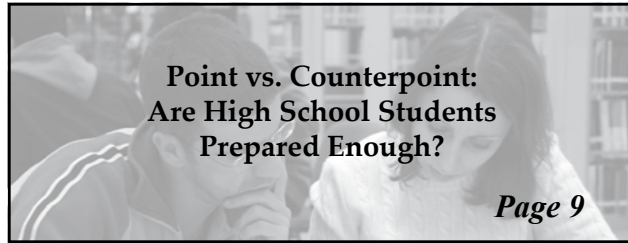
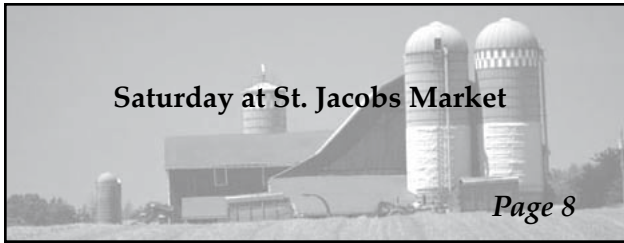


Note: This document is hosted here for archival purposes only. It does not necessarily represent the values of the Iron Warrior or Waterloo Engineering Society in the present day.



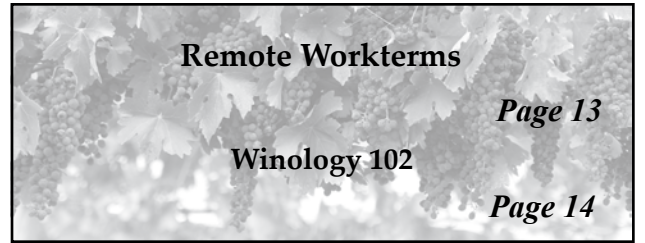
**Point vs. Counterpoint:
Are High School Students
Prepared Enough?**

Page 9



Saturday at St. Jacobs Market

Page 8



Remote Workterms

Page 13

Winology 102

Page 14

<http://iwarrrior.uwaterloo.ca>

VeloCity: University in the Fast Lane

An Interview with the Director and a Former Resident

MICHELLE CROAL
3A CHEMICAL

An interview with Sean Van Koughnett, Director of Velocity; Ashok Raju, a VeloCity resident Winter 2009 and Electrical Engineering student, and Tian Man, Impact Entrepreneurship Group.

Before we started, Sean showed us around the residence, starting with the Conference Room, which with its sleek lines and lighting, is probably the nicest conference room on campus. Downstairs in the Great Hall, VeloCity residents can relax in an ultra modern setting, play games on the huge flatscreen TV, and still have space for a skipping rope. Upstairs overlooking the Great Hall is the Rogers Wireless Device Lab, where students have access to smartphones to test their projects and apps, among other toys.

Iron Warrior: I think many students are under the impression that you're just over here being "innovative", whatever that means. Can you elaborate?

Sean Van Koughnett: I think "innovation" means different things to different people. Here at VeloCity, it's a focus on entrepreneurial spirit, and providing the support, network, resources and community for students to collaborate, design and become entrepreneurs.

IW: Applications for Winter 2010 are



Michelle Croal

Ashok Raju, a former VeloCity resident, writes on the glass "whiteboard"

now open; what does this involve and what should students expect? (The deadline is June 7!)

SVK: Students are asked four questions in their online applications: "What have you done that's entrepreneurial? Creative?" "What's your experience working in teams?" and "What's your experience working with mobile media?" We look at more than just marks, but obviously a good academic standing is helpful. What we're doing here is not academic, not for course credit - it's extracurricular, it's entrepreneurial. The online application also in-

cludes a resume, to get a feel for what kind of workterms they've had. After online applications are completed, we have a brief 20-30 minute interview. It's very different from a job interview - we just want to get better idea of their motivation for wanting to be here, and that's easier through face to face conversation. Offers are sent out pretty quickly afterwards.

IW: Ok, maybe you can talk to me about a typical student day. What's the time commitment involved in living here?

Ashok Raju: It depends a lot of what type of project you're working on. For me,

I knew the people I wanted to work with before I came here, so we came up with an idea in the first few days. We'd have weekly team meetings to continually think of more ideas, and then eventually we came up with a plan on how to actually build this product. As well as our meetings, we'd get together on a weekend sometimes for a few hours and just work together to figure out things out. On top of that, there are a lot of other events that happen at VeloCity, things like speaker sessions and conferences. Last term, some developers from Google came, and hosted a work session. They actually worked with us to code a product for the Google Android device, which was really interactive and useful if you wanted to design something for the Google Android, as in our case. There are a lot of events that provide resources as well; Sean introduced me to a venture capitalist, who provided a lot of advice regarding our project. We had meetings with him throughout the term. Finally, towards the end of term, I had an interview with CTV, where I had some exposure on TV for my project.

IW: So it's definitely a fairly significant time commitment.

See MOBILE AND MEDIA INCUBATOR on Page 3

Waterloo Readies for Rapid Transit

Region Presents its LRT Proposal to the Public

MATT CASSWELL
2B CIVIL

The Region of Waterloo held its Rapid Transit Public Consultation Centre in Uptown Waterloo last Thursday to give residents of the region an in-depth view of the proposed Waterloo Region rapid transit system, what routes it may run on, and how it will affect them.

