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THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

VOLUME 30 ISSUE 11 | WEDNESDAY, SEPTEMBER 30, 2009

Waterloo, Meet Your New Provost



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Full Frosh Week Coverage



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From Rome to Calgary, and beyond

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<http://iwarrior.uwaterloo.ca>

Frosh 2009: An Epic Week of Mayhem



Chris Gilson/Engineering Aerial Photo Committee

E6 Groundbreaking Draws A Crowd

E5 Loses Limelight to Newer, Sleeker Building



ANGELO ALAIMO
2B ELECTRICAL

On Thursday September 24, the groundbreaking ceremony for Engineering 6 (E6) took place in parking lot B just east of the under-construction Engineering 5 (E5) which previously broke ground in June 2008. Adel Sedra, Dean of Engineering; Peter Braid MP

for K-W; John Milloy, MPP for Kitchener-Centre and Minister of Training, Colleges, and Universities; Meg Beckel, Vice-President, External Relations; and Ramila Peiris, Chemical Engineering graduate student, each spoke in front of the crowd which included administration, alumni, government officials, students, and members of the community.

Once completed, the bio-chemical/bio-

medical, green reaction, polymer science, and material science research groups, and about one half of the Chemical Engineering department will be spread out over the 113,000 gross square feet of the new building. E6 will provide these research groups, currently located within

See **BREAKING GROUND** on Page 7

More New Buildings!

Student Complex and Health Services Expansion Up For Vote

TREVOR JENKINS
2A MANAGEMENT

At the September 23rd Engineering Society meeting, it was announced by Federation of Students (FEDS) President Allan Babor that plans are currently developing for a new Student Services Complex and an extension to Health Services. The announcement was in conjunction with the official launch of the promotional campaign, including a website that can be found at studentspace.uwaterloo.ca.

The new student services complex would be a 3 to 4 storey building located in parking lot H, the lot at the northwest corner of University Avenue and Seagram Drive. The building is a joint effort between the FEDS and the Graduate Student Association (GSA). It would be completed in 2012 or 2013.

The building would include new student services such as a second "Great Hall", grad student lounge, movie theatre, food and retail outlets, bookable meeting rooms and a turn-key operation. In addition, many academic services currently on-campus would be relocated or expanded into the building including the Visitor's Centre, writing clinic, and counseling services.

A major motivation of the plan is to enhance graduate student services and provide them with more space. With the university's ambitious plans to expand grad student enrollment, the current shortage of social space for the

See **MORE SPACE** on Page 7

Letter From The Editor

Random Rambling from A Sunday Night



TREVOR JENKINS
EDITOR-IN-CHIEF

The beginning of another Fall term means only one thing: THE FROSH ARE EVERYWHERE! The beginning of another fall term also means that every student team/club/group/organization/cliقة/cult is fighting to recruit new members. There's no better time to get involved for the first time, whether you're a new eager frosh who sees more to university than just getting a degree, or a bitter upper year who's coming around to the idea of getting more out of their education than just what's on the blackboard or in their textbook.

As a completely shameless plug, The Iron Warrior is always looking for new members to help out. Whether you want to write a regular column, cover an upcoming event, take photos, or help us with layout, we're always looking for help and content! We have meetings every Monday at 5:30pm in the Iron Warrior Office (E2-2349A). FREE FOOD! If you can't make it, send us an e-mail at iwarrior@engmail.uwaterloo.ca to get on our mainlining (formerly mailing) list. If you don't want to make a full commitment, but still have something to say, either send us in an article or letter. My philosophy is that if you send us in an article, we'll publish it if we have space (and the content meets the guidelines set out in our Policy Manual).

I'd like to take the chance now to thank all the current Iron Warrior staff, both on-campus and on co-op, for their help with getting content for this week's issue. Without their hardwork and dedication, this issue would not have come together so smoothly. I'm also proud to say that we have a lot of new members this term who seem energized so expect awesome things from us this term. (Not to gloat or anything).

Some of the cool changes are already starting to appear. Be sure to check out our awesome Frosh Week coverage and photospread on pages 8-9. As well, Andrea Murphy from 4A Architecture started a new series of articles on her experiences during Architecture's 4A study term in Rome. Finally, I strongly recommend you read about Om Pantage's interview with the university's new provost and VP- Academic, Feridun Hamdullahpur.

Writing this editorial was something I was really looking forward to doing when I first agreed to be editor-in-chief this term, but now that I'm typing it here I have not much to say. The rest of the newspaper has been done since 7:30pm on Sunday night (a new record from my two terms of helping on production weekends) but I'm sitting here blank. Actually, I did more/less write another entire editorial but it's content will be better suited to a future issue than the first one.

So due to my complete lack of ideas at this moment, I have decided to write about...drum roll...ME! That's right, random facts about me that you didn't really care about knowing but that I'm telling you anyways. (I swear that all my future editorials will be a lot more awesome).

So without further adieu, here we go.

1. I'm Intolerant

Ever since coming to university, I've become lactose intolerant. It's annoying because you wouldn't believe how much stuff contains milk and its by-products. The most surprising for me has to be the extra juicy hot dogs. Barbecue season sucks when you have to decide between eating a hot dog and having to take a 50 cent lactose pill, or sitting hungrily at someone's patio party.

2. I'm RCM Certified

I went to a school of the arts back in high school and everyone there always talked about all the different Royal Conservatory of Music certifications that they had. Me, not really coming from a musical background at all, didn't have any (on top of not really having any idea how to play piano). In a lame attempt to try and fit in, I ended up practicing like mad for my RCM performance exams and as a result, I now have my Grade 10 RCM Performance Certification in Clarinet. Since graduating high school, I have never once picked up my clarinet, and have no intention of ever doing it. The only thing the certification now does is cause random conversations during interviews.

3. I'm a Transit Geek

I don't know why, but for the longest time I've been a complete and utter transit dork. Whenever I travel, a large part of deciding where to go is based on what modes of public transit they have and how often I can ride it. I'm full of useless transit related facts that no one cares about, but I tell them anyways. The best part of coming to Waterloo though had to be the fact that I've found people almost as dorky as I am. No longer will I have to be shunned to the depths of on-line forums to have intelligent transit conversations.

4. I Never Really Wanted to Volunteer With *The Iron Warrior*

I didn't get involved with The Iron Warrior until the fall of 2008 when a good friend of mine, Stuart Pearson, was Editor-In-Chief. He had asked me the term before if I could give him some help using InDesign CS2 since I'm familiar with the program. When I went in for the first production weekend, I figured I'd give him a basic crash-course, and stay around for a while in case something came up. For some reason, I never left and stayed on that term as Layout Editor, and then under Kevin Ling in winter 2009, did both Layout Editor and Assistant Editor and the rest is history.

5. I <3 Frosh Week

I had so much fun during my frosh week that I knew I wanted to be a leader. I find the week so amazing be-

cause you can pretty much just go up to anyone and start a conversation and it doesn't seem weird at all. Any other time of year, it would seem sort of weird, but during frosh week everyone is so relaxed and carefree. It's like a really cheap vacation with all your friends and thousands of other people who you can make your friends. I *STRONGLY* recommend becoming a frosh leader. Orientation Leader Training sessions are annoying, but once you get them done the first time, you never have to do them again.

6. My Byline Looks Nothing Like Me

The byline photo that I use looks nothing like me for the most part. That photo was taken at the Toronto Ferry Terminal right after my last high school exam. Some friends and I headed out there to relax and unwind for a bit. Even though I don't look a lot like it anymore, I still use it because I'm not motivated enough to go and get a new one. I have a feeling I'll probably milk it for a while longer until strangers start calling me out for the discrepancy.

It's Sunday night and I'm tired so I'm going to try to start wrapping this up now. Sorry for the lameness of this editorial but I promise bigger and better things to start coming in the next four editions of the term. Just a reminder to come to our next Meeting (on Mondays at 5:30 in The Iron Warrior office). We're a great way to get involved, and we're very flexible.

One last bunch of thank yous to say. A big thanks to everyone who provides financial support to The Iron Warrior. Since we receive no fixed funding from a student fee, we would not exist without the kind support of advertisers, the Waterloo Engineering Endowment Foundation, Engineering Society (A & B), the Student Life Endowment Fund (SLEF) and Mary Bland. Mary is amazing. Just know that!

Thanks for reading my rambling and I hope you enjoy this issue!

Letter to the Editor

RE: Frosh Week

The leaders and coordinators of this year's frosh week put a lot of effort into making this one of the best frosh weeks at Waterloo. They worked hard to decorate the classrooms around campus, including the basement of RCH. I want to give my deepest apologies to these people for my acting immaturely and ruining their hard work. I want to especially apologize to the leaders of Dark Blue and Light Brown frosh groups, whose decorations and props I carelessly damaged. It is not fair to take the frosh week experience away from the first years by spoiling the decorations. For this I am extremely sorry.

- Name Withheld

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.

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I Prank, Therefore I Am



Angelo Alaimo

A 1984 Plymouth Horizon mysteriously showed up wrapped around a birch tree in-between the BMH Green and the SLC during Frosh Week activities. The car was transplanted sometime during the overnight hour by a group of unidentified students on September 11th. The car has "Don't Drink and Drive", "Do It Live" and "ERTW" sprayed painted on different sides and features a large "This project was partially funded by WEEF" affixed to the hood.

While it is unknown who perpetrated the prank, there is speculation it may have been committed by engineers. Wrapping cars around large, stationary objects has been a classic North American engineering prank for over 40 years.

Waterloo Invaded!



JON MARTIN
2A CIVIL

Saturday September 19, 2009 (arrgh!) saw the residents of Waterloo host the Royal Medieval Fair in Waterloo Park. The festival was located in a small field, surrounded by tall trees, limiting the view of any modern distractions. With vendors, volunteers and enthusiastic patrons dressed in period costumes, it was easy to forget what time you were actually in – until you see Dana Porter poking through the trees ruining the illusion.

With a price of admission of \$5 for adults and \$2.50 for children, the fair offered events and attractions for all ages. Children were able to compete for tokens to trade in for prizes; challenges included using a battering ram to knock down the castle gate, launching projectiles from a scale catapult, archery, mock sword fighting, and many more.

Of course there was a tavern for the adults to enjoy while the kids waged their mock battles. In addition to the kids events, there was a multitude of food and arts vendors. The sight of the whole pig roasting on a grill – while the booth itself sold turkey legs – was a little weird, but fit the atmosphere perfectly. Two blacksmiths showcased the construction of tools and weapons as well as chainmail armor, put into good use by the competitors in the Festival Competition. One thing that ruined the illusion was two 'knights' doing a mock fight – with flimsy foam swords. Celt-

ic dancers and live singing added the sounds and sights of the medieval times to Waterloo Park.

Craft vendors were ready to supply patrons of all ages with period costumes and mock weapons, ranging from wooden swords two feet long, to full size forged weapons including broadswords, rapiers, and muskets. Unfortunately the prices attached to these amazing replicas were well outside the average student's price range – though they would definitely make an interesting conversation topic.

With amazing costumes, interesting booths and activities, the Royal Medieval Faire was an amazing event; definitely check out a medieval festival in the future if you get the chance.



Jon Martin

What Went Down While You Were Out



ADRIANA CAMERON
2T MECHANICAL

While you were likely stuck inside your cubicle on your co-op term this spring, A-Soc was on school term and a lot of events

happened. Let's start by talking about what happened at EngSoc meetings.

Acting Dean Leo Rothenburg came to the second EngSoc meeting to discuss several issues. The first one that he talked about was the PDEng independent review. He informed us of who the reviewers were, and assured us that it would be coming out soon.

The next major issue that he addressed

was the Dubai Campus. He spoke about enrollment at that time, the facilities, and how the new campus would affect students studying in Waterloo. After spending two years in Dubai studying either Civil or Chemical Engineering, students will come to Waterloo. Acting Dean Rothenburg said that more professors will be hired, which means smaller class sizes and more available choices for electives. He also talked

about some of the challenges that the Dubai campus was facing such as a very different education system, and also human rights concerns relating to migrant labour and gay rights.

The final issue that the acting dean discussed was the university wide plan to shorten Orientation Week. His main message was that all of the events will still be present, but the times will all be shifted.

During the third and fourth EngSoc meetings of the term, a lot of time was focused on how to allow Nanotechnology students and students from other 8s or 4s streamed programs to hold executive positions on EngSoc. After much discussion, a committee of students was put together to come up with an amendment that would be fair and practical. The suggested amendment allowed students in an 8s or 4s program to run with a partner. For a lot more detailed information on the amendment suggested by the committee, check out their PowerPoint on the EngSoc website.

Onwards to some of the events that happened over the summer term. The very first Waterloo Engineering Competition (WEC) ran in the spring term. Students competed in Junior and Senior Design competitions, and Consulting Engineering competitions.

All of the typical events ran this term. BOT, MOT, and EOT, had themes of "I'm on a Boat", the Australian Outback, and 1980's Instructional videos respectively. We even got to enjoy the nice summer weather by taking advantage of the POETS patio. In addition to OTs, spring term's DUSTED also allowed for participants to dress up in cheesy costumes as the theme was a hippy masquerade.

Spring term also saw a 1940's Swing themed semi formal. The engineering jazz band, With Respect to Time was kind enough to stop by and play some swing music to kick off the dance.

This term's TalEng took place in the Bomber. Engineering students showed off their skills in dancing, singing, bartending, guitar, and ukulele. There was also several coffee houses in spring term where we saw more of the musical acts that engineering students had to offer.

There were many athletics events that ran this term including a dodgeball tournament and weekly pick up sports including soccer, ultimate, beach volleyball, and football. A bowling night at Waterloo Bowling Lanes also ran in the spring term.

Spring term's edition of the termly trivia event Genius Bowl was won by a team consisting of the 3A Geological students named "Naughty & Gneiss".

EngSoc celebrated Canada by hosting the mini Olympics at the University of Waterloo Canada Day Celebrations. These mini Olympics consisted of a waterslide, an obstacle course, a dunk tank, a potato sack race, a sponge race, tug of war, and a water balloon toss. The Tool even made an appearance, and kids were given the opportunity to dress as a tool bearer.

During spring term there were also a fair number of purple people wandering around campus. These people agreed to dye themselves purple in exchange for pledges for the Alzheimer Society of Canada.

A lot of great events happened over the spring term, so I apologize in advance because there is probably some event that I forgot.

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The Joint Event on Education Extravaganza!

