court.

Let's say for example, that "Bob" gets into a car accident in which the other party was mostly at fault. Bob is seriously injured and cannot move freely and is no longer independent. Due to this, he experiences a loss of active social life since he can no longer partake in activities that he normally enjoys doing. This would include going out with friends for drinks, playing sports or hanging out at a friend's place. Bob decides to sue the insurance company for general damages, pain and suffering, and loss of social life. However, Bob recovers at a faster rate than his doctor anticipated, which results in an improved social life towards his court date.

During the trial, the defendant lawyer of the insurance company decides to check out Bob's profile on Facebook and finds out that Bob has been tagged in many pictures of him hanging out with his friends. He finds photos of Bob drinking at a bar, playing pool at a friend's basement, having a good time. Using this as evidence to counter Bob's claim of loss of social life, Bob's case is foiled and he receives much less compensation than he expected.

This story could have been very different, if Bob had anticipated that the defendant lawyer would be snooping around on his profile. He could have uploaded pictures of him in bed, watching TV alone or eating dinner by himself onto Facebook, while he is actually out partying with his friends. This would have actually strengthened his case on the loss of social life, and perhaps he would have won instead.

The point I'm trying to make is that information on Facebook can be too easily changed to one's favour depending on the situation and its validity is extremely weak. For now, using Facebook information as evidence court might be effective since it isn't expected. Some people are even careless enough to leave their profile content public, so that anyone with a Facebook account can view their full profile.

In the future, lawyers going through your Facebook profile will be expected and people will have the option to use this opportunity to turn the case in their favour.



Thanks to Facebook, this could be your downfall in Court.

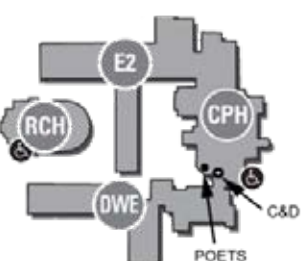
Michelle Croal

MORE THAN JUST COFFEE & DONUTS


.....

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

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



ENGINEERING SOCIETY



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

rent or potential employers to see. The obvious argument against this is that users of Facebook should be more careful and understand the risks and possible consequences of uploading their information on Facebook. What that sounds like to me is that you should not be posting any embarrassing photos, any over-the-top, personal, or funny wall posts on your friend's wall, any information about yourself that can indicate what you've been doing lately, your contact information, your current employment status or past employment history, your interests, your education background and who your friends are - if you aren't ready to take on the risks. Hell, why bother even using Facebook? In the login page of Facebook, following statement is written in big bold letters: "Facebook helps you connect and share with people in your life". Yet, every user is expected to understand that using Facebook could potentially ruin you in court. I feel that Facebook is sending two very different messages to its users. Sadly, there has already been a case where a judge has ruled a particular man's Facebook account as valid cross-examination material, including contents

The Brew Man Group: P  ch   Mortel

**NEIL PARTRIDGE &
DAN ARMSTRONG**

3A CHEMICAL & 3A MECHANICAL

Welcome to the very first review from the Brew Man Group. When we found out that Rory Arnold, author of *The Iron Warrior's* "Better Know a Beer" column, was graduating this spring, we decided it would be an awesome idea to try to take on the responsibility of bringing lesser-known beers to UW Engineers and Architects. Plus, this seemed like the perfect opportunity to take our beer pretension to a whole new level while also ripping on each other in a public forum. We hope you enjoy our beer adventures.

Dan: P  ch   Mortel (French for "Mortal Sin") is an Imperial Coffee Stout coming in at a mighty 9.5%, made by Brasserie Dieu du Ciel (DDC). DDC is a microbrewery and brewpub in Montreal that was started in 1998 by a couple graduate students who decided brewing great beer was a better use of time than studying microbiology. Fellow engineers, have some respect for these fine gentlemen. They brew beers of all

styles and strengths and have become one of Quebec's most popular and respected beer producers. This past semester, I was lucky enough to live in Montreal within walking distance of the brewpub and was there on a regular basis, doing my best to not become an alcoholic. The brewpub has over 75 recipes and there are about 15 on tap at any given time. I enjoyed their beers so much that I had Neil make the long trek to Montreal to stay with me for a weekend of (responsible) drunken debauchery. I'm pretty much the nicest friend ever.