The Region recently completed its Multiple Account Evaluation to explore the different ways of introducing rapid transit in the Waterloo Region, and the economic, social, and environmental benefits of the different alternatives. Some of the original alternatives included commuter rail, Bus Rapid Transit (BRT) (which would be similar to the Transitway system in Ottawa), monorail, aerobus, and subway. The results of the study concluded that a Light Rail Transit (LRT) system that was built in stages between Conestoga Mall and the Ainslie St. Terminal in Cambridge would be the best option, promoting sustainable development and managing the region's future growth.

An LRT system is a train-like system, with a capacity between that of a BRT system and a subway, which typically runs on its own right-of-way, usually down the middle

of the street or along the edges. Trains are electrically powered via overhead catenary lines, and are usually 2-3 cars in length. LRT systems are extensively used in Europe (where they are known as S-Bahns in Germany), and are gaining popularity in North and South America, particularly in Brazil and the Western United States.

The proposed system would be constructed in two stages. The first stage, from Conestoga Mall to Fairview Park Mall in Kitchener, would be constructed as an LRT system. The route would start at Conestoga Mall and either follow along the regionally-owned rail line (adjacent to the University) through the RT Park towards Uptown Waterloo, or along King St. to University Ave, before following the rail line through Waterloo Park to Uptown Wa-

terloo. The line would then split into a one-way system going north along King St. and south along Charles St, and rejoining at Frederick and Benton Streets. Following King St. until Kitchener, the route would then head along Charles Street, Ottawa Street, the CN corridor, Hayward Avenue, Courtlund Blvd, then along Fairway Road to Fairview Park Mall.



Grand River Transit

A visualization of the LRT integration at Grand River Hospital

The second stage would be initially constructed as an Adapted Bus Rapid Transit (aBRT) system, with the ability to be upgraded to full LRT once ridership builds. The route would follow Highway 8 towards the 401, using regular traffic lanes and bus by-pass shoulder lanes (similar to what is on Hwy 403 in Mississauga), before continuing down Hespeler Road into downtown Cambridge, similar to the cur-

rent iXpress route. Hespeler Rd would feature HOV lanes, queue-jumping for busses, and bus signal priority systems at intersections to avoid traffic.

Initial system construction of the LRT and aBRT systems will cost approximately \$790 million, which includes construction cost, property acquisition, vehicle maintenance facilities, and construction of park-and-ride facilities for commuters. Construction is scheduled to start in 2012, with completion in 2014. Operating costs in 2014 are expected to be \$10.5 million per year, but dropping to \$3.8 million by 2031.

All LRT stations will have shelters, automated ticketing, passenger information systems, and bicycle and pedestrian amenities. Some stations will also feature connections to other intercity transit options, such as GO Transit, and park-and-ride facilities.

Once the LRT has been completed, it is expected that the GRT will start to develop more express bus routes, similar to the iXpress, on expected high-traffic corridors.

See EXPRESS ROUTES on Page 3

Letter from the Editor



**MICHELLE
CROAL**
EDITOR-IN-CHIEF

Wow, where did May go? It certainly vanished into an abyss of EIC learning curves at the very least! I'm so sorry about Issue 1 being late- long weekends and delayed deliveries are like the Murphy's wrench in the engine of a newspaper. It's been exciting though; meeting lots of new people, being journalist-y. I've noticed that between my "School To Do" pile and my "IW To Do" pile, my list of personal life items are quickly being left in the dust. For example, I still haven't called my cell phone provider to remove that expanded network fee I needed for my workterm in the miniscule village of Cardinal, Ontario. Would someone from Customer Service please read this and reduce my bill? Seriously, I'm considering adding the position of "Secretary" to IW staff – you can take meeting minutes and send them out, remind contacts about advertisements, do my groceries... You get the point, but this brings me to my topic for this issue: Volunteerism!

A lot of people seem to think that the EIC of *The Iron Warrior* is a paid position, like Imprint's, but that is far from reality. (I've also heard we have an "optimize button" that automatically places content and maximizes layout, but I've yet to find it.) Far from getting paid, the staff and editors of this paper devote significant amounts of personal time to producing the IW, without which it wouldn't happen. Why? Really? To be honest, it's more than the warm fuzzy newsprint feeling of a creative outlet and producing something meaningful at the end of it. Journalism is exciting, and so much easier than Transport Analysis!

But I wanted to talk about volunteering, not just IW. On my workterm I took the initiative to volunteer with the Girl Guides of Canada at the local unit. Girl Guides, similar to Scouts for boys, provides non-formal education for girls aged 5-18, where girls learn life skills such as leadership and teamwork (and yes, they sell cookies too). As a Junior Guider, my role was more helping out and interacting with the children than planning and scheduling. It was an interesting experience – the "Guiding Overlords" have everything legality-ized to within an inch of operating the whole program under the Canadian Supreme Court, but I think the kids have fun besides that. It gave me a chance to meet some people in my community – kids, parents and leaders- that I wouldn't have met staying at home. I haven't worked with children that young for a long time, if ever (Frosh don't count), so it was great experience... In doing the science badge with the 9-year-olds, I think I was way over my head – these kids don't even know about elements, never mind

bioinformatics! Kudos to my father for his ability to explain atomic theory to a 6 year old. But the main thing about the experience was the time I spent with the kids, and helping the other leaders out. It was, and is, a cause I feel strongly about: exposing children, specifically girls, to life skills and a range of interest topics from science to art, and from cooking to project management (The older girls are often responsible for planning their own camping trips). I hope to continue with this form of volunteering on my co-ops in the future.