CAILIN HILLIER, ERIN MATHESON, REBECCA PINTO, SAMANTHA PINTO
2B GEOLOGICAL, 2A CHEMICAL, 2T CIVIL AND 3N CIVIL

While those of us on co-op were clinging to our last few work-free weeks before school started, a serious milestone occurred not so close to home. Ten undergraduate engineering delegates from across Canada, including four from UW (Cailin Hillier, Erin Matheson, Rebecca Pinto and Samantha Pinto), travelled to Brno, Czech Republic from August 25th to September 5th to take part in the first ever Joint Event on Education between CFES and BEST.

Many of you are familiar with CFES, or more lengthily known as the Canadian Federation of Engineering Students, as the national undergraduate engineering student society that oversees Engineering Societies across the country, but not so familiar with its European partner, BEST. Standing for the Board of European Students of Technology, BEST is in many ways very much the European equivalent of CFES. BEST has 82 Local BEST Groups (often called LBG's) scattered across 30 countries within Europe. These LBG's operate very similarly to how our own EngSoc operates, offering services to its members and maintaining connection with central executives of BEST. Ten delegates from Canada, thirty from BEST along with professors and industry leaders from both Europe and Canada met up to discuss education, specifically degree mobility, opportunities to travel for work or study, and restrictions faced by engineering students and professionals who wish to travel abroad, as well as share the culture of their home country with others from around the world. This event was supported by Engineers Canada, the European Commission of the European Union, as well as the Government of Canada.

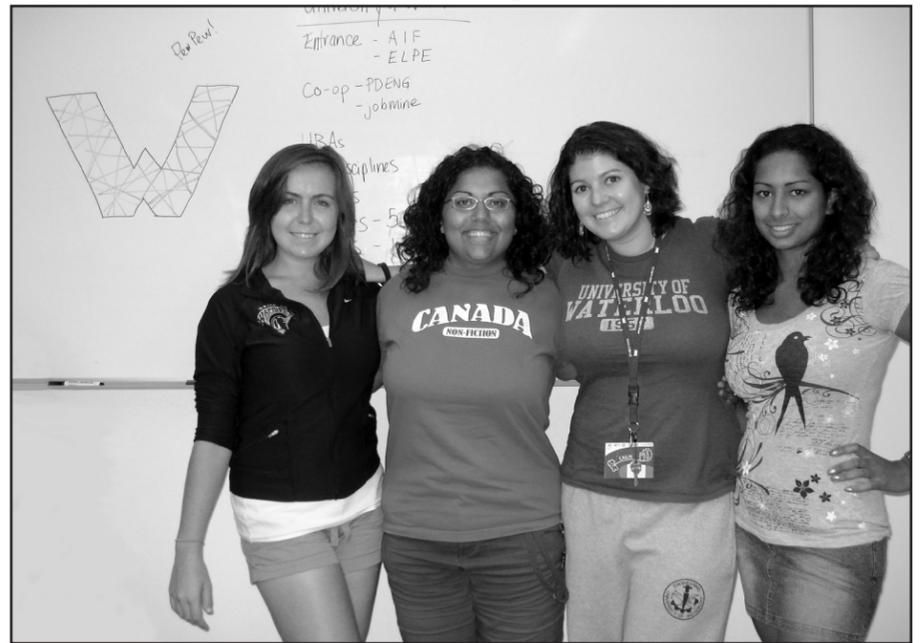
The Joint Event on Education (EoE) was the first event of its kind, and was also the first event held by CFES in cooperation with our European partners. As a part of our co-operation agreement, CFES and BEST share programs and best practices to help develop and grow each organization. With over 25 years experience in organizing the Canadian Engineering Competition, CFES has shared our knowledge of how to organize successful Engineering competitions with BEST. CFES turned to BEST to develop our academic support programs, as BEST has an extensive network of academic partners, and BEST offers a multitude of courses and educational symposia

to develop and enrich European students. The primary reason for organizing the Joint Event on Education with BEST was for CFES to learn how to organize a similar event in Canada. The second reason for holding the Joint Event in Europe was to excite Canadian students about educational involvement, with the hopes that some of the participants will apply to organize an EoE in Canada in future years. Another goal of the event was to promote the cultural exchange between European and Canadian students through social programming.

As a part of our goal to share cultures, the Canadian students organized "Canadian Evening", a social event sharing Canadian customs with the European students. The Canadians prepared traditional poutine and delicious pancakes with maple syrup. We also created a special thanksgiving themed pumpkin sauce that was very well received by the Czech organizers. The Canadian participants gave a presentation showcasing Canadian inventions, successful Canadians and Canadian Engineering student traditions. We finished off the evening with the Canadians patriotically singing the National Anthem. Preparing the evening was a fantastic bonding activity for the Canadian participants and the festivities were wildly enjoyed by the European Students.

Supported by Engineers Canada, the theme of the EoE was discussing transatlantic mobility and innovation in higher education. The Canadian and European students that attended the EoE shared and contemplated the differences between educational systems across Europe and Canada. The participants then discussed international exchange opportunities, work/study abroad programs, and the mobility of their Engineering degrees. In addition, the participants were also exposed to emerging teaching methods such as virtual lectures and learning cafes.

What better place to explore the international mobility of an Engineering degree than by going international? The EoE was a great experience to discuss and promote the fantastic opportunities available for studying abroad throughout North America and, especially, Europe. From discussing transatlantic mobility and different educational systems to combining new teaching methods and research, engineering students from all across Europe shared with us fellow Canadians their wealth of knowledge from studying and working in European countries as an Engineer. Along with an education, gaining access to unique resources available abroad can deepen the value of engineering research especially during undergraduate and graduate studies. As



UW's representatives at the Event on Education in the Czech Republic: (from left) Erin Matheson, Samantha Pinto, Cailin Hillier, and Rebecca Pinto.

future engineers, we all strive to meet society's needs, thus, it is of great value to understand the complex diversity within different societies and the demands for quality engineering that our future holds for us.

The most common topic of the symposium discussions regarded the ERASMUS (European Region Action Scheme for the Mobility of University Students) program and the Bologna Process. The Bologna Process makes ERASMUS possible. It is aimed at creating a European Higher Education Area to facilitate the mobility of students across Europe and prepare students for their future careers. Ultimately, the Bologna Process offers more academic freedom to higher-level education students. This concept is essential for ERASMUS; it is looking at how credits are awarded between different universities in different countries. Not all courses are considered equal; in order to receive the required number of credits for a full term of study, a different number of courses may need to be taken. For example, at one school to achieve the required credits, 5 courses may need to be taken, whereas at a different institution it may take 8 courses to receive the same number of credits. This is determined based upon the amount of work, difficulty, and effort needed to complete the course successfully. Overall, this helps to ensure credit verification when returning to your home school after an exchange. Now to explain ERASMUS; it is an exchange program that helps European students travel between countries that are part of the European Union with ease. It aims to improve the quality and to increase the volume of

student and teaching staff mobility throughout Europe. Their goal for participation is at least 3 million student and teacher exchanges by 2012. Additionally, there are goals to increase cooperation between higher education institutions, industry, and to spread innovation.

As well as the educational information gathered from across Europe, there was also a great wealth of European culture to experience. The second last night of the event was the International Evening. There were fourteen tables set up in a circle around the room. Each table represented a country and presented food and drink to be sampled. Presentations were given, and in some cases songs and dances were included. It was magnificent to see the pride that each group had towards their country. Tortilla from Spain, Sangria from Portugal, Baklava from Turkey, chocolate cake from France, Tequila from Mexico (I know, not European, but still awesome), Russian liqueur, Bulgaria cheese and many, many more treats were all available to be sampled. It was certainly a night to remember (or at least attempt to remember).

The very last night was the Czech Evening, put together by the hosts and organizers of the event. This was a truly magical night with the amazing showcase of Czech culture. We entered the evening to a traditional greeting with our hosts dressed in traditional costume. They preformed and then taught us their national dance, the Polka. A traditional meal was served with Czech music playing and Czech beverages circulating around the room. It was a spectacular finale to an unforgettable event.

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Waterloo, Meet Your New Provost

Talking to the man in charge of your education



OM PATANGE
3B NANOTECHNOLOGY

Waterloo, Meet your new provost

The University of Waterloo welcomed its new Vice President, Academic and Provost Feridun Hamdullahpur earlier this month. Prof. Hamdullahpur takes over from Bruce Mitchell, interim VP Academic and Provost, and Amit Chakma before that, who is now President at the University of Western Ontario. The Iron Warrior sat down with Prof. Hamdullahpur to understand what he brings to the University and what his plans are for the University.

He is enthusiastic about UW

Throughout the interview Prof. Hamdullahpur explained that the University of Waterloo is a special place and just how enthused he is to be here, "I'm really happy here, but I'm not just saying that I'm happy, I can really feel it."

This is what the Provost had to say about why he moved to the University of Waterloo, "Overall I decided to come to an institution...where I saw a large number of fits to my own aspirations and my own philosophy that is pertinent to the University of Waterloo. What are those? The most important one is it is an institution where lower standards are just not a part of this institution's fabric. Excellence is promoted, excellence is observed for everything from A-Z at this institution...That was one of the main motivations. Here's an institution very committed to the highest standards of discovery, scholarship, and research. Fantastic, especially coming from my career path of graduate studies and research and they are all here. [There is a] very healthy percent ratio of graduate to undergraduate student population here, which is at par with many research intensive universities and has aspirations to grow it even further."

He is most excited about the people at UW. He finds the student populous to be "very mature" and the faculty and staff dynamic and interested in the affairs and well being of the University. There is a definite sense of pride in the people at Waterloo, said the Provost, "Faculty members, senior or junior, they understand that they work at the University of Waterloo. It's not just University X, its Waterloo and Waterloo means something different."

The Provost's assessment of the students of UW was made clear when asked about the possibility of abuse of his recent policy of not requiring a Verification of Illness form in the case of flu. He responded, "We trust our students. Would they be really abusing the system or would they be abusing themselves? We are telling our students that we trust your integrity."

He is committed to excellence

"What kind of present can you buy for a very rich person that has everything?" asked Prof. Hamdullahpur in describing the enormous challenge of his new job. Nonetheless, he has clear ideas about what needs to be done to take UW to new heights, "Very often we say it and I think we need to remember it even more frequently, the reason why we exist, why we are here is for our students. How can we make this environment for our students a fantastic learning environment but also a social growth environment?" He wants students to leave the university having "learned a lot, contributed a lot, and also grown to be really fantastic individuals, really good citizens of this country and the world. We are not here just to give our students a degree."

To foster such an educational environment, in his role as Provost, Prof. Hamdullahpur promises that "There will be abso-

lutely zero chances of our standards going down... that's a given." But he won't stop there, "I'm not a caretaker. This has been my philosophy, I take over things [and] I have to build upon [them], or add, or do more."

"There has not been a single day here that I came into this office and just pushed papers. Everyday there is something new; exciting new ideas...It's a very dynamic institution. There is creativity and there is innovation. It's the fabric of this institution," said the Provost in explaining how the nature of Waterloo is helping him figure out what more he can do for it. His role is going to be "to ensure that [he] provides the proper leadership" to continue to foster the innovation Waterloo is famous for.

Prof. Hamdullahpur holds the 6th Decade Plan, a key document in formulating the long-term strategy of the University of Waterloo, created by former-Provost Amit Chakma in high regard, "It is a very good plan. I've used this word before, I'll use it again, it's gutsy." At the same time, he is realistic about the goals set out in the plan, "This plan isn't cast in stone, it is a living plan...there are targets and objectives that we need to review...make sure that they are still achievable targets."

The IW asked about a target that seems particularly hard to achieve given the current global economic crisis and drive for higher student enrolment: a student to faculty ratio of 20:1. Currently the ratio is closer to 30:1. The Provost replied saying, "It's a desirable target...I can't tell you that we will get there in the next year or two or three, but we will move towards that... no other Canadian university is at that level, especially in Ontario... Nobody has that magic wand... that's at least a \$60-80 million magic wand to be able to touch it and be able to change it."

Similarly, the Provost recognizes that most of the targets of the Plan are ambitious, "Are all the objectives easily achievable? No...we have to work hard. Should we all be happy and sleep well and say we have this plan and everything is going to happen, no. As an engineering student, of course, you know you first come up with a conceptual design. You design this big thing, now you have to bring it down to earth. You have to start doing all the calculations." This is the stage UW is at with the 6th Decade Plan.

The Provost sees keeping the University of Waterloo financially solid as a very important objective. One of his duties is to "ensure that, financially, the institution is on solid ground." He also plans "to support our core activities [and] our strategic activities, but [also] be able to respond to some fantastic new ideas and initiatives... this is very, very important... we cannot afford to turn a blind eye to those." In the past, these were the initiatives that drove Waterloo to excellence.

In the current economy, the Provost recognizes that there may be some "huge storms". He doesn't plan to just let progress stagnate, though, "You have to be really, really careful... to ensure that we will get to our destination... not just sit in the middle of the sea and weather the storm." Making a short-term forecast, the Provost had this to say, "Next year will be extremely critical...



Om Pantange

and I have to be a lot more prudent than I've ever been." All this prudence, he hopes, will allow him to keep the university in a position where no one has to be laid off to maintain the institution's financial stability.

He is a team player

In the past and even now as Provost of UW, Prof. Hamdullahpur has had a lot of experience in recruiting talented faculty to a university. The IW asked how it feels to be competing for the same talent after switching institutions and the answer was all about teamwork.

"I very strongly believe in teamwork... While you rely on your teammates, you make sure that you fulfil your complete share of that load on the team and go beyond that. That's how a team works," explained Prof. Hamdullahpur. Thus, when recruiting new

faculty the selection is heavily influenced by the existence of a concentration of talent already at the institute. As the Provost explained it, "when you bring those together it's not two plus two is six, its two plus two is six, its two plus two is fourteen... when they get together the impact is phenomenal."

He is a proud Canadian

A recurring theme in the interview was Prof. Hamdullahpur's pride in Canada. He described the place of UW in the academic realm, "We are proud

to be a Canadian university and we are very proud to be a top level Canadian university."

His pride for his country doesn't stem only from the excellence of Waterloo, but also from other academic institutions across the country. Prof. Hamdullahpur served for four years as the Chair of the Board of Management at TRIUMF, Canada's National Laboratory for Particle and Nuclear Physics. Shortly before he joined Carleton University as Vice President, Research and International in 2000, Carleton had joined the TRIUMF collaboration. So, Prof. Hamdullahpur was appointed to the board, and he had the "honour of serving as the chair".

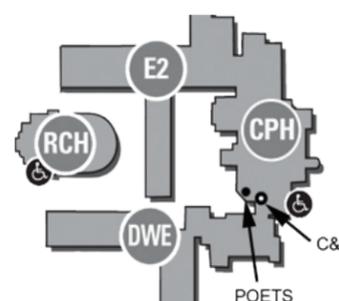
As he described it, "I went to my first

See ACTIVE RESEARCHER on Page 10

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

ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



CAT HAY
PRESIDENT

Welcome (back) to campus! I hope you're enjoying your first few weeks of classes and all the fun events we've been planning so far. I've got lots of updates this week, so here goes...