Neil: Dan thinks he's the nicest friend ever, but in reality I had to sleep on a hardwood floor beside the garbage can. I will say though, the beers were worth it. P  ch   Mortel is one of Dieu du Ciel's most popular brews, and arguably one of Canada's best. As mentioned, it is an Imperial Coffee Stout. To break that down, "Imperial" describes a beer that is relatively strong and higher in alcohol. Stouts are dark, bitter ales, with Guinness being a common example. Stouts typically have rich flavours derived from roasted malts, which can result in some mild coffee undertones.

Some brewers decided to exaggerate that flavour by adding coffee beans to their stout recipes, with the result being a "coffee stout". These beers are sometimes also referred to as "breakfast" stouts, just in case you want to justify drinking beer when you sit in class, blurry-eyed at 8:30 in the morning (perhaps at the next pub-crawl?). Here's what we thought of this particular coffee stout.

Dan's thoughts: Immediately after cracking the bottle, I got a big whiff of bitter coffee. It looked great after being poured into the glass; pitch black body (honestly, light could not escape this) with a medium tan coloured head that gave off lots of coffee aromas and maybe a bit of alcohol. The beer tasted amazing. Lots of espresso right upfront, then some alcohol warmth and a bit of sweetness from the roasted malts. You're left with a pleasant bitter coffee aftertaste that forces you to keep sipping. Only small sips though, the amount of flavour in every little gulp is incredible. Of the few I've tried, this is by far the best coffee stout I've had. At 9.5% though, you don't need more than one or

two of these, especially if you have a Neil-sized tolerance. [5/5]

Neil's thoughts: It's unfortunate that Dan and I thought similarly about this brew; we were hoping to discredit each other's opinions. In terms of appearance, I can make an almost direct comparison to coffee brewed using a french press. Nice dark, full body with a tan coloured head (crosses fingers for future wife). Truly, the most standout qualities of this brew are distinct from the first sip. Strong and delicious espresso subtly fades to a warm burn, typical of beers with such high alcohol content. P  ch   Mortel succeeds in drinkability where many other coffee stouts fail. I highly recommend you put this beer in and around your mouth. Unfortunately it is not yet available in Ontario, but rumours say it should be at the LCBO this fall. Too bad for Dan, I suppose he'll have to stick with his Coors Light and Frulli. [4.5/5]

Recommended to consume if you enjoy: Guinness, St-Ambroise Oatmeal Stout, Mill Street Coffee Porter, espresso.

Props to hops / Dan and Neil

The Future of Gaming Gaming Politics



JON MARTIN
OBI JON1138

Anyone who has played a substantial number of games will have heard of the constant "studies" linking videogames with violence, then they will subsequently ignore them. The problem arises when people who don't play videogames, and don't understand the world of video games, find out about those "studies" and decide to act for the good of the children. Not to say that protecting children is a bad thing, far from it. People need to understand all the issues and every side of the debate before they can presume to have the answer to all of life's questions - even if the answer is 42.

For that purpose I will be discussing some of the political issues surrounding videogames, and the laws that have been enacted to protect our delicate minds. Most gamers will groan or laugh when I mention Jack Thompson, but what would you say to being jailed for buying a game?

Jack Thompson, now a disbarred attorney in Florida, is infamous in the gaming world, also acting as a convenient punch line to almost any joke. Thompson initially attempted to enter politics before switching to campaigning against non-Christian values in the media. Mainly focusing on video games, specifically the Grand Theft Auto series, Thompson has attempted to introduce legislature to ban stylized depictions of violence in video games and their sale to minors. Employing legal threats and questionable tactics - such as sending his underage son to buy a copy of GTA just to prove how easy it was - has led to some major problems for the lawyer. On the basis that his laws would infringe on constitutional rights Thompson's licence to practice law has been rescinded. In an attempt to regain his licence Thompson put in an appeal to have the motion dropped; ironically his appeal was thrown out because he needed to have a licence in order to submit it. Until Thompson can regain some measure of power we probably won't be hearing from him any time soon.

Staying with the American theme,

since all our games are rated and distributed the same way American laws have pretty much the same affect north of the border anyway, the new president is changing some views of videogames. President Barack Obama is one of the first presidents to actually address video games and add a game system to the White House. The Obamas now enjoy playing Wii while at the White House; hopefully President Obama can bowl better in a virtual world. As for political views, Obama hasn't focused specifically on video games, whether positively or negatively, but he is the first president to mention them in a national address. In an address to Congress President Obama said "In the end, there is no program or policy that can substitute for a mother or father who will attend those parent/teacher conferences, or help with homework after dinner, or turn off the TV, put away the video games, and read to their child. I speak to you not just as a President, but as a father when I say that responsibility for our children's education must begin at home." What the future holds for the North American video game industry in President Obama's hands remains to be seen.

