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Midnight Sun Gears Up to Get Down Under for the World Solar Challenge

ANGELO ALAIMO
4N ELECTRICAL

The University of Waterloo Midnight Sun Solar Race Car team fresh off of unveiling the 10th iteration of their car, Midnight Sun X, is gearing up for this year's World Solar Challenge (WSC) after being absent from the competition since 2007.

Teams from all around the world travel to Australia to compete in the challenge which spans 3000 kilometers from the north coast at Darwin through the outback to Adelaide on the south coast.

Held every other year, this iteration of the World Solar Challenge will feature cars from just under 20 different countries from around the world. Three other entrants from Canada will be competing hailing from the University of Toronto, University of Calgary, and École de technologie supérieure.

Compared to the North American Solar Challenge, the WSC is more demanding for teams as once the race starts, its continuous right until teams cross the finish line. Typically, teams need 6 days of travel time to complete the 3000 kilometer trek. By comparison, the NASC is held in stages so teams have the opportunity to fully recharge their batteries at the start of each stage. Strategy plays a huge part in coming out on top during the WSC and one needs to look at a variety of variables, including weather reports, to remain competitive.

During the WSC 2007, the team placed 9th in the challenge class and 2nd in the production class for the specific solar cell the team used. According to Team Manager, Kevin Kyeong, most teams use the more efficient and expensive Gallium Arsenide based solar cells. Due to costs, the team uses the lesser efficient Crystalline Silicon based cells.



Midnight Sun Solar Race Team shows off the Midnight Sun X vehicle, ready to be shipped to Australia for the 2011 World Solar Challenge.

The team has worked hard over the last two years to put together the car and getting to Australia was no easy feat says Kyeong, "Trying to get to Australia itself is a ton of work. Figuring out exactly what needs to be shipped and handling all these information to customs. Building a shipping crate is also another thing. The crate needs to have certain types of wood so that it meets Australian import regulations."

Once the car is shipped, the work doesn't stop there, "other things to take care of are to arrange rental vehicles that the team will be using during the race. It is important to figure out the race crew first and assign roles to each of them. Then, sort out who will be in the lead vehicle, chase vehicle, truck vehicle, and the schedule for the solar car drivers."

Drivers will face 45 degree temperatures

inside the vehicle during the race while driving through the outback and will be in the car for 4 hours at a time each over the course of the day. The team uses a cooling system similar to what's used in race cars which direct air from the outside directly on the driver without creating air wake around the vehicle.

The team hopes to complete the race in 5 days hoping the car will perform without suffering many problems compared to the race back in 2007 where, according to Kyeong, "we had some breakdowns on the road for the first couple of days. For the last couple of days of the race (the whole race was 6 days), we managed to not have any breakdowns on road and the car was in a much better condition."

Overall the team is optimistic about their performance and looking forward to the

race which begins only 17 days from the publication of this article.

The team is also actively recruiting new members to work on the current car and begin thinking about the next generation solar car. Kyeong offers this advice for getting involved, "getting involved with the team is rather easy. It's really about committing oneself to the team. Many students seem to get lost in the process of joining the team. I think my best advice to them is to keep showing up to the Midnight Sun bay and contributing work to the team whether that be of your interest or not, because it's really about being part of the team before you can get your hands on the projects of your interest."

The World Solar Challenge begins on October 16th and runs until the 23rd of October. You can track the progress of the race by visiting <http://www.worldsolar-challenge.org>.



Photos by Ramneek Mangat

Know Your Rights: Turnitin

TREVOR JENKINS
3B MANAGEMENT

With classes starting up again, many of you may start seeing that you are required to hand in reports, essays or projects into "Turnitin", a plagiarism detection software program. While still not used in heavily technical courses found in Engineering, this program name is appearing more often on course syllabi. It's important to fully understand what Turnitin is, and what your rights as a student are when enrolled in a course utilizing it.

Turnitin is plagiarism detection software that is becoming more popular with North American universities. Students are required to submit a soft copy of their file, from which the software analyzes the text to detect any similarities or exact wordings from a vast repository of books, online and other student work. An "Originality

Report" is created for each submitted file which indicates what text appears to be plagiarized. However it is ultimately up to instructors to review any similarities and determine if it's intentional or just a coincidence.

While the software aims to create a fair playing field, there are a number of other issues related to Turnitin that are overlooked in the blurb instructors are required to put on syllabi for courses utilizing it.

The most significant part left out of the mandatory "Turnitin" blurb is that once one submits a document, a copy is automatically archived on the Turnitin database to use to compare to future student submissions. A number of IP and privacy concerns have been raised about this, though some US courts have ruled this as legal. Ethical concerns about a private company profiting off of comparing your work to others for money still exist.

The second major issue has to do with where the archives are stored. According to both Turnitin, and uWaterloo, all Canadian university submissions are stored on servers within Canada. This is to relieve concerns about the US Government having access to archived files on US-based servers. However, in August 2011, Dalhousie University in Halifax cancelled its contract with Turnitin after it was revealed that submissions were being stored on US-based servers, despite the contractual agreement. At press, it's unclear what checks and balances uWaterloo is taking to ensure that the same is not happening here, and one would hope they would be upfront and honest if any such breach had or is occurring.

So what can you do instead? It may be too late in the term already, but all instructors are required by uWaterloo policy to provide an alternative to students who don't wish to submit their work to Turnitin

during the first week of the term. I realize this article will reach you in week three, but try talking to your professor to find an arrangement if you do have concerns about either your IP or privacy rights as a student. Some recommended resolutions from the Office of Academic Integrity can include submitting an annotated bibliography, submitting a draft bibliography identifying all sources before the actual due date, or having a "scaffolded" assignment where a student submits the framework of their paper early on and then at least one draft with a bibliography before the final paper. However, other options that an instructor and student can agree upon are also valid.

For more information on uWaterloo's Turnitin policy and procedures, checkout <http://ist.uwaterloo.ca/cs/Turnitin/>. There is a wide variety of information available of student concerns about Turnitin on the web that is accessible through Google.

Letter From the Editor

Welcome to Waterloo, or welcome back to Waterloo



JON MARTIN
EDITOR-IN-CHIEF

Hey everyone and welcome to a new fall term.

First a little introduction, I'm Jon Martin, and I am currently in my 3B term of Civil Engineering, where I am specializing in Transportation. I have been involved with the Iron Warrior since my 1A term when I signed up for the mailing list at the Frosh week student teams lunch. Since then I haven't missed an issue, writing regular articles before adding my Future of Gaming column in 1B.

I am a lifelong resident of Waterloo region, living just within Kitchener (so I've had to switch over from the 12 to the 201 iXpress). So, yes, I do live at home with my family. I also went to the Waterloo Engineering Science Quest (ESQ) summer camp, so I have played soccer on the green where the Quantum Nano Centre is still under construction now.

For my term as editor I have a couple of general goals for the paper, including introducing new content, columns and contributors, as well as generating my cross-society contributors. The first couple components are especially important during the fall term as the entire class of 2016 is here together. Make the best of this time and get to know lots of people because it is great to have friends on both societies when you are involved with events or here on a co-op term. After this term about half of you 2016s will be switching over to the Engineering Society A where you will meet all of the upper years on that society. Get to know them too as they will be great resources to you throughout your careers here at UW.

I want to encourage everyone to get involved with activities outside of engineering academics, because you need to have something that you can enjoy doing besides school work – otherwise your brain will explode. True story, well, not really.

Anyway, being entirely focused just on Engineering can lead to great marks obviously, but I am of the belief that there needs to be a balance between work and life, homework and extra-curricular, and classes and friends. I have a ton of respect for the people who dedicate every waking hour to their engineering degree, but I don't really know any of them that well.

Of course I am going to advise people to contribute to the Iron Warrior, whether

that is through coming to meetings, writing articles, or contributing ideas. Meetings are every Monday at 5:30 in E2-2349A, but you can stop by at any time and there will probably be someone here. If you have ideas for articles let us know, if you want to write that article that is even better. So tap into that inner English major wannabe who realized they should get a degree that could actually make money and leave university without years of debt, and break out the wordprocessing program of your choice. Personally I have found that the continued use of my writing skills has made writing work-reports and course related reports a whole lot easier.

A big project that we are currently working on in the Iron Warrior office is archiving the historical records of the paper. Since the formation of the Iron Warrior in 1980 copies all of the issues have been kept in physical storage in the IW office, where they get skimmed through by each incoming editor. Unfortunately this has contributed to the deterioration of the papers, which aren't that sturdy to begin with, being on newsprint. To 'fix' this problem we cataloguing all issues of the paper that we have, recording information like Editor-in-Chief for the term, publication date, and page count. Each issue is being stored in archival safe packaging, before being sent to a large format scanning company. There each issue will be scanned and saved as a pdf before being returned - without the need to cut the issues at all. Next step, hosting all of the pdfs on the Iron Warrior website. For the first time ever, anyone can go onto the website and access the entire history of the Iron Warrior, and by extension, a large part of the history of the Engineering Society of the University of Waterloo. There are years of history in these papers, but even so we are missing some issues, or have issues with significant physical damage, so we will be looking for alumni who may have kept copies for themselves that could be borrowed.

Besides the Iron Warrior another great opportunity for is frosh week – applications will be opening this November. I have always been very involved with Frosh Week, having been a Big, Huge, and then EDCOM this year. Every year has been a great opportunity to meet people and help incoming frosh. If you enjoyed the week as a frosh, I guarantee that you will enjoy it even more as a leader. When you are a leader you have all the same fun activities, but you know more people, you know where you are going, and you hopefully still aren't freaked out by being away from

home.

Another thing that I want to talk about is the opportunities that co-op present and how you can use them to achieve personal goals throughout your career. In my own case I lucked into my first co-op term job through a personal connection which then led into subsequent jobs at another company and other offices. For my most recent co-op term (over the summer) I was able to approach my previous employer and organize a job in the Calgary, Alberta office, they wanted me to return to the company and I wanted to do some travelling and live on my own for a while so it was a win-win scenario. Being a lifelong resident of Kitchener-Waterloo, going to university in Waterloo, and doing most of my co-op terms in Kitchener have left me with the desire to travel and see a bit more of the country.

I can now appreciate how a lot of frosh feel when they come to Waterloo and are living on their own for the first time, the new responsibilities - especially the cooking and laundry, and at times, the feeling of being alone. The best I can say is still the same advice I gave earlier, get involved and meet new people. Having other stuff to occupy your time and keep you busy is the best way to keep away the onset of homesickness. Get out and meet people and before you know it you will realize that months have passed and you will be looking forward to getting back to UW to see your friends again.

From my experiences with co-op so far I have a couple of pieces of advice for job searching, not really JobMine related, as I have never actually used JobMine, but more general advice about networking. As I said I lucked into a job after working for the company during the summers after grade 11 and 12, so the company offered me a co-op before the Fall term had even started. Since then every job I have received, spanning three companies (one was bought out), four different departments, and several provinces, has been through negotiations with the previous employer. Use the connections you make with employers to benefit your co-op career and your future career options as much as you can.

Of course this strategy only works with a receptive employer, one who views personal growth and experience in the corporate environment and will accept the risk of maybe losing co-op student to another company.

So that is my advice, and my extremely rambling editorial for this issue.

THE IRON WARRIOR

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

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

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

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International Exchange: Turkey

PETER H. ROE
DIRECTOR OF INTERNATIONAL EXCHANGE

What does the word ‘turkey’ bring to your mind? Is it Christmas or Thanksgiving dinner? Or does it conjure up visions of a country that is steeped in history and spans Asia and Europe?

It’s the latter association that I want to talk about here. There is more than five thousand years of history in Turkey. Istanbul (formerly Constantinople, and earlier, Byzantium), the most famous Turkish city, sits on the Bosphorus strait that joins the Black and Mediterranean Seas. The strait was bridged in 1973; before that it was necessary to go by boat between the European and Asian parts of the country.

On the European side, Constantinople was the capital of the Eastern Empire, the remains of the Roman Empire after the collapse of Rome in 410 AD. It has an incredible history in Greek, Roman, Christian and Muslim eras.

The Asian part of Turkey includes the country’s capital, Ankara. The land area is and has been known for some centuries as Anatolia or Asia Minor. The ancient city of Troy, that figures in Greek mythology, was located on its Mediterranean coast; the ancient city of Trebizond (now Trabzon), which was the final outpost of Roman and Christian culture, is on its Black Sea coast. If you travel around this part of the country you will encounter relics of Greek, Roman, Persian, Jewish and Assyrian cultures, as well as the more recent Moghul and Ottoman empires. There are Crusader castles,

Roman amphitheatres, Greek temples, just to name a few.

Turkey today is a modern secular democratic parliamentary republic with a population of about 80 million people (similar to Germany) and an area of about 800,000 km² (four fifths the size of Ontario). It has been a member of NATO since 1952, and negotiations are continuing for the country to become a full member of the European Union.

Our President, Dr. Feridun Hamdullahpur, who received his Bachelor’s and Master’s degrees in Mechanical Engineering at the Technical University of Istanbul, has stepped up plans to enhance relations between UW and several universities in Turkey.

Our Dean, Adel Sedra, recently visited four universities in Turkey: Bilkent University, Middle East Technical University, the Technical University of Istanbul and Yeditepe University. He was very impressed with the quality of all four schools. Their facilities and their programs are modern and up-to-date. Dean Sedra believes that our students would find a very easy fit in any of these schools and that they would benefit greatly from the exchange experience.

For some years we have had an exchange agreement with Bilkent University in Ankara. New agreements are coming on line with the universities that Dean Sedra visited, and other equally modern schools. It will become quite easy for UW Engineering students to study for a term or two in Turkey. Instruction at all our partner universities in Turkey is in English. The uni-

versities in which agreements are in place or in the late stages of completion are:

Bilkent University, Ankara: Bilkent is ranked among the top 200 universities in the world by the Times Educational Supplement rankings. Our exchange agreement has been recently renewed. Bilkent Engineering has four departments: Computer Engineering, Electrical and Electronics, Industrial Engineering, and Mechanical Engineering

Isik University, Istanbul: Isik is a new University, founded in 1996. However, it grows out of a long tradition of education. It has a modern campus on the Asian side of the Bosphorus in Istanbul. It has departments of Computer, Electronic, Industrial and Mechanical Engineering. “Empowered by its long heritage in education, Isik University envisions itself as a socially-responsible, world-class university that promotes the development of young generations which will enlighten the future.” (Isik Univ. website)

Istanbul Technical University (ITU): Istanbul Technical University is identified with engineering and architecture education in Turkey along with its 238-year long bright history, modern education environment and strong academic staff. With its highly evolved campus life, ITU prepares the students for the future (ITU Website). ITU has about 25,000 students, in a wider range of programs than ours.

Kadir Has University (KHU), Istanbul: KHU also new, founded in 1997. Its main campus located inside the ancient Byzantine walls, in a building first known as the Cibali Tobacco factory, itself of some re-

nown, and completely renovated in 2002. The Faculty of Engineering has 4 departments: Computer, Electronics, Industrial and Energy Systems Engineering.

Middle East Technical University (METU), Ankara: METU has 14 Departments in its Faculty of Engineering, encompassing a broad spectrum of academic disciplines. It also ranks in the top 200 universities. It is similar in size to UW.

Özyeğin University, (OzU), Istanbul: OzU’s School of Engineering includes Computer Science, Electrical & Electronics, Industrial Engineering and Mechanical Engineering. OzU “view[s] the commercialization of technology and the creation of spin-offs and start-ups as a core activity. Specifically, [it focuses] on professional programs in business and engineering... [and] aspire[s] to be an international university and a regional center of attraction for exceptional faculty members and students.” (OzU web site). It appears to be a good fit with UW.

Yeditepe University, Istanbul: Yeditepe is a new university, founded in 1996. It is a very broad-based university with a dozen Faculties. The Faculty of Engineering and Architecture includes a wide variety of programs, from Architecture to Systems.

Turkey is both ancient and modern. If you have a spirit of adventure, consider expanding your world view by studying on exchange there. For further details, go to www.eng.uwaterloo.ca/~exchange, or visit the Faculty Exchange Office, CPH 1320, phone extension 33084.

Engineering Councillor Report

**TREVOR JENKINS
& JUZER SHARAFALI**
ENGINEERING COUNCILLORS

Hello everyone, and welcome back to campus. A special big hello to all the new first years that are joining us on-campus: welcome to uWaterloo! We’re Trevor and Juzer, two of your Federation of Students Councillors from Engineering. We represent engineering students’ interests within the Federation, and try to keep engineers updated on the issues that will be impacting them. All full-time students are members of the Federation. The Federation has over 300 clubs, services, and businesses that are meant to fulfill unmet needs that the university doesn’t provide. For more information check out feds.ca.

First off, the Federation is currently ramping up for the upcoming provincial election on October 6. The best source for post-secondary election news is itsyourvote.ca, a website created and maintained by the College Student Alliance and Ontario Undergraduate Student Alliance, the latter of which the Federation is a member of. By the time this goes to press, the only remaining election activities that will be happening on-campus are advance polls in the SLC which are happening today and tomorrow (Sept. 28 & 29). As well, FedS will be operating a shuttle to take students to their local polling station on Election Day in order to make the process easier. Unless you live on-campus, you can only vote in the SLC polling station in advance polling, so you’ll need to figure out where your local polling station is. In addition to itsyourvote.ca, check out feds.ca for more information on the candidates and all the information you’ll possibly need to figure out how to vote.

Next, an update on Fed Hall. As some

of you may be aware, the university served notice in April to the Federation that they would not be renewing the lease with FedS for Fed Hall. Federation Hall was built in the 1980s as a student nightclub as there were very few off-campus alternatives at the time, and was funded by a fee that all students paid for 20 years. As Waterloo matured and more bars and clubs opened in the community, Fed Hall shifted to becoming a convention style of operation that provided space for large student gatherings. With the news that the lease will not be renewed, it essentially means that Fed Hall will no longer be under control of the Federation, and will instead be handled by the university. Over the past summer, there have been extensive negotiations between the university and the Federation to find a mutually-agreeable resolution, since there are ethical concerns with the university taking over a building that students paid for. At this time, negotiations are continuing and we hope that there will be something to announce soon on this issue. If you have any questions, concerns or comments on this, please let us know.

Finally, there are still three seats open for Engineering Councillors! That’s right, Engineering has five seats and only two are filled. There will be a by-election in early October (exact dates TBA) about this. However, if you are interested in potentially running or want more information on the job, please get in touch with us ASAP so we can keep you in the loop.