Changes from last term

Our new website and online Novelties store were both launched around May. We also had a pool table donated to POETS (upstairs) and we're just waiting for the Plexiglas barrier before we can start playing. In addition to the pool table, you'll also notice some swanky new red furniture has replaced the old chairs and tables.

Engineering 6

We have a new student rep for the E6 Building Users' Committee, who acts as a liaison between students and those who make decisions about requirements for the new building. If you want to know more about E6 progress or share your opinions, please talk to Angelo Alaimo.

Update from Dubai

At the latest Engineering Faculty Council meeting, we heard an update about the Dubai campus. They have 23 students registered - 15 from the UAE and 8 from other countries. Of those students, there is one female enrolled. There has been talk about adding an extra "foundation year" to help students who excel in the maths and sciences, but are lacking the necessary English requirements. We were also told that students have the option to finish their degree in Dubai and will receive an HCT degree. Only those students

who complete part of their studies in Waterloo will obtain a UW degree. And finally, we plan to integrate Waterloo and UAE students when they arrive (as opposed to having separate classes). Since we are adding new faculty members and there are a lot of electives in third and fourth year, we actually expect class sizes to decrease as a result of this program.

Paul & Paula Plummer Nominations

The P&P award is presented to graduating students who have contributed to the benefit of the Engineering Society in a manner deemed to be outstanding and commendable, and who have shown a genuine caring for school spirit and the status of student life within the Faculty of Engineering. We will be accepting nominations for this award at the next EngSoc meeting (October 7) and presentations about the nominees will happen at the following meeting on October 21st.

Goals for the term

Lastly, I wanted to touch on some priorities for my last few months as President:

1. Maintain communication about the committees I sit on/decisions being made - I want to keep you updated as much as possible through IW articles, meeting updates and e-mails over the mailing list.

2. EngSoc promotion - We have had incredible turnout at our meetings and events so far this term and I would like to reduce attendance drop-off through increased advertising, financial support and executive support of the directors coordinating these activities.

3. Complete current projects - I would like to finish the projects we've started in the last 16 months and provide a smooth transition to the incoming exec.

That's all for now folks. Hope to see you at our next EngSoc meeting (October 7th)!

VPI Report



LAURA SISSON
VP INTERNAL

Welcome back to campus & welcome in general to all first years!

For those of you that don't know me, I'm the VP Internal for Engineering Society which means that I oversee and coordinate all the events that happen within Engineering. We have a ton of good ones planned for the term so I'm going to give you all a quick synopsis of a few of the events you can expect to see over the course of the term:

Frosh Mentoring Tour (Wednesday Sept. 30, 6-8pm) - Either give or get a tour of Uptown Waterloo. There are a ton of neat places to go off campus, so come on the tour to find out about some of them!

Genius Bowl (Wednesday Nov. 11, 8pm) - EngSoc's famous trivia challenge!!! Start getting a team together NOW! Classes compete to dominate triv-

ia!

Curling Bonspiel (Sat Nov. 14, 11am-5pm) - Never curled before? Don't worry! Come out anyways! Be warned that you will wake up with sore muscles you didn't know existed!

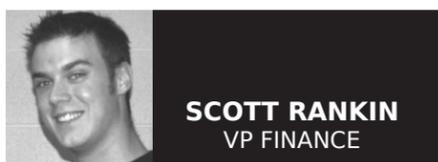
Semi-formal (Sat Nov. 14, Dance at 8:30pm) - Engineering and AHS are teaming up to put on an Alice in Wonderland Semi-formal. This means there will be MORE girls! Don't forget to get your dressy clothes when you go home for Thanksgiving!

Tal-Eng (Tuesday Nov. 24, 8pm) - Engineering talent show! Come out and watch all the talent engineering has to offer or come perform and show off what you've got!

This is just a preview of some of the major events that will be going on, but stay tuned to the EngSoc website event's page (www.engsoc.ca) for a full list of all events.

Please feel free to email me if you have an idea for a cool event or if you have any questions! (bsoc_vpint@engmail.uwaterloo.ca)

VPF Report



SCOTT RANKIN
VP FINANCE

Hello everyone,

For those of you who came to the meeting I really hope you enjoyed my new logo, too bad that it got shot down...

Firstly, personalized flask order forms are in Novelties. They are \$35 each, you

must pay up front, and can be personalized up to 21 characters. Also in are class t shirt order forms, \$12 a shirt, paid up front, and you must email your logo to bsoc.vpfin@gmail.com.

Also, BUDGET PROPOSALS are due Friday October 2nd, 2009, at 4:30pm, no exceptions. Directors please remember to take your time when preparing it and do not inflate your numbers.

Thanks,
Scott

VPed Report



SASHA AVRELINE
VP EDUCATION

Hello Everyone!

Hope you guys had a good summer. I'm Sasha, your VP-Education here to give you guys a couple of updates of what has been happening over the summer and what is currently going on.

First of all the PDEng Independent Review visit has happened this summer right around Canada Day. Three external visitors (Current Dean of UBC, Retired Dean of Queens and an individual associated with the PEO) were here for two days during which they had a chance to speak to engineering administration, PDEng staff, PDEng mentors, a lot of students and even some employees. Their report is now due back any minute and should be within the university before the month is out. Dean Sedra has stated that the report in its entirety will be made available to all of the students. Following that, PDEng staff will be looking into how to address the results and suggestions of the

report.

As far as PDEng 57 is concerned it would not be offered in the winter 2010 as per the decision reached this summer. However, there will be additional makeup opportunities for students who have taken and failed PDEng 55 during the winter 2010 term. Stay tuned for more updates.

Some other updates include the fact that starting this fall, all courses are required to have a course outline which should follow the format available here: <http://uwaterloo.ca/accountability/documents/courseoutline.pdf>. Also, if any of the courses are using plagiarism detection software called Turnitin, students must be informed about this matter and given a reasonable alternative option when it comes to screening their assignments. More information is available here: <http://uwaterloo.ca/academicintegrity/Turnitin/index.html>. Finally this summer a motion regarding having the possibility of students writing midterms on Saturdays was turned out down at the Senate level.

Thanks for all students and volunteers that came out to resume critiques!

Sasha

VPX Report



CARA KENNEDY
VP EXTERNAL

Holla boys and girls! Welcome back (and welcome to) campus

A bit of a recap of my update from the EngSoc meeting:

The world of ESSCO (Engineering Student Societies Council of Ontario) has been very busy in the last few months. There was the Annual General Meeting (AGM) in the summer that A-Soc hosted and did a bang-up job! At that point in time the new executive were elected and our very own Spencer McEwan has continued his ESSCO love as their president, as well as Alessia Danelon starting her year as the VP Services. Then more recently, Cat (our prez) and I attended the President's Meeting (PM) in Sudbury. Hot off the press from that conference is the survey that ESSCO will be releasing soon to gather information on student stress levels and how they deal with them. Keep your eye out for ways to earn P**5 points for the survey and potential ways to get involved with ESSCO!!

Then we've got the rockin' Canadian Federation of Engineering Students (CFES). They bring together all of the regional engineering groups and represent Canadian Undergraduate Engineering Students. They've been cooking up some exciting stuff lately too! Such as the "Iron Ring Cookbook." This cookbook

has been in the making for over a year and is a Canadian-wide Engineering Student Charity cookbook! So check it out and get your copy in our Novelties store (just beside POETS). CFES was also part of an International Event on Education in the Czech Republic and we sent two students from Waterloo B! You will be able to hear more about their experience in their presentation at the next EngSoc Meeting (Wednesday, October 7). U of T hosted a CFES event this summer too. It was a Complimentary Education course on "Engineering in Sport" and delegates got a chance to have a tour of the Sky Dome (or Rogers Centre, pffft!) and other significant sport centres in Toronto. And back to some news with me, I will be attending the CFES President's Meeting (PM) next weekend in Victoria, BC and I look forward to bringing back more exciting news for you then!

Also, in the life of VP External, you should definitely check out our Charity Pancake breakfasts coming up (next one is Monday, October 19)! Definitely keep your ear out for our very own Terry Fox Run too! We're going to be running Ring Rd and will probably have our engineering style to "Rock Out" with. I can't miss mentioning the NEW Waterloo Engineering Competition (WEC) that is starting up this term with B-Soc! See posters around the Eng buildings for details, or check out www.wec.uwaterloo.ca for a competitive way to show your engineering pride!

That's all from me this week, so have a good one and see you around!

WEEF Report



MATTHEW BESTER
WEEF DIRECTOR

Hello frosh and returning upper years!

Times are changing! Some of you may have already noticed that WEEF returns are done differently this term. We've gone away with the old paper system and entered the world of the internet (it's a series of tubes!). WEEF returns can now be requested online. This change was not instigated by WEEF, but rather by Student Accounts. Student Accounts facilitates the return process and they decided to change the system for many reasons such as increasing the accuracy of returns (people tended to not write neatly

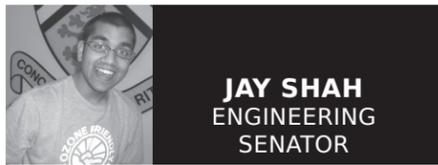
which lead to errors down the road).

On that note, WEEF returns are available during the first three weeks of class. Every engineering undergraduate student donates \$75 at the start of term as part of tuition. Each person has the option to have this donation returned to them. To request your return just go to weef.uwaterloo.ca and follow the directions on the homepage.

I have a new team of Assistant WEEF Directors this term that will spread the word about WEEF. This team consists of Chris Gilson, Cailin Hiller, Tyler Szabo, Graham Stonebridge, and William Francis. This term we are going to focus on informing you of what WEEF does, so keep an eye out for us!

If you have any questions, comments or suggestions you can email me at weef@engmail.uwaterloo.ca.

Senator's Report

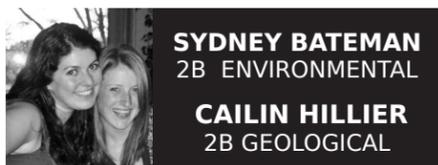


JAY SHAH
ENGINEERING
SENATOR

A quick formal introduction, my name is Jay Shah, I'm in 2011 Tron Eng, and I will be your Senator until Spring 2010. 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. You might ask, what is Senate? It is the 'highest' academic level where all changes, revisions, additions etc. get talked about for the last time before being voted on. Before decisions reach this level, they normally pass through several other senate advisory committees.

News from the September 21st meeting
1) As of August, UW 1st year enrollment was at 105% of its intended target, Engineering specifically was at 99%
2) Large shift in R&D spending from IT and Pharmaceuticals to Natural Resources, could create potential new opportunities
3) Business Sector R&D has been unchanged in Canada over 10 years! To have an advanced, cutting edge economy, this needs to be boosted.
4) New Logo has been put on hold for now while the Identity Task Force reviews all the wonderful feedback
5) UW's UAE Campus, 66 applications, 45 Offers, 24 Students (as of Mid-Sept)
Stay tuned for more developments in future IW articles. Hope everyone has had a rocking start to the term, and continues to have fun :)! Questions & comments are always welcome at senate@engmail.

Pranks from the Past And Tales From Homecoming



SYDNEY BATEMAN
2B ENVIRONMENTAL

CAILIN HILLIER
2B GEOLOGICAL

Homecoming occurred this past weekend, and the opportunity to speak with many interesting alumni arose. The stories reflected back to the glory days of engineering when pranks and mischief were the name of the game.

One group of '84 Mechanical graduates flashed back to a time when they released pigs into the PAC during the ELPE. Another group of graduates told tales of being tied to kegs and being video taped at the rippers. A previous EngSoc President talked about how he and a group of friends

painted 'EMF' (their class name) to the roof of CIF when it was under construction.

A Civil Engineering professor from U of T hinted at a time when he puked from his nose after B.O.A.T. Racing. One prank, on Campus Day, involved the distribution of mislabelled maps to new students. Another group of Mechanical graduates told us how they ruined their entire house by filling the top floor with leaves and proceeded to start a mosh pit resulting in broken windows, people over balconies, and destroyed carpets.

There were many hilarious stories to here from the interesting alumni that attended the event. In future, we encourage current students to talk to alumni whenever possible and hear all about their blasts from the past.

Calling All Artsineers! Cool Arts Events Coming This Term

**MEGAN POLLOCK AND
MIKE SELISKE**
ARTS DIRECTORS

Welcome to the beginning of what will prove to be a very arts filled term. If engineering ridicule has held you back from expressing your true artistic ways, now is the time to spread your wings and show everyone your true artistic talent. Let us introduce ourselves, we are Megan and Mike and will be your Arts Directors for the term. We have a lot of great ideas planned so read on and participate. It's easy and there are a lot of great prizes to be won.

We will be running many contests this term, each of which will be running for approximately two weeks. Keep an eye out for our bi-weekly IW articles letting you know who the winners are and what is coming up. The first contest of term will be a colouring contest which will start on October 8th and continue until the 20th. The picture will be available on the arts board which is located across from the Orifice. Submissions can be made to the Orifice anytime. Another exciting contest that will be run EVERY week is a themed photography contest where the theme of the week will be posted to the arts board and you are encouraged to submit a photo which creatively matches that theme. Photos will be printed in the next issue of the IW as well as be displayed on the arts board.

Another exciting thing that we are going to try this year is Photography 101, in conjunction with the UW photo club. This will give anyone the chance to learn about the basic photographic concepts and how they affect your picture. This will be run on Thursday October 8th in POETS at 5:30. Bring your camera if you have one as there will be an op-

portunity to take some shots afterward.

Those of you interested in the dramatic arts should consider going to see the musical Avenue Q at Center in the Square on Thursday November 26th. The show is a parody of Sesame Street with puppets, mature content and hilarious songs such as "The Internet Is For Porn" and "You Can Be As Loud As The Hell You Want (When You're Making Love)". If you are interested in going to see this show, email us at artsineer@gmail.com by October 9th and let us know. If we get over 20 people interested, we are eligible for a group discounted price.

Another major arts event coming up this term is the Poets Poetry Slam. Everyone should come out to POETS on Thursday November 5th at 5:30pm and listen to some poetry written and/or read by your fellow engineers. Better yet, come out and perform some poetry of your own!

If you've ever had a drink in POETS and wished that your BEvERage bottle wasn't so dull, you should attend our Decorate Your Own Beer Mug event on Thursday October 22nd from 11:30am to 1:30pm. Make a personalized mug with us and then use it on the GradComm PubCrawl the following day! We are going to try out a new idea which is similar to the brew pub memberships in the States - make your glass and keep it in POETS to use each Thursday and Friday of term.