This brings me to my final issue, an interesting law from down under. New Zealand has long been one of the strictest countries in the world when it comes to censoring and banning video games. Now it is at the forefront in punishing people for buying mature games when they are under age, or more accurately, punishing their parents. A law in New Zealand sets the punishment for allowing a child access to a violent video game is a three month jail term or a fine up to \$10,000. While the law is already in effect nobody has been charged under it, probably due to the difficulty of upholding the law without invading people's homes. What will be more detrimental to a child, playing a video game, or living in an orphanage for three months?

There are lots of interesting laws around the world to battle the "evil" spread of video games, from censorship, banning the sale of the product, to jail time, as well as many others. Look up some of the international laws and you will be surprised and entertained. Let's just hope we can still legally play games in a few years.

n Awesome Things About the Summer Term



ALEX GIROUX
4A MECHANICAL

Ah, summer is upon us, and with it comes questions of what your plans for the summer are:

Dude: So, what are you plans for the summer?

UW Engineering Student: Well, I'm a co-op student, so I'll be on campus taking courses all summer.

Dude: That must SUCK.

I have been that UW Engineering Student, and I'm now a week or so into my last school term on campus. Yeah, there are plenty of times when I would have rather been on a beach or camping, but when you really start to think about it, taking classes during the summer isn't as bad as it seems. For those of you who still don't believe me, I've compiled a list of n Awesome Things About Summer School Terms:

1. Air conditioned computer labs!

Computers don't like heat, and neither do students trying to study. Take advantage of it while you can; next summer you could be working anywhere, and that anywhere might not have HVAC.

2. Barbecuing.

If you do not have access to a barbecue, I highly recommend you change this. BBQs are the source of much deliciousness, even if you're vegetarian. Who knew roasted asparagus was so delicious? I didn't. Then I was on campus in the summer.

3. St. Jacob's: Speaking of barbecuing, if you've never been, you should get out to the St Jacob's Farmer's Market at least once this summer. Barbecued steak and veggies tastes pretty good to start with, but it tastes even better when it's locally grown and sold in an open air market.

4. It's not cold. Yeah, ok, this is an awesome thing about summer no matter what you're doing. But when you really think about it, it's so much easier to drag yourself to campus for that 8:30 class when you don't have to put on five layers of clothing first.

5. Summer events! The biggest one I can think of off the top of my head is Canada Day, when Engsoc puts on the kid's carnival north of campus. Bonus: Seeing your classmates get knocked into the dunk tank by a little kid. Extra Bonus: Watching me hobble around the week after Canada Day because even though I put on sunscreen, I still burnt my legs and can't bend my knees. You're allowed to laugh, I do this about once a summer and have a pretty high pain tolerance as a result.

6. Patios. On a Friday evening, there's nothing more enjoyable than sitting under an umbrella watching the sunset with a cool beverage. It's so much nicer when you're not crammed into a tiny pub - doubling the square footage available for seating can never be a bad thing.

7. Actual weather.

QED.
And so with that, I leave you so that I might take advantage of the air conditioning in Wedge to do my CFD assignment.

Parking Lot Puzzle

AL GRANT
3A SYSTEMS DESIGN

Over the past work term I had the good luck of using a car occasionally. I was going to a display of my local sports team, and had to park my car in a horribly expensive parking lot. The parking lot worked by giving each stall a number, written on the asphalt, and then having the driver punch in the number at the meter and pay (the exorbitant price). I found my number to be 108, but as I got to the meter I realised that I could have been looking at my number upside down! Was it 801 or 108? The only way to check was to go back to my stall

and inspect the numbers around it.

At this point, I wondered why they didn't use a clearer font, and what the odds were of me getting an upside down number!

Considering it was a giant parking lot with numbers 1-1000, where digits 1,2,6,8,0 could be mistaken for upside down 1,5,9,8,0 respectively, where the numbering system goes 1,2,3,4, ... 998,999,1000 and we know that 001 is not 1; How many lots could be mistaken for being upside down?

Pro Tip: number 285 looks the same upside down as right side up... so there is no mistaking it!
(Solution next issue)

And Then There Were Four: Conference Final Matchups



JON RADICE
3A CHEMICAL

Anyone who has sat and watched a full game of hockey this playoff season has witnessed something spectacular happen. From Cinderella stories to giantkillers, to battles between the best, and even massive meltdowns, these playoffs have been non-stop action for us hockey fans. The second round proved itself to be quite the battle for the teams with three of the four series lasting the full seven games. Now we are down to the final four; with the Pittsburgh Penguins facing off against the Carolina Hurricanes in the East, and the Detroit Red Wings squaring off against the Chicago Blackhawks in the West, and boy, are we in for some good hockey.