That’s about it for an update here. If you ever have any questions, concerns or comments of anything related to the Federation (including how to get involved in any aspect of it), please feel free to contact us at t.ek.jenkins@gmail.com and juzer89@gmail.com.

University Senate Report O-Week In Danger Again

BEN SELBY
ENGINEERING SENATOR

Welcome back, B-Soc! Hope the Fall term is off to a good start. As the title implies, there’s some interesting goings-on at UW right now so let’s get straight to it: Orientation week as we know it is in danger again. It was announced to the FedS Board of Directors that the Student Success Office has proposed a restructuring of the first year calendar to include a three day orientation week (Monday through Wednesday) followed by two days of classes. Around mid-October a “Success Week” would take place – Thursday and Friday of this week would be holidays with scheduled “success skills” programming including academic, social, mental and physical health programming. Mid-October is identified by the SSO as a good “check-in” time because stress is at a maximum for many students. A major metric for measuring the success of this program would be an increased retention rate of first-year students. UW currently stands at an 87.4% first-year retention rate which is amongst the lower retention rates in Canada. In this case, retention rate refers to the number of first-year students who stay at UW after their first year, not dropping out or transferring to another school (those who transfer programs are considered ‘retained’). This motion is expected to be brought to Senate at the next meeting on October 17th. If you have thoughts, feedback or opinions don’t hesitate to contact me before the meeting as I would love to hear from you!

In other news, Senate met for the first time since June on Sept. 19th. The

meeting was relatively uneventful with numerous non-engineering academic program changes. A motion passed to senate by SUC modifying test administration policies was passed, featuring numerous protections for students. A more detailed report on these changes will be found in the next VP Education report.

There was some discussion on the new policy of locking students out of UW-ACE/Desire2Learn if they hadn’t arranged their fees on Quest. Senators felt that this invaded students’ privacy and forced professors to enforce financial policy. Registrar Ken Lavigne stated that paying and arranging fees are separate and that professors are only to direct those students to the finance office. The purpose is to reduce the number of students who haven’t arranged their fees.

A little background for the first years: Senate is the highest level of academic governance at UW. It meets once a month and is mostly what you could call a “rubber-stamping” committee – it examines motions passed up by sub committees (such as Senate Undergraduate Council (SUC) or the Undergraduate Studies Committee (FUGS)) and makes recommendations to the Board of Directors for implementation. Senate discusses a huge range of issues including academic program changes, calendar changes, degree requirements, and all other academic related issues. Each faculty has an undergraduate representative, so if you hear about some upcoming issue that will be passed to senate, contact me! I am here to represent you as an engineering student. senate@engmail.uwaterloo.ca

Engineering: The Difference Between Pride and Arrogance



ANISH BHUTANI
4N CHEMICAL

I have realized over the last few years that a lot of people around campus think engineering students are arrogant. I see this all the time on blogs and forums (like OMGUW), as well as in conversations with non-engineering students on campus or around the city. Of course, I will always defend my beloved faculty. I would tell people that we aren't arrogant, but instead we were proud to be in such a program as engineering. Over time, though, I have begun to realize that those in other faculties do have some grounds to believe engineering students are arrogant, even if it doesn't apply to everyone.

I would consider myself to be proud to be an engineering student. I will sing the hymn any time someone asks "Who Are We?" I will proudly tell people how many days until I get my Iron Ring (136 days as of publication). But I would never go as far as to say that engineering is better than any other faculty or program at this university. I would never belittle the work and success of other faculties.

This is where I would draw the line between pride in your faculty and arrogance. I have had the opportunity to take upper year courses from non-engineering programs, and I can appreciate the depth that those programs go into. Like GENE 123 is a terrible representation for what electrical engineering students do, it still gives the appreciation for how complex their program can get. Similarly, even though taking an introductory biology course wasn't much of a workload, I could appreciate how much of the details the professor had skipped over, which would be work heavy (and very important) to understanding minute details.

Now you might be saying "I would never make fun of other faculties" and to that, I would say "Probably not". At the same time, though, you probably don't discourage it. When you meet an English Major at Bomber, you still probably believe that they are in an easier program, and you are going to be more successful and useful to society. And that is where the problem lies. While most people I know wouldn't say it to their face, they still have that mentality of superiority. And then there are those who would just say it to their face.

I have had the opportunity to work with many non-engineering students/graduates on my co-ops. I have benefited from having an English Major supervisor at the production plant I worked at helping me with writing quick reports. I have benefited from having a Kinesiology co-worker who could give me all the key tips I need to work ergonomically without having to look it up and understand it myself. And there was the Biology graduate in my research lab who, while not having a very strong mathematical background, was extremely useful in helping me understand the details of what was happening in a way that made sense to someone with no biology background.

So I leave all engineering students who read this article a challenge. Try to make friends who are not in engineering. If you are in residence, perfect. Otherwise, out and around the university, or in elective classes, get to know people. Learn what their programs really do, and what skills they have to offer. You would be surprised as to how much they accomplish. If anything, one day when you have graduated, you might realize how important it will be to have a Kinesiology Major or English Major on your team, especially when you know what they have learned and what they can offer.

The second challenge to engineering students is to improve our image to those who are not in engineering. At the beginning I brought up the point that many students not in engineering believe us to be arrogant instead of prideful or our program. I challenge all of you to change that. The first way to be cautious of what you say around non-engineers. While you may think it is funny bashing an arts degree, even when you don't mean it, it doesn't come off that way. The second way is to call someone out when they are bashing, intentionally or not, a non-engineering degree. Being cautious of it makes other people cautious, which in turn reduces the incidences of people having reason to hate engineers.

I hope you took something away from this article, and that in the future you will keep in mind that our non-engineering friends around campus are awesome. While we are known for being proud of our program, we also need to remember that we share this school, and some people may see this pride as arrogance. I hope we can all work together to bringing our school together.

Two Faculties: Software Engineering Students



KEVIN VELOSO
4N SOFTWARE

The first time you've seen a Software Engineering student? Probably as a horde of first-year students suddenly coming over to join your event, donning their yellow hard hats and wearing their pink ties with pride. The concept of the pink tie originated from the Faculty of Mathematics, in honour of Ralph Stanton, the first head of Math. During this year's orientation week, I thought it was wonderful how Ian Goulden, current Dean of Mathematics, welcomed Software in this year's orientation. In his speech during the commemoration of the pink tie, he mentioned how the faculty wasn't fully complete during their Math events until Software joined in to earn their pink ties. Some engineering students see them as mathies. Some math students see them as engineering.

The Software Engineering program is accredited by both the Canadian Engineering Accreditation Board (CEAB) as well as the Computer Science Accreditation Board (CSAB). Software Engineering students pay both their Math Society fees and Engineering Society fees. They also take classes from both faculties, typically ECE (Engineering) and CS (Math) courses. Software Engineering aren't half-math and half-engineering; they are both fully in Math and Fully in Engineering.

A typical question I'm asked: what is it like being in two different faculties at once? This question is asked by engineering students, math students, and more commonly by my fellow first-year software students (FroshWare, as they typically liked to be called), as they have yet to explore the opportunities that both faculties have to offer. As with most full-time students under a faculty, they are welcome to participate in their Faculty's society events. Come to EngSoc meetings, as well as MathSoc meetings. Talk to your class reps, EngSoc reps, and MathSoc reps to learn more about the events that happen within the faculty. Or better yet, just go to their respective websites, take a look at their events calendar, services, clubs, and any other relevant information that may be of interest.

In some cases, we may have students that are more inclined to participate in one faculty over the other. You could find some Software students who participate in more Engineering events than in Math events, and vice versa. For instance, some of the editors in Math's paper, mathNEWS, are in Software Engineering. Meanwhile, you're

finding this student writing an article in the Iron Warrior (although you may have seen me in some older issues of mathNEWS, just to be fair). In regards to graduation, we alternate between both Faculties for convocation. My class will graduate with Engineering (since 2012 is an even number), while the next class will graduate with Math. With regards to Gradcomm? Engineering and Math have their own thing; it's a matter of getting volunteers from Software to help out with both Engineering and Math events. Even in Orientation Week, Software students can choose to become either an Engineering Leader or a Math leader!

There is also the odd but somewhat typical case of not participating in either faculties. Engineering and Math students have these students too. Everyone has their own schedules and can choose not to participate at all. We still love you. I think.

For me, I'm quite neutral in terms of how I dedicate my time and attention to both faculties. People have asked for my opinion in certain issues. For example, some Math student have asked me what they thought about their Natural Log getting stolen, or if I can help them steal the Tool. Some engineering students have asked me to steal the Boar, since Engineering guards the Boar (or so I've been told). Don't worry -- I don't know where the log is, I won't steal the Tool, nor the Boar. (Although don't jump to conclusions to thinking that a Software is to blame for any of those mishaps -- although Tie Guard, Boar Tribe and the Toolbearers have been doing a pretty good job.)

If you want to talk about the contents of the program of Software Engineering, or debate about the difference between this program and other (such as Computer Science or Computer Engineering) that will probably be for another day. Or better yet, you can check out the details of our program at <http://softeng.uwaterloo.ca/>



POETS

MOVIE SCHEDULE

SHOWINGS BEGIN AT NOON

Wednesday Sept. 28 Archer	Thursday Sept. 29 Fight Club Donnie Darko Memento American History X	Friday Sept. 30 Community	Monday Oct. 3 Breaking Bad	Tuesday Oct. 4 Star Wars Episodes 4, 5, 6
Wednesday Oct. 5 Battlestar Galactica	Thursday Oct. 6 Entourage	Friday Oct. 7 Seinfeld	Monday Oct. 10 James Bond	Tuesday Oct. 11 Dexter

GRT Implements New iXpress and Route Changes



JACOB TERRY
2A NANOTECHNOLOGY

Are you back on campus after a co-op term and noticed that the 12 doesn't go where it used to? Why does the iXpress have a number next to it? At the start of the term, Grand River Transit (GRT) made a few significant changes to their bus system, and it's good to read up on them so you know whether the bus you used to take will still go past your house.

The biggest change is the new 201 iXpress. This bus goes west from Laurier to the University of Waterloo, then south down Fischer-Hallman to the Forest Glen Terminal in Kitchener, with an end-to-end route time of 45 minutes. The 201 iXpress markers have green highlights to differentiate it from other routes. 201 iXpress bus stops will get booths like the ones at the Davis Centre, with green colouring on the top to again signify that they are 201 iXpress booths. As part of launching this new route, GRT is offering free bus rides on the 201 iXpress on Fridays until the end of the year. While students have WatCards, this means you can bring friends on the bus from out of Waterloo without them need-

ing to pay for the ride. In the future, the 201 iXpress is planned to extend all the way to Conestoga Mall.

The old iXpress is still there as well, but is now referred to as the 200 iXpress. The only big change to this route is a new stop at King and Victoria, and new trips on the Laurier to Conestoga Mall segment of the bus route. The 200 and 201 iXpress routes are only the first of many iXpress routes to be added to the system. These changes are part of the planning for the light rail transit (LRT) system intended to be implemented in the near future. Both the 201 iXpress and the 12 are designed to hook up to an LRT station once it is implemented.

The 12 Fairview Park is the other route that has been heavily modified. While the route previously travelled along parts of Westmount and Fischer-Hallman, it has been changed to complement the 201 iXpress, much like how the 7 Mainline complements the 200 iXpress. While the 201 iXpress is going down Fischer-Hallman for the majority of its route, the 12 will go down Westmount to the Forest Glen Terminal, then east to Fairview Park Mall.

Apart from the schedule time changes, here are some of the larger changes to the fall bus schedule. For more detailed information on the route changes check out the Grand River Transit website at www.grt.ca

4 Glasgow: This route now travels on University Avenue between Fischer-Hallman and Ira Needles Boulevard.

7 Mainline: Northbound 7E routes from Regina Street have been removed.

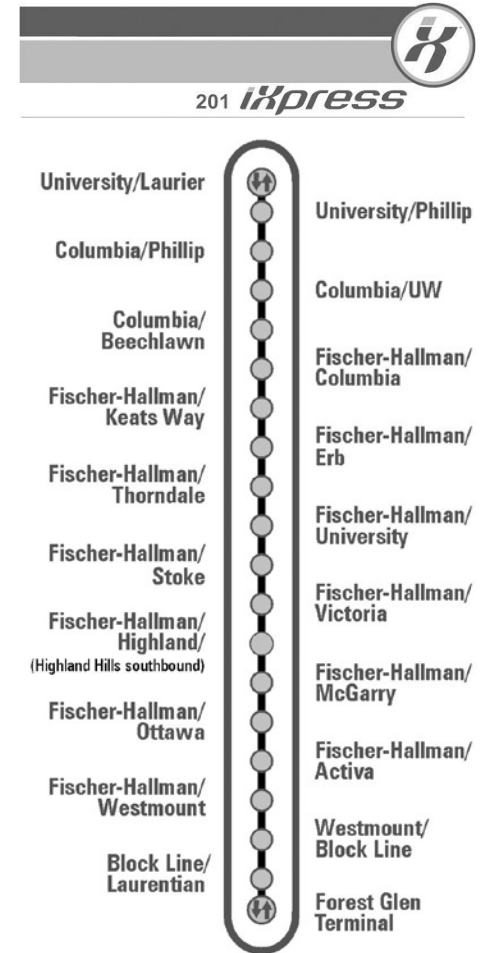
29 Keats Way: This route now travels on University Avenue, Keats Way and Erbville/Ira Needles between the University/King stop and the Boardwalk. The route from the University of Waterloo to Erb Street has been removed.

52 Fairview Park Mall/Ainslie Street: This route now travels along Fountain Street, Cherry Blossom Road and Maple Grove Road.

61 Conestoga College: Added service to the Conestoga College Cambridge Campus.

65 Fisher Mills: This route has been revised through Queen Street to north Hespeler.

66 Winston: This route has been revised through central Hespeler.



A Calculated Commemoration



NINA FENG
1A ENVIRONMENTAL

Though it seems like just yesterday, this year marked the 10th anniversary of the 9/11 terrorist attacks. To honour the occasion, a \$500 million monument - the most expensive ever built - has been constructed in memorial of those who lost their lives within the towers, in the airplanes, and those who died during the rescue effort.

The monument consists mainly of a museum and two gigantic reflecting pools of water with waterfalls. There's one north and one south, each about an acre in size, positioned in the footprint of their corresponding towers. On the edges of the pool, the names of all 2,983 people who died are inscribed. They seem to have been placed with no method of organization - they are not listed alphabetically, nor are they presented in specific groups. It is said that this supposed disarray reflects the chaos and disorder with which all the victims lost their lives.

However, the arrangement of each name is far from random because underneath the confusion, the planners of the memorial have managed to honour all the thousands of complex social and professional connections and relationships forged before, and even during, the attacks.

The sheer number of relationships presented made it impossible to arrange by hand. Instead, a computer algorithm was custom-developed by media design firm Local Projects and software artist Jer Thorp. It took months to develop and tweak to full functionality, and a manual interface allowed for architects to make adjustments as needed.

The algorithm works in two stages: In the first, clusters of people (ranging from 2 to as many as 70) were formed using input from the families and co-workers of the victims to dictate names that should appear together on the monuments. In the

second stage, the clusters are fit together like messed up, irregular puzzle pieces to span along the edges of the pools. Finally, all the victims' names were carved on brass plates and mounted on the memorials. The overall groupings are based on when/where everybody died. The north pool includes those who were killed in the North Tower and Flight 11, and in the 1993 bombings of the World Trade Centre (the original monument was destroyed on September 11th). The south pool honours the South Tower and Flight 175 victims, the rescue workers, the victims of the Pentagon and Flight 77, and the passengers of Flight 93, deemed as heroes for having thwarted the plane heading to the Capitol-crashing instead into a Pennsylvania field.

Obviously, much engineering had gone into the memorials themselves, but the 16-acre Memorial plaza in which the pools are located is also an example of the planning that went into the project. It is thought to be one of the most sustainable, eco-friendly spaces ever created. More than 400 trees surround the pools, which are irrigated with rainwater collected in underground storage tanks. Furthermore, systems that deal with irrigation, storm water, and pest management are designed to conserve energy, water, and other resources.

The memorial and its surroundings aim



<http://www.nywaterway.com>

to convey the 'spirit of hope and renewal' after one of the single greatest losses of life in American history. Perhaps it is fitting that such an enormous memorial has been built in honour of the victims, requiring such an amount of planning and engineering to make it happen.





The Fall 2011 Waterloo Engineering Competition

November 4 - 5
University of Waterloo

Junior Team Design	Registration
Senior Team Design	September 30 - October 30
Consulting Engineering	http://wec.uwaterloo.ca

REGISTRATION OPEN SEPT 30

Competition Information Session

"The importance of presenting well, and how to prepare for each competition."

October 24, 2011 | RCH 302 | 5:30 P.M.
Recommended for first time competitors.

Proudly organized and sponsored by




<http://wec.uwaterloo.ca> | wec@engmail.uwaterloo.ca



EngSoc Executive Reports

Teach Me How To ESSCO PM

ALESSIA DANELON
PRESIDENT

The weekend of September 16-18, 2011, executives Alessia Danelon, Owen Coutts, Yasser Al-Khder, Alexandra Collins and Communications Commissioner Lisa Truchon attended the Engineering Student Societies' Council of Ontario's Presidents' Meeting, commonly referred to as ESSCO PM. The meeting was expanded this year to have five delegates from each school's Engineering Society attend. This meant that every engineering undergraduate program in Ontario sent their respective executive representative within the portfolios of communications, academics, president, external relations and events. These representatives gathered at the University of Windsor to meet and share ideas and best practices for the betterment of each school's Engineering Society.

There were many sessions offered at the conference. At-large members often wonder what benefit conferences offer. The general answer is networking capabilities and the sharing of best practices. ESSCO PM definitely offered these benefits, however the executives learned a lot of new things from the other schools in attendance, and gained a lot from brainstorming sessions within the Waterloo EngSoc debriefings. Among the interesting lessons learned were:

- Waterloo's EngSoc has a lot to offer and many schools were impressed by the way UW's EngSoc currently operates and manages affairs

- Many schools seem to have trouble preserving traditions, but the consensus seems to be that if the spirit of the tradition is preserved, the tradition itself is easily preserved

- Waterloo itself has a lot of good traditions, and we have done a good job of preserving them. However, even schools like Queen's, with a strong legacy of traditions, have had to update some of their traditions, though have been happy with such updates

- Many of the large schools are in the

process of updating their EngSoc structure to cater to more students. This means branching out in the ways of advertising, increasing exposure, providing more services

- Watch out for snap bracelets

- Exec got a lot of ideas for more effective advertising, as well as promoting initiatives and services which are often underused

- A lot of good individual contacts were made, which our Waterloo EngSoc execs can now go to for advice, brainstorming and ideas throughout the next 12 months

Overall, the conference was a success. Contacts were made, practices were learned and other executives and delegates got the opportunity to analyse under the microscope the way UW's EngSoc runs and administers itself. We're doing well, but we can improve for the benefit of the students and we have every intention of doing so throughout the coming year.