Want to see the Avenue Q musical on November 26th? Let the Arts Directors know by October 9th for a chance at getting a group rate.
artsineer@gmail.com

ChemEng Getting a New Home

BREAKING GROUND From Page 1

DWE, with upgraded and expanded facilities. Once E6 is complete C-wing of DWE will undergo much needed renovations.

In order to acquire federal funding under the Knowledge Infrastructure Program, E6 will need to be substantially complete by March 2011. This means the building itself must be mostly complete within 18 months.

Sustainable construction, following a program called Leadership in Energy and Environment Design (LEED) is an expanding trend with new buildings that includes a certification process. E6 will not pursue certification but will include 32 LEED sustainability/energy efficiency features such as, low flow fixtures, occupancy sensors, high-pressure steam heat recovery, and programmable lighting.

To select a general contractor for E6, contract-architect teams were required to submit responses to a design-build under a Request for Proposals (RFP) and present them to the university. Aecon, one of Canada's largest constructors, submitted their RFP jointly with Toronto architectural firm, Diamond+Schmitt,

and were successful in winning the contract.

Currently, building permits are being acquired from the city with design drawings for E6 expected to be complete soon. In speaking with Aecon's E6 project manager, a rigorous construction schedule will be implemented to top out the building in early 2010. This means construction of the main structure will take from this October to approximately March of 2010 - a total of 5-6 months. In comparison, E5 took approximately 12 months from excavation to top out.

Lastly, if you read Cat Hay's president's report on page 6, I am the new student representative for the E6 Building User's Committee. My duties include soliciting student opinions and suggestions relating to student space, voicing student concerns to the committee, and keeping the engineering student body informed as to progress with respect to new buildings.

If you have any questions or concerns, please let me know at am2alaim[at]engmail[dot]uwaterloo[dot]ca. The next Building User's Committee meeting on October 6th is fast approaching and I would love to have your student feedback!

Health Services Expansion

MORE SPACE From Page 1

group is expected to worsen. As a result, the new building will include a replacement for the current Grad House facility, including an updated menu. As well, both the GSA and the Graduate Studies Offices would be relocated into the new building.

The new complex relies on an increase of \$49.50 to the current Student Coordinated Plan (SCP) that every undergraduate student pays. The SCP fee goes towards paying for expanded and new facilities on campus. The SLC and Columbia Ice Field expansions were both partially funded by this fee. The new increase will be brought forward to both

graduate and undergraduate students in a referendum in November. Undergraduates will contribute 65% of the project budget, while graduate students will contribute 15%.

The other project, a long needed expansion to Health services, will also be brought to referendum at the same time. There is a proposed student fee of \$10 a term. The university has already said it will not fund the project as donors will not want to fund this project.

The current Health Services building was built in 1968 when there were less than 9,000. With enrollment now at 28,800, there is a desperate need for more space.

For more information, check out student-space.uwaterloo.ca.

Quantum Dance!
Saturday, October 17th
Fed Hall
doors open at 9:00pm
19+ event

Email iqc@iqc.ca to receive VIP access

IQC Institute for Quantum Computing

UNIVERSITY OF Waterloo

FROSH WEEK FEATURE

The Battle of Civilizations

Or the Introduction of The New Frosh to Campus

KATE HEYMANS
1A CHEMICAL

Impressing EDCOM, meeting people and getting to know campus were probably the best excuses the new engineering frosh on campus could come up with when explaining their strange behaviour throughout the events of the “Battle of Civilizations”. After all you can’t really say that you’re running through mud, building things out of trash and racing around campus to find random items because it’s fun, can you? (Others will definitely say you’re immature). The truth is; it was. In fact, the crazy activities at Frosh week made it more than just fun, it was AMAZING. From the Opening Ceremonies to Earn Your Hardhat to the final ComEng on Sunday evening not a minute was wasted for the incoming frosh.

The week started with “Meet the Dean” where we got introduced to the Dean of the Faculty of Engineering, Adel Sedra. He welcomed us to the University of Waterloo and encouraged us to have fun, work hard and to get involved with the Faculty. We then met the Super Huges who were interrupted by the big, scary EDCOM. That’s when we learned the motto we would live by during the week; IMPRESS EDCOM! EDCOM IS ALWAYS RIGHT! OBEY EDCOM AT ALL TIMES!

During the faculty lunch that followed the frosh were introduced to the heads of their respective programs and discovered some of the other students in the class (the main question of the chemical engineering students was: “Did you also get that email about the first lab assignment?”). Then came the fun; cramming as many people into a van as possible (without killing the people at the bottom), running around blindfolded, racing down the water slide, running through mud (or on top of Bigs lying in the mud), handing around soap covered watermelons and, of course IM-

PRESSING EDCOM. The many challenges to be executed were long and exhausting but at the end we could proudly state that we had earned our hardhats. We trooped over to the Aerial photo, exhibiting our hardhats and relishing in the amazement on the faces of those who could not claim to be part of the select few.

The next day we faced the dreaded ELPE (which probably frightened some of us more than the Math Preparedness Test held the following week). After having recovered from that dreadful experience (ok, I am exaggerating here) we were able to drag our tired brains to the V1 green the next day for the mythical Junkyard wars. We got a pile of junk with which to build a variety of things including a catapult (it’s always fun to throw things in the air), an electric switch and more. Of course whenever we had nothing to there was always the default; IMPRESS EDCOM (have you ever wanted to be in a painting?). One of the most memorable events of the morning was probably seeing the big Wlogo being crushed to smithereens by the big, heavy weapons of EDCOM (Water, water, water. Pew pew pew anyone?).

After having completed so many tasks we were finally permitted to meet the legendary

TOOL we had heard so much about. The presentation began with an informative video about the history of the TOOL and the traditions to be respected when in presence of the Tool. Then we screamed and shouted and hit our hardhats as instructed. Suddenly; there was the TOOL! At that point shouting in unison altogether I think just about everyone felt a bond with everyone else in the assembly.

The last challenge of the week was the Murder Mystery Scavenger Hunt. All the teams competed to earn clues to solve the mystery of the crime. Building statues, human chess, scavenging for items (did someone say ‘Pony?’), preparing skits and videos, and, most challenging of all, making EDCOM laugh. I did see EDCOM laugh that

night despite the fact that many said it was only a rumour.

So what did I learn during the week? EDCOM’s favourite word is ‘moist’. Vikings sail the seas on long boats. The TOOL is to be revered above all else. When dancing “I’m a little teapot” make sure everyone tips to the same side. All of these are very important lessons I’m sure but more importantly I had such a fun and memorable experience that I didn’t even have the time to be homesick. I met a bunch of people and, despite the fact that I can’t remember some of their names, they were all really nice people. So a big thank-you to everyone who organised the events (you’re all awesome people) and GO VIKINGS!



Chris Zhu



Chris Zhu

A Whopping Week!

AISHA SIAL
1A SYSTEMS

When I signed up to write an article about frosh week, I thought to myself ‘How hard can this be? I’m a frosh and I just spent an entire week at frosh week so there’s no way that this is going to be difficult.’ Then I sat down, opened my fancy new laptop, stared at my screen for ten seconds and realized that I had absolutely no idea how to describe pure awesomeness in words. Frosh week was possibly one of the most perfect weeks of my life and I wish every week could be the same; no responsibilities, no obligations and (finally) no curfew. I met a ridiculous amount of people (let me take this moment to apologize in advance if I don’t remember your name), danced and ‘socialized’ all day and all night long until the week became a huge blur of fun.

From my first night moving into UWP and having people ninja my bags and boxes up to my room, to having my don teach me how to tie my toga, there was never a dull moment. Our frosh groups were awesome, our Huges and Bigs were crazy and EdCom were as badass as badasses can be. I got blindfolded, muddied, soaked, crammed into a van, and I ruined a pair of shoes earning my hardhat, but a girl’s gotta do what a girl’s gotta do. I learned from EdCom that hardhats are not to be used as purses, but are to be worn on your head at all times (you know, in case the sky starts falling, safety first frosh) and that seeing a guy in chains swinging a sledgehammer is not just intimidating, but also pretty cool.

I know my parents were worried that I might starve my first week at university, but to be honest, I managed to secure

free meals more often than not. In fact, I am not one of those people starving, I am the one doing the feeding. I’ve had to teach myself not to take in stray hungry guys (you all know who you are) as I’ve noticed a strong correlation between my increased number of male visitors and the rate at which food disappears from the kitchen. In fact, I’ve noticed a huge increase in male attention in general. I guess this might have to do with the fact that girls here are outnumbered ten to one, but who knows. Maybe the food I cook is just that good.

Possibly my most memorable experience of the entire week was getting purpled. I was originally going to go all purple, but then I realized I had to wear a dress the next evening. Weak excuse I know, but by the time I had gotten there, my choice had already been made for me. Nearly all the dye was gone and all I managed to cover was my arm. I didn’t mind too much, but I did have fun laughing when I got weird stares from the uneducated/uncultured/uncouth people who didn’t understand why I was so proud that I had a purple arm that was staining my clothes and bed sheets.

Anyways, looking back on frosh week nearly three weeks later, I can honestly say that I’m not going to be forgetting about it for a long time. It was definitely an awesome way to begin my next five years here, and I wouldn’t trade it for the world. Note to EngSoc and EngFoc: it’s unfortunate that frosh week is being changed; I felt so special when all my other friends had already started classes and I was still partying. Thanks to all the people who organized it (you guys rock!!) and thanks to my fellow frosh for making the week so much fun! GO DARK GREEN!!



Chris Zhu



Chris Zhu



Chris Zhu



Chris Zhu

POINT VS. COUNTERPOINT

POINT

COUNTERPOINT

Should Purpling be an Official Frosh Week Event?



CAILIN HILLIER
2B GEOLOGICAL

Many know that along with the honourable engineering profession come a slew of traditions, of which engineers and engineering students are very proud. This fun activity showing spirit and pride has serious and meaningful roots. Purpling is viewed as a display of engineering honour and shows the support we have today for the engineers who have preceded us.

The origin of the purpling tradition comes from the Titanic. As the Titanic was sinking and passengers attempted to escape, the engineers stayed below in the boiler rooms, keeping the engines running. This allowed for smoke signals to be sent in hopes of attracting attention from surrounding ships in order to prevent a tragedy. Unfortunately, the rescue never came for those aboard the ship and the engineers who worked so hard died on that tragic day. They wore purple and so we dye ourselves purple in their memory, and honour the bravery that they demonstrated while attempting to save others. Another tale applicable to this tradition involves the Royal Engineers of the British Army, who wore purple armbands during World War I.

After being informed of the purpling tradition and its meaning, it seems only natural for some wanting to exhibit such engineering pride and spirit. It is a uniting event for those who participate. Although it is encouraged to show your engineering pride to others, explicitly purpling yourself is not encouraged. Simple enthusiasm and a display of engineering character is what's important. There are many different degrees of purpling that people are comfortable with, and that's perfectly acceptable as well.

There are those die-hard purplers who dye themselves from head to toe with Gentian Violet, the best method of maintaining that purple glow. Some dye only their arms and legs. Commonly, students dye their dominant pinkie fingers, replicating the iron ring they will receive upon graduation. Other methods of showing your purple spirit involve using a Kool Aid paste, or even dyeing your hair a purple hue.

Those who are not informed of this tradi-

tion tend to believe that this is a hazing ritual, which is an enormous misconception. Students are in no way forced to partake in this engineering tradition, they are merely informed about its existence, along with many other engineering traditions. It can also be noted this is in no way a permanently destructive or traumatic process, like certain other practices might be. Purpling is generally conducted outside, and while it may stain clothing, it is easy to clean from surfaces such as desks, floors, and doors (especially with the use of Vim).

This frosh week, both leaders and Frosh partook in the purpling tradition in a Big, Huge, and informed, way. We all were in full understanding of the purpose of the tradition, as well as having chosen to purple ourselves on a completely voluntarily basis. Showing new students within and outside of the Engineering Faculty that we are a spirited group is invaluable. It was really remarkable to see the onslaught of purple this week, more so than Frosh Weeks before it. At Earn Your Hard Hat, there seemed to be a distinct lavender glow across the crowd of engineering students. By the Wednesday Night Mixer, it had grown. At Junk Yard Wars the following morning, the group definitely had more than a few purple people amongst them. The fun continued into the Murder Mystery event on the Friday night, our last faculty event for the '09 Frosh Week. Even the oh-so-ugly orange statue was beautified with purple, having the "purpledFrosh.com" website tattooed across it. Indeed, mysterious and awesome.

A shout out for making this display of purple pride possible definitely goes to our favourite skullet-bearing photographer, Mr. You-Know-Who. Thank you so much! To those out there that feel the need for more purpling, it is always welcome! There is typically a mass opportunity to do so during Frost Week (first week of school in the Winter Term), as well as for different EngSoc charity initiatives, such as the purpling fundraising conducted for the Alzheimer's Society this past Spring. And of course, during Frosh Week purple appears in the most magical way.



SYLVIA WU
2B MECHATRONICS

The act of purpling naïve and swayable frosh has become a taboo topic of sorts for the past several years at the University of Waterloo. I can't seem to remember purpling as a part of my own frosh week (2007) at all. As a leader, purpling has always been talked about in a hush-hush tone. The debate is over whether purpling should return as an official part of frosh week.

Not getting purpled or being told anything about it did not make my frosh week less enjoyable. The ignorance of such a tradition might as well have saved me some headache. I can think of a dozen questions on the spot that I would ask myself if purpling was a frosh week event: what would mom say when she sees me on the weekend? How will I get the purple out of my sheets and clothes? Is everyone else doing it? Would I be sneered at for not doing it?

I was a pretty gung-ho frosh back in my day (albeit nowhere near psycho-frosh level), so I probably would have jumped into the purple tank despite my doubts and questions. It would've made for some cool pictures and good stories about how hard I worked to scrub out the residence bathtub but would it have made a difference in how much fun I had during frosh week? I really don't think so. Junkyard Wars is still Junkyard Wars despite what colour my skin is. Being purple wouldn't really help my team meet the Tool in the front row unless we still put on an over-the-top skit.

On the other hand, the layer of dye on my skin would have definitely caused some headache at Monte Carlo. It might just freak out the non-engineering frosh around me and deter some cute math boys from approaching me (completely hypothetical situation of course on many levels). There are no real benefits for purpling to be a part of frosh week, are there?