The point is, I encourage you to volunteer your time for a cause you deem worthy. It can be anything: EngSoc, student design teams, advocating for a political cause or donating blood. Do something more with your time than study or play Bubble Spinner! I realize that many people at UW are indeed very involved and passionate about their extracurriculars, but it seems that many are not. Many of our events, services and charities are operated on a volunteer basis, and without that, many aspects of our university life and community would be drastically different. Donating a few hours a week to something important can only add to your life; you can gain skills, meet peo-



Jason Jayakody

There was also pie this weekend. Mmm pie...

ple and network as well as gain life experiences. I'm talking about more than just things to add to your resume here – do something that's worth your time that you can be proud of at the end!

That's about enough lecturing for now... In this issue we have some interesting opinion pieces on whether high school students are prepared enough for university and some differing views on the effectiveness of environmental policies and regulations. We've got submissions from all our regular columnists, including Winology 102, the sequel to Mixology 101, and "Review Based on the Trailer" which are new to this issue.

There have been a couple other things happening lately. I'm hoping to compile an article or feature for the next issue with people's best job searching tips, but I've only received one so far! I think that it's important for us to share our experiences and make the best of the situation, in these "harsh economic times". Please send me your thoughts on this; it doesn't have to be much, just a sentence or two on what has worked best for you over the years.

At EngSoc Council Meeting #2, the Acting Dean Rothenburg paid a visit and discussed a few topics, namely the external PD-Eng review, the Dubai campus and concerns about Frosh week. With

regards to the PD-Eng review, they're basically going to lock the consultants in a room in July (with food, don't worry), and not let them leave Waterloo until they've finished writing a report. Hopefully this means we'll finally see some results! For the Dubai campus, the Dean just discussed a few of the challenges with cultural and operating differences, recruitment and late applications, and the advanced labs and equipment of the associate host campus. Number-wise, the UAE campus has 32 applications, 19 offers and 10 confirmed students entering Chemical and Civil Engineering. Unfortunately, for feasibility reasons, a final decision will have to be made in the upcoming months as whether to actually proceed with classes come September. The Dean also talked about the changes that will be made to Frosh Week in the next few years, trying to reassure those present that he agrees this process is the most painful for the Engineering Faculty, especially since we were the founding school of this university. The Dean's visit was less of an open forum for discussion, but more of a recognition of the current issues that are on the minds of engineering students, which is still a step towards improving student-faculty relationships.

Students behaved respectfully during his talk, but it's probably a good thing the Dean didn't stay for the whole (generally very rowdy) EngSoc meeting.

ALSO! Wow I can't believe I almost forgot this! We have a shiny NEW FRIDGE and MICROWAVE! And when I say shiny, I do mean stainless

steel, non-student ghetto shiny. They arrived the Thursday before production weekend, to my pita saving gratitude! Thank you so much Kevin for submitting that proposal to SLEF! It's pretty exciting, except that now IW staff really have very little reason to leave the office. Ever. And speaking of not leaving the office, it's been an interesting production weekend in terms of the people I've met late at night. If you're still at work at almost 11pm on a Friday evening, you're either very passionate about what you do, or you're cleaning something. In addition to the usual stoppers-by, I had a visit from a PhD student in Civil Engineering asking to use my stapler, and a really nice Eastern European PlantOps guy who vacuumed the IW office for me! I was advised to seriously consider graduate studies, and learned about the potential effect of river temperatures on polar ice caps. I've come to realize it takes a special type of person to run a student newspaper, a certain eccentricity. Whether that's a prerequisite or a result of staying in a cave all weekend think-scrolling in rows and columns, I have yet to determine...

Ok seriously this is enough talking. IW will be taking a break for midterms, but Issue 3 will hit stands June 24! Happy studying!

THE IRON WARRIOR

The Newspaper of the University of Waterloo Engineering Society

Editor-in-Chief
Michelle Croal

Assistant Editors
Stuart Pearson
Vacant

Layout Editors
Amrita Yasin
Yousif Al-Khder

Copy Editor
Mikayla Micomonaco

Photo Editors
Vacant

Advertising Manager
Joonha Shin

Circulation Manager
Dalia Al-Ali

Web Editor
Vacant

Staff Writers
Alex Giroux
Amanda LeDuc
Amrita Yasin
Andrew Wong
Cailin Hillier
Chad Sexington
Dalia Al-Ali
Dan Armstrong
Jon Martin
Jon Radice
Joonha Shin
Kevin Ling
Kevin Liu
Leah Siczkar
Matt Casswell
Mike Seliske
Milena Beloia-Cheres
Neil Partridge
Stuart Pearson
Yousif Al-Khder