B-Soc Exec in a wacky and wavy unauthorized photoshoot

Angelo Alaimo

New Communication Structure

ANDREW FISHER
VP INTERNAL

In a world where emails are now the primary means of communication, our inboxes are getting fuller and fuller with unnecessary information. To unclutter your inbox, we are experimenting with a new email structure for the mailing list. We plan on sending a maximum of four emails per week with each email having a specific scope.

Email 1: Events

This email will be sent every Sunday during the fall term. This email will contain all information about events associated and pertaining to the Engineering Society. Examples of events would be Semi-Formal, Pancake Breakfast, and Resume Critiques to name a few. This email will contain all necessary information about these events including a calendar for the upcoming week. All information to be contained in this email must be

ing list by Friday before the Sunday it is sent out.

Email 2: Opportunities

This email will be sent out every Wednesday during the fall term. This email will contain all information associated with volunteer recruitment, conferences, and scholarships. Examples would be volunteers to help with Course Critiques, applications to the First-Year Integration Conference and applications for the SFF Memorial Leadership Award. All information to be contained in this email must be submitted to the mailing list the Tuesday before.

Email 3: Recruitment

This email will be sent out as needed depending on the number of recruitment emails submitted. This email will contain all information associated with recruitment events and presentations for external companies.

Email 4: Exec Updates

This email will be sent out if an exec update is required. This email will contain information about motions at EngSoc Meetings, any new initiatives which the exec would like to get feedback on, and EngSoc elections to name a few.

Real Time Updates Through Facebook and Twitter

Since these emails will be going out once per week, there will be times where an email needs to be sent out at the last minute and may not coincide with the dates specified above. This could include 'last chance to buy tickets' or 'come to POETS now for free food.' These messages will instead be sent through the EngSoc Facebook and Twitter accounts which are geared more towards last minute updates. Should you have any questions about this new structure, please email the VP-Internal (vpinternal.b@engsoc.uwaterloo.ca) or Communications Commissioner (communications.b@engsoc.uwaterloo.ca).



JobMine Updates

exporting data to a spreadsheet as well as new updates to the user interface. Because of the updated backend, Jobmine is now in a better position to change quickly and provide updates with even more features in the future. Some of the features slated to be worked on include improving loading and processing times, especially for

large employers, support for new structures such as UAE students as well as adding formats in which resumes can be uploaded.



Some of these features are not meant to come within the next year, however all of them are being actively investigated. Although these features are helpful, in

some cases Jobmine can only be repaired so much. The university will be looking for a way to replace Jobmine. Look out for more information once a report is published this fall that will go over lessons learned and recommendations for moving forward beyond Waterloo Works and Jobmine.

OWEN COUTTS
VP EDUCATION

Jobmine is updating! Since the last time students were applying for jobs many changes have taken place. The backend software is now up to date and provides us with some good improvements, including

Upcoming Events Calendar

Wednesday September 28	Thursday September 29	Friday September 30	Saturday October 1	Sunday October 2	Monday October 3	Tuesday October 4	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca  
Waterloo Engineering Mentorship Program (E5 Live Link - 3:30) Coffee House POETs 7 PM	2015 Amazing Race Party - 6:30 PM Running Club POETS Patio 5:30 PM	Charity Grillfest POETS Foyer SCUNT	GoEngGirl SCUNT	EngSoc does Run for the Cure	Charity Pancakes POETS Foyer 8:30-11 AM 2014 Year Spirit POETS 5 PM	Brick Tour Running Club POETS Patio 5:30 PM GleePO POETS 8 PM	
Wednesday October 5	Thursday October 6	Friday October 7	Saturday October 8	Sunday October 9	Monday October 10	Tuesday October 11	
Battle of the Bands MaxWells Music House EngSoc Meeting #2 CPH 3607 5:30 PM	Exchange Potluck Running Club POETS Patio 5:30 PM				Thanksgiving	2012 Party Running Club POETS Patio 5:30 PM GleePO POETS 8 PM	
Wednesday October 12	Thursday October 13	Friday October 14	Saturday October 15	Sunday October 16	Monday October 17	Tuesday October 18	
	Running Club POETS Patio 5:30 PM	Enginuity	Enginuity		Charity Pancakes	Running Club GleeP	

CFES PM

YASSER AL-KHDER
VP EXTERNAL

Last weekend, I headed west to UBC Okanagan in Kelowna for the Canadian Federation of Engineering Students Presidents' Meeting (CFES PM). The purpose of this conference is for the VP Externals to get to know the executive officers and each other. Unlike ESSCO PM, the sessions concentrated on the internal workings of the organization. Sessions included

updates from the officers, review of Canadian Engineering Competition (CEC) rules, unveiling of new CFES website and policy manual, CFES partnership plan, and officers' midterm accountability. A plenary session was held on Saturday. Look forward to the conference report for the proceedings of the plenary session, as well as details of the sessions and the conference.

And Lisa Belbeck, A-Soc VP External, says hi.

Engineering Capital Improvement Fund

ALEXANDRA COLLINS
VP FINANCE

ECIF is a new initiative that was approved at Joint Council (Spring 2011) that will benefit you and the entire Engineering Community at Waterloo. Both A-Society and B-Society made an initial joint invest of \$10,000 dollars into the fund. A percent of student fees each term will be allocated to projects selected by a committee. Projects selected to be funded by ECIF include:

-Improvements to the facilities of the Engineering Society

-Supporting and improving both new and existing services of the Society.

-Improving the facilities and services of affiliates (including The Iron Warrior)

-Other projects that the Committee feels fulfill the purpose of the Fund

Examples of recent approved proposals were music equipment, speakers for CPH Foyer, EWB E-Waste statue, and bike repair stations to be set up outside CPH. The ECIF committee is looking for new ideas and initiatives for this fall. If you have an idea for a capital improvement project, submit a proposal in the form under services at engsoc.uwaterloo.ca.

Opportunities to Get Involved

YASSER AL-KHDER
VP EXTERNAL

Do you want to get involved? Well there are tons of opportunities to do so. We are looking for a Women in Engineering (WiE) Representative, an Outreach Committee Representative, and Waterloo Engineering Competition Junior Design directors. Here's a little description of each of those directorships:

The WiE rep attends bi-weekly meetings with the WiE committee and run events such as Go Eng Girl.

The Outreach Rep attends bi-weekly meetings with the Outreach committee and helps run outreach events.

The WEC Junior Design Director is responsible for designing and building the Junior Design Competition, and help at the completion to make sure it's running smoothly.

If you want to sign up or know more about any of these directorships, talk to me or send an email at vpexternal.b@engsoc.uwaterloo.ca

Patches and Coveralls

ALEXANDRA COLLINS
VP FINANCE

Have you seen exec and other students wearing sexy coveralls? Have you seen exec and other students wearing a lack of coveralls? Does this make you want to cover-up and buy a pair for yourself? In the next couple of weeks Novelties will be hosting a Coverall Day where you can order a custom pair or model yours around

campus if you already have a pair.

Coveralls aren't complete without patches though! Novelties has a few patches but we are looking for more designs to decorate your coveralls. Check out the Engineering Society Patch Design Competition on Facebook to submit and vote on designs. We are looking for designs that represent the events and services offered by the Engineering Society or the spirit of Waterloo Engineering.

How many days since IRS?

ALESSIA DANELON
ENGSOC PRESIDENT

On September 24, 2011, the University of Waterloo's Engineering Faculty welcomed back the graduates from the years 1961, 1966, 1971, 1976, 1981, 1986, 1991, 1996, 2001 and 2006. The day featured an open house on campus during the day and a banquet reception in the evening, the only one of its kind at the University of Waterloo.

I personally had the pleasure of greeting several alumni as they asked for their pictures to be taken with the TOOL, as well as throughout the evening events. This included an encounter with William Miller, the first person to graduate from the Faculty of Engineering at the University of Waterloo. Bill, as he asked us to refer to him, was a graduate student of Electrical Engineering at Waterloo, finishing his masters in 1961, a time when the Faculty of Engineering only had 4 graduate students altogether.

Bill had many stories to tell, as did all of the alumni. It was inspiring to see that people were returning 50 years after they graduated. Every alumni there had gone through what we go through every day. The

long nights studying, the tediously spent hours in the lab, and yet, through all the hard work and long days, they were proud of their degrees from Waterloo. They all had something in common, something to celebrate, and memories and moments to recollect together at the reunion.

It was in overhearing and discussing these memories with alumni that I got to learn quite a bit about the culture of engineering students throughout the years. This, I found, was the most fascinating part of the reunion. Getting to hear about how things were years ago, getting a taste for the history of our faculty, was nothing less than intriguing. Among some of the fascinating facts are the following:

- The Imprint used to be the newspaper of the Engineering Faculty. It was started as a rival to the Chevron, which has recently reappeared on campus. The Chevron was eventually shut down due to biased political views.

- POETS used to be where the EngSoc office is now. It wasn't originally a pub either. The story behind why it became a pub is unfortunately unpublishable.

- The EngSoc Office was where the current C&D now stands. The C&D did not exist because Food Services had a contract

preventing any such establishment from opening. It was actually engineering students that got the contract revised and gave all the student societies on campus the capability to run their own C&D.

- The jackets used to be navy blue. Why not black? Black leather jackets were considered too closely associated with gang activity, and thus the jackets were ordered in navy blue to avoid any misconceptions.

- Arcade games used to be set up in POETS. We're talking Space Invaders, Aster-

oids, Pac-Man, you name it. They were there.

Among these fascinating details were stories of good times had by classmates and friends alike. The night ended with alumni recounting such tales at the podium for everyone to hear and reminisce. It's just a reminder of what you get to be proud of after all the hard work you put in, and a reminder that you get to share that pride with thousands of successful alumni.

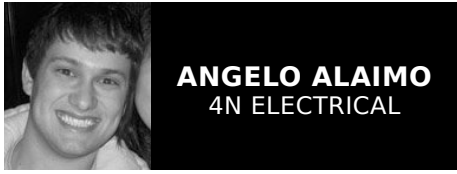


Class of 2001 (Watt the Flux) leaves their mark on POETS - 3873 days since IRS.



Past Engineering grads hoist the Tool for Prof. Sullivan at the Alumni banquet reception

While You Were Away: Spring Term on Campus



ANGELO ALAIMO
4N ELECTRICAL

For those returning back from co-op, summer vacation, or perhaps just an academic break – welcome back to campus! Over the past four months, many changes swept through the campus and a generally sleepy summertime Waterloo. Read on.

In May, Waterloo City Council passed the Rental Housing Bylaw that adds licensing requirements, bedroom limits, and safety requirements for rental housing within the city. Although the cost renting may increase as a result of this bylaw, the increase in housing safety for students is an added welcome. The bylaw comes into effect April 1, 2012.

Fed Hall became a hot topic when FedS announce University administration had decided not to renew the Federation's lease on the property past April 2012. The topic is still under debate to this day.

A new student team sprung up on cam-

pus over the summer time. The University of Waterloo Formula Hybrid team is set to create a high-performance formula racecar which is kind of like the typical Formula SAE car but coupled with a parallel electric drivetrain.

Waterloo Regional Police charged a 34-year old former University of Waterloo student in connection with the anonymous posters and emails spreading anti-female sentiment on campus during the Winter 2011 term.

In June, regional council voted 9-2 in favour of pursuing Light Rail transit for the Region of Waterloo. The proposed LRT will span 14 stops from Fairview Mall in Kitchener eventually reaching UW campus before continuing through the research and Technology Park before terminating at Conestoga Mall.

UWAF, the student team that participates in the US Department of Energy's EcoCAR challenge, placed third overall at the competition in the United States this past summer. The team re-engineered a production general motors vehicle to be completely powered by hydrogen. The team also was accepted into the EcoCAR

2 challenge that will see the team compete in 2013 using a Chevrolet Malibu.

A small fire hit the then under construction E6. A spark from a welder's torch started a fire within a fume hood and ductwork but did not cause any significant damage. The building is now open and the Chemical Engineering department has begun moving into Engineering 6 on East Campus.

Engineering "A" society elected new representatives over the summer and actually broke voting turnout records during the Presidential election at 35%. The President and VP elections were broken up to give those who ran for president but lost a second chance to run for a VP position. Congratulations to the newly elected representatives – Leah Allen – President, Derek Thomson – VP Education, Michael Seliske and Lisa Belbeck – VP External, David Birnbaum – VP Finance, Angela Stewart – VP Internal, and Brock Kopp – WEEF Director.

The search for Dean Sedra's successor began over the Spring term. Dean Sedra's term began in 2003 and will conclude next year where the new Dean, selected

by a committee will begin their term.

Engineering Society Joint Council passed several motions, which saw the creation of the EngSoc Capital Improvements Fund. The purpose of this fund is to determine how to allocate capital funds on improvements that will impact engineering student life.

In July, the i3 Challenge to re-design the south campus gateway to campus wrapped up after many months of planning and design from teams of students. The winning team consists of Amer Abu-Khajil and Jacqueline Doucet, from civil engineering and Nader Alkadri and Josh Layton from urban planning. The winning design will eventually get implemented as the new University's new gateway thanks to \$100,000 from the Region of Waterloo and the Faculty of Environment.

As you can see, a lot happened on campus and in the Region over the spring term. The above is just a brief summary of the more impacting events, so to catch up on more, go to our website and check out the PDF archives of our Spring term issues!

Topz (With a Z): Top Ways to Cook Healthy



WADE WILSON & EDWARD BLAKE
2Z HANDSOMENESS

Another fall begins in Waterloo and with it the scent of new chances is in the air mingling with a distinct odour of manure to create the aroma called "hope". Hope for passing grades, hope for fun times with friends, hope for less gaggles of geese, but most deeply and pressingly of all, hope for a delicious and nutritious diet that is both affordable and easy. Ordinarily you'd have to just give up and pay servitude to The King, but today is your lucky day: prepared for you is a list of the top ways to create delicious and nutritious food that's both affordable and easy! So get out your notepads, you cooking mamas and papas you; all the leaves are brown, the sky is grey and it's time to go for a walk towards gourmet, the easy way.

GO ORGANIC:

One trend that's pretty fresh is going organic, as in only eating organic foods. As any Waterloo chemist knows, organic compounds are comprised chiefly of carbons, nitrogens, oxygens, and hydrogens. This means throwing out those alkali metals and noble gases stocked in your pantries (the former might react strongly to

this decision but the latter should remain indifferent) and reloading them with organics: wheat, vegetables, beer, lard, psilocybins and petroleum. Yes, go organic and pretty soon all the sexy engineers will be looking to you for a backside attack.

EAT RAW

Eating organic is a good first step, but don't ruin the natural goodness by cooking your food. In nature everything is good and safe, and only through human interference is danger possible. Cooking food is one of the earliest bastardizations of nutrition, and so to stay true to our ancestors' perfection be sure to only eat raw fruits, vegetables, and meat and not washing your food, which takes away their nutrients. The fresher the better, so keep on the lookout for natural game, including squirrels, raccoons, geese and humans (they don't call it soylent green for nothing!). Don't forget: some wonders of the modern age are actually blunders (by which we mean to say that modern conveniences generally held to be advantageous (wonders) could actually have negative effects which outweigh their benefits, hence making them disadvantageous (blunders)).

PILL POWER:

If the past has taught us anything, it's what we (the future) are long-overdue for: replacing food with pills (preferably ones

that don't make your swell to gargantuan size and violet complexion). The men and women of tomorrow will be harder, better, faster and stronger, and anyway to get closer to their world is a step in the right direction. Luckily wonder pills already exist, and are making their users feel invincible. These "performance enhancers" will enhance your performance (we're pretty sure they're legally obligated to) until you're as healthy as a horse, not to mention twice as handsome (unless you're standing next to a handsome columnist or two in dark black turtleneck sweaters and chains, sipping manly venti caramel macchiatos).

CUT DOWN ON SUGARS AND SALTS:

The modern man consumes so much salt and sugar in his diet that it begins to resemble the scene in Scarface when Al Pacino has a lot of cocaine except instead of cocaine it's salt and sugar and instead of Al Pacino it's you, the reader (unless you don't eat salt and sugar, in which case you're strange and different and we don't like you). However, it is essential to a healthy diet that we stop regularly doing eight-balls of these white poisons. One way to cut down on the damages of sugar is to cancel out the sweetness by drinking it with bitter coffee. The coffee's bitterness will neutralize the sugars sweetness

as visible by making the powder disappear without losing the taste! In fact, sugar and salt can be made to disappear in any hot aqueous liquid! You can mound your vices into a glass of hot beverage and satiate your cravings without damaging your body!

PRESERVE IONS:

After an enlightening tour of mall kiosks, it has come to these journalists' attentions that dangerous EMF waves are ruining people's balance and the only way to shield our bodies from this harm is to use the power of protective ions. As any amateur urologist will tell you, precious urine is loaded with ions! So if you're able to gynn and bear it, drinking your own piss will make it that you can protect your fragile meat-sack without even having to buy an effective but expensive negative ion bracelet. As you gulp down that salty soda, feel the liberation of magic ions!

By now you're probably thinking, "boy howdy! With all this know-how I'll be sure to be the next Julia Child or Gordon Ramsey"! Well you're a dummy because anyone can read this paper and get the exact same tips and so you won't have any uniqueness about your style. You don't become the Barefoot Contessa overnight, you big dummy. Go read a book or something ... idiot.

CHAINSAW

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

\$2 BUCK TUESDAYS - EVERY TUESDAY

**LIVE MUSIC TUES, WED, SAT
AND KARAOKE EVERY NIGHT**

BIGGIE-UP
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The Overreaction to RIM



HOBYUNG LEE
3A MANAGEMENT

Ah RIM.