The Pittsburgh Penguins, fresh from their defeat by the Washington Ovechkins are continuing to grow stronger every day. As much as I love bashing Sydney Crosby at any given point, I'll have to admit that his 3 point performance in game seven versus the Capitals is proof positive that the kid has got the mind and chops to be the best player in the league. Coupled with the offensive talent of the recently-awoken Evgeni Malkin, Crosby is poised to make quick work of all offensive chances. With

great third and fourth line support and tons of toughness, the Penguins are showing that they're THE playoff team in the east. While shakey in some spots, Penguins' net-minder Marc Andre Fleury knows when to make big stops and to keep the team in it. Not an easy team to be matched up against in the finals.

Now, let me get something straight here. I like the Canes. I have no problem saying that Eric Staal is a playoff god for his team, that Jussi Jokinen is one of the most surprising success stories this playoff season, and that Cam Ward makes playoff magic whenever he's between the pipes. But let's be honest here, they should have never got past the Devils in the first round, thus eliminating my all-year bro-crush Zach Parise from a potentially landmark playoff run. This team is a bunch of sneaky, scrappy, never-say-die bunch of warriors, but they can only be so lucky for so long. But it's expected that they're not going to go down without a fight. The giant killers that they are, Carolina can only steam forward with a white-hot goalie for so long. For me, I'm thinking the Pens will take it in 5.

In the other conference the defending Stanley Cup champion Red Wings have done little to change their winning formula of last year. With the only major addition this year being the elite European sniper Marian Hossa, the Red Wings appear to be last year's playoff-devouring shark with

a laser beam strapped to their head. But after battling a hard-fought seven games with eighth-ranked Anaheim, it's hard to say if this beast of a team can keep the forward momentum needed to feed its killer instinct.

That being said they have the Playoff winning pedigree and tried-and-true method to make it into the second round. The often big question mark for Detroit usually surrounds the goaltending of Chris Osgood, and these playoffs have proven that he can still stand up to the pressure of playoff hockey. The slacking play of



Jonathan Newton

Capitals center Laich and Penguins center Staal face off in Game 6.

star centre Pavel Datsyuk thus far is cause for concern, but luckily his teammates, especially last year's playoff darling Johan Franzen, are picking up where he left off. This team is just as strong as they were a year ago, and they have no intention of

passing on another trip to the finals.

Not if Chicago could help it. The one noticeable shortcoming was that Detroit had a hard time containing the young Anaheim line of Ryan, Getzlaf and Perry. With Chicago, youth and speed are found on all their lines. The outstanding first line of young Patrick Kane, Jonathan Toews and Patrick Sharp are built for speed, and may just be too much for the aging Detroit defence. Combine this with a second line consisting of the deadly speedy sniper Martin Havlat, and the Detroit defence will have a lot to keep them busy in the upcoming games. Add third line line-backer Dustin Byfuglien and the Detroit team starts to look old, slow and frail. The main problem with Chicago really stems from their lack of playoff experience as a whole, especially on their defence core. Outside of the Stellar Brian Campbell, no other defenseman has had any real playoff experience, and the tough Detroit offense might be too much for them. I'm torn at calling who will win the series- the fan in me really wants Chicago to make it, but the realist in me says Detroit is just too much. I'm going to predict Detroit in 6, but I'm not happy about it. But don't worry, Chicago is only getting better with each passing year.

But I'm sure this round of the playoffs will up the ante on an already intense 2009 playoff journey.

The Iron Crossword

MATT CASSWELL
2B CIVIL

1													
13													
15													
17													
20													
27													
33													
37													
43													
47													
50													
52													

Crossword Clues

Across

- An obligation to do something
- Certificate awarded by a technical school (pl.)
- Capable
- Immature fruit (hint: add "-st" to the end of the word)
- _____ mom.
- Describes animals without teeth
- Type of rice
- Root of the word "estoppel," or 'electronic stop'
- Old English/Icelandic letter: Ð, ð
- Pro wrestler Hulk _____
- A baby seal
- "____ what?"
- Opposite of off.
- Another word for "okay"
- A Ship in Battlestar Galactica
- A type of rough cloth (pl.)
- Describes something having an inward motion
- John Steinbeck's "____ Mice and Men"
- Symbol for Helium in the periodic table
- Meetings your mom went to when you were in elementary school.
- Italian opera composer in the 19th century (Rigoletto, Nabucco, La Traviata)
- Standard imperial units for measuring pressure
- British coins (as opposed to "cents")
- Metric foot used in poetry (short syllable followed by a long syllable)
- Teh Interwebz
- Guys who have issues keeping girlfriends will have a lot of these
- To make something last for eternity
- What you order food off of at a restaurant
- To recover or turn in (coupons) (past tense)
- At, on, or towards the leeward side (sailing)