Contributors
Adam Capoferri
Chris Togeretz
David Liu
Eric Cousineau
Jay Shah
Mike McCauley
Paul Nogas
Peter Roe
Sarah Scharf
Tim Bandura

Off-Stream Editor-in-Chief
Trevor Jenkins

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

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

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

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

Issue #3 Deadline:
Friday, June 19, at 6:00pm
for publication on Wednesday, June 24, 2009
Send your submissions to iwarrior@engmail.uwaterloo.ca
Spring '09 Publication Schedule:
June 24, July 8, July 22

LRT to Create New Jobs and Reduce Emissions

EXPRESS ROUTES
from Page 1

Some of the corridors that have been outlined by the Region include paths along Keats Way/Fischer-Hallman Road in Waterloo and along Columbia St. from Fischer-Hallman to Bridge St. in Waterloo.

As the region's population is expected to grow by 250,000 people in the next 25 years, the LRT system will provide alternative modes of transportation for travellers, and will also raise property values by over \$370 million region-wide. The system will also be able to reduce greenhouse gas emissions in the region by up to 22,260 tonnes per year, create 23,000 new jobs, and create \$523 million in transportation user benefits.

It is expected that 70% of the system's ridership will be in the Kitchener-Waterloo area, with the remaining 30% in Cambridge. The region attributes these num-

bers to 74% of potential intensification development occurring between Conestoga Mall and Fairview Park Mall by 2031. The region says that this will further improve regional residents' quality of life by protecting farmland and creating living, shopping, and working facilities within walking distance of each other.

The Next Step:

The Multiple Account Evaluation is the final step in the Rapid Transit Environmental Assessment. Final design considerations and routing in Waterloo between the University of Waterloo and Conestoga Mall have to be



Amrita Yasin
GRT's iXpress system leaves from DC

decided, with both options showing great merits and considerations. While the route along the rail line through the RT Park will provide easy access to campus for those living north of campus, and provide access to the RT Park, it would have to hop over the Conestoga Parkway via Northfield Dr, and weave into Conestoga Mall.

Similarly, the routing along University Avenue and King Street would provide access to WLU and promote intensification along King Street. The UW stop would be south of University Avenue (beside UW Place), which would likely mean students would likely jay-

walk across University Avenue.

Additionally, due to space constrictions, University Avenue would be narrowed to only one lane per direction for vehicular traffic between Albert and Philip Streets, left turn lanes would be eliminated, and driveway access would be substantially reduced.

The Region has employed an expert panel overseeing the project, which overwhelmingly supports the LRT proposal. The panel consists of Dr. Jeffrey Casello, Assistant Professor from Civil Engineering and the School of Planning at Waterloo, George Dark and Melanie Hare of Urban Strategies Inc., Eric Miller of UofT, Glenn Miller of the Canadian Urban Institute, and Glen Murray, former mayor of Winnipeg, Manitoba.

For more information, the Region will be holding more Public Consultation meetings, or visit <http://rapidtransit.region.waterloo.on.ca>.

VeloCity: From Concept to Reality

MOBILE AND MEDIA INCUBATOR
from Page 1

AR: You put in how much you want to get out of it. If you find you can't put in as much time, that's totally your decision. There's nothing mandatory about it, it's completely optional. Those that do put in more time, seem to get a lot more out of it. **SVK:** Right. Even sometimes we get students who intended to do more, but their workloads or personal circumstances prevented it. For those cases we just have to live with it, there's no choice. But for those students who are able manage their time really well, and really love what they do, they'll forgo everything for their project – even sleep! It's really about getting the most out of what we have to offer, because the time aspect is certainly a challenge. At the very least they gain connections to students from other faculties and the local community. You might not have a product ready to launch in the market by the end of it, but that's not necessarily the prime objective.

IW: VeloCity kicked off in September; what changes have been made since the initial plans, and what do you expect for the future?

SVK: We're still trying to fine tune the types of speakers we bring in and how many. We don't want to stress students with too many events. We just hired two staff: one will be based in the residence, and that job will be to work directly with the students, providing mentorship, planning events. I have another person who will be working on corporate relationship development, marketing and recruiting as well. Also thanks to one of our donors, we've established the first ever residence scholarship at UW. Hopefully now every term we'll be able to give one or two students

\$1000 off their residence fees for VeloCity. We've begun to establish the value of this place with the external community, and as we do that we'll be able to attract the kind of sponsorships that benefit the students.

IW: How much does residence cost?

AR: \$2600 a term.

IW: How long did the renovations take to complete? (Minota Hagey is a 40 year old building!)

SVK: Four and a half months. We were supposed to be done at the beginning of September 2008, but like every renovation project in history it was delayed. First couple of weeks we had students living in a bit of a construction zone. From the time I came up with the idea [for VeloCity] about two years ago, it's been 14 months from conception to launch – and that's light speed. Everything came together very quickly; we had great feedback from everyone: the president to the deans and different students groups, especially with the development of the concept. We also worked extensively with Kunal Gupta, the founder of Impact. Getting student input and bind from up top was critical in making this happen so fast.

IW: 14 months is pretty fast, I agree! Speaking of the whole start-up process, why did you decide to call this "VeloCity"?