The once beloved Canadian tech company, a beacon of technological excellence and innovation poised to lead the mobile tech world into the new century, along with single handily creating a 'Silicon Valley of the North' in an area that used to be known more for their Farmer's Market's and its huge celebration of all that is German and beer also known as Oktoberfest (prost!).

But then, almost overnight, RIM has become the loser that everyone, from analysts to bloggers to shareholders, started beating up on as because they 'weren't being competitive enough', that they 'weren't being innovative and forward thinking'.

RIM may have suffered a bad year, but it is far from being down and out.

Now, before any company and person can say that any tech company can and always be around need to face the facts: nothing is ever certain. Not success nor failure.

Remember Netscape Navigator? Remember ICQ? Yahoo? Palm? Ya me neither.

But with that being said, you have to take a step back and ask: why are people beating up on RIM?

Of the many posts about the 'fall of RIM', all of these reports point towards RIM's declining market share (most in the North America, not so much rest of the world) and their apparent lack of innovation to stay competitive with the likes of Apple and the newest Droid-Nexus-Prime-Evo-4G-Galaxy-Gingerbread-Icecream-Transformer phone.

But the thing that frustrates me is that all these analysts, and reviewers especially, forget is that RIM has first and foremost been a business that caters towards the Enterprise market. Consumer market has always been secondary.

Of course, I think it's safe to say that the very distinct line between the Enterprise and Consumer markets that used to exist is ever blurring, but suffering in the one market does not automatically mean the end of a company, especially one that has dominated the Enterprise world.

With that being said, the notion that the

Blackberry is old, out of date, and didn't know what the definition of 'innovation' meant if it slapped them across the face with an iPhone is looking at RIM with the wrong lenses.

Dual core processors, a kickstand for your phone, a super duper high res screen (because text messages always seem to have more meaning in HD) does not equate to innovation in all markets. Just because a Blackberry doesn't have the flashiest features doesn't mean it isn't being innovative.

Want innovation? How about RIM being government approved and certified by governments and multinational corporations around the world, from the US and Canada, to NATO and exotic countries and states. Like Australia and the UK. Last time I checked, neither Apple nor Android has been able to tout the same qualifications.

How about the Playbook (yes, they're still around) being the one and only tablet approved for use by the US Government via receiving the FIPS 140-2 certification (which is mumbo jumbo for "President Obama can now add a Playbook to his certified Blackberry if he so chooses").

How about Blackberry's being too tough to crack that certain governments are up in arms because they CAN'T get access through the phone's strong encryption.

Are these forward facing features that the consumer Joe cares about? Not really. But just because your average consumer doesn't see the flash doesn't mean it isn't being innovative. Just being innovative within different domains.

RIM was never a consumer first device maker. They are trying to move into the consumer market and have no doubt been met with many challenges, some of it self made.

But difficulties amongst the consumer doesn't take away from the large number of companies that utilize BES servers and give Blackberry's to their employees.

A strong presence in the consumer market can help with sales towards the Enterprise market, and yes there have been difficulties on that front. But it isn't the end of the world for the company when it is still the phone to use in companies, governments and IT departments around the world.



BROCKGRAEME SCOTTKOPP
1B JOURNALISM

Greetings B-Soccers, I'm sure you may be wondering, "Who is that sexy man talking to me from the newspaper machine?"

Well, that's an interesting question my friend, and why is the newspaper a machine? It is paper and ink.

But back to the topic at hand. My name is Brockgraeme Scottkopp (pronounced Brockgraeme Scottkopp). I am a student of Journalism Engineering (now in 1B - woo-hoo!) and avid Amateur Marine Speleologist. But enough about me.

One of the things I enjoy most is bicycling. I have a very nice bicycle, with very shiny wheels, you should check it out sometime, you would like it.

Something I take very seriously in my cycling adventures, which you must join me on someday, is safety.

The most important aspect of bicycle saftey is keeping that head of yours safe. This is something I'm sure most of you do, but is nonetheless important. It is also important not to confuse bicycling head safety with sexual head safety, using a condom in lieu of a helmet, although quite fashionable, will not protect that pretty little noggin of yours from trauma. If you do feel so inclined you may wear a condom on your head underneath your helmet.

With that in mind, even with a helmet, the best option would be to not crash your bicycle whilst riding it, thus avoiding damage to your head and other more tender parts of your anatomy. To do this, ensure that you do not bicycle into oncoming traffic (this may seem to be an obvious tip, but at least one person just had an epiphany) or better yet, do not bicycle in the road at all. Cars (which are indeed machines) are unpredictable and could transform into robots at any moment, as seen in the film Jurassic Park. It is best to steer clear.

For those who are forced into a position where they must use their bicycles near cars (a dangerous game, like Jumanji) it is important to remember, the best defence is a good offence, which does not only apply to sports and war and euchre, but also bicycle safety. If a car gets too close for comfort, punch it in the face, that should

deter it.

But I digress.

Homophones. While the word "homophone" sounds like no other word (except maybe gramophone), homophones in fact refer to a subset of words in the English language which are pronounced the same as another word, but mien different things. Their most prevalent in written works by students who think English is a useless topic that everyone knows (id est engineering students). But don't be won of those people who think homophones should be taken two lightly, while seemingly a minor issue, an engineer who can't spell looks stupider than a person without a twitter account.

Work term reports, something I'm sure many of you are aware of, are won of the most important places to check for homophones.

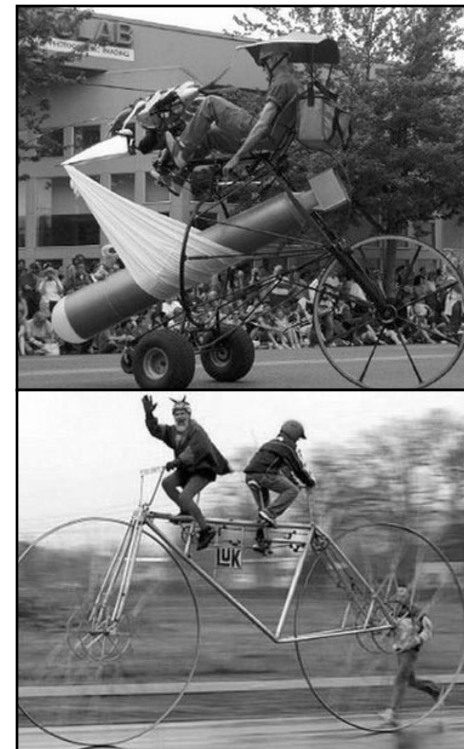
With your new found knowledge, I hope you go fourth into the word a better person. For a complete list of mistakes you shouldn't make, checkout <http://tinyurl.com/brockgraemeforthewin>

For more general inquiries regarding cycling, homophones or spelaeology feel free to contact me via twitter. I will most likely laugh at you for not knowing about what you ask me.

Until later

Hugs and Hugs

Brockgraeme Scottkopp



My 2 Cents on Salary



CHAD XU
2T MANAGEMENT

Money, that's what I want. And if you, my dear reader, happen to be an engineering student, then chances are favorable to suggest that money is what you are after as well, whether consciously or otherwise. Let us not kid ourselves by postulating the notion that our attendance in the world's largest engineering co-op program was the result of a mere accident (unless your parents forced you into it).

Now that we have that pickle cleared up and out of the way, let's talk dollars and dimes, or in the case of an engineer, seven-figure paychecks.

According to the government of Canada, the average annual salary of an unattached individual in 2009 was \$31,500. Fortunately, this figure includes everyone with degrees ranging from Medieval Literature to Antarctic Linguistic Studies. Rest assured, you can still earn more than this even if you're an Arts undergrad at the University of Waterloo.

The more relevant figure of \$72,000 (the mean salary of a licensed engineer in Canada) strikes a bit closer to our ideals, though not by much. Dear reader, do not be disheartened, for the mean is not a good measure, especially if the variance covers a wide range. The figure that we should really waste time focusing upon in an attempt to reassure ourselves (as opposed to actually working during co-op, which I cleverly appear to do) is the amount that a UW engineering alumni makes annually. However, this information is a closely guarded secret of the university, and has never been released before. Despite this, it is not hard for one to imagine that this was done out of respect for other universities, as to spare them of any sort of embarrassment that may transpire.

If you are still reading this despite my blatantly banal attempts at humour at the expense of others, then you'll be disappointed to find out that it was a mere set up to get you to read, and for that I apologize. Though it is with little doubt that a sizable portion of those narcissistic beliefs are embedded in a most pervasive manner in the psyches of Waterloo engineering undergrads. The fact that engineering is one

of the few professions not widely affected by the recent recession does little to humble our ego. For what else is better than the sweet taste of schadenfreude found within the innocuous despair of our peers when they complain of a jobless summer? To that effect however, lies a guilty pleasure that is experienced not exclusively by engineering undergrads, but is rather a blemish on the human condition itself.

Allow me to make a detour.

The fine establishment of Chainsaw in uptown Waterloo (known for its perverse talent of mutilating your favorite songs on karaoke nights) had proved to be surprisingly enlightening during the drunken hours of one particular weekend. The encounter had me find two ladies in their late-twenties sitting at our table upon my return from the unsightly urine-ridden washroom. It turns out that they were University of Waterloo grads (of the liberal arts variety) of some time ago. Amongst the small talk was a question thrown out by me, inquiring whether they were content in their life after graduating. One misinterpretation led to another within the intoxicated dialogue, and I was soon filled with the knowledge of their personal financial situation.

As it turned out, they both made roughly the same amount each year, where one was working as a mentor for blind children, and the other worked as a front desk receptionist. However, there was a stark contrast to the level of happiness in what they tell me. The lady who works with blind children tells me that she thoroughly enjoys her job despite the amount that it pays. No doubt, such a job would have provided her with a profound sense of fulfillment when her blind pupils gain the ability to read braille as a result of her effort. The lady who worked as a receptionist hated her job to the core.

So there you have it ladies and gentlemen, a completely unscientific study about why you should stop worrying how much you will make, and start finding out where your life's true passion lies. Despite the cliched nature of this story, the message is worth repeating. It is also in part a confession of the mild sense of solitude that this writer is currently experiencing despite getting paid an obscene amount for the bare skills he possess while working in the United States. In short, the numbers don't mean much: do what makes you happy.

ENGINEERING ORIENTATION 2011



ORIENTATION WEEK 2011 RECAP DEFENDERS SAVED THE WORLD!!!



From the (nervous, panicked and excited) Eyes of an Engineering Frosh



SUZY PATCHETT
1A NANOTECHNOLOGY

As September begins each year, a new batch of young adults (or old teenagers, depending on how you'd like to describe them) fresh from high school move away from their hometowns to new cities where they will attend university to learn about the subject of their choice. For me, as for most of you, the university was Waterloo, and the subject was engineering. As I arrived in my new home in REV on Monday afternoon and my many milk crates full of possessions were whisked upstairs by a cheerful crowd of friendly students, anxiety twisted the pit of my stomach. Living in a city like Waterloo on a bustling university campus would be completely different from living and going to high school in Sydenham, Ontario (ever heard of it? I didn't think so...). My mind buzzed with worries and questions. (Would I get enough sleep in REV? Would I get along with my roommate? Will I get along with other engineers? Did I bring enough pillows? I don't think I brought enough pillows. I should get more pillows...). After meeting my roommate and other floor-mates at the residence events (surprisingly few engineers in REV), I got a few hours of sleep for the night (I did have enough pillows).

I woke up bright and early on Tuesday. The morning sun shone down on the university campus as swarms of bright-eyed and nervous first year engineering students followed coloured trails of yarn and chalk arrows to their respective Frosh week headquarters. Many of these students, my-

self included, had no idea what awaited them at their headquarters, and they anxiously imagined what was to come. (How does one "Earn" their hardhat? What is this "Junkyard Wars" that starts so early on Thursday morning? What will Friday night's Scavenger Hunt entail? And why-oh-why must I write an English exam on Wednesday?) None of us could have anticipated the intense and fast-paced week that was to come.

Tuesday began with meeting some of the many other engineers in the same frosh week colour group; I was on the purple team (a.k.a. the X-men). I met more people in that first hour than I could possibly remember, then the rest of the purple frosh and I were whisked away to a lecture hall somewhere. I don't remember most of what that was about, but I do remember one thing that happened while we were there; it was arguably the most memorable event of frosh week:

A door opened with a bang and the lights flickered on and off. An intimidating group of people adorned in chains and rather impressive hairstyles stormed in menacingly, bearing an assortment of makeshift weapons which ranged from a simple crowbar to a rather deadly looking sledgehammer. They ignored the many incredulous and confused frosh seated around the classroom as they strode forward, their expressions cruel, their eyes hidden by dark sunglasses. Somewhere between shock and awe, we gazed on, dumbfounded. None of us frosh had been expecting this. This was the ultimate force to be feared during frosh week, above both Enders and Defenders. This was EDCOM. As EDCOM spoke, one question sprung to my mind: They weren't really our TAs... were they?

It was made clear to us what our primary

(if not only) focus was for the week: impress EDCOM. We were given our first chance later that afternoon during our first event: Earn Your Hardhat (and they meant earn it.) It was an intense and eventful afternoon, and after being stuffed in a van with over forty other frosh, launching myself down a makeshift waterslide, scrambling through an obstacle course and racing through a pit of mud over the backs of team purple's Bigs, EDCOM finally deemed us worthy of our coveted yellow hardhat. Even though all the frosh got a hardhat, I couldn't help but feel proud of myself as I donned the bright yellow headwear. It was my first accomplishment as an engineering student, and it felt good.

The rest of the week passed by in a blur, and though the days seemed too long and tiring while they happened, in the blink of an eye, frosh week was over. The English exam wasn't nearly as bad as I thought it would be, and Junkyard Wars was incredibly fun, even if my team didn't win. Meeting the Tool was an incredible (if somewhat cult-like) experience. Friday night's scavenger hunt was fantastic, and the events were probably the most enjoyable part of the week (I'd never been duct-taped to a wall before). As the week ended, I was disappointed that purple didn't win, but also glad that the defenders had successfully saved the world. Frosh week was probably one of the most enjoyable weeks



I've ever had, and I feel like I owe a thanks to all the leader: Bigs, Huges, EDCOM, the FOC, and everyone else who helped make frosh week happen. Thank you so much from all of us frosh! Without all of you, the first week of university would be much more frightening and stressful.

Most of my worries about fitting in or getting along with other people at school had been quelled after frosh week; as I write this I'm going into my second week of classes and different worries buzz around my mind, (Will I be able to stay awake in my classes tomorrow morning? I'm already drinking three cups of coffee a day... Why is EIT 1015 so darn cold? Will I have enough hours in the day to keep up with my classes? Is "because the name sounded cool" a good enough reason to choose nanotechnology engineering? Will I ever be able to read my linear algebra professor's writing?) but everything seems much more manageable after that incredible frosh week. I start week # 2 feeling incredibly glad that I'm at Waterloo, and very certain that this school is where I belong.





Photos by UW Engineering Frosh Week Media

The Beginning of the Rest of Our Lives

LEAH KRISTUFEK
1A CHEMICAL

There are some things you can never really experience twice. Going to university is definitely one of them. Driving a car for the first time is another. There are so many new feelings when someone just turns everything over to you and says "here, you can do it, right?" Here, more than anywhere university is about proving to yourself, and the world, that you can do anything. For me, as I rolled up University Ave. on my way to campus, it was with increasing excitement. All along the side of the road, banners exclaimed the awesomeness of the world's greatest technical university...U of Waterloo. It was only as we biked past the hallowed doors of Wilfred Laurier that the road banners momentarily changed to show that school's pride before continuing to describe the innovations of our favourite university, Waterloo! That first day was terrifying. My mind was filled with doubts and fear probably like all other first-years both now and before me who have all taken up this ultimate challenge, this ultimate responsibility: ENGINEERING.

All the fears and doubts I had were pretty much put to rest the first day of orientation. What could be better than people who dyed themselves purple? (Without officially being allowed to, yes, we are bad ass) [Editor's Note: No one has told us not to!] How about getting to build things for fun in junk yard wars or earning our hard hats?! As Edcom says, 'frosh will enjoy'. Obviously

we were left with no choice. We also had a taste of being rule breakers, something which as smart people we would never do, right? If you were purpled, you know that the things that 'didn't' happen at Waterloo are often the best. Sadly, we didn't get a chance to steal the math tie [Editor's Note: We've really, really strongly been told not to]. Then of course there were all the people we met: crazy people, sane people, but all brilliant, driven individuals experiencing university for the first time. In fact, some were experiencing Canadian cities for the first time. By the end of the week my throat was getting pretty raw from cheering, but I was having a blast! Science may have their secret science dance, math may have their ties, but we have our hard hats, an awesome anthem for our future engineering pride (even though we are still plumbers) and our handy dandy multi-tools. I don't think it could get any better than that.

University is about time management and getting into a routine, but at the same time it is about leaving that routine and being flexible. We are being trained to look outside the box while developing study habits to structure our zaniness. Everything seems new and foreign, even to me and I'm from Ontario! Orientation week created new boundaries of comfort and allowed us all to become more of who we want to be rather than who we were in high school. It's time for our lives as adults to begin and I don't know about you, but as far as I'm concerned it can only get better from here.

Single & Sexy Review



ABY MAHMOUD
2A MANAGEMENT

I still remember the big smile on my face as I walked out of the theatre; Single and Sexy was the talk of the week. It's funny – now that I think of it – how we really underestimated the essence of the play...

Single and Sexy is an incredible act that is funny, informative, and realistic. It depicts the lives of university students in a very powerful and energetic way as it addresses situations that frosh might encounter.

Students enter university looking for a fresh start where they can be whoever they want to be. They long to try new things and undergo different experiences while building their most cherished memories that will stay with them for a lifetime.

As we students glide through our university years, we bump into obstacles and face challenges. Some of these obstacles or challenges are obvious and easy to overcome. However, others (such as the ones Single and Sexy presents) are not; they are indirect and implicit.

The characters of Single and Sexy underwent life changing situations that they never expected. They only hoped for a couple of

fun, carefree, simple university years, but life had other plans for them. The state of unawareness is the worst state a person can be in because they become vulnerable to fall into traps and go down wrong roads. Single and Sexy captures the truth and exaggerates it to bring to our attention the problems that we are most likely to meet yet disregard. We all experience what the characters of Single and Sexy experience, on different levels.

As I think back to the night I watched those students perform, I recall being overwhelmed by the thought of this happening to me. I was astonished by how people could put themselves in situations like this. What I did not know, however, was that it is not as

easy as it seems. Some things in life are just hard to resist, and you will never be able to judge unless you are put in that position.