The most recent frosh week saw a sudden increase in the amount of purple frosh and leaders alike. This has led to much havoc. Chairs and desks in RCH 101 were stained with gentian violet's remnants and took countless leaders and magic erasers to eradicate. Purpling is more trouble than its worth, see?

Also, gentian violet was sold out at every pharmacy near campus. Will someone think of the children with measles who desperately need the purpling bath for a more significant reason?

After frosh week, I noticed patches of purple grass around the Engineering buildings. This must be the work of selfish Engineering students who dumped the leftover purple bath thoughtlessly. Will someone think of the integrity of the grass? The lawn never asked to be purpled! This is hazing!

Lots of other engineering schools across the country tout purpling during frosh week with fervent pride—University of Toronto, Queen's University, and Laurentian University to name a few. Purpling supporters often argue "but every other school is doing it!" Well, here at the University of Waterloo, we are not trying to be like every other school. Everything from our \$80000 "Pew-Pew" logo and PDXXX courses and disregard for students' mental well being make it very clear that we are not every other school. We are different, innovative, so innovative that we can't find another word for being innovative. Innovation means we don't stall in the past but look far beyond the future as non-innovative schools know it. Purpling belongs in the past. In order to be innovative we need to discard such passé traditions that certain other schools can't seem to get rid of, along with that old moldy logo with historical allusions and disgusting freedom/relaxation/(insert words that remind you of happiness here) of the work term. As a matter of fact, other related traditions really should be discarded too. It's only a matter of time until we get to it. In order to be innovative, I suggest that Edcom join purpling in the trash bin for the 2010 frosh week.

Purpling has no place in the sixth decade of the University of Waterloo. What the frosh don't know won't be missed. As for old birds who cry for the loss of tradition, get on with the program and innovate yourselves!

Editor's Note:

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

Busy with Research in the Mechanical and Mechatronics Department

ACTIVE RESEARCHER From Page 6

board meeting [and] I had no idea what kind of language they were talking. My research involves particles...my particles are [in the] millimetre to micron scale and they [were] talking about subatomic particles...It took me a little while to understand what it is that they were doing there but the more I understood the more I was absolutely amazed at the calibre and quality of research that was being done...Sometimes we use the word world class too liberally, this was absolutely the right place to use this word. World class, nothing else. As a Canadian I was tremendously proud to have [such] a facility...Every Canadian should be proud of having [it]."

In his time at TRIUMF Prof. Hamdullahpur, "...provided quite a bit of guidance and leadership as board chair internally. Externally I also did a lot of work to ensure that the world outside TRIUMF, both in Canada and outside of Canada, knew quite well what TRIUMF did."

"I think we have a very good physics department," said the Provost, making a "very

good scenario" for Waterloo's involvement with TRIUMF.

He is the quintessential researcher

On top of his administrative duties, Prof. Hamdullahpur maintains an active research group and is a faculty member in the Department of Mechanical and Mechatronics Engineering; it is something that he says he cannot give up.

The Provost's commitment to his students is demonstrated by the way he balances his administrative and research responsibilities. "It recharges my batteries when I take a pause from my admin work... [and] sit down with my PhD students... I spend two, three hours with them on a Saturday morning."

Prof. Hamdullahpur began his career as a junior faculty member at the Technical University of Istanbul while working on his first PhD in the biomedical area, modelling blood flow in arteries. Through "several coincidences" he got an offer from Canada to work at the Centre for Energy Studies at the Technical University of Nova Scotia where he switched research topics from biomedical to energy and combustion engineering, get-

ting another PhD in Chemical Engineering. He moved around a bit in his early career as a consultant and then began a steady climb up the academic administration ladder.

His success in administration hasn't diminished his enthusiasm for research. Prof. Hamdullahpur said, "I can tell you one thing, and this will never change. I publish... five to six journal papers a year [and attend] a few conferences. Every time I publish a paper I'm so excited, just like I'm a brand new faculty member publishing his first paper. It is quite rewarding."

Not only does the professor balance research and administration, but as he put it, "I also happen to have a life outside of work. I have a very happy married life with my wife and kids," and he quickly added, "And the cats." His sons are still in Ottawa continuing with their university education and keep one of the family's three cats with them.

When asked how he does it all he replied, "[At] the heart of [everything] you have to be passionate about what you're doing; if you don't have it then nothing will work. You can be the best time manager in the world,

it still won't make a difference. [Research, administration, family] are very, very, very near and dear to my heart." Despite his massive workload, Prof. Hamdullahpur sill says, "I'm the luckiest person."

His Advice

Prof. Hamdullahpur's first word of advice is to be passionate. Once you find something to be passionate about, he said what works for him is to stay focussed and to never cut corners. He used preparing for lectures as an example, "Would you go to operate on a patient without really knowing what...you're doing? When you walk into [a lecture], make sure that you know exactly what you're going to say and think of the fist opening part of your subject from a student's perspective, that if you were a student how would you like to be told about the subject that will capture your entire attention."

In closing, Prof. Hamdullahpur had this to say, "I know that our students, they want to come to University of Waterloo, they could have gone to other universities...We will work very hard to live up to their expectations."

STORIES FROM ABROAD

When In Rome...

First Installment: Understanding the Symbols of the Eternal City



ANDREA MURPHY
4A ARCHITECTURE

For 30 years, students of the Waterloo School of Architecture have been traveling to Rome for their 4A academic term. This year is no exception, and I have the privilege of joining in the tradition. Over the next few months, the Iron Warrior will be publishing written updates of my adventures in Italy, so if you are interested in architecture, Rome, or just want to live vicariously through a newspaper column, then keep reading these articles!

Upon arriving in Rome, one of the first things that a visitor would notice is the fact that this city is riddled with ruins. The second thing perhaps is that Rome is also riddled with churches, but that is another story for another article. While on the typical tourist pilgrimage to all the major sites, it becomes evident that

there are many stories here that are hidden under layers of religious and secular symbols. Just to clarify: no, this is not an article about Dan Brown's Angels & Demons. This is simply a quick guide to understanding the most common civic, pagan, and religious icons of Rome.

The first icon that can be spotted on many monuments, water fountains, man hole covers, lamp posts, and even the fire extinguishers is the acronym SPQR. It stands for 'Senatus Populusque Romanus', which is Latin for 'The Senate and the people of Rome'. For avid Gladiator fans, you might recognize this symbol as the branding tattooed upon members of the Roman army in imperial times. From the prolific use of this acronym, it can be likened to a type of stamp saying "this object has been brought to you by SPQR", although I don't think that the imperial senate would have known much about endorsing fire extinguishers.

Another common image that shows up all over the city is the symbol of a wolf

with two babies under it, sometimes simplified into just a wolf. This is the famous she-wolf that raised Romulus and Remus, the brothers who grew up in the wild lands along the Tiber River and, according to myth, founded the city of Rome. Now, not to ruin the story, but, it would be incorrect to say that they both founded Rome. As the story goes, Romulus was drawing out the boundaries of the city when Remus leapt over the boundary line. As everyone knows, this is terribly bad luck and punishable by death, so Romulus killed him: thus it is not called 'Reme', it's Rome.

First impressions of the eternal city would not be complete without the inclusion of the popular icon for the papacy. Every pope has a different crest based on his family name, ethnicity, or favourite saints, but there are enough similarities from one to the next that you can pick out where a pope has left his seal of approval. Churches, many fountains, some statues, and several other monuments bear the crest of the pope, surrounded by a pair of

crossed keys, a cord, and some version of the pope's hat. The symbolism of the Catholic Church is overwhelming, but if you can spot this crest somewhere, then some pope, at some point in time, was involved in the commissioning, dedication, or building of that monument. There is also the good old fashioned tradition of carving your name on things, which many popes did, so spotting "Pontifex Maximus" or 'PONT MAX' in a string of Latin is often just as good as the papal crest.

Now that you are practically a professional Roman symbologist, you can move on to bigger and better things, like understanding all the Roman and Greek mythology found in ancient statuary!*

Alla prossima, Waterloo!

*Note: The author would not suggest this activity during an academic term, as it may lead to failure of the term due to the time commitment required to memorizing myths. If you are interested, however, read Ovid's *Metamorphoses*.

Wilder West Adventures



AMANDA LEDUC
2T MANAGEMENT

My dear darlings,

It's difficult to say where Frosh Week ended and work term started for me. At 1am Sunday morning, I was saying my last goodbyes at the end of the toga party, by 4am, I was in Pearson airport lined up

in front of the WestJet check in kiosk.

I was able to catch a few uncomfortable winks of sleep on the plane, so I wasn't a total zombie when I arrived in Calgary. I miraculously stayed awake all Sunday and even managed to meet my boss for coffee Sunday evening. I made one hell of an impression when I showed up at Tim Horton's tired, incoherent and slightly purple. I finally slept Sunday night after 32 hours of staying awake.

I think I suffered from post traumatic

frush week disorder for the first bit of being here. I felt as though something were missing, a void in my life. I felt so selfish in the morning by waking up and only styling my own hair and applying my own make-up. I felt a strange urge to give someone a radical make-over. I also felt so exposed, as though I should be wearing an outfit that would coverall me.

So I'm working at this company called M3HS. It's a massive commissioning company with 3.5+1 employees in Calgary. There's Kraygee, my boss. He doesn't wear shoes while in the office. Then there's Di-Pi, my co-worker. She defected to M3HS from EllisDon and oddly enough her BMW driving boyfriend Boo still works at EllisDon. Anyway, the third full employee is me, enough said. The last half employee is Missmary. She's Kraygee's wife and has a lethal addiction to shopping. She's got style indeed. The +1 employee is Babyblue. He's the president of the overall company and comes to Calgary every month or so for a visit. He teaches me a lot about commissioning, and life skills (like how to fall asleep when your mind won't rest, you'll never guess the answer).

So my first two co-ops were at a hospital, and they don't really have the money to spend on employee perks. Let me tell you, working in the private sector has perks. Within my first week, I had all four meals (breakfast, lunch, happy hour and dinner) bought for me at least once! I also got a trendy M3HS jacket. It was Christmas all week long.

Perks aside, the job is pretty awesome. I spend about half my time in the secret office, and the other time on various construction sites where I sport trendy steel toes and a fashionable hard hat. For the past few days, Kraygee, Di-Pi and I have been testing the new Holt building.

I may have caused the automation system at Holt to fail while Kraygee was out, so while Di-Pi and I were waiting for the system to come back online to continue testing, we got bored ... and hungry. Thankfully, one of the contractors dropped off a bunch of Halloween sized Mars bars to see if we would eat them all and get sick. While Di-Pi was busy day dreaming about a burger stuffed

with chicken fingers & fries stuffed with shepard's pie, I managed to devour the pile of Mars bars. The combination of Mars bars and the description of Di-Pi's lunch craving caused me to nearly vomit on the silk-like carpet in the Holt offices. Guess the contractor thought right.

So enough about work. That's only half the story so far.

I live with my Aunt out here. It's just her and I in a great big house with an outdoor hot tub. She is awesome. She is a fan of sparkling wine. I am a fan of hers, and sparkling wine. We live together well.

On Saturday, we went to Johnston's Canyon in Banff National Park. I highly recommend it if you're in the area and like the outdoors. It's a 1.5 mile hike one way up the canyon and you gain 120 metres of elevation. It was a blast and the 1.5 miles back down the same path seemed so much easier than on the way up. We went shopping in the lovely town of Banff and then ate at a restaurant called the Iron Goat in Canmore. The architecture, the view of the mountains and the food were unbelievable. Stop by if you ever happen to be driving through Canmore.

Friday I went to see a movie with an unidentified individual who shall remain nameless. It was a perfect not-a-date night. I have also convinced the unidentified individual to take Salsa dance lessons with me at the University of Calgary. The first class was Monday Sept 21, and he informed me via text message he would be missing it Monday morning at 8am. Something about corporate challenge curling and promising not to miss the next class ... I'm not impressed, but I have forgiven.

I went to the Salsa class anyway and loved it! When I told one of my dance partners (a UofC engineer) that I was from Waterloo Engineering, he looked at me in awe and confessed that he didn't bother to apply to UW Engineering because it's too hard to get in. Evidently, our reputation does in fact precede us.

Miss you all dearly,
Amanda

Note: Names of company and co-workers may have been altered slightly but are clues to the actual identities of the company and people.

The Fall 2009

Waterloo Engineering Competition

w e c . u w a t e r l o o . c a



OCTOBER 13 - 16

NOVEMBER 6 - 7

SFF Debates
SFF Technical Speaking

Junior Team Design
Senior Team Design
Consulting Engineering

Registration September 21 - October 5

Registration October 12 - 23

Proudly organized and sponsored by



Why participate?

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

UPCOMING EVENTS

It's Going To Be EPIC!

JACLYN KONZELMANN
4A MECHATRONICS

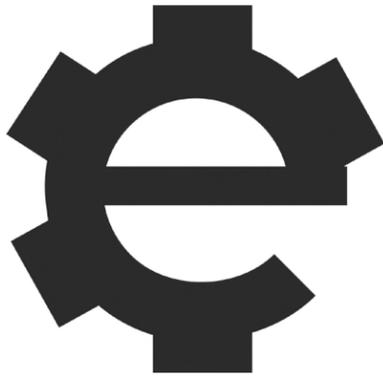
Earlier this summer a group of students decided to get together to plan something... EPIC. After realizing the need for a resource to exist that would connect students from different universities and colleges along with industry and academia, these students decided to take action and form an organization known as EPIC.

EPIC is a student run not-for-profit organization dedicated to Educating, Promoting, Inspiring and Connecting students with a passion for technology in a fun and exciting way. EPIC is a place for collaboration between industry, academia and the student body to happen, allowing for discussion and free-flow of knowledge on topics relating to technology, innovation, ideas and action to happen.

EPIC serves as a cross-platform medium where individuals from different institutes can collaborate and connect. Where ideas can be discussed and shared with an audience of students with a vested interest in technology.

So how do we plan on accomplishing this goal? Through a variety of different events and mediums that enable people to interact and learn from each other! The website (which is currently under some massive reconstruction) will serve as a "one stop resource shop" for all things tech. This will include links to other cool tech sites, the latest blog articles on what is happening in the tech industry, a list of events going on in the KW and Toronto areas (think DemoCamp, BarCamp, MaRS events, Startup Drinks, YSEC – Young Social Entrepreneurs of Canada, etc.) and much more!

As well as this awesome portal, we are going to be hosting an annual conference in January. The first conference will be taking place on January 15&16 (Friday and Saturday) right here in Waterloo. The conference will consist of a variety of fun and interesting events including an Elympics style competition (all based on tech of course) and a closing dinner



dubbed as "7-ate-9" (clever – we know).