SVK: We were just throwing a few different ideas around. We didn't want it to be "The Centre for" or "The Institute of", which is typical for this type of program. The word "velocity" just seemed appropriate for the type of work the students are doing and the pace they live at. The industry and technology change so fast; velocity implies speed and direction. Also, the word "city" in VeloCity means a sense of place, a residence where you live, a community, so we wanted it to reflect that.

IW: At the end of the term, students are responsible for presenting their projects. How does that work, and is it open to the campus and community?

SVK: It's very similar to the fourth year design projects. Last term it was at SLC, and before that at DC. We send special invites to our corporate partners, but anyone can attend. Each team gives about a three minute spiel on their project, and last term we had a judge's panel as well. Last term

there were four prizes: \$2000 and \$1000, a patent award and the last a full day business consultation. So out of 15 teams competing, that's a pretty decent chance of coming away with something.

IW: Alright Ashok, let's talk about your process from beginning to now.

AR: I heard about VeloCity through Impact, since I'm a representative and VeloCity came to us for marketing support. I knew a lot about VeloCity from the beginning, as I was on the marketing team and was pitching it to a huge reach of students. At the end of my co-op I realized I really wanted to do VeloCity, so I got a few of my friends talking. Before we moved in actually we started thinking about cool ideas, and once here we met on a regular basis to finally come up with our product – a translation application. We felt that translation programs or applications on mobile de-

vices were very limited. Most smartphones have cameras right? What our product does is you can take a picture of the text, then have it translate it into the language you want. This would be really helpful if you're travelling in a foreign country or an international student coming to Canada. It was pretty technically challenging as well.

One good thing about VeloCity was that since we were living together, it was really easy to schedule time, and all the meeting space that is available to us. During the time that we were working on this, we split up different tasks, and met with many other people to make some of our own connections.

See LIFE EXPERIENCE
on page 9



Michelle Croal

The ultra-chic interior of VeloCity Great Hall

Free Grad Photo Retakes for all Engineering Graduates!

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

LifeTouch Photography
Room 104 Student Life Centre - University Of Waterloo
Prestige PORTRAITISTS BY APPOINTMENT

Engineers Design The World Terabytes per Square Inch



ANDREW WONG
2B CHEMICAL

As university students in today's generation, it should come as no surprise that technology influences every aspect of our lives. From waking up in the morning, going to school, and even more present when we go home, I can't think of how my day would function if I didn't have something like my laptop, cell phone or iPod. Come to think of it, I don't think I could properly write this article without my laptop and music playing in the background either. Every bit of technology keeps pushing for the idea of "bigger" and "better" even though the capacity of technology today could probably store many lifetimes worth of memories and data. Why do we want more? It's simple. Innovation is not a process; rather it's a lifestyle driving change in today's cultural fabric.

Someone once told me, the problem with today's generation of thinkers isn't that we don't have enough information to solve a problem, but it's that we have so much that we don't even know where and when to use it. I don't quite agree. Technology derives its necessity from basic needs. With so many things happening in the world today, harnessing and organizing what we know and what we don't determines progress. Digital memory

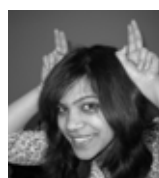
isn't the most newsworthy technological advancement, but I believe it deserves its dues. Laptops, cell phones and iPods, whose importance I mentioned earlier, all rely on digital storage capacity.

Today's standard memory devices have about 10 to 100 gigabits of memory per square inch of a standard memory card. This poses a life expectancy of such products around 10-30 years. New developments are reporting that scientists at the Center of Integrated Nanomechanical Systems (University of California) have been able to engineer new computer based memory devices that can store thousands of times more data with a life expectancy of approximately 1 billion years.

Such technology hinges on a high density experimental storage media that can retain highly-dense data for a fraction of a second. This experimental device is to be composed of an iron nanoparticle that is about 1/50,000 the width of a human hair. With an electrical current sent through it, the nanoparticle can be sent back and forth in the device to create a programmable memory system. With a potential capacity of 1 terabyte per square inch, think of how much you could store on that laptop, cell phone or iPod.

On my iPod alone, I have the options of storing 8,500 songs, 300 videos, 60,000 pictures, 200,000 documents. Although this is more space than I've ever needed, if someone approached me and offered me infinitely more, how could I refuse?

Coca Cola Introduces the PlantBottle



AMRITA YASIN
3A CHEMICAL

75% of plastic bottles in US are thrown away in landfills each year; in 2004, 3633 million pounds of plastic bottles was not recycled and thus subjected to waste.

Endeavours to reduce plastic waste by bottling companies have included producing lighter weight bottles which use less material or by designing plastic to be recyclable by the existing recycling infrastructure. Coca Cola, the world's largest beverage producing company, has taken a step ahead by using natural resources as packaging material.

The Coca-Cola company announced production of a new plastic bottle partially composed of plant based material in May 2009. This new bottle has been termed PlantBottle™.

The traditional material used for manufacturing bottles is Polyethylene terephthalate (PET), a petroleum based non-renewable source. PlantBottle™ is composed of 30% plant material; sugar cane and molasses are converted into a key component of PET.