University is a great, new, experimental chapter in our lives; the people we once were will easily disappear as we find ourselves and build our future. A bad decision or an incorrect turn could easily distort the bigger picture. So expect the unexpected and think before you act. Experience, but be careful; try, but be observant; engage, but don't be naïve. Things don't always turn out perfectly, but they come close to it sometimes. You have got to look for what you want, work to find it, and celebrate when you get it.

An Orientation Leader's Perspective



KEVIN VELOSO
4N SOFTWARE

It all started at the basement of RCH, at our headquarters. What materials do we have to set up the rooms? What sort of decorations would be put up to match our theme? I was in Dark Brown, and as the Evil Monkeys, we piled-up, painted and decorated cardboard boxes along the side walls of the room. It resembled a skyline, like something you would see from King Kong. Out in the hallway we hung thin brown strings, attaching little cut-out monkeys to make it look like a jungle.

All of a sudden, Tuesday! Time to earn our hardhats! The first-years entered the room with banana-stencilled shirts we prepped prior to the week. As this was my final orientation week, I decided that I would experience the magic and fun that is Earn Your Hardhat along with my first-years. What better way than as a Big? As a team we taught them cheers, and eventually they started them on

their own. Mighty impressed with the enthusiasm of Dark Brown! I slid down the water-side, got down in the mud, and luckily our frosh heard us say that it was a lot better to step on our butts when walking across the mud pit. Aerial photo was quite entertaining. Seeing the bear walk around and handing out their developed "Ariel Photos" to everyone sitting down. By the end of the afternoon, we were all tired, but had a lot of fun.

Thursday came along. Junkyard wars! Even after doing Orientation Week so many times, it still impresses me how much can be made by junk! From catapults and water filters, to Rube Goldberg machines and even a house for Uncle Mac, one of the Edcom's uncles who came to visit that day. By this week, a lot of first-years got acquainted with each other, some even looking a bit purple then when I last saw them! Impressive! After Junkyard Wars, we would meet the Tool at Federation hall. It strikes everyone in awe to see the Tool make an appearance.

Friday evening came, along with Scavenger Hunt! Leading first-years around to their next events, learning acts and dances,

and finding ways to impress Edcom were the main activities of the night. Even as a leader, I was very amazed with the cooperation and the efforts put on by my colour group! As the last Engineering Orientation event of the week, we concluded with a gigantic meeting to find out the winners of Scavenger Hunt. Dark Brown leaders had a final photo-op!

By Sunday, we came together at ComEng, both first years and leaders, including Bigs,

Huges, Edcom, and FOC, to enjoy a comedy show and find out the winning team. Edcom looked pretty spiffy with their new haircuts! Congratulations to Team Red on saving the world! Although my team, Dark Brown, didn't win, we still had tons of fun. This was officially the end of my last orientation week. I would definitely recommend first-years, past leaders, and upper-years who have yet to try out to sign up for Orientation next year!



The Art of Self Deception



MIDORI TELLES-LANGDON
2B GEOLOGICAL

Delaying the inevitable is an idea that everyone can relate to. We have all, at some point in our lives, dipped our toes into the deep ocean that is procrastination. The simple beauty of this concept is that it is based on something seemingly impossible, a paradox. Procrastination is essentially the art of lying to oneself. The idea of being able to lie to oneself is an interesting one, and fraught with loopholes. One can only lie to oneself if one is willing to be deceived. It is a voluntary process, and therein lies our first loophole. Without a willingness to believe, we are unable to lie to ourselves. For example, when I first attempted to write this piece I convinced myself that I could not do so because I was wearing the wrong clothes. It would have been impossible to convince myself of such a thing had I not already decided that I was not going to write on that particular day.

Procrastination is also an integral part of human nature. Humans have always had a tendency to lie to each other, from little white lies and to enormous fabrications. It naturally follows that with our mental evolution we would eventually begin to lie to ourselves. We do this everyday, with lies such as 'if I keep clicking this button enough my computer will eventually do what I want it to', or 'if I ignore that strange noise it will eventually go away on its own'. These are simple lies, and provide us with the option to avoid any decisive course of action, such as actually trying to discover the source of the strange noise.

Although occasionally problematic, procrastination has uses. It can be a tool to

speed up the amount of time it will take to perform the task you are avoiding. This may seem contradictory, but when put into the simple terms of the longer you procrastinate for the less time you have to perform the task, it makes perfect sense. Another use of procrastination is that, with the spare time you have while avoiding your task, you may be inspired with a way to make the task less arduous. Procrastination can, occasionally, be more of a problem than an aid. The problems with procrastination can be classified into two main categories, an excess of procrastination or insufficient procrastination. In the case of over-procrastination, one may find that the excessive avoidance of the task has not left enough time for performing the task. Over-procrastination and the first use of procrastination, namely to speed up the process of the task, lie in a delicate balance that is easily disturbed. Caution is necessary. The second category, insufficient procrastination, becomes an issue when the procrastinator is not skilled in the area of self deception. This means the procrastinator produces an insubstantial lie to tell themselves that is not sufficient to dispel feelings of guilt for not performing the avoided task.

The complicated process of lying to oneself takes a great deal of practice to perfect. Luckily, it is part of human nature to partake in this particular activity, and therefore experience accumulates regularly. Though entirely paradoxical, and slightly confusing in theory, the act of telling oneself a lie and making it convincing is quite satisfying. That is why humans naturally procrastinate every day in small ways. That is why we constantly try to tell ourselves to believe things that cannot possibly be true. That is also why we succeed at self deception. We are blinded by our own complex brilliance.

Places Around Waterloo

TAYLOR LAMBERT
1A NANOTECHNOLOGY

Welcome to Waterloo! As you settle in for the new year, some of you may be wondering what the city you now call home has to offer. You will soon learn that Waterloo is the perfect combination of new and old. While we move forward as metropolis known for technology and innovation, we still remain rooted in small town values. Many festivals and events around the city provide unique and homey experiences full of one of a kind food and memories.

This week you can partake in the Stratford Fall festival, where you can take in several horse shows, a demolition derby, birds of prey demonstrations, a battle of the bands competition, take a spin on mid-way rides, and eat all the deep fried delicacies fall fairs have to offer. If you're interested in something a little closer to home, visit the international gem of St. Jacobs.

If you don't have your own transportation, not a problem! A historical train leaves from the Waterloo Station on 10 Father David Bauer Drive, next to the Rec Center, beginning at 10:25, and every two hours until 2:25pm. The short twenty minute train ride takes you through the streets of Waterloo out to the beautiful nature that surrounds the city. As you step off the train, you are welcomed into the controlled chaos that is the Waterloo Farmers Market. Renowned as the world's largest, the Farmers Market is full of things to sample.

Known for its vast amount of produce and food, it is a cheap and healthy way to shop for those first time grocery shoppers to get an experience, and everything on their list. From fresh squeezed juice to unrivaled baked goods, the food is second to none. A flea market and floor of vendors offers a unique shopping opportunity to

find that perfect antique or little trinket. Take the time to just walk around and take in a place that only Waterloo has to offer.

As the weekend approaches, some of you may be preparing for a first date. Wow your date with a cruise. A dinner cruise down the Grand River offers an incredibly scenic and romantic night, along with a great meal and entertainment.

If you're more interested in an experience rather than meal, skip the mundane movie dinner combination and explore the Butterfly Conservatory of Cambridge. A beautiful greenhouse garden filled with thousands of butterflies is a perfect setting and memory for a first date.

Waterloo has so much to offer, but if you aren't ready to explore just yet don't overlook the opportunities of our amazing campus. Clubs offer amazing opportunities. Don't be a victim of the "engineers have no time" myth, "or I'll try it next semester" promise. Get involved now. Create and adjust to your routine now. It is true that we do the greatest amount of learning outside of the classroom, so take advantage and explore your campus and city and see what Waterloo has to teach you.



St. Jacobs Farmers Market

Learning To Row: You're Doing It Wrong



ANGELO ALAIMO
4N ELECTRICAL

Before coming to Waterloo, I rowed competitively for a couple years back home. Of course, Waterloo lacked such a team so my rowing days ended quite early. Although I no longer get out on the water to row, I do enjoy getting onto an ergometer (Indoor Rower for the non-rowing folk) and trying to beat my best 2 km erg test time set when I was a teenager.

Enough of my life story, but back to the point of my article. From my many, many hours spent at CIF, I have only ever seen one person other than myself row with the proper form at this University. So Waterloo, today's your lucky day – you're going to learn how to row properly.

The most popular indoor rowers are made by a company called Concept2, and generally have a sliding seat attached to a rail. The rowing handle is attached to some sort of flywheel which spins, and depending on the amount of air allowed to run across this flywheel, will be of varying resistance.

When you first get on the ergometer, don't try to be a "Man" and set the resistance to 10. There are Olympic Gold Medalists whose forearms are the size of your thighs that would never set it to 10. Instead, set it 4. The reason? It's the resistance that closely resembles the actual feel of being on the water.

There are four main parts to the rowing stroke. In order: The Catch, Drive, Finish, and Recovery. The catch is the start of the stroke where the rower is right at the front of the slide ready to begin the stroke. The drive is the actual stroke with the rower sliding back and easing into the finish at the end of the stroke. The recovery is the last part of the stroke where the rower returns to the starting point of the stroke – the catch. Below I will describe each component in detail.

The Catch

The rower should be at the front of the slide with arms level and extended reaching as far front towards the machine as possible. Knees should be bent with shins vertical and touching the inner thigh. Back should be as straight as possible – posture is key.

The Drive

The drive is the power of the stroke. From the catch, the rower first pushes their legs down and while almost at the end of the knees going flat, the rower's back will begin to lean back (Arms are still straight here). Once the knees are flat, the arms will come towards the body and with power, move towards the upper stomach into the finish. The most important part of this stroke is to recognize that the hands never come over the knees until they are flat after driving the legs down.

The Finish

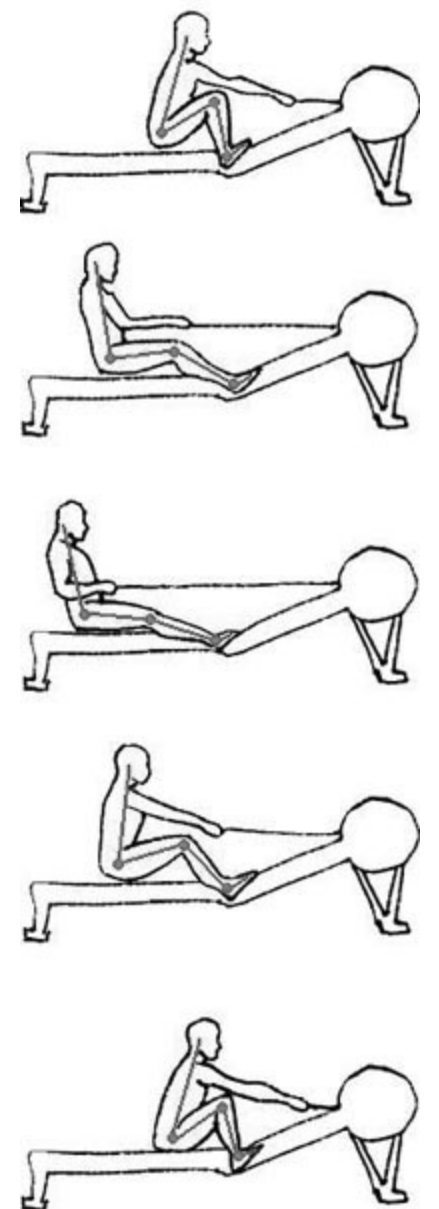
The finish is pretty much the fully ex-

tended drive part of the stroke. In this part of the stroke, legs will be fully extended and the rower is leaning slightly back. The hands come to the upper chest and in doing so push the shoulders back and elbows out. Don't forget about posture – you're back should be as straight as possible throughout the whole stroke. After the finish, the rower will begin the recovery, which is the reverse of the drive.

The Recovery

The recovery is the last part of the stroke in which the rower will return to the catch to begin another stroke. In this part of the stroke, the arms extend out towards the front of the machine over the knees. The arms will be fully extended before the knees begin to bend again. This is critical, and where everyone makes mistakes! The arms ALWAYS come over the knees before the knees are bent in both the drive and the finish. This part separates the average person from the expert rower. The average person will always bend the knees immediately after the finish and then extend the arms out towards the catch. Where was I... Ah right, so the hands come over the knees and the body swings over the hips and THEN the knees begin to bend and the body moves up the slide towards the catch.

There you have it – if you find it complicated to visualize by reading, watch the following video: <http://www.youtube.com/watch?v=eqVmMd7FdAA>. Good luck and happy rowing.



Your Vote in the Provincial Election



HANNAH HIGGINS
IA NANOTECHNOLOGY

On October sixth Ontarians will return to the polls for the Provincial election. Premier candidates include Progressive Conservative Party leader Tim Hudak, New Democrat Party leader Andrea Horwath, Green Party Leader Mike Shreiner, and incumbent Premier Dalton McGuinty of the Liberal Party.

There are five candidates running in the Kitchener-Waterloo riding: Eric Davis of the Liberal Party, Isabel Cisterna of the New Democrat Party, J.D. McGuire of the Green Party, Progressive Conservative Party candidate and current M.P.P. Elizabeth Witmer, and Peter Davis, running as an independent candidate.

Eligibility to vote is determined by four key factors. Those who wish to vote must be Canadian citizens of at least 18 years of age and residing in the electoral district in which they plan to vote. They also cannot have cast a previous vote within the same election.

Students eligible to vote have the option of doing so in either Waterloo or their hometown. In either case, registering as a voter requires one piece of identification bearing both the voter's name and residential address. It is important that the address given on the identification is within the electoral district selected. Such documentation includes government-issue pieces, such as an Ontario driver's license. However, there are sev-

eral alternative forms of identification including a tuition statement, residential lease, or utility bill (hydro, gas). A full list of acceptable documentation is available online through Elections Ontario.

Eligible voters may register to do so by mail until Friday. Those on the Voters List should receive a Notice of Registration Card, which should be brought to the vote. Along with the card, a piece of identification bearing the voter's name must still be brought. There is also an option of registering at the poll on Election Day. This process requires that the identification provided must bear both voter's name and residential address. The bearer may then be added to the Voters List.

In this election there will be various opportunities for students to vote in Waterloo. Advanced polls will be available in the SLC Great Hall September 28th and 29th (today and tomorrow). To utilize the advanced polls, students must simply register their vote. Voting can also be accomplished by mail or special ballot, though these methods are generally less popular than the in-person process. There is also the option of voting on Election Day, October 6th, where shuttle service will be provided to off-campus polling stations.

Every time an election is called, people ignore the contributions that students can make, especially in an area like Waterloo Region with such a high student population. So take a little bit of time to learn about the candidates, and actually go out and vote. See you at the polls.

Read This Like EDCOM Brock Kopp

I was riding shotgun with my hair undone
In the front seat of his car
He's got a one-hand feel on the steering wheel The other on my heart

I look around, turn the radio down
He says, "Baby is something wrong?"
I say, "Nothing, I was just thinking
How we don't have a song", and he says
Our song is the slamming screen door
Sneakin' out late, tapping on your window
When we're on the phone and you talk real slow
'Cause it's late and your mama don't know
Our song is the way you laugh
The first date man, I didn't kiss her and I should have

And when I got home, 'fore I said amen
Asking God if He could play it again
I was walking up the front porch steps
After everything that day
Had gone all wrong or been trampled on
And lost and thrown away
Got to the hallway, well, on my way
To my lovin' bed
I almost didn't notice all the roses
And the note that said
Our song is the slamming screen door
Sneakin' out late, tapping on your window
When we're on the phone and you talk real slow
'Cause it's late and your mama don't know
Our song is the way you laugh
The first date man, I didn't kiss her and I should have

And when I got home, 'fore I said amen
Asking God if He could play it again
I've heard every album, listened to the radio
Waited for something to come along
That was as good as our song
'Cause our song is the slamming screen door
Sneakin' out late, tapping on his window
When we're on the phone and he talks real slow

'Cause it's late and his mama don't know
Our song is the way he laughs
The first date man, I didn't kiss him and I should have

And when I got home, 'fore I said amen
Asking God if He could play it again
Play it again, oh, yeah, oh, oh, yeah
I was riding shotgun with my hair undone
In the front seat of his car
I grabbed a pen and an old napkin
And I wrote down our song

Our Song (2007)
Taylor Swift



Engineering Frosh Week Media

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WATERLOO RESIDENCES

Getting All the Noms at Waterloo



KEVIN LIANG
2B CHEMICAL

For many of you, deciding to come to university meant moving away from home. With that came new responsibilities, like students having to do their own laundry for the first time. However, learning to cook for yourself is often noted as the largest challenge for new students. Those who lived in V1 or REV only postponed their inevitable dissent into cookinghood. Frosh living in UWP, MKV, or CLV needed to quickly learn how to make a decent meal. The process is easier and requires a smaller time commitment than most people think.

The first and most important step starts with what the meal is made of. The ingredients need to be fresh and of high quality and

this can be achieved without depleting your bank account. Fresh fruit and vegetables can even be bought on campus. The UW Farmers Market sells fresh, seasonal fruits and vegetables sourced from the Elmira Production Cooperative, a group of farmers who sell wholesale fruits and vegetables to the community. The farmers market is located in the Environment 1 courtyard from 9:00AM to 1:00PM on Wednesday, September 28 and Wednesday, October 5. They recommend you bring your own bag.

If you are looking for something in between these dates or after the farmers market retires for the season there are many grocery stores in the UW area and many are on major bus routes. The Zehrs in Conestoga Mall is popular for many students since the 200 iXpress route frequents UW and Conestoga many times a day. They close at 11:00PM every day so going after class is not a problem. Another Zehrs, located on

Fischer-Hallman Road and Erb Street is 24 hours. Both locations offer students 10% off on Tuesdays with the presentation of your student card.

For those living in UWP, Valu-Mart in Uptown is just a 20 minute walk on the path along the railroad tracks through Waterloo Park. This is a little more expensive and is open between 8:00AM and 10:00PM. There is also a shuttle service picking up students in front of Eby Hall every second Saturday between 12:00PM and 3:00PM running trips to and from Valu-Mart. The shuttle also goes to Sobeys at the same time and place on the opposite weekend.