So far we have a speaker line-up that consists of talks from the Gaming, Software Development and Mobile Technology sectors with more speakers to come. We are also excited to announce that Infusion will be hosting the Elympics event which can only mean fun!

We are also SUPER excited to announce that we will be giving away a \$500 EPIC Scholarship courtesy of studentawards.com. If you haven't checked out this site yet you definitely should. It is basically your one resource to finding out about all the scholarships that you could be eligible for getting. It makes searching and applying for money easy...and really, who wouldn't like that?!

Since EPIC first started earlier this year, we have seen many successes that make us even more excited about everything that we are doing. We currently have an Executive Board of over 20 students from various Universities along with Industry Mentors and a Board of Advisors with amazing people from companies such as Google and Rogers. If you are interested in becoming part of this amazing team or have any questions, please contact info@epictech.org.

Be sure to check out our website at www.epictech.org and make sure to follow us on Facebook and Twitter to keep up to date on everything that is happening. And remember...January 15-16, 2010 is when this exciting event is taking place, so be sure to be there!

Ignite Waterloo!

JACLYN KONZELMANN
4A MECHATRONICS

"If you had five minutes on stage what would you say? What if you only got 20 slides and they rotated automatically after 15 seconds?" This is the basis of all Ignite events, an idea that has garnered attention worldwide. Ignite started back in 2006 by two people in Seattle, and since then, these types of events have popped up all over the world.

Ignite events typically bring out around 16 speakers who talk about a variety of different topics. Each speaker has something different and interesting to speak about, but they all have one thing in common – they are VERY passionate about their topic! To check out webcasts from some of the past events go to: <http://ignite.oreilly.com/>.

Ignite Toronto took place last month to a sold out audience in the heart of TO. On November 25, I am excited to announce there will be an Ignite Waterloo! The event will be held at the Children's Museum on King St and feature a fun "ice-breaker" competition followed by 16 riveting speakers. Topics include: "Til Disconnection Do We Part: A Second Life Wedding", "ChangeCamp: How the Social

Web is restoring community", "Meta-Making: Creating a hacker space in 17 easy steps" and "Solving a Rubik's Cube in 90 seconds"... because everyone could benefit from knowing this little *trick*!

This event is an excellent opportunity to listen to some interesting talks, learn something new, and meet some amazing people... and best of all it's free! Ignite Waterloo will have its second event in the New Year. If you feel that you have something that you want to talk about, then we want to know! Check out the website at www.ignitewaterloo.ca and join the Facebook group to keep up-to-date and get in touch!



Open Source is Here!

JACLYN KONZELMANN
4A MECHATRONICS

Are you interested in Open Source? How about Free Software? If you answered yes to either of these questions (or both!) then you should check out FSOSS (Free Software and Open Source Symposium). This event will be taking place on October 29-30th, 2009 at the Seneca@York Campus, Toronto. FSOSS is the closing event to the Toronto Open Source Week taking place in... you guessed it - Toronto.

The FSOSS topic line-up currently consists of: "Open Source for fun and profit: Making a career out of FOSS", "The Science of Community" and "Communication In Open-Source Projects", to name just a few. This event will be highlighting the best of the Open Source world, with speakers from Mozilla, Red Hat, DMN Communications and Psiphon Inc & The Citizen Lab.

To learn more about this cool event and to register go to: <http://fsoss.ca>. You can also follow them on Twitter at @fsoss. Be sure to check this out!

Waterloo Engineering Competition

KEVIN LIU AND KEVIN LING
WEC DIRECTORS

This term we will be hosting the 2nd ever Waterloo Engineering Competition (WEC). As of its premiere last term, the WEC serves as the University of Waterloo's qualifiers for the annual Ontario Engineering Competition (OEC). WEC is organized and sponsored by EngSoc and the Sanford Fleming Foundation (SFF). It is a series of engineering design and communication competitions and is open to all undergraduate engineering students, including first years!

There are several ways to play. WEC will be hosting 6 different categories this term: Junior Team Design, Senior Team Design, Consulting Engineering, Debates, Technical Speaking and Innovative Design.

Junior Team Design sees first and second year students design and build a solution to an engineering problem in teams of four, using only basic materials. Senior Team Design, for third and fourth year students, has teams of four create a solution to a more advanced engineering problem. Design competitions test students on their hands-on abilities and practical problem solving skills.

In *Consulting Engineering*, competitors are tested on their project management and research skills by finding and presenting a solution to a real-life engineering problem in teams of four.

The *Debates* competition will be parliamentary style in teams of two and cover a range of resolutions.

Students returning from work term with a good work report may be interested in trying to win some money by participating in

the *Technical Speaking* competition, where they will present on a technical topic of their choice.

This term, WEC will be happening in two phases. The first phase is fast approaching and will consist of Debates and Technical Speaking, which will both be run by the SFF. These events will take place on the week of Thanksgiving Monday. Debating will be held on October 13-15 from 11:30 am to 1 pm, with the finals on Friday, Oct 16, outside of POETS at noon. Technical Speaking will be on October 15 from 10:00 am to 2 pm.

The second set of competitions will consist of the two design competitions and the Consulting Engineering competitions. These events will take place on the evening of Friday, November 6, and the morning of Saturday, November 7.

All events are free to participate in and there are monetary prizes for the top teams in each category. There will also be Novelties door prizes for the November competitions that all participants will have a chance to win. Competitors get the opportunity to experience real hands-on design and prototype building with a team. The winning teams get recognition on their official transcripts and will represent the university at OEC, which UW will be hosting in the new year!

On top of all that, all participants will earn P**5 points for their class. For the design competitions and consulting engineering, participants will receive 150 points each. That could be a total of 600 points for your class if all team members are from the same class! Participants in the Technical Speaking and Debating competitions will receive 200 P**5 points each.

Phase one registration (for Debating and Technical Speaking) is currently open. Anyone interested in technical speaking should email a presentation abstract and draft slides to Professor Douglas Harder at dwharder@uwaterloo.ca. For debating, teams should email Professor Kaan Erkorkmaz at kaane@uwaterloo.ca. The registration deadline for these two events is on October 5th, so hurry up if you want to compete!

Phase two registration (design competi-

tions and Consulting Engineering) will open on October 12 and run until October 23. Please check the WEC website and the IW during that time for more information.

The WEC is expecting a lot of participants this term and there are limited numbers of entries, so get your team together and register online on our website as soon as possible!

For more information on the competitions, visit the WEC website at wec.uwaterloo.ca.

WARG Reinvention

MICHAEL LIM
POLITICAL SCIENCE

After a brief hiatus in 2009, we are witnessing the rebirth of the Waterloo Aerial Robotics Group. WARG has a storied and successful history in its 10+ years of existence. Initially, the team's focus was autonomous model helicopters. However, as the field of UAVs expanded and competitions adapted, WARG rose to the challenge. At the International Aerial Robotics Competition (IARC) in 2004, WARG achieved level 1, earning a 1st place finish. In 2005, WARG placed 2nd overall. Additionally, past team members have won Best Technical Paper and awards for innovation. In keeping with this University's spirit of ingenuity and talent, this was done at a tenth of the budget of most other schools.

These past achievements have propelled WARG into the future. The talent, experience and equipment WARG has accumulated over the years has allowed for a rapid expansion. This is where you come in. Traditionally, WARG has competed exclusively in IARC,

however just as the world of autonomous aerial robotics is constantly growing, WARG is too. We are planning to compete in various competitions of different sizes and complexities to allow the participation and education of members with different levels of experience. We are looking for members with any level of experience to help us in these new projects so we can continue the success of WARG.

In the past, WARG has served as a resource for fourth year design projects. Over the years we have amassed a plethora of resources and equipment that is consistent with the leading technologies of the field. We also serve as a hub of information and experience as our diverse membership includes students, professors and even pilots. We not only want to continue to serve as the umbrella group for fourth year projects, but encourage more fourth year students to join our team and winning tradition.

So, if you are interested in aerospace, robotics and winning there's always room on WARG for you. Contact us at warg@engmail.uwaterloo.ca for more information.

What UW Won't Teach You

Part 1 Bending the World to Your Will

MOHAMED FARID
PRESIDENT MANAGEMENT
CONSULTING CLUB

This is the first article of a series of articles on skills UW won't teach you. As President of the UW Management Consulting Club, I talk to recruiters from many firms, both consulting and non-consulting firms. In this series I intend to share with you some of the knowledge I have gained. The most important remark I get is that when compared to our peers in other top universities, we tend to lack leadership. Leadership is an important skill for your success no matter what career you choose or even if you decide to stay at home and bring up a family.

"Leadership is the art of getting someone else to do something you want done because he wants to do it" Dwight Eisenhower - 34th President of the United States and First Supreme Allied Commander Europe.

Ever think that there's something wrong with the world? Well leadership skills are your tool to fix it. Though it is commonly believed that leaders lead groups of people, this is far from the case. Many of the most effective leaders are those who sit in the corner and think about things, rather than convince people to do things for them. A good example of this type of leader is Karl Rove (not that I support any of his ideas).

So why is leadership important to your success?

Unless you're a prodigy like Albert Einstein, no matter what you do in life - it is difficult to succeed without leadership. If you can't influence people to help you achieve your goal, than by definition you must achieve your goals alone - an all but impossible task. Additionally without leadership skills, no one else can benefit from your brilliance; this is why many of the most respected employers such as General Electric, Goldman Sachs, McKinsey & Company and Microsoft look for proven leaders.

How to become a leader?

Practice makes perfect. Mastering leadership skills is not an easy task. Make it

your goal to not leave any organization the way you entered it, whether it is your co-op employer, your family or your university. Given that you got into UW it is safe to assume that you're smart enough to find an area which needs change. Once you find that area the next step is to figure out how you will drive this change. Many books exist on this part of leadership, one of my favorites - a must read - is "How to Win Friends and Influence People" by Dale Carnegie. One of the most important points of this book is to make the other person understand why what you want them to do is important to them.

Don't wait or it may be too late!

As one of the main goals of UW's existence is to serve us - the students - and since UW is a young university with much room for improvement, it is an ideal place for you to tone your leadership skills. There are a plethora of opportunities to get involved whether it is with Feds, EngSoc or one of the clubs on campus. If you can't find anything which interests you even better - start something new. The greatest thing about this place is that anyone - even the president of UW - will listen to you and help you if you can make them understand why what you want is important to them.

No matter what path you decide to take in life, leadership will help you succeed. If you want to go up the corporate ladder - the best companies will have hundreds of applicants who can do the job, they will hire people who have a track record of leading. If you decide to go into non-profits - leadership is what will allow you to grow your organization and increase your impact. If your passion is academia - leadership is what will make people listen to your theories and learn from you. Even if you just want to have a family - well it takes a tremendous amount of leadership to convince a five year old that it's not a good idea to drink Coke at 10:00pm. Leadership is a key skill for your success in life and school is the ideal place for you to tone this skill. So start now - give yourself a competitive edge, and help make the world a better place, become a LEADER!!

A Big Hello From FEDS

ALLAN BABOR
FEDERATION OF
STUDENTS PRESIDENT

Hello Engineering!

What an exceptional time to be an undergraduate student and member of the Federation of Students (Feds) and Engineering Society (EngSoc) here at the University of Waterloo!

With over 24,000 full-time students leading our innovative community, Waterloo has become a catalyst for learning, sharing, connecting and influencing change at all levels of our society. The Faculty of Engineering has also been a foundation for decades of tradition and spirit on our campus.

The Federation of Students has continued to support the undergraduate experience since 1967 thanks to growing leadership of students just like you!

We SERVE you through our six businesses, UPASS, Fed Bus, and the Health and Dental plans, which provide valuable opportunities for all undergraduates.

We EMPOWER you through our eight well-established services, seven faculty societies, and our over two hundred clubs.

We REPRESENT your interests at all levels of our community from partner-

ships with the UW Administration to lobbying the municipal, provincial and federal governments.

We look to you to act as our eyes and ears across campus - identifying issues and highlighting opportunities, which will make our community the best it can be. Together we will act as the hands, which strive to lay an underpinning for a stronger tomorrow. Get in touch with your Engineering Students Councillor Anthony Iseyemi, Praveen Arichandran, Abhilash Jayakumar, Anna Lafoyiannis or Mohamed Farid- to stay in the loop.

A successful undergraduate career means finding a balance between work and life. Whether you are in first or fifth year: get involved, utilize the Federation of Students, and make the campus your own. Jump into one of the various roles in EngSoc, WEEF, Senate, Orientation, Students Council, and the list goes on... Be proud of our campus and don't miss a chance to show off your Warrior Pride!!

Stop by the main Feds office anytime (located in the Student Life Centre), or find out more online at www.feds.ca and challenge yourself to take the lead. There is literally something for everyone on our campus and it is never too late to get involved and used to the Feds services.

Shaving Heads For Charity



ADRIANA CAMERON
2T MECHANICAL

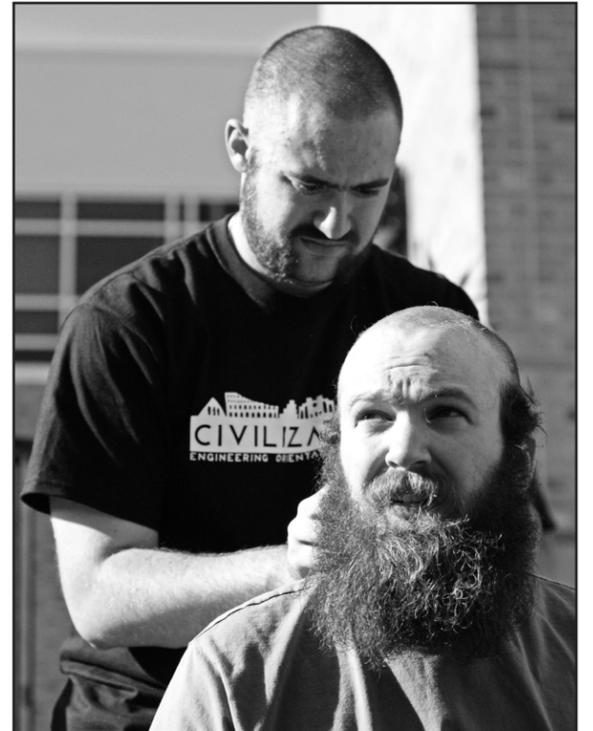
Perhaps you noticed that during the first week of class there were quite a few people wandering around the Engineering buildings sporting shaved heads or hairstyles that were rather odd. Chances are the person with the strange new haircut was one of the participants in the 2nd annual EngSoc Head Shave for the Canadian Cancer Society.