"The PlantBottle represents the next step in evolving our system toward the bottle of the future," said Scott Vitters, Coke's director of sustainable packaging. "This innovation is a real win because it moves us closer to our vision of zero waste with

a material that lessens our carbon footprint and is also recyclable." The new material has lower reliance on non-renewable resources and is deemed to be 100% recyclable. A life cycle analysis by Imperial College, London indicates that this particular material reduces carbon emissions by 25% as compared to the traditional PET plastic bottles.

Most of the other plant-based plastics contaminate recycled PET upon mixing, making it unusable. PlantBottle™ can be processed by existing manufacturing and recycling facilities without contaminating PET, enabling its recycling and reuse multiple times.

Coca Cola will be introducing the new bottle in selected markets in North America with Dasani water line and some water sparkling brands 2009 and with Vitamin-water in 2010.

This project is a head start for an even broader goal of recycling/reusing 100% PET in U.S. In cooperation with URRC (United Resources Recovery Corporation), U.S., Coca Cola opened the world's largest bottle-to-bottle recycling plant in Spartanburg, South Carolina in January 2009. The plant, when fully operational, is expected to produce 100 million pounds of recycled PET each year for reuse; this is equivalent to producing 2 billion 20-oz bottles.

The company is also considering other materials and more efficient ways of recycling bottles to achieve its goal of eventually produce bottles that are 100% recyclable and renewable.

What Engineering Competition (WEC)?

**CHRIS TOGERETZ
AND KEVIN LIU**

WATERLOO ENGINEERING COMPETITION

Way back in the May 2006 issue of *The Iron Warrior*, Greg FitzGerald (VP External) said:

"There are plans in the works to organize a Waterloo Engineering Competition similar to the Ontario and Canadian competitions, but, well, local to the University of Waterloo."

That's a very good introduction to what's going on. And now, three years later, we're finally there!

Who made the Waterloo Engineering Competition happen?

The UW Engineering Society (EngSoc) and the Sandford Fleming Foundation (SFF) are working together in a joint effort

to hold a prominent engineering competition as a way to select teams to represent the University of Waterloo at the Ontario Engineering Competition (OEC). These two organizations contribute 100% of the funding for the WEC, as well as fully participating in the planning and organization.

Kevin Liu, who has served as EngSoc Director of Competitions for three consecutive terms, started the job in September 2008 because he wanted to see more school spirit at the OEC.

"I made all the Waterloo competitors sit together, and I told them 'When you hear our school name in the award ceremony, you stand up and you cheer as loud as you can!'"

Waterloo was one of the loudest schools at OEC 2009, and was able to win four

third-places awards.

Now we're on a new quest: we don't want to settle for third-place finishes, and with UW being the host of OEC 2010, we want to prepare our competitors to win at the OEC!

We're going to do it right. We've formed a committee, we've created a website, we've talked to past competitors and identified our weaknesses. The design competitions this year will feature a hands-on component, allowing competitors to actually build and test their designs. It will be a lot of fun!

"I created the Junior Team Design problem, and I can't wait to see what creative solutions teams will think up," said Director Caleb Bailey, who is excited to have joined the WEC organizing committee.

In the near future, the WEC hopes to

invite industrial experts to judge competitions. In addition, there are plans to increase the number of sponsors to attract more attention to the WEC and to raise the prize amounts.

When does this happen?

The WEC will be held twice a year: a whole week in June for students on campus, and again in October for students in the opposite stream. There are five categories: Junior Team Design, Senior Team Design, Consulting Engineering, SFF Debates, and SFF Technical Speaking.

The first WEC is taking place from **June 22 to 27**, with registration from now until **June 12**.

Information? Registration? Schedule? Volunteering?

Go to our website, it's all there! wec.uwaterloo.ca

INTRODUCING...

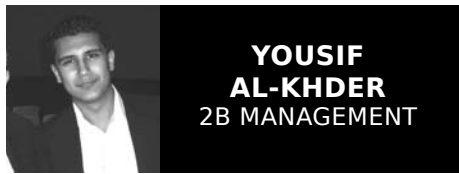
THE **Waterloo Engineering Competition**
www.wec.uwaterloo.ca

JUNE 22 - 27, 2009

JUNIOR DESIGN | SENIOR DESIGN | CONSULTING ENGINEERING
SFF DEBATE | SFF TECHNICAL SPEAKING

Register on www.wec.uwaterloo.ca June 1 - 12

You @ Waterloo Day



**YOUSIF
AL-KHDER**
2B MANAGEMENT

On the Saturday before last, UW opened its doors once again for the students joining this coming fall and their parents. Unlike the March Break Open House, where all students who have applied are invited, this event was only for students who have received offers of admission. Some of these students had accepted their offers, but the majority were waiting for this day to make their decision.

The Visitors' Centre was organising and in charge of this event, and I must say they did a really great job. The campus ambassadors and the volunteers were all around campus, giving tours to the visitors. In addition, all the residences and some of the faculties were giving tours to the visitors as well.