Another shuttle service is available to students living in MKV, VeloCity, and CLV alternating between Food Basics and Zehrs every Saturday between 12:00PM and 3:00PM. They pick up at MKV in the Breezeway, at VeloCity and the CLV Community Centre. The shuttle service is only

open to students living in the residence however.

People seeking Asian foods and vegetables are in luck. New City Supermarket is an Asian supermarket located in downtown Kitchener. The main bus terminal, Charles St. Terminal is a short walk to its location. They usually have fresh Asian vegetables, BBQ pork, a large meat department that is butchered on site, and large selection of rice. Although it's quite a trek to get there, their food is very cheap, and is one of the only Asian markets nearby.

Once you have your ingredients it's time to cook. Do not wait too long before cooking, or else your vegetables will spoil. Once the food is cooked, it can be stored for the week. I like to prepare a week worth of food and keep it in storage containers for later consumption. The correct strategy is to plan out your meals and grocery shopping to include the freshest of ingredients.

UWAFT Gets \$25,000 Donation from GM



JON MARTIN
3B CIVIL

The University of Waterloo Alternative Fuels Team, commonly known as UWAFT, received a substantial financial contribution from General Motors towards the construction of their next competition vehicle.

On Thursday, September 22, GM representative Dan Mephram presented the UWAFT team with a cheque for \$25,000 as seed money for the EcoCAR 2 challenge, the sequel to the EcoCAR The Next Challenge Competition. This new competition follows the original competition started by General Motors, the U.S. De-

partment of Energy, and other government and industry leaders, will start with an initial concept and design phase where the team will prove that they understand the concepts and requirements before they get the new 2013 Malibu to start modifying.

This initial \$25,000 will be matched by the University to support the team in the competition. The team's next task is to decide what type of fuel they want to use for the new car, as their previous two vehicles both utilized hydrogen fuel cells, after which they can start designing the new vehicle. Following the ceremonial cheque presentation and a brief question period, attendees of the event were given the opportunity to take the original EcoCAR for a testdrive, showing off its design and technology to the public.



Dan Mephram (From General Motors), and Gurhari Singh and Mark Goody with the ceremonial cheque

Jon Martin

Advice Guys: How To Meet Someone New

CBG INC.
3N SEXUALITY,
MARRIAGE, AND FAMILY

Hello all you beautiful faces

Are you feeling lonely in the world? Do you want to meet a new friend of different (or similar) bodily components, but aren't sure the best way to do it? Don't worry because we can give you exactly what you want (in more than one way). We are the CBG, the guys who will make sure that you make the most of your engineering experience. Trust us for we are professionals in what we do (as attested by our clients from all around campus).

So how do you make these friends with the elusive species known as "Personi-wanna sexitym" henceforth referred to as "Those People"? The first step is simple, meet them. "But how do you do that?" you may ask. Well, that is what the rest of this article is going to be about.

"Those People" are complicated creatures. They want friends with whom they can have a good time. In their mind, someone they can have a good time with is usually someone who shares similar interests with them. So the best way to make sure you have those similar interests is to watch them from far away. Observe everything they do for as long as you need to in order to understand everything they like and dislike and mimic when personality traits disagree.

This works on the psychological principle of "Reptilia In Eis", delivered by our personally favorite psychologist of all time,

Tom Cruise (Cruise et al, p69). So suppose you want to meet people at the most happening nightclub in the region (POETS), stare at them from afar for an extended period of time, and you will be on your way to making a new friend.

The next step, after you get a feel for what they like and don't like, is to approach them quickly. Moving too slowly may make them aware that you had been watching them, and might frighten them. On the other hand, when you move quickly, they have no time to run away.

Say hi to them, making sure to use their first and last name in the introduction. If you happen to know about something in their life (it's their birthday, they just got a job, their childhood pet passed away), this is the time to bring it up. This will make them feel like they should already know who you are, and will make them feel guilty for not knowing you. Once these feelings start flooding through them, it is your time to strike. CBG takeaway of the week: Guilt-tripping people is the #1 way to meet them.

So that is how you meet something new. Give it a try this weekend or when you are chilling around an engineering building. It also works well in meeting new people in computer labs or the library. For our next issue, we will be tackling the difficult task of how to ask someone out on a date, so stay tuned. If you have any questions, email us at cbg.advice@gmail.com.

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CBG Inc.

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Aftershocks: Scientists On Trial For Earthquake Devastation



ZAC YOUNG
2A NANOTECHNOLOGY

On September 20th, seven scientists and seismologists went on trial for manslaughter in the wake of allegations that they provided "inexact, incomplete and contradictory information" before an earthquake on April 6th, 2009 in L'Aquila, Italy. The 6.3-magnitude earthquake rocked the region, killing over 300 people and destroying the homes of 65,000 others. The trial has sparked controversy around whether inexact science can be blamed for the devastation that shocked the unsuspecting region.

Warnings rang in for a major earthquake a month prior but conflicting evidence be-

gan to appear as the tremor failed to arrive. The initial reports by Italian lab technician, Giampaolo Giuliani, were blamed for being too extreme with evidence from tests considered to be unreliable. As time wore on signs in the days leading up to the quake, tremors were felt in the area. This prompted a meeting on March 31, 2009 by the Commission of High Risks where the seven men on trial presented reassuring evidence and a memo stating it was "improbable" that a major earthquake would occur. This information has been blamed for the lack of precautions taken before the quake and subsequently an increase in the death toll and impact on L'Aquila.

While it is evident that the seismologists incorrectly forecast the earthquake, a successful trial would imply up to 15 years in prison for each man. The scientific com-

munity in Italy has been enraged by the accusations, as the trial puts a black mark on their reputation as a global research centre. The trial also has potential to cause a huge shift in the attitude towards forecasting natural phenomena with such unrefined sciences. While predictions have made progress towards accuracy and advanced warning, new dangers would stem from wary scientists and inconclusive evidence. Putting responsibility for exactness on an unproven science would only hinder its development and sustainability. Heavy criticisms have come in from the global science community, condemning the trial based on something that is nearly impossible to predict.

The trial also exposes the possibility of shifting the blame from Italian authorities. With thousands of citizens impacted in L'Aquila, demands for answers as to

why the earthquake had such devastation could expose ineffective government actions. Serious failures in disaster preparation and enforcement of building code would implicate the authorities with the heavy losses. Having received the brunt of the public backlash, the trial may redirect some of the accusations.

After a three hour hearing the case was adjourned until October 3, 2011. Until then, the global science community waits with bated breath to see whether they will become legally responsible for predicting the forces of nature. Every week the world witnesses new disasters, some predicted and others unexpected. To hinder the development of these sciences and quiet already unconfident warning systems is a step backwards from saving human lives in the face of nature's fury.

Future of Gaming The Portable Gaming Phoenix



JON MARTIN
OBI JON1138

The field of gaming has been changing a lot in the last few months as the mobile gaming market has taken the forefront, both worrying people and leaving some questioning its future, while at the same time also spreading out to dominate sales.

First, a quick intro for the new frosh. This column focuses on the changes within the gaming industry, new technologies and products, software and firmware changes, public issues and controversies, and rarely, specific games. I try to avoid talking about specific games because there are so many different genres that it would be impossible to ever interest most people, but the systems are much more limited. I personally have an Xbox 360, and a Nintendo DSi, while my sister has a Nintendo Wii, and a DS Lite. I would consider buying a PS3 – especially if I had the disposable income or I got a press review unit (Hey Sony! People read my column, I could review PS3 updates and games a lot easier if I had a PS3) but I have found that a lot of the exclusives on PS3 just don't appeal to me as much as the ones on Xbox. I am of the belief that there is no 'best' console, everything is dependent on what kinds of games you like personally and which console caters to that demographic. So I will try to be as un-biased as possible.

So, now to include some changes to this scope for the future of this column. So far I have focused mainly on the home consoles, including the Microsoft Xbox 360, the Sony Playstation 3, and the Nintendo Wii, with some discussion of the mobile systems. The mobile industry has focused mainly on the Nintendo DS (and all its different iterations) and the Sony Playstation Portable (and its different versions), while Microsoft has still refrained from releasing a portable version of the Xbox, despite many groups looking for it each year at E3.

In its present state, I am worried about the future of the portable gaming market in its current form, but hopeful that the current changes are beneficial. The first part of the portable gaming market, the existing dedicated systems, is the part that I am worried about. Both the PSP and the DS have been suffering recently amid declining sales, and both have ended up taking some

drastic measures to try and compete. Sony appears to be releasing a dumbed down budget version of the PSP, staged between the failure of the PSP Go and the coming release of the PSP Vita. This new version is extremely bulky, with a small screen and cheap materials. Personally I can't imagine what kind of market Sony is trying to reach with this system: either the dumb consumer who doesn't realize that there is a difference, or the Christmas shopping parent who simply has to fulfill the "I want a PSP, NOW!!" scream. Nintendo, on the other hand, has drastically dropped the price of the newest version of the DS: the 3DS. The no-glasses-3D capable system has some truly incredible technology imbedded in it, hence its substantial initial price. But now, not even a year later Nintendo has dropped the price to just \$170. There is no way the manufacturing costs of the components can have dropped so quickly, so Nintendo must be taking a substantial loss on every single system sold. For a company to discount their product so much so close to its release date is a really bad sign. Did they completely misjudge the market? Did they overprice it at the beginning and scare people off? Was it too early for 3D maybe,

smartphones and tablets. Historically, most gaming sites just ignored mobile gaming because it was limited to extremely simple games for cell phones – a lot would be more comparable to Gameboy games than the DS and PSP games that were out at the time. Since then, though, the introduction of the iPhone, iPad, smartphones, and tablets have caused a drastic growth of development of quality games in this category. New games released for the iOS and Android (which is slowly starting to get more AAA titles) are rapidly approaching the quality of portable gaming systems, and I think that is scaring the gaming system manufacturers. There is no reason why a smart phone with a dual core processor shouldn't be able to run a full Pokemon game (just to use an example from Nintendo's library of IPs that they just won't let die). A perfect proof of this is Lego Harry Potter: Years 1-4 which was released for iPhone and the iPad, where the game was almost identical to the DS version.

I think a fundamental change is coming soon for the portable gaming market, one that will see the dominance of dedicated portable gaming systems die and have mobile devices take over the entire market.



thetelecomblog.com

judging by the extremely low number of games that have been released since the 3DS was released, maybe this is true. But at the same time, the Kinect peripheral for the Xbox 360 hasn't had many new games since its release almost a year ago – yet it is the best selling peripheral of all time. Why the difference?

I think the problem for the 3DS is the second part of the portable gaming market that I want to talk about, and that is mobile gaming. Mobile gaming is the standard name most gaming sites have come up with to talk about gaming on systems like

Of course the manufacturers want to avoid this for as long as possible because they are currently enjoying an almost perfect monopoly on the market. If you want to play a Pokemon or Mario game you have to buy a DS system from Nintendo. If you want to play Monster Hunter or Metal Gear Solid you are going to have to buy a PSP. Even for multiplatform releases, there are really only the two systems to choose from. Compare this with mobile gaming where there is a lot more variety. True, there are really still only two types – Android and iOS, but there are multiple manufacturers

on the Android side. The best comparison is probably Mac vs. PC gaming, where there are lots of different manufacturers on the PC side making PCs for every specific need. People have the inherent desire to be different and to stand out (which is funny considering everyone ends up buying the same phone) and have a piece of technology represent them. It is this basic desire that I think is hurting Nintendo and Sony in the current portable gaming market; people don't want the same generic gaming system as everybody else – and offering different coloured shells don't help. The other big problem for Nintendo and Sony is that their gaming systems are just that -- gaming systems -- while the newest mobile devices have thousands of apps, while also having browsers, phoning (of course), all in addition to the gaming. The new PSP Vita will apparently be more like a smartphone, but I don't think it can ever come close to what already exists and is being continually improved. Another factor impacting portable gaming right now is the ability to advance hardware just like in PC gaming, this allows for new programs and games to continually be written without the limitations of a standard architecture.

Eventually, the big gaming companies are going to admit defeat to mobile gaming and will probably shift to becoming developers and distributors of games for smart phones and Apple devices. In the meantime, I am looking forward to the release of the PSP Vita to see how well it survives. While I think they have a great device (and have finally fixed the problem with having only one analog control) I just don't think it will succeed. The games that can be made for the system are so close to full console games that I think most people will just get the console game. At the same time, any casual games are going to be defeated by the inconvenience of having to carry around the device. Who will want to buy and carry around a portable gaming system when their phone can play the identical games?

So that is my rant for this issue and my predictions for the future of the gaming industry, specifically the portable/mobile gaming market. Whatever happens, I hope my prediction of failure for the PSP Vita doesn't stop Sony from giving me a PS3 to test out games. Anyway, have a good mid-term week, study hard, and don't forget to break out the console and play some games to break the monotony of classes.

T Cubed: Facebook and Microsoft Shake Things Up



JACOB TERRY
2A NANOTECHNOLOGY

In the world of social media, it seems Facebook is making more moves forward in a push for supremacy over your social life. Facebook announced a slew of changes at their annual F8 conference and implemented some of them during the week before the conference. One of the largest changes is the Profile page, which now appears to be branded the Timeline. Instead of listing the most recent 20-30 actions a user has performed, it displays a user's history in a timeline format with wider, larger stories. It has a little date chooser on the right to pick between years, so friends and stalkers alike can jump to a date in history easily and read whatever you did at that point in time.

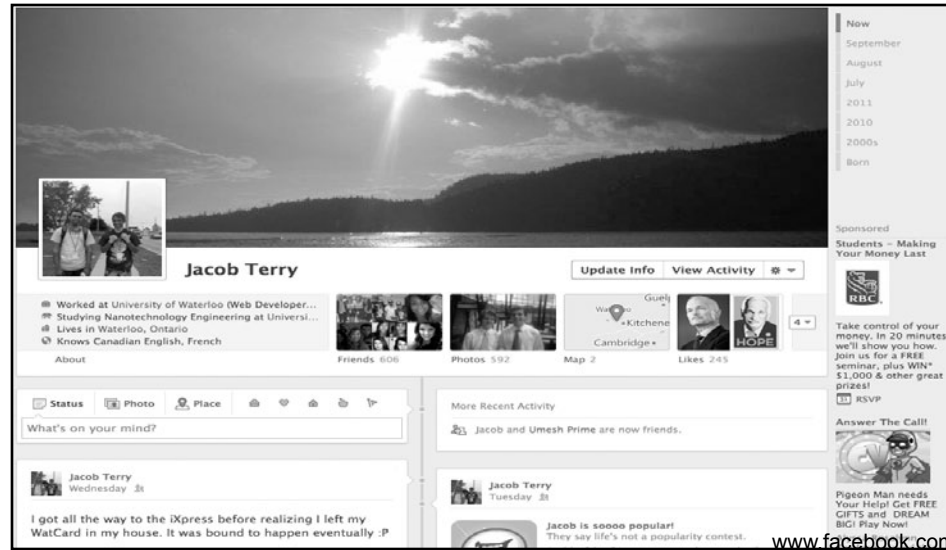
The Timeline lets you insert milestones at will between your stories, in case there's something in your life you felt would benefit being added to Facebook's directory of you. It gives you suggestions under the five categories (Work and Education, Family and Relationships, Living, Health and Wellness, Milestones and Experiences) of life events you may want to add or you can add your own in as you see fit. It also separates when you got your friends, put up photos and liked pages into clusters, that make it easier to see, for example, how many friends you got in September 2011 or how many photos were put up in 2007. To top off your new profile, you can add a cover picture, which it appears is supposed to represent something different than your profile picture. Whereas a profile picture is meant to be a picture of you, it seems the cover picture is a picture that represents you or your life, or that you just find cool.

In an attempt to promote higher-level sharing, some applications will now provide "experiences" which let users listen to music, watch TV and read articles together. Multiple music services, Netflix, and Hulu have partnered with Facebook to post articles to a user's News Feed or Ticker when they listen to music or watch something. Friends can click those activities and listen or watch things in real time together with the original poster. The Ticker is a little box most of you have probably seen in the right side of the News Feed, which provides real-time updates of what your friends are doing.

While I've always been behind most of Facebook's changes, the Ticker seems

like a little too much. It constantly tells me when someone likes something, gets a random friend, comments on a post written by someone I don't know or anything else they're doing on the site. This wouldn't bother me so much if I had a good way of filtering the content so it didn't read like a narration of everyone's life. You can individually hide stories, and if you go to the user's profile you can unsubscribe from types of updates, but it takes too long to do this for all your Facebook friends. It also feels a little creepy seeing the stuff pop up the second someone makes a post or likes something.

The new Close Friends list gives me that uncomfortable feeling to a lesser degree. When you add people to the Close Friends list, it gives you a notification any time they post or do anything. This is much like how the Ticker displays everything friends do, but the Close Friends notifications pop up along with your other notifications in the top bar. Yes, this is an easily solvable issue if you just don't add anyone to your list, but my concern is more with how you could end up on other people's lists. If I'm on a list of a good friend of mine, I wouldn't mind, but if a weaker friend decides to follow my every move I'd find that



a little weird. I guess they could always just go to their victim's profile when they want to creep someone, but the notifications could make it easier for those more lazy stalker types.

While Facebook announced these new changes, Google made an attempt to keep their social network somewhat relevant by opening the doors of Google+, its social networking site, to all users. I'm not sure how many people want Google+ that didn't get an invite already through the closed beta program, but apparently there's

been a spike in activity after Google removed the sign up restriction. I was one of the early adopters that believed it might actually catch on, but I feel Facebook has creatively borrowed enough of the good Google+ concepts (minus the physical circles) that there is less of a reason to move to Google+. Privacy, which is usually one of the major sticking points against using Facebook, is not much of a factor in switching considering Google has had its fair share of privacy complaints.

Social media isn't the only big news in tech this month, as Microsoft has released a Developer Preview of Windows 8 at their Build Conference, their next version of Windows, which is expected to come out in 2012. We've already seen previous builds of the operating system before, so some things don't come as a surprise, but I'll briefly reintroduce the OS for those who haven't followed too frequently. The biggest visual change in Windows 8 is the new user interface which borrows from Windows Phone 7, dubbed "Metro". When Windows 8 starts, it loads a set of tiles which represent apps instead of a desktop. Think more along the lines of an iPhone or Android if you've never seen the new Windows design language, but instead of

Another interesting change in the Metro side of Windows 8 is that Internet Explorer 10 will not support plugins, including Flash. This keeps the browser running faster and more securely by not depending on third-party attachments. It also helps battery life, as devices which support Flash have been shown to have a much shorter battery life when displaying Flash content. Microsoft's reasoning lies in the growing adoption of HTML5 animation and video, which it believes is widespread enough to satisfy most user needs. Microsoft's stance on Flash and the Windows Store is similar to Apple's approach to iOS, which also does not support Flash and requires apps to be downloaded through the App Store.