Many frosh, frosh leaders and several members of the community gathered around the POETS' patio on the Sunday afternoon before classes started. In fact, if you look carefully you can probably still find hair balls and gelled together bunches of hair on the patio... Participants volunteered to give up their lovely locks in exchange for pledges for the Canadian Cancer Society. Many of the participants were members of EDCOM and were sporting Mohawks, spikes or intimidating beards prior to the event. Others had afros, bright coloured hair and very long hair before the event went underway.

Additional money was raised because many of the participants auctioned off to the highest bidder the opportunity to style their hair however the highest bidder saw fit. Consequently, in addition to the traditional shaved head, the audience got to see a diverse array of hairstyles which include rattails (a tail of hair growing from the back of the head), skulllets (bald on the top, mullet on the bottom), and unicorns (a single spike of hair in the front center of the

head).

Just because the event was called a Head Shave, does not mean that the removal of hair was limited to the head. Some participants decided to wax their armpits, chests, legs and nipples. The audience took great pleasure in seeing the pain it caused some of these par-



Angelo Alaimo

participants. Unfortunately, there were no man-o-lanterns this year (a jack-o-lantern face made by waxing someone's chest).

Several people also cut off 10 or more inches of their long hair to donate to various charities that make wigs for cancer patients who have lost their hair. In addition to the Head Shave event, there was also a charity barbecue during frosh week. Burgers were sold to new students and their parents who had worked up quite an appetite while moving into residence.

In total \$5713.76 was raised for the Canadian Cancer Society.



Angelo Alaimo

WEEF TA? Say What?

TIM BANDURA
WEEF TA ME 100

So some of you first years may be wondering - what is a WEEF TA? Who are they? What do they do? For starters, most of them are not EDCOM. Actually, most things about EDCOM are not true. Being a WEEF TA is a co-op job that you can apply for in upper-years. First of all, you may be wondering why we are "WEEF TAs" and not simply just "TAs". While we are not funded in any way by WEEF, we do lair in close proximity to the WEEF Lab. We also support WEEF. WEEF is GOOD.

But like normal TAs, we help run a course. Typically we help to run your first year concept courses (ME100, MTE100, ECE140, CHE100, etc.), but that is not all we do! If you're having problems with any of your first

year courses, you can drop by any of the offices (E2 1311, E2 1318, CPH 1320B) for help! We've all taken these courses before (maybe with some difficulties) and we can definitely give you a hand in trying to understand the material. Each WEEF TA tends to specialize in a certain first year course, and you should seek those TAs when you need help.

However, since all WEEF TAs are undergrad students, you can talk to us about anything with respect to undergrad life! We are all pretty knowledgeable on our respective programs, upper year life, Engsoc, events and activities, and other aspects of student life. If you want to get involved, talk to one of us! We know the ins and the outs and can help you get a foothold on what you want to be involved in!

Come visit the TAs and remember that WEEF is good!

ARTS AND ENTERTAINMENT

The Brew Man Group: Trois Pistoles



DAN ARMSTRONG
3T MECHANICAL
NEIL PARTRIDGE
3T CHEMICAL

Dearest Brew Man Group readers, it is our regret to inform you that at the end of the spring term, Dan and Neil had a bit of a falling out. It began with a drunken argument over the incredibly vital question of which hop strain is superior, Cascade or Amarillo. Things were said, some worse than others, and well... long story short, Neil bailed and went to Japan for 6 months to find himself and Dan, no longer able to function in society, moved back home to live with his parents. The time apart is doing us well though, and we have agreed to apply the remote team working skills learned in PDEng 45 (...) in order to collaborate and continue to bring you new editions of The Brew Man Group. Now let's talk about an awesome beer that you haven't tried yet.

Dan: Trois Pistoles (French for 'Three Coins') is a Belgian strong dark ale with a 9% ABV, made by Unibroue in the small town of Chambly, Quebec, just outside Montreal. The brewery started up in 1992 with the aptly named Blanche de Chambly, a delicious witbier (Belgian wheat beer) that is well respected throughout North America. New beers were added every few years, the entire premium line-up consisting of Belgian style ales. In 2004, Unibroue was purchased by Guelph's Sleeman, who thankfully didn't interfere with the

brewing process. Sorry Sleeman, I just don't trust you with anything too complex. Two years later, Sleeman was bought out by Sapporo, so now Unibroue is technically owned by the Japanese.

Aside from those already mentioned, Ontario beer drinkers are also able to buy Unibroue's La Fin du Monde and Maudite, two very tasty strong beers. Sadly many of their brews are not available at the LCBO or Beer Store, but thanks to Sapporo's distribution system, several more can be tracked down at some of the better-stocked bars (read: Kickoff's). It should also be mentioned that 6-packs of Trois Pistoles and other Unibroue beers are quite inexpensive at the Beer Store; they cost the same amount as a 6-pack of Keith's, but there's twice the amount of alcohol and ten times the amount of flavour. Make sure to pace yourself though, these beers are smoother than Neil's freshly waxed back.

Neil: Konnichiwa Waterloo. After Dan's constant onslaught of low blows, I decided to move to Japan where people treat each other with some respect. Already, I've found a robot friend with no false-bravado to replace Dan. In regards to the beer, I'm quite glad Trois Pistoles remains true to its roots. After all, I don't need my six pack of beer to double as a portable karaoke paa-te player (or do I?). Nevertheless, Belgian dark ales are typically known for possessing a wide array of flavours, all of



which can be strongly pronounced or subtly expressed. Typically, they are complex, sweet, and quite fruity. Define fruity. (1) Tasting of or smelling like fruit. (2) Dan in his favourite XS Club Monaco V-neck pull over. Given the strength and complexity, this style can even be appreciated by snobby red wine drinkers. The appearance of this brew is typically dark (obviously), but can vary from a deep garnet to a light nut brown. These, like most Belgian beers, should be poured with lots of head in order to release the aromas and protect the sweet nectar beneath. Alcohol content in a strong Belgian ale is usually quite high (SUPER Bonus ^_^), ranging from 7-15%, meaning Dan can only drink one of these with his parents' permission. Although for the rest of us, kono biiru wa nonde onegaishimasu (Please drink this beer).

Dan's thoughts: It's a good thing my parents are away on vacation right now, I totally drank TWO of these last night! Here's what I thought of the first one: it pours a deep blackish brown with nice thick layer of head. This definitely stays true to the style, displaying ripe dark fruits (cherries, plums, raisins), sweet chocolate/caramel malts, and some spiciness from the distinctive Belgian yeast. Here's what I thought of the second one: thank God I have more of this stuff to drink. The 9% ABV really does sneak up on you though, as exemplified by our friend Neil. On a regular Tuesday at

Kickoff's, he ordered three of these without realising how strong they were. He then spent the next half hour trying to toss coasters into my pint, apparently oblivious to the fact that the diameter of the coaster was larger than that of the glass. To be fair though, I've already learned that the guy lacks basic spatial sense, and I'm pretty sure he was lost in some sort of euphoria as the result of three bottles of such a delicious beer. [4.5/5]

Neil's thoughts: Sadly, it's been a little while since I've had the pleasure of tasting a Trois Pistoles, or other Belgian dark ales. Over here in Japan, I suspect that Japanese brewers try to assassinate gaijin via exploding stomachs with extremely over carbonated lagers... Nevertheless, I'm still here, so I'll try to recall what I can. A complex first taste of chocolate, fruit (perhaps cherries) and malt are pronounced. Next, alcohol shows face, but isn't overpowering in the least. With the addition of a spicy aftertaste, Trois Pistoles provides a welcome warming on its way to down to my stomach, where it and all other beers belong. The head takes form with a light cream colour and exhibits almost perfect retention and lacing. This beer definitely rates high in my books. In fact, I decided to write a Haiku about it.

Belgian darks are great.

Drink them in any season.

Dan is short and weak.

[4/5]

Recommended for consumption if you enjoy: Chimay Blue, Maudite, red wine

Props to hops // Dan and Neil

The Future of Gaming

Gaming Doesn't Have to End



JON MARTIN
OBI JON1138

As an Xbox 360 owner and the sibling of a Wii owner, any perceived bias towards or against specific consoles is due to my lack of disposable income. If I could, I would also buy a PS3, but as a student, that is not possible. Please forgive any disproportionate coverage; I do my best to cover issues that affect all consoles, without focusing on or neglecting individual systems.

To all the new first year students, or just frosh to make it simpler, welcome to UW! UW has a wealth of opportunities awaiting you, so take advantage of everything there is to try. Join a club, team, or group – with so many different things on campus you are bound to find something you like. On the rare chance that you don't – just make your own group.

Of course if you're reading this article you are probably interested in gaming, so I should suggest UW Gamers as a great club to join. UW Gamers organizes events throughout the term so that gamers can hang out and challenge each other to different games on lots of different systems. With the large student population chances are someone else is just as fanatical.

So on to my main topic, gaming doesn't have to end. This year we're going to see a lot of top rated games being released (I can't wait for Bioshock 2), but don't despair about your class schedule and the amount of work you get. University is all about finding that balance of work, extra-curricular, and social activities. I'm not saying I've found my own balance – I'm in 2A, and I doubt a lot of people in upper years can claim that they have found their perfect balance yet either. Just don't forget to have fun and enjoy the experience, focusing too much on classes will cause your brain to melt – maybe not literally, though that would be an interesting sight – but you won't be happy, healthy or successful in life. Relax, do the work, don't procrastinate (I need to try this) and have fun. If you get into the swing of things, there's no reason for your

entire life to be consumed by work and never have time to blow up some aliens, level up your character, or beat the next level of your current addiction.

In The Future of Gaming I address issues, rumours, and current developments within the world of gaming. Or anything else that gets my attention and can provide enough material for an article, but still game related. Things like the PS3 Slim, the rumoured new black Wii (same price of course), the politics surrounding new games, price cuts – or SKU changes in the case of Microsoft – it's all fair game. Articles are meant to appeal to as many people as possible, so I try to avoid talking at length about specific games as they vary so much and people like so many different styles and genres.

On the point of price cuts, if you are thinking of buying an Xbox 360 in the near future, just wait a bit. The future of the Xbox 360 looks a little more lean than it has been for the last few years, with the reduction to only two SKUs – the Arcade and Elite Systems. The Pro system is being totally phased out, with new Arcade boxes only showing the remaining two systems and the Elite system being reintroduced in the same packaging colour as the Pro. To entice new users the Elite will stay with the exact same features, same 120GB hard drive – but hopefully permanently drop in price by \$100 (some stores currently offer a \$50 discount).

Just six weeks ago I would have had to mention the "rumoured" PS3 Slim, instead I'm now talking about a system that has been on sale since the beginning of the month. The new Slim model does away with the memory card reader and the ability to install Linux, but also cuts the size and weight dramatically. The system includes a 120 GB HDD and retails for \$299, which is the same price as an 80GB 'Fat' system. Also, the PSP Go is on the horizon, set to have 700 downloadable games available at launch. Previous readers will know I have been awaiting a PSP with a second analog controller; unfortunately the wait is still on.

Nintendo has seen a lot of success with Wii Sports resort and the Wiimotion Plus peripheral, but have posted a decline in the sales of the Wii system. Maybe they have finally sold one

to every person on the entire planet – or people are tired of seeing the same price and are waiting for a price cut. Well, the wait is now over, Nintendo announced at the Tokyo Games Show (TGS) that the Wii console will be dropping in price to \$199 (a drop of \$80). This price drop will no doubt boost the sales of the Wii console, even into the holiday season when all systems traditionally see increased sales.

On to a little news; the Government of Ontario and Electronic Arts have announced that an EA office will be opening in Ontario – specifically in Kitchener. Too all the frosh new to the area, and some upper year students who don't bother to read the signs welcoming you to other cities, Kitchener is the city bordering Waterloo (with almost twice the population). Anyway, the office is located at 130 Weber Street West, and is home to ten employees. Though the small size may be deceiving, they were drawn to the area by the "strong talent base in the region", as Director of Communications Colin Macrae said. So there is always the opportunity for expansion, until the Waterloo Region office rivals those in Vancouver, Edmonton and Montreal. The Canadian offices of EA are responsible for hits like FIFA Soccer, Mass Effect and Army of

Two; hopefully the local office will be just as successful in the years to come.

As for useless but funny gaming news, here are two items. A team of police in Florida broke down the door of a suspected drug dealer, and while collecting evidence decided to let off some steam by playing some Wii bowling. All this was caught on a security camera, then leaked onto the internet. I'm not making any comments about the people who dedicate their lives to keeping us safe – it's just kind of funny. And a new game may seem fun but probably won't be funny if you don't read the small print. "Wired:Lose/Lose" is a non-descript top down retro style shooter, with you controlling a ship to shoot aliens and avoid being hit by them. The interesting part is the fact that each alien on screen is associated with a personal file stored on your computer, when you destroy the alien the file is deleted as well. If an alien collides with your ship you lose and the application deletes itself. I haven't personally tested this – for obvious reasons – so user beware.

So that's it for this time, a little more disjointed than normal – quite a bit of stuff has happened in the time since the last issue. Keep on Gaming.



PHOTOGRAPHY

101

THURSDAY, OCTOBER 8TH

5:30PM

IN POETS

(BRING YOUR CAMERAS)




Ways to Waste Time In Line

SEBASTIAN LISIECKI
1A MECHATRONICS

So as I sit here writing my first article for the Iron Warrior, expecting Kanye to jump out and enlighten me as to who wrote the greatest article of all time, attempting to be humorous yet informative while getting all my ideas down, I can't help but procrastinate and find better things to do. Thanks to the magic of the internet, I can spend 5 minutes punching out lines for this piece, and take 30 minute breaks to browse the nether regions of the internet, swiftly discovering the week's hottest meme. I promised myself I wouldn't use puns. But what does one do for entertainment while waiting in line, without an iPhone? Here is a list of things you can do to pass the time;

- Tap the shoulder of the person in front of you continuously until they get severely annoyed, at which point two things can happen. A, they decide to leave the line, or B, you get punched in the jaw, and wake up a few hours later contending with a far smaller line.

- Ask the individuals around you if they know how H1N1 is transferred, mentioning how you are scared of acquiring it through your potentially infected roommates. Wait about 5 minutes before sneezing and coughing like a mad man. Watch the line disappear.

- Spontaneous tap dancing.

- Challenge those around you to thumb wars, proposing the winner moves up in line.

- Stuff your pockets with frogs prior to your wait in line. Slowly allow each frog to escape in 5 minute intervals. Plead ignorance when questioned on the frogs. Deny everything.

- If you're going to an event with some friends, challenge each other to see who bring the most stuff with them to the line without using a bag. Please note, if you are friends with

"Thunder Tunnel", YOU WILL LOSE.