Down

- An indecisive answer
- German submarine
- A form of aqueous winter accumulation, between snow and water.
- Usually a 4 month duration in university
- Another way of saying "Caused by"
- A shade of Blue (and a bookstore)
- Opposite of "post-"
- Sheets, towels, cloths, etc. are considered this
- Decision to do something (pl.)
- The type of pie that Tourtiere is considered to be
- To amaze
- Geographic term for flat and arid land (pl.)
- Pirates say it as a greeting
- The Engineers of insects
- A quiet or timid person
- Cost incurred due to using a service
- A Canadian invention that keeps your coat done-up
- The Triple _____ was made between Great Britain, France, and Russia in 1907.
- The past-tense version of putting a plant in the ground.
- Record of Employment (abbr.)
- To do something on a sudden idea or impulse... to do it on a _____
- In architecture, the part wide, central area in the area above a column
- The author of 'Twenty Thousand Leagues Under the Sea'
- Passé
- The smallest item of information ("coloured-square") in an image
- A background or setting, especially in a play
- A problem
- Soft wax found on the beaks of some birds
- British Engineering Manufacturer's Association (abbr.)
- ____ Chimpsky, a singing chimpanzee from Columbia University.

The Iron Chef Strawberry Crisp

AMRITA YASIN
3A CHEMICAL

Ingredients:

Topping

- 1 1/4 cups flour
- 1/3 cup sugar
- 1/3 cup brown sugar
- 1/4 tsp salt
- 5 ounces chilled butter

Fruit Mixture

- 1 1/2 pounds strawberries
- 1 tbsp plus 1 tsp flour
- 2 tbsp sugar
- Juice of half a lemon

Method

- Preheat the oven to 350F.
- Beat flour, salt and sugars. Cut butter into 1/4-inch cubes and add to the flour mixture. Beat until the butter is pea-sized and coated with flour. Do not let the dough come together in a ball. Set aside at room temperature.
- Wash, dry and quarter the strawberries. Add the lemon juice, flour and sugar and toss all together. Pack the fruit evenly on the bottom of the baking dish and top with the flour mixture.
- Bake for 30-40 minutes until the crumb topping has browned and the fruit is bubbling beneath. Serve with ice cream/custard for a yummy treat!

The Iron Sudoku

MATT CASSWELL
2B CIVIL

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

Welcome Back

LEAH SICZKAR
1B ENVIRONMENTAL

Something renewing in the colour of green.
So oddly soothing and strangely serene.
Just to sit in the blades amongst all the birds.
To prolong this perfection, far from student herds.
The summer will whisper its calming suggestion.
And the time of year provokes an often-thought question.
What a dream would life be to exist and not worry?

Drag our corpses to class in a bustling hurry.
We'll do nothing but stress 'til the end of our days.
Grass will wither to winter, taking comfort away.
Oh how we wish that time would slow down.
Provide opportunity to sigh with the ground.
And breathe. And let the wind tickle our necks.
Avoid competition. Repel the complex.
No matter the longing to bask in the sun,
The reality is: spring term has begun.

profQuotes

- "We have Rx's everywhere! It's a pandemic!"
- Dr. Robert Gracie, CIVE 205
- "There was a reason we taught you that shit (referring to 2B Calculus)"
- Marios Ioannidis CHE 322
- "You don't fall in love, you climb there."
- K Greenaway. PSYCH 101

THE IRON INQUISITION

"What is your emergency escape plan in case of a world catastrophe?"

Milena Beloia-Cheres, 2B Civil



Andrew Doherty
1B Environmental
"Get away from swine flu"



Jason Jayakody
3A Chemical
"Drop out and take an Arts Degree"



Cailin Hillier
2N Geological
"Learn how to fly and live with the penguins"



Brian Houser
3A Mechatronics
"Going on exchange to Germany (to escape from the catastrophe that is 3A Mechatronics!)"



Niel Mir
3A Environmental
"Go into a bunker filled with tinned food"



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