Another Windows 8 change that has been heavily discussed after the preview's release is compatibility with ARM. ARM is a type of processor architecture used in almost all smartphones and tablets. Most laptops and desktops use x86 or x64 architecture, which are processors most commonly made by AMD or Intel. To branch out onto tablets, Windows 8 is ARM-compatible mostly to make it easier to push the operating system onto tablets which require low power. Part of the discussion about this feature in Windows 8 is how Desktop Apps will work on ARM devices. There have been rumours that only Metro Apps would work on ARM devices, and others that say Desktop Apps would have to be recompiled for ARM devices.

While the ARM issue is kind of murky right now, I'm sure it will be clearer once the release date gets closer. From what I've seen of the operating system so far, I'm fairly impressed with the direction they are taking Windows in, which is unusual coming from me. Between Microsoft and Apple, it seems that traditional operating systems are shaking up the standard pattern and design they have followed for the last 20 years. Laptops and desktops seem to be making the transition to the simpler, more connected computing we get with smartphones and tablets. Like it or not, it seems like this is the future for our devices, and it looks promising.

Even if you don't agree with what Facebook and Microsoft have announced, their respective paces of development are anything but stagnant. The competition they've received only accelerates these kinds of changes, which turns out better for us in the end. Most may not agree with what is updated at once, but when you step back and look at the long-term vision, you may find the alterations helpful in realizing a better service.

Big Things With Will Zichodne

World's Largest Earth Borer (aka Giant Ass Saww Thing aka PHYS 115 midterm)



WILL ZICHODNE
3B MECHANICAL

Weight = 91 MILLION pounds
Bucket (giant ass saw) diameter = 70 feet
Top speed = 0.5 kph
Friends, frosh, and fans welcome to another term of Big Things. We're starting off colossal with Greenpeace's worst nightmare - the V CAT D8R. Its only purpose is to obliterate the earth at a rate of 76,455 cubic meters per day. That's enough volume to fill 2 Olympic sized pools every hour but who cares? More importantly you could dig a 1000 ft deep hole on your crappy student ghetto lawn in about two and half hours. Of course you would need 10,526 dump trucks to haul the dirt mixed with the pieces of your neighbour's dog but if

you can afford this \$100 million digger it shouldn't be a problem. Forget blending iPads, this rotating death wheel will blend a goddamn city!

Guys I'm gonna be honest, I couldn't even find a picture of a hole made by the D8R. My guesses are:

-The manufacturer realized that there is no way anybody would ever need something like this

-Fear of the 5 man crew going 'rogue' and digging to the center of the earth

-Stuck in its own hole (heh)

I want to talk about the max speed of this sexy behemoth. So you say 'Will half a kph is not fast'. Yeah? When's the last time you moved 91 million pounds at that speed? We are talking about enough momentum to get half of RCH and its disgusting wall-carpet-head-stains to orbital escape velocity. Not too shabby eh?

Try to imagine the INSANE amount

of torque at the end of the rotating death wheel. Now trying imagining the poor bastard that started designing this beast by writing $F = MA$ on a piece of paper. I have no idea how this thing does not just

explode when it fires up. Maybe it's because it was built by the Germans - and everyone knows they make good stuff. Big things rock!

Photo: AmazingPhotos4All.blogspot.com



Buyer's Remorse



NANCY HUI
2A CIVIL

September 30th is the university bookstore's point of no return. Beyond that, the pain of a lightened wallet cannot be undone. The glossy brick that serves as the world's most expensive two-inch-thick drink coaster shall serve as a constant reminder of young follies. It may be too late to get refunds for textbooks, but not too late to grimly resolve to buy cheaper next year. Confucius said, "By three methods may we learn wisdom: first, by reflection, which is noblest; second, by imitation, which is easiest; and third, by experience, which is most bitter." Well, that primes y'all for gaining wisdom, doesn't it?

There are two major schools of textbook pennypinching: Damage Control, and Loss Prevention.

Damage Control entails a student's at-

tempts to decrease the hit taken to the student wallet after a reckless \$700 book binge in first year by selling off the ill-gotten gains. Students wishing to take advantage of either method, but especially Damage Control, should note Policy 15. Barring university outlets (Bookstore, ESmart, WriteSmart, Campus organization retail (FEDS, the Grad Student Association) and external companies under contract (CIBC, Apple Haircutters), no group, organization, or individual shall engage in commercial activities on campus without written permission of the Director of University Business Operations. Policy 15 keeps out hot dog stands, the guys hawking fake Ray-Bans, and most importantly, student textbook resellers. While it is not against policy to advertise, to actually sell anything is not condoned, as I found out the hard way. On the other hand, by the time I was politely asked to leave, I had brought out a pile of 1A textbooks and a hobo-brand cardboard sign within five metres of a university outlet. Not the best decision I ever made.

Luckily there are options other than strapping old textbooks to one's body, slapping a trench coat on top, and sidling up to baffled parents whilst whispering, "Hey, wanna buy a book?" accompanied with a discreet flash of the concealed goods. The UW Textbook Exchange on Facebook has high traffic but a post is likely to be buried beneath dozens of its ilk in minutes. The system implemented by Bookro UWaterloo (bookro.com/uwaterloo/) is less haphazard, but comes at the price of being compared to cheaper, superior versions offered by different sellers on the same page. Engineering programs are likely to have Facebook groups, where one can shill to a niche market. Me, I found success skulking around orientation events and politely accosting people who toted their shrinkwrapped textbooks proudly. Eighteen hours in pleasant weather for a \$180 recovery – about minimum wage. Not bad. If you're not inclined towards peddling the wares yourself, you can pay the FEDS Used Bookstore (in a corner of

the SLC basement) 10% from their retail price they set on your used book.

The second school of practice – Loss Prevention – is more effective. Skip the keener back-to-school phase and unleash the procrastinator within by putting off textbook purchases and wait until the first lecture for the prof to admit that the previous edition is probably alright or that the text isn't actually required and "more of a reference, really". Then check the price quotes in the FEDS Used Bookstore, compare it to stragglers perfecting their Damage Control techniques online, and buy whichever is cheapest.

I'll admit it's difficult to make the effort to seek out buyers and sellers. It is tempting to give in and buy everything new from the bookstore. But every time I doubt the worth of my efforts, I remind myself of how much cheese I can buy with the money I've saved. Or the trees, beverages, fountain pens, whatever. Anything besides the world's most expensive collection of two-inch-thick drink coasters.

Weekend Warrior

TAYLOR LAMBERT
1A NANOTECHNOLOGY

It has been said that engineers are an arrogant bunch, perhaps condescending and even patronizing at times. In our defense, we probably have been jaded by the massive amount of homework and the staggering number of classroom hours we endure. In fact, our cynical and yes, condescending, view of other faculties and majors...arts ... is perhaps born out of a slight jealousy. But I am here to not only change the perspective towards engineers; I am here to broaden the perspectives of engineers themselves.

Although humility may not be one of our strongest traits, our love of knowledge and unrelenting pursuit to expand our boundaries has led me to a new project. Based on the same premise as World of Jenks, I will be spending each weekend with someone on the campus or in the community.

After the weekend I'll be summarizing the weekend's events, but more importantly, sharing what I learned from each experience. I want to walk a mile in someone else's shoes, compare our lives, and compare what I learn to the preconceived notions that tend to plague engineers and their reputations.

I will be exploring many different topics and ways of life in an attempt to answer as many questions as I can about our community and fellow students. What is the weekend of an arts student like compared to that of an engineering student? How do student athletes manage the demanding schedule of engineering? What is it like to be a chemical engineer versus a mechatronics engineer?

As engineers it is our job to continue to push our world further, find the next best thing, and in the process better humanity. But how will we ever be able to do so if we don't even understand our world and the people in it? We have to learn to appreciate their needs, their wants, their struggles and their victories. We have to appreciate that we all have a story, a story that is worthy and one that should be valued.

No topic, faculty, or major is off limits. The bigger the contrast the better! Now before you agree to let someone just spend a weekend with you, it only seems right that I tell you about myself. My name is Taylor Lambert, and I am currently in 1A Nanotechnology Engi-

neering. However I wasn't always set on becoming an engineer; I was previously at Ryerson pursuing a degree in journalism. I'm a local girl from Kitchener and still living at home, although I have had the dorm experience. I was a boarding school brat, but not in the typical sense. I attended an athletic boarding school in Saskatchewan to play hockey and rugby. Sports are my life, and yes I am a Leafs fan (apologies if that is a deal breaker). Sports preferences aside, I am truly interested in getting to know my community on and off campus.

We have so much to offer each other and teach each other; I am more than ready to learn. So I am putting it out to you: if you have something to offer, something to teach, I want to learn from you! Invite me into your weekend plans and show me what a weekend in your life is like. Challenge me, and challenge preconceived notions.

We want to share your story! If you believe that you have a story worth sharing email: iwarrior@engmail.uwaterloo.ca

See you next weekend!

Whose Live Anyway?



JON MARTIN
3B CIVIL

On Thursday September 22 the Kitchener Centre In the Square Theatre played host to the improvisational games of the Whose Line is it Anyway? On stage were Ryan Stiles, Greg Proops, Chip Esten, and Jeff Davis, with series regular Bob Derckach on the piano. As Ryan said, its everyone from the Whose Line show except for "the bald guy, the rich guy, and the black guy".

For longtime fans of the Whose Line show the live stage show was a great experience, seeing all of the classic games but also having them run for extended times and with a little less censorship than the classic show (Greg had a real problem with this).

The one thing that I really missed from the show was Colin Mochrie (I've never really liked Drew Carey, so I didn't miss him at all), who was a regular for the entire American run of the show and about half of the original British run. Colin and Ryan

always had a great way of playing off of each others jokes, along with the standard bald and gigantically tall jokes.

The live show included the standard games Infomercial (CD set for songs of the architect), Whose Line (strips of paper with audience provided lines), Quiz Show, Genres, Song Styles (singing Opera about how two audience members first met), and several others. Sound Effects was particularly entertaining as one of the two women who volunteered from the audience was too drunk to walk up the stairs. The performers had to break character a few times to explain what a megaphone does, and what a speedboat engine would sound like. She didn't seem to need a prompt for purring like a cat.

Of course one of the best things about the live show was how the performers continually reference local traditions like Oktoberfest, the local German heritage, and the local technology field ("Welcome RIM employees, and friends of RIM employees").

If you have the opportunity to see the live show on a future stop I would definitely suggest it. Nothing beats these improv actors put on the spot right in front of you.



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Musical Musings



NOUHA JAVED
2A CIVIL

Everyone hates people who are pretentious about music. They go on about the 'inherent darkness' and the 'layers of haze and humidity', and you just want music to play in the background while you study. But occasionally, it's nice to actually get into the music, and truly listen to whatever you're tapping your pencil to. To be reminded that there are people out there making that music; putting their heart and thought into every beat and note. For me, its events like the Polaris Music Prize that act as those reminders. It's an evening watching musicians talking about their work, and witnessing how much energy it takes to play a three minute song. The nominees and winners are chosen by a panel of Canadian music journalists and bloggers, which has made Polaris notorious for having completely unexpected nominations. This year, the short list has music heavyweights like Ron Sexsmith and Arcade Fire (who won the prize) rubbing shoulders with the lesser known The Weeknd and Braids. If made into a completely overused analogy, that's like having the football players sitting next to the geeks in a 'High School Musical' cafeteria. But let's not ignore the other artists on the Polaris shortlist; there's plenty more people in that cafeteria.

Artist: Arcade Fire
Album: The Suburbs

What They Sound Like: Arcade Fire didn't just win because their music is beautifully subtle, almost church-like, but also because it is as grounded in emotion as it is celestial. The album captures all those moments of isolation and alienation felt by those growing up in suburbia, and trans-

lates them into stuff you want to tap your foot to.

Check Out: 'City With No Children'
Artist: Austra
Album: Feel It Break

What They Sound Like: What should play at Halloween themed raves. Ambient, hazy and dark, Katie Stelmanis' classically trained voice makes Austra's electro-pop atmospheric.

Check Out: 'Lose It'
Artist: Braids
Album: Native Speaker

What They Sound Like: Like the Wack-a-Mole game at an arcade, the sounds in 'Native Speaker' pop out at the listener in a seemingly random order. It doesn't take long to realise though, that each note serves a purpose, alternatingly building up tension then releasing it (just like hitting moles). It's this ordered randomness that makes the album into a beautifully cohesive debut.

Check Out: 'Same Mum'
Artist: Destroyer
Album: Kaputt

What They Sound Like: Destroyer is one of those artists that you're not sure of you like or not, but you want everyone to listen

to anyway. With a cheesy 70's sound (that you secretly adore), Dan Bejar's lyrics flourish, each song becomes an epic saga.

Check Out: 'Poor in Love'
Artist: Galaxie
Album: Tigre et diesel

What They Sound Like: This album is in French. Full disclosure. This doesn't stop Anglophones from pretending to sing along to these guys though. They're full of grit, awesome guitar riffs, with just a hint of pop.

Check Out: 'Piste 1'
Artist: Hey Rosetta!
Album: Seeds

What They Sound Like: The perfect driving music; picture you in a convertible with the sun shining down, driving along the ocean. Lead singer Tim Baker's lyrics are reason enough to listen, but the gorgeously layered music doesn't hurt. I can never decide whether to grin or cry when listening to these guys.

Check Out: 'Yer Spring'
Artist: Ron Sexsmith
Album: Long Player Late Bloomer

What They Sound Like: I think I had 'Believe It When I See It' on repeat for a week. It's the kind of song you want to belt

out at karaoke night; great pop sound, and even better chorus. The rest of the album doesn't disappoint either. Despite the fact that Sexsmith sings about the usual: love, life and the pursuit of happiness, he makes it sincere.

Check Out: 'Believe It When I See It'
Artist: Colin Stetson
Album: New History Warfare Vol 2. Judges

What They Sound Like: 'Experimental jazz' is the understatement of the year when it comes to Colin Stetson's music. What he makes is pure noise: unadulterated, organic, brassy. Some tracks embrace a lack of vocals, focusing instead on transcribing emotion into sound, while others introduce a voice to showcase the contrast between instrument and human. A necessary listen.

Check Out: 'A Dream of Water'
Artist: Timber Timbre
Album: Creep On Creepin' On

What They Sound Like: The kind of music you do not want to hear while walking alone through the woods. Slow but quick, Taylor Kirk's sluggish vocals make you want to sway and lose yourself, while creating the feeling that someone is watching you.

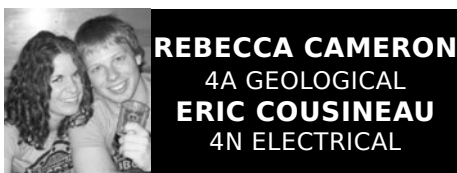
Check Out: 'Black Water'
Artist: The Weeknd
Album: House of Balloons

What They Sound Like: An album of theme songs for astronauts. The recently unknown The Weeknd creates a sound that's dark, spacey and familiar. Much like his co-signer, Drake, there's plenty of synth and long, drawn out vocals. His drug fuelled night-time imagery is perfectly carried by falsetto, guarantying to get stuck in your head.

Check Out: 'Wicked Games'



Cross-Canada Beer Tour & Weird Beer Facts



REBECCA CAMERON
4A GEOLOGICAL
ERIC COUSINEAU
4N ELECTRICAL

Hello readers (and especially first years)! For those of you reading our column for the first time we are Rebecca Cameron (4A Geological Engineering) and Eric Cousineau (4N Electrical Engineering), the writers of Beer Buzz. Our tastes are pretty different - Rebecca prefers stouts and dunkels, while Eric likes ales and IPAs. As a couple, we have tried hundreds of different beers together and we have almost 60 unique beer glasses sitting on our shelves waiting to be filled with hoppy goodness! Our beer column looks at how to taste beer, pour beer, find good beer, different beer styles, and the history of beer. We hope that we can convince people to be more adventurous in their beer drinking decisions. There are some amazing imports and microbrews available, so don't let the Beer Store's Top Ten list make your beer choice for you!

This term we are in a unique situation - Eric is on co-op in Burnaby, BC while Rebecca is in Waterloo (working at the CnD a lot - so if you want to chat about beer go visit!). We will use Skype to ensure our beer tastings go the same as they do now, although Eric will be drinking West Coast brews and Rebecca will be drinking more local brews.

To help get you excited about beer, we decided to start off the column this term with some interesting random facts you may or may not know about beer. The world's first consumer protection law was enacted in 1516 by Duke Wilhelm IV of

Bavaria. It was a beer purity law (Reinheitsgebot in German) limiting the ingredients to barley, hops and water. While not technically in effect today, many German and Bavarian breweries still claim to comply with the law for marketing purposes.

Ever wonder if there's a beer out there that can beat out wine in terms of alcohol percentage? The strongest beer in the world, called Triple Bock, is brewed by the Boston Beer Company (aka. Samuel Adams) and it rated at 17% alcohol by volume. The alcoholic strength is achieved by using champagne yeast in the fermenting process.

Popular opinion leads people to believe that canned beer is inferior to bottled beer, this is not true. Many people claim that the aluminum in the can changes the flavour of the beer, but this hasn't been true since they started lining the cans with epoxy 40 odd years ago. Even in 1935, when canned beer was introduced, the cans were keg-lined to preserve the taste of the beer. On the other hand, bottles may not be all they're cracked up to be since the nature of the container allows light to penetrate and oxidize the beer. Brewers have attempted to block the harmful wavelengths by using tinted glass (that's why most beer bottles are brown), but the tint can only do so much. If exposed to too much light, the beer will oxi-

dize and become what is commonly referred to as skunky.

Finally, according to Statistics Canada, as of 2007, there were 197 establishments brewing beer in Canada, 91 of which are in Ontario. According to the US brewers association, there were more than 1,525 breweries in the United States in mid-2009. So, enough facts - let's get to some beer!