The SLC was unusually alive on that Saturday, full of students and their parents and all the great volunteers, as most of the events took place there, where all 6 faculties had set up booths there to meet up with the new students and answer any questions

they and their parents had. I met with many admitted students from the different kinds of Engineering, and I was really happy to meet a few of the coming Management Engineers. Some of the questions that were on everyone's mind included how many hours of studying are required, residence, what are some of the fun things around, and the male to female ratio in Engineering, surprisingly from both men and women.

From the new Management Engineering students and their parents, I again was asked the question that I will probably be most asked about during my university career; "What is Management Engineering?" In addition I was asked what courses we take and what kind of co-op jobs we get. Luckily, we had 4 great Management Engineering students (and 1 Electrical, shame on you all!) volunteering and we talked about our academic and job experiences.

For the students who couldn't be on campus, the Visitors' Centre had set up a chat session for the first time ever to talk with these students, who are probably in different parts of the world.

All in all, I think that the event was a great success and I felt that many of the students were pleased with the event. Hats off to the organizers and all the volunteers!

Genius Bowl XVI

GENIUS BOWL DIRECTORS A-SOC

Your Genius Bowl Directors would like to thank all the teams and judges that showed up at Genius Bowl last Thursday. The day was long, the questions were a little hard, and we know more than a couple of you were getting

hungry after watching some other teams (and us) eating throughout the event, but in the end we all had fun and it turned out to be an awesome time.

We would like to congratulate *The Bedrockers* (3A Geo) for winning first place this year, stealing the title from our returning champions *Jill Smells*. *Team Possimpible* (2B Civil) came in second,

while team *QuizBowl + Resistors* (a mix of engineers/non-engineers) pulled off an impressive third.

In total, 24 teams came out to the event to showcase their mad trivia skillz, have fun, and show their spirit.



Kristen Roberts

Bedrockers, the 3A Geo team, steals Genius Bowl victory

International Exchange!

PETER ROE DIRECTOR OF EXCHANGE PROGRAMS

Did You Know...

- That Sweden, Norway and Denmark, all of which have latitudes similar to Hudson Bay, all have *warmer* winters than Southern Ontario?

- That these three countries, plus the Netherlands, are all, like Canada, constitutional monarchies?

- That the Faculty of Engineering has student exchange agreements with all these countries and several more in Europe?

Right now there are openings in Western Europe in Denmark, Norway, Sweden, Finland, Germany, the Netherlands, France, the Czech Republic, England, Ireland, Switzerland and Italy for studying on exchange in 2010. To qualify all you need is to complete at least 2B and have

an overall average of at least 70%. In most places you can study in English – in some you need a facility in the local language – think of it as an opportunity to broaden your skills. There's a bunch of paperwork to be completed and signatures to collect; get this done in time for the various deadlines of our partner universities and you could be on your way to 4, 8 or even 12 months of adventure.

Did you know...

- Many of our exchange partners consider UW Engineering as the top target, bar none, for their students in North America?

- The Faculty of Engineering at Waterloo is more active in international exchange than almost *every* university in Canada?

- The Faculty of Engineering has over 60 exchange partners around the world, including nine out of the world's top fifty

Engineering schools?

All the Engineering students who have gone on exchange, with no exception over the past ten years, have returned bubbling with enthusiasm about the process, the experience and the effect on their careers, learning, and world view that the program has given them. Just this week a returned exchange student told me that he was amazed at the fact that in other countries it is the norm to expect to go on exchange, while in Canada it is the exception. At Waterloo we're trying to change that.

Participating in exchange gives you:

- First-hand knowledge of the customs of a culture different from ours in Canada, not just the superficial experience of a short tourist visit.

- The chance to meet and make friends with [future] professionals from around the world, not merely in your host coun-

try, for lasting contacts throughout your career.

- The opportunity to study in a system that's different from ours, and thereby increase your versatility.

- The possibility for travel in places which you may never otherwise see; for example students who study in one country in Europe usually come back with photos and memories of trips around many parts of the continent.

In short, exchange is fulfilling and fun. It provides opportunities and experiences that can change your life for the better. It is an eye-opener to the cultures of the world. It is a super way to enhance your profile, professionally and personally, in the rapidly shrinking world. It provides a real-life, not just a virtual, world experience. Give it serious thought and sign up as soon as you can.

Why I Hate Waterloo... And How You Can Change it...

PAUL NOGAS 4A ELECTRICAL

As I now enter my 4A term I have come to realize the great love I have developed for the University of Waterloo. It has given me many great experiences, friends and has taught me much. However, there are some major flaws that I feel us students (not the administration as most people point the blame on) need to work on this term.

The first is arrogance. This is one of the greatest complaints I've heard from past employers regarding UW students. Many students go into interviews only asking employers what they have to offer, rather than promoting what the student can offer the employer. This arrogance also comes across in our daily actions. One specific example is holding doors open. Most people I see push doors open and walk quickly through without a glance behind them. Maybe there's a person carrying books who can't grab the handle. Maybe there's someone who had a bad day and your simple act of kindness could cheer them up. Maybe there's a cute boy/girl behind you and this could lead to a conversation. I know you're

a busy, super-involved UW student with 100 things to do, but so is everyone else in this school. You don't need to stand there for 10 seconds holding the door - just be reasonable. Another thing you can do is to say "Thanks for cleaning up our mess" next time you see a janitor working. That's it, no big speech, just simple kindness that will go a long way. I could go on but I think you get the point.