- Carry a large amount of change with you, every time the line begins to move up, proceed to spill some on the ground, hindering those behind you from moving up as you frantically crawl around collecting your coins.

- Start a conversation with an individual in the line; see how many pop culture references you can throw into the conversation in 5 minutes.

- Hum the tune to a famous song, continue by singing the lyrics to a different song with the tune you were humming, see if anyone notices.

- If the individual in front you has dandruff, instead of being grossed out, imagine the flakes of skin are flakes of snow instead. Processed to visualise a wonderful snowy meadow, full of snowmen and snowballs, and white fluffy bunnies, because everyone loves bunnies. A magical winter wonderland.

- Do it live.

- If you're a handy individual, fashion yourself a mysteriously shaped suitcase, prior to arriving at the line you will be waiting at; remember to fasten a large number of locks onto it, 10-15 should do. Handcuff said suitcase to your arm; proceed to give the evil eye to all individuals in the line looking at the case.

If you didn't find this list helpful, or don't find the suggestions particularly funny or original, then maybe you could just read a book, and actually learn something. And because I cannot think of a proper ending to this article, I would just like to say, I hope you guys enjoy this piece, and if all goes well and I continue to have ideas, I'll hopefully be popping out with a few more of these puppies in the next few years.

For now I bid thee adieu Waterloo.
Cheers.



**CHAD
SEXINGTON**
3.5B
MANGENEERING

Hey Sexypants readers!

Today I'm going to answer a bit of mail from my mailbox! Fall has arrived, but don't despair yet because there are still a lot of warm days left in reserve. That means you shouldn't be putting away your sexy summer clothes just yet. All you need to do is make sure those steamy summer-like days don't surprise you. "How can I stay sexy and always be prepared for a sudden sunburst in this increasingly cold term?!" You wonder in emails to me at questions4chad@gmail.com. Simple my fans: Down with pants.

A sweater solves a chill in about as many seconds as it takes to spell sweater. So I won't bother you with the trivialities of shirts and shoes, they can be adjusted on-the-fly to keep you stylin' throughout the day. Instead, I shall now dispense: Chad Sexington's Top Five Fantabulous Ways To Remain Anti-Pants As Long As Possible. Read onwards and discover the true secret of always being prepared for the heat.

- 1) Train yourself to master the cold. One way to always be confident wearing shorts, is to do a little bit of high longitude training. Head up to a northern location for a work term or on your vacation, wrestle a few polar bears, and by the time you return, even a balmy 30 below will seem like a hot night south of the border. Watch out for ice wells so that you don't fall in.

- 2) Wear long dresses! Ladies this is more an option for you but I won't discriminate.

A longer dress or skirt can keep you warmer than a pair of shorts, plus you'll always be set for renegade semi-formal events that happen in the halls during the day (if such events could be said to occur regularly).

- 3) Fellas: Grow a lot of hair. A huge beard or leg hair, or even a really long mullet can be tucked out of the way when not in use, but can be deployed like a personal insulation device when required. Simply wrap a flowing beard like a scarf and you'll forget all about the fall fridgidity you're experiencing. Warning: The quantity of ladies that find large amounts of hair appealing may not be as high as was originally forecast.

- 4) Join the anti-pants revolution! Meetings are held regularly, find the local chapter and join today(pants not permitted).

- 5) Move to the woods. Should you desire to give the full monte, all you need to do to prevent a myriad of indecent incidents is to shift your locale to a more pantsless-friendly position. Deep in the woods, deserted islands, or the moon are all perfectly good options (astronaut suits do not count as pants, but are more like coveralls). These places are also usually hotter than Waterloo, so you can avoid the pants issue altogether.

There you have it faithful readers, if you can choose on of these effective, innovative, forward-thinking, risk-taking and collaborative ideas for your remaining sunny days you'll be the talk of the town from here until Christmas! Don't forget to email me any other questions you need some sexy advice for in the future.

Until next time,
Stay Sexy.
PewPew!

Review Based on the Trailer: Zombieland



JON RADICE
3T CHEMICAL

As Vampires being the horror-specie du jour, it's sometimes good to remember that everyone's favourite horror-movie mainstay is alive and kicking. Up until recently zombies haven't really had much luck at starring in a halfway decent movie. They're generally pretty un-scary; they move slow, they can't plan any elaborate traps for humans, and they can be heard a mile away with their incessant groaning. Luckily for these guys they have had a string of relatively good movies to dispel with these bland commonalities. Zombies too slow? Speed them up 28 Days-style. Heard a mile away? Stick them in a mall a la Dawn of the Dead. Zombies not scary? Make them funny, Shaun of the Dead style.

And that's Zombieland, the more guns and effects and YEAH AMERICA version of Shaun of the Dead. Filled with gore, one-liners, and slow-motion crash scenes, this movie has the making to be a mindless thrill. Who would have ever thought that Woody Harrelson would evolve from being the wimp under Ted Danson's Cheers bar to one of the more effective bad-asses of the last few decades (Natural Born Killers is another awesome ultragorefest featuring Woody). And whether he's shooting zombies with uzis, hacking them with two chainsaws, or running them over, the man exudes a glow that makes every shot scream badass (in a simpler time, he'd do the entire movie with a cigarette in his mouth - damn anti-smoking firms). Jesse Eisenberg, playing the Jesse Eisenberg character, a slightly less dopey Michael Cera is fresh off of one of my favourite surprises this year - Adventureland. He's a perfect foil to make Woody Harrelson, and even Emma Stone for that matter, 'pop'

as gutsy badasses while throwing in the nerdy one-liners that I'm sure take up the movie.

But while this movie does seem like a killer ride (with a lot of the preview taking place in a theme park), it could suffer from some points that have plagued other so-called adrenaline-fueled thrill movies in the past. It could suffer from the number one killer of action movies - too much plot. I definitely don't want to see a twenty minute dialogue explaining how zombies came on the earth. It's not the point of the movie for them to save the world, I don't expect them to solve all of life's problems. The second thing that could be a deterrent is the possibility of too-much-love. While it's obvious that Stone and Eisenberg will probably show some chemistry, as there are some hints in the trailer, I don't really want the movie to derail from it's action in order for Eisenberg to daringly swoop in and share his feelings, in addition to his glorious five-year-plan he has for them,

while tears are streaming down his face. Simplicity is key here people: they see a zombie, they kill the zombie, they see more zombies. This repeats until they run out of badass comments or imaginable weapons. At that point I wouldn't mind seeing them all be killed off. A nice Nihilistic touch to this movie would make it a repeat watcher: don't make them heroes of destiny, and don't make it so that their life has meaning. Because honestly, we're just here to watch Zombies die. I can't really say I have the utmost faith in a director who's most notable prior performance is 3 Jimmy Kimmel Live episodes, and as a result this movie could be his for the butchering.

All-in-all I've been talking non-stop about wanting to see this movie to my friends, and I'll be there to see it on October 2nd. Does it have the potential to suck? It sure does. But I have faith that this movie will be a bloody good time, or at the very least be worth the price of admission.

How to Lose Friends and Alienate Your Roommates



**MICHELLE
CROAL**
3T CHEMICAL

Ah, the smell of independence! The breath of freedom! For many of you, this is your first time living away from home, and the very air itself is fresh, new and full of worldly and wondrous opportunities. However, that sweet scent may soon be replaced with another not so pleasant aroma- the rotting reeking stench of your roommate's dirty laundry. Over the years, I've picked up some habits and tips to help me deal with living with strangers, and I wanted to spare you the trouble of making your own mistakes...

1. **On cleanliness:** Washing dishes daily is really an optional task. Ideally, just stack them in the sink until you're out of dishes entirely, then wash them all at once - it's really much

more efficient. Unfortunately, you may find this once-a-term option to be necessary more frequently, as all your glassware starts to smash under the weight of various woks, pans and cookie sheets. With respect to laundry, all at once is also the best way to go. The most efficient engineering student will wear every single piece of clothing he or she owns, then spend 18 hours straight hogging the washing machine (it doesn't matter if your roommate has nothing left either, first in wins). Alternatively, wash one item of clothing as soon as you use it, just in case you feel like wearing it tomorrow.

2. **On housing security:** Short of getting a high powered pricy electronic alarm system, or a dog that needs feeding and walking, the single most cost effective way of protecting your residence is with shoes. Yes, shoes. By ensuring that each housemate has at least 6 pairs of shoes strewn all over the entrance, any would be burglars or late night stumbling en-

tries are certain to be thwarted. You can then hit the intruder with one of said shoes until he leaves or the police come.

3. **On shared spaces:** Common rooms are really just another place for you to store your unused suitcases, backpacks, umbrellas or critically important assignments and papers. Continue to ignore your items until they are finally thrown out by your frustrated roommates, then throw a fit and claim you were just about to hand it in, pack your things, etc.

4. **On moving in/out:** Midnight is the best time for activities of this type. If your roomies aren't awake when you arrive, they soon will be. Then you can share all your weekend stories! Be sure to drop things frequently, make as many trips as you can, slam doors and crackle bubble wrap to heighten the moving experience.

5. **On overnight guests:** Your dearly beloved friends love to drop in unannounced, so why shouldn't they? 7am on a Monday

morning is an ideal time for guests to visit (or leave), as they can interrupt as many regular schedules as possible by showering, breakfasting and lingering. Also, you're paying the rent, so why not just let them stay the whole week?

6. **On food/groceries:** Some houses chose to pool resources and shop for groceries together, while other fridges give host to 5 different types of milk and bread. Either way, university like never before is the time for raising microbial cultures and conducting do-it-yourself biohazard research in your kitchen. Use your knowledge well, my friend.

I hope that these (rather satirical) tips have given you some insight into what you may see living with strangers (who can become your friends) over the next few years. If you are indeed a keen, observant engineering student, you will glean true meaning from my words, but if not no matter. Lower your standards for quality of living, and all will be well.

The Adventures of Dangerman

Achieving Evolutionary Success for Dummies (i.e. Engineers)



Dearest Reader,

To begin with...I'm going to have more offspring than Genghis Khan¹.

When it comes to the question of what women really want, for me the answer has always been fairly obvious, "They want to kill me...usually painfully". And, I won't deny that it's sort of cute in a way. You can tell a lot about a woman by the way she tries to kill you. Poison usually indicates a lack of imagination; firearms a lack of subtlety or creativity. On the other hand, a No.76 Special Incendiary Grenade left almost carelessly to fall out of your kitchen cupboard...that's when you know you've met someone special².

For the typical unfortunate self-declared "Nice Guy" or "Nice Girl", I can empathise that the task of meeting someone or worse keeping someone is demonstrably more dif-

icult without explosives to keep things interesting. However, having "relations" and learning about having "relations"³, especially in university, is probably more important than anything else you will learn to do. This is of course unless you ask Dean Sedra to teach you knife-fighting or former-acting-Dean Rothenburg how to shoot blow-darts. Two gentlemen I recommend you never cross...

However, I digress:

Dangerman's All-Purpose Guide to Achieving Evolutionary Success:

1. First and foremost, never let on that you're in engineering. The only thing to kill a mood faster is to admit to being in computer science. Tell them you're a doctor, or a commercial airline pilot (i.e. lie... romance is built on lies).

2. Learn to dance. But NOT tap-dancing, there's no more tap-dancing for anybody, it will never be cool again... ever! Regular dancing on the other hand, just in case it comes up, invaluable.

3. Be conscious of odour. Don't douse yourself in old spice, but don't pretend your

cleanest dirty shirt smells "manly" either. Ladies, this goes for you too.

4. Don't lose the star wars sheets... they work baby, oh yeah!

5. Own a guitar. Don't worry about knowing how to play it, just be seen holding it every once in a while. Maybe learn some chords just to be safe.

6. Write for *The Iron Warrior*...just trust me here.

7. Learn how to cook at least one meal really well. Subconsciously being seen as a provider can work for anybody, just look at Julia Child.

8. Convince someone the world is ending. Orson Welles took my advice on that one a little too far, but you wouldn't believe the action he was getting during the War of the Worlds broadcast. Best first date scenario ever!

9. The internet is always full of desperate people. Just remember, you get what you pay for...

10. If all else fails there's always Stockholm Syndrome.

Now, understandably reconciling one's self to the prospect of having babies, can often be more difficult than actually making them in the first place. They're expensive (18 years expensive!), loud, irritating little monsters that look conspicuously like Winston Churchill. However, as the most intelligent people in Canada for the next generation or so, it's sort of your obligation to have at least a couple to replace yourselves⁴. Just bite the bullet kiddos and get used to the idea, Engineering is about sacrificing for the common good.

Sincerely,
Dangerman
Eric.Dangerman@gmail.com

1. Apparently 1 in every 200 men worldwide have genetic links to Khan
2. Pamela, Northern Ireland in 1979, absolutely gorgeous as far as terrorists go.
3. <whispers> Sex!
4. Disclaimer: I'm not recommending you all get pregnant right now. University is for keggers, not preggers, practice safe sex.

The Iron Sudoku

Su-Chem-Du

ALISON LEE

1A NANOTECHNOLOGY

It's Sudoku, but with elements! You must fill all boxes so that no row, column or square contains the same element twice.

H			He			Li		C
					N	Be	He	
	N							H
					Be	B		N
	H			F		C		
He	Be	B			O			
	B	O	N	Li	He			
	C						Li	
			F					Be

Use the first nine elements from the periodic table. For those of you still who still need to review the basics: H, He, Li, Be, B, C, N, O, and F

profQuotes

From Simon Wood, Music 140

"Waterloo has the highest quality of students. You wouldn't believe the whiny emails my Mac students have given me."

"This is the funnest course on campus, of course, unless Kanye West comes in here and tells us otherwise."

"I started off at Waterloo in engineering for first year, our first course was about fire, that's how old I am"

"We used to trip the geeks with punch cards back in high school. Little did we know they would rule the world"

"If I catch you cheating on a test, ninjas will descend and beat you in the head with a sharp stick"

Volunteer with *The Iron Warrior*!

Meetings every Monday at 5:30 pm in the Iron Warrior Office (E2- 2349A).
NO EXPERIENCE REQUIRED!

THE IRON INQUISITION

Sydney Bateman and Cailin Hillier, 2B Environmental and 2B Geological

"What is your most memorable experience at Waterloo?"



Amy Chanette
Mechanical '94
Former EngSoc
VP- Finance
"WEEF being established."



Jim Downey
Chemical '89
"Graduating!"



Brian Demoe
Elec '84. Former EngSoc President.
"The Iron Ring Stag...I don't remember much of it."



Peter Kresin and Mel MacKay
Chemical '69
"The Iron Ring Ceremony."



Kevin Rooney
Mech '94
"We destroyed a house once"