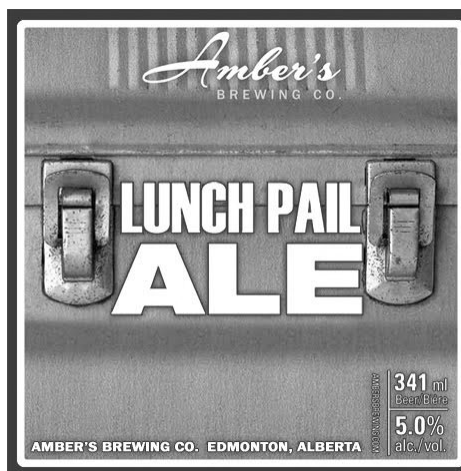
We kicked off our cross-Canada beer tour by ignoring Ontario completely - we wanted to try beers from other provinces, not the same old brews. So our first stop for new beer was in Winnipeg, Manitoba. After some struggles with the sketchiness and terrible driving Winnipeg had to offer us, we went out in search of beer. We found a really sketchy looking drive through beer store that was rather small. But we went in and found what we were looking for - the Fort Garry Brewing Company's Pale Ale. It was brewed in Winnipeg, and the brewery happens to be Manitoba's oldest micro-brewer (since 1930). Since no glasses were on hand we drank this from the bottle, and because of this we weren't able to judge its appearance. The aroma was very grainy and metallic - we were hoping it would smell more hoppy. The taste was sweet and malty and as the beer warmed the taste of the hops became

more apparent. Overall the beer was typical for a micro-brew, but since it was fresh it was an above average beer.

We then went to Regina, Saskatchewan and found a large liquor store. We picked up a six-pack of Great Western Brewing's Original 16 Canadian Pale Ale brewed in Saskatoon and we quickly determined this was a long name for a beer that came up very short in taste. We had to drink it straight from the can and were seriously regretting not bringing our own beer glasses at this point. Again, skipping appearance, this beer had a faint aroma of stale malt and musty hops. It tasted very bland and distinctly reminded us of the dreaded Beer Store Top Ten...except this time we were buying it in Saskatchewan where good grains should be abundant. Overall, we did not appreciate the beer at all, and would suggest avoiding it in the future.

We were then on the road again, this time to Calgary, Alberta. We found Amber's Brewing Company's Lunch Pail Ale brewed in Edmonton. The quirky design of the case was what inspired us to give it a shot. We drank it from the bottle, and loved the smell of this one - caramel and a hint of floral hops. The taste did not disappoint us either - very malty with some toffee and towards the end of the sip all you can taste is mild hops. This was a delicious, fresh and well-balanced ale, we both were quite happy to find a beer of this quality, especially because of the 12 hour driving day we had ahead of us the next day. We highly recommend this beer if you are in Alberta!

Next time Rebecca will report on Oktoberfest from the Concordia Club in Kitchener. We hope you all stay thirsty and (as always) fear no beer!



Point Vs. Counterpoint

In 1984, the students of Waterloo passed a referendum to construct a \$1.5 million night club, which would be operated by the Federation of Students that we all know today as Federation Hall. Students agreed to fund the construction over a 20-year period in order to make the idea a reality.

The Federation of Students and University of Waterloo agreed on a leasing arrangement that would permit FedS to operate the facility on university property for a 20 year period, and occupancy beyond that timeframe would occur through mutual agreement of the two parties. A clause that would prevent the university from unreasonably withholding renewal of the lease was added; however it clearly stated that neither students nor Federation would ever “own” Fed Hall. As well, the university had the ability to terminate the agreement at any time should a major breach occur by FedS.

During this period, the venue operated exclusively as a nightclub, offering students a nightlife choice in a Waterloo that was lacking any real clubs or bars for students to patronize. Once the city began to mature, and students interests changed, the decision was made to take bookings from the off-campus community, including RIM, local high schools and weddings, in order to help the venue stay financially viable. The key principle behind off-campus bookings however was that student groups would always be given priority in bookings over the off-campus community.

In 1997, a subsequent referendum was held that proposed an extra \$5 per term fee be applied for the remaining 7 years of the agreement, to allow Fed Hall to be renovated

in order to help move it from a nightclub atmosphere to more of a multi-purpose social space. This passed with 90% approval.

In 2004, when the original 20 year period expired, the university and FedS agreed to renewal for five additional years, keeping all the provisions of the original lease. It was also during this time that the FedS Student Council approved a Fed Hall subsidy to pay the rental and staffing costs for student events, so that the space could be used for next-to-nothing by student groups. In 2009-2010, 45% of events were related to the university, either student groups or University events; 25% by RIM or local high schools, and the remainder by private events, such as weddings.

In 2010, the lease was renegotiated for a two-year period, however a clause was added that the Board of Governors could terminate the lease without a major breach, as long as 60 days notice was given.

In April 2011, the university served notice that the Fed Hall lease would not be renewed by the university meaning the Federation would lose control over the facility. Student opposition from this decision led to the university agreeing to enter negotiations with the Federation in order to find adequate compensation for students who had invested over \$2.2million. Since the summer, negotiations between the two sides has been underway, however due to HR implications, none of the possible outcomes have been made public yet.

With files from feds.ca.

POINT
ANGELO ALAIMO
4N ELECTRICAL

Should We Care About Saving FED Hall?

COUNTERPOINT
HOBYUNG LEE
3B MANAGEMENT

As I approach the end of my academic career at this university (I hope), it seems to me a controversy presents tension between school administration and the undergraduate student body every year. While I didn't notice this during my earlier terms (I'm old) due to apathy or simply a lack of controversies, it seems the frequency of such adverse events are increasing. It usually begins like this: Some University administration/body/group/etc. wants to make a major change directly impacting undergraduate students. First it was Logogate, then it was Frosh Week's truncation attempt, and now it appears we've reached somewhat of a peak with the University wanting to assume full control of a building fully paid for by Undergraduate students.

We complained enough to stop that infamous “lasered” W from becoming commonplace, we passionately picketed to prevent a severely shortened frosh week, but is Fed Hall worth another fight? Is it worth it for students to fight the realistically unstoppable power of university administration from assuming control over the building? Will enough of the overwhelmingly apathetic student population care enough to show administration enough of us care? Yes, yes, and I would hope so.

The choice on what and how to fight is really ours, and in the face of losing control of more student space, perhaps the administration and us should really pay attention to how the whole story will unfold.

Over the history of the university, several buildings students use to this day were funded with extras fees added to the tuition bill. If my memory serves me correctly – SLC (Formerly Campus Centre), SLC Renovation, CIF, TC, and also the soon-to-be constructed health services expansion have had student funding through such a fee (Paying back the cost of constructing health services will begin after construction is complete). The trend is not likely to end there either. The proposed student services building which failed at referendum two years ago will be funded (if passed) with a fixed student fee as well.

This is why it's worth it to save Fed Hall. The university continues to ask for student handouts to build buildings while encroaching on our image, traditions, and way of student life. Will students continue to trust the administration to respect student-funded space if they continue with not renewing FedS' lease on Fed Hall? I suppose the question could ask if students even trust administration now, but the Fed Hall fiasco will continue to erode what little trust exists.

So what happens for future students then? Enrollment continues to increase, tuition continues to increase and class sizes continue to increase. Students will once again be asked during a referendum to fund another student services building on campus. The fee for this building will be added to students' tuition bills for decades. Although the building is badly needed, students will see it as another way for the university to try to grab more money from students. Will students accept the referendum? I likely won't be around to see the results (I hope), but if students remember the stunt admin are pulling with Fed Hall, the likely chance is no. The fight between students and administration will continue preventing needed progress that would improve student life.

I'll always wonder if Fed Hall is worth it for the administration to lose the trust of their students. It's something I'll wonder for a while. What will happen once I walk across that stage for 15 seconds to shake a hand, gain a sash, and receive my piece of paper? I know what will happen. I'll begin my full time job (I hope) and then the phone calls will start. The phone calls asking to donate to the university will begin and from what I've heard from my alumni friends, they can be quite frequent. I'm not saying I'm never going to donate to the University. I recognize the amazing opportunities the university provides for its students, but I will also remember some of the issues I and my peers have faced with the university as well.

I'll be more wary of where I decide to place my money. I'll be more inclined to donate to endowment funds, teams, or foundations which directly impact undergraduate students and not directly pad university coffers.

In all, Fed Hall is worth the fight. It's worth it for us, undergraduate students to not back down and have our voices heard. Even though it's unlikely the administration will budge on the issue, we stand to lose a lot more than just Fed Hall if we all simply give up, and that's why it is worth it to save Fed Hall.

Federation Hall was created in 1984 to meet the need of having a night club on campus, and it apparently used to be popular.

Over the last couple months, Fed Hall has been a trendy topic once again amongst UW students, but for another set of reasons.

Fed Hall is currently a space that is managed and overseen by FedS and has been since the Hall's inception. Since then, FedS has used the hall to host events for the students, such as during Frosh Week, and rented out the hall to various other groups.

This past April the university, which owns Fed Hall and every other building on campus, decided that they wanted to oversee the operations of the hall themselves.

To some, this has been seen as a move not dissimilar to that of an evil corporate takeover, one that will ruin the essence and history of the hall as a space for students, where the university will place a huge metaphorical velvet rope around the building forcing us, the students, to watch from the outside while university big wigs take our space and use it for, I don't know, administrating stuff.

Right. It's just going to be all doom and gloom.

The change in overseeing of the Fed Hall has been received with a harsh backlash from the students over the perceived notion that a change in management, from FedS to the university, will automatically mean that UW students will no longer be available for use by the students.

But this isn't the case.

The University has stated that they will maintain all student events that are going on in the hall and that it will be run by Food Services.

There have been many points raised that Fed Hall was paid for by students, and should therefore be run by students for the students, and that keeping it so will ensure that the hall is used primarily for students.

But again, under FedS, this was not the case.

Between September 2009 to August 2010, there were a total of 125 events that took place at Fed Hall. Of the 125,

less than half of these events were actually used by UW students groups. The rest of these events were made up by private weddings, corporate events such as those held by RIM, and big, monumentally life-altering festivities that actually aren't, like high school prom.

It seems like FedS had been doing a splendid job of making sure that the Hall was used primarily by university students. The changing of management will do nothing to what is already a place geared toward off-campus groups.

Beside the fact that it has been shown statistically that the hall is not really being utilized by students anymore, losing Fed Hall could now be used as leverage for the students to put more money toward a new student services building, which will actually be used not as a wedding reception hall and high school prom destination, but by university students.

And finally, while the changing of guard from FedS to the university can be seen as a slap in the face to the previous generations of students who supported and paid for the hall, is its current usage and situation any better? Is having the hall rented out to corporate suits and private events really what the previous students envisioned their nightclub to be?

Furthermore, through my eyes and experience, Fed Hall has become nothing but a vacant building used only for a couple events during Frosh Week. It could well be that since I'm not currently involved with every student group on campus, I never step foot inside the building. But over the course of my undergrad career, Fed Hall has, and will most likely always will be, the building I went to for that magic show on a Thursday during my own orientation week. And after talking around, it seems that this perception isn't specific to me.

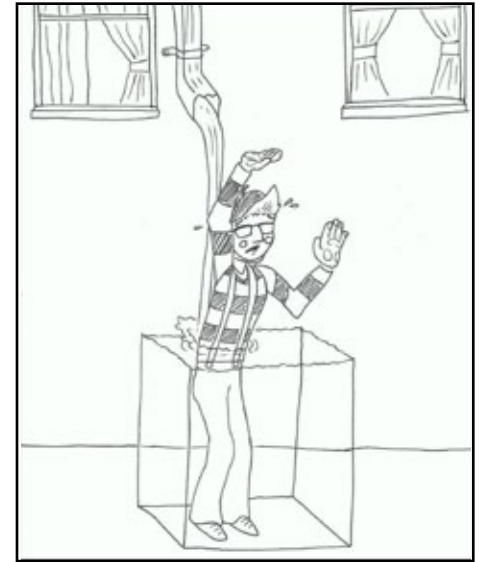
So however it is that the university will utilize the hall, maybe it is time for new management. Because as it stands now and for the past couple of years, Fed Hall has been as as much a student space as the CnD has been an upscale and swank place to buy some fine Columbian coffee.



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.

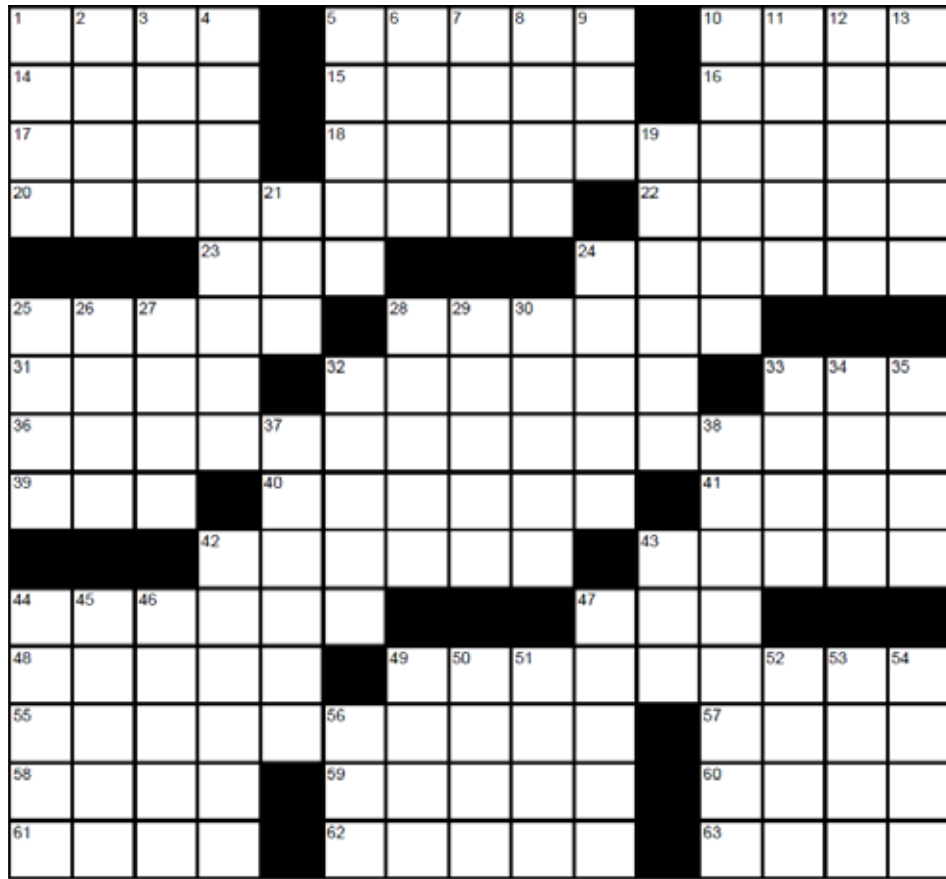


Everyone Is Craig



LOOKS LIKE SOMEONE FORGOT TO MIME A DRAIN

Crossword



- Across**
- 1. Analogous
 - 5. Got some shuteye
 - 10. Taiwanese computer company
 - 14. Ringtone format
 - 15. Aussie "bear"
 - 16. Mrs. Dithers in Blondie
 - 17. Liquefy
 - 18. Energy retention process
 - 20. Miss your alarm
 - 22. Indian language
 - 23. Antiquated
 - 24. Has a hunch
 - 25. Mournful poem
 - 28. Flipping through a book

- 31. Prehistoric discovery
- 32. With confidence
- 33. Electroluminescent bulb
- 36. High velocity explosive
- 39. Design competition team: Formula ____
- 40. Greek philosophical reasoning
- 41. Sign gas
- 42. Public thoroughfare
- 43. ECE has a shortage of them
- 44. High regard
- 47. DOS file system
- 48. Discover
- 49. Sparkle vividly
- 55. Took off a blouse
- 57. 1992 Barenaked Ladies single
- 58. Early first-person shooter
- 59. Grasped closely
- 60. Yearn
- 61. Greek cupid
- 62. Step after cut
- 63. Overdue

- DOWN**
- 1. Rounds
 - 2. Ukrainian capital
 - 3. Like some threats
 - 4. Abundant atmospheric gas
 - 5. Scandinavian poet
 - 6. Earring site
 - 7. Alleviate
 - 8. Raindrop sound
 - 9. Pit contents
 - 10. Temporary
 - 11. Nickels and dimes
 - 12. Wear away
 - 13. Indian queens
 - 19. Aromatic functional group
 - 21. Cunning
 - 24. Grain storage units
 - 25. Baby newts
 - 26. Turkish currency
 - 27. Smallest Great Lake
 - 28. Blender setting
 - 29. Emerged
 - 30. Understand (2 words)
 - 32. Female mutant
 - 33. Malicious glance
 - 34. Alcoholic alkene
 - 35. Rec rooms
 - 37. Purpose
 - 38. Building block of crystal structures (2 words)
 - 42. Vaccines
 - 43. High energy phase
 - 44. Dodge
 - 45. Mister in Madrid
 - 46. Forbidden
 - 47. Sweet snack
 - 49. RC, e.g.
 - 50. Duty
 - 51. Landlord's due
 - 52. Small forest buffalo
 - 53. Hue
 - 54. New mobile communication network
 - 56. Networking protocol

THE IRON INQUISITION
Kevin Veloso, 4N Software

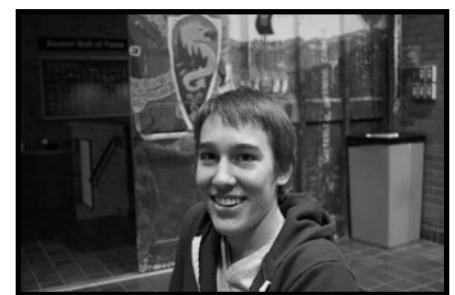
"If you could dye Andrew Fisher's hair, what colour would it be?"



"Blellow - Blue/Yellow"
Kevin Veloso, 4N Software



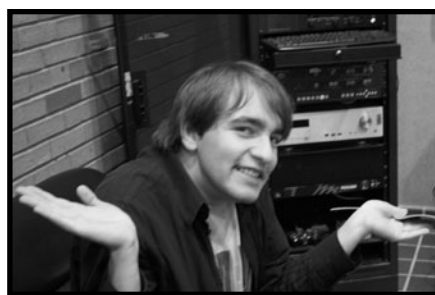
"Purple, Again"
Kevin Liang, 2B Chemical



"Entirely grey, to make him look old"
Mitchell Jameson, 2B Computer



"He would look good in green"
Caitlyn Howe, 2B Environmental



"I don't know who that is, so..."
Peter Samsonov, 2B Computer



"I would dye it...Rainbow"
Tom Sun, 2B Systems Design