The next thing we need to work on is apathy. Many of my friends are not on mailing lists since they hate how many emails they get. It takes 1 second to delete an email. I would rather be slightly inconvenienced and informed than unaware and ignorant. For example I am on WPIRG list, and out of the last 100 emails they've sent me, I've only gone to their bike maintenance workshop (which was extremely useful for an avid biker like myself) but if I was never on that list I would have missed it. So I encourage everyone to AT LEAST sign up for the EngSoc mailing list at <http://eng-soc.uwaterloo.ca/>, even if you doubt you'll go to an event this term. I also encourage checking out the FEDs website for other useful groups.

This brings me to our involvement in FEDs. Most engineers I talk to think FEDs is all talk and no action, while EngSoc has provided everything I've needed. For the most part I agree with this, but that should be all the more reason for us to get involved. We should change how FEDs works and develop a working system. For a start, work on changing FEDs' dismal election turnouts. I know I don't need to tell you to vote. The fact that you even read IW is proof you care enough to know what's happening in the world around you, but you need to make sure your friends vote. Email them and say "Have you voted yet?", make an announcement in your classes and so on.

The last thing I'll talk about is segregation. Although the UW student body is diverse as a whole, there are a great deal of cliques that form. Unfortunately I find that a large number of those cliques are of common nationality or ethnicity. This is understandable since usually they speak the same language, share same religious beliefs or have similar upbringings, but when's the last time you've invited someone else to join your circle of friends for

an event? I have never been invited to sing at K-zone or play a game of cricket in my four years at Waterloo yet I have heard of people doing them all the time. Even our school spirit is segregated. After a talk with a Laurier friend last year, we determined that the difference between the two schools is that Laurier has school spirit while Waterloo has spirit within smaller groups. Most people are only involved in groups such as EngSoc, Dragonboat, Chinese Christian Fellowship, etc.. I don't think we should lose this group spirit; we just need to find a way to unite it. Invite friends out to watch dragon boat competitions, get your friends from the Goh club to come to your rez and teach people how to play, invite your non engineering friends to EngSoc events and ask if you can come to theirs. It's things like this which will help us build school spirit.

If you like or hate my rant I encourage you to talk to me in the halls or email me at paulnogas@gmail.com for more discussion. Lastly I'll promote a discussion of how to make the school better that's already going on at <http://myidea.uwaterloo.ca/>. Check it out!

ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



SARAH SCHARF
PRESIDENT

I realised after completing my previous exec report that it was rather long-winded, so I'm going to endeavour to make this one shorter. Here is a brief description of what your president has been up to in the last couple of weeks, and other relevant updates.

POETS: I hope everyone has had a chance to enjoy the new layout in POETS, and to play some darts (yes, we have dart-boards – darts are in the Orifice). The new furniture which was ordered for POETS many weeks ago is finally arriving next week. It will be yellow and black, and the same style as we currently have in there. Lastly, I realise that we have a wonderful pool table up on the indoor balcony yet no one is allowed to use it, since we're still waiting for safety netting to be installed so you can all enjoy pool without injuring innocent bystanders.

EFC: One of the committees that I sit on as a student representative is Engineering Faculty Council. This is mostly just a forum for communicating engineering relevant information to faculty and staff, and my job is to keep the students informed as well. Of the topics discussed at this meeting, I think students would be most interested to hear the results of the First Year Engineering Study. A full report was presented at the meeting, and I am working to create a summary of information for anyone interested. I'll keep you posted on the status of this.

FUGS: Faculty Undergraduate Studies

committee is another council on which I serve as a student representative. David Liu also attends these meetings with me, and we are called upon to give student feedback on possible changes to engineering programs. The two programs under discussion at this meeting were Software Engineering and Management Engineering. Proposed changes to Software are very minor, and will not affect anyone currently enrolled. The proposed changes for Management would include a new lab component (which would be offered as an elective for current students) and David Liu and I are interested in student feedback.

That's all for now. Please feel free to let me know of any questions or concerns you have regarding the above topics, or anything else in engineering. Good luck with studying!

-Sarah

VP Education Report



DAVID LIU
VP-EDUCATION

Hey A-soc,

I have been VP Education for 4 weeks now and I'm constantly learning new things about this role. One thing for sure, I'm trying my best to represent you and the Engineering Society in following meetings – PD-Eng Steering Committee, Faculty Undergraduate Studies, Senate Undergraduate Council, Co-op Working Group, E-Council and SFF. That is why I would like input from you. If you have any concerns or issues about our current education, please let me know. Email me at s14liu@uwaterloo.ca or leave a voice message at 519-888-4567 ext. 29902. I will get back to you within 24 hours.

Now, some good news:

CECS – 0.75 student-to-co-op job ratio for the Fall 09 term placement! So, on average, about 3 out of 4 students will get a job. This is a significant increase from last term. In addition, the ratio is still increasing and CECS is offering more support and services during this difficult time. Also, the new version of Jobmine – so called “Jobberloo” – will be launched one year from now. This new CECS web information system will deliver all the promise and features that students and employers are looking for. It is built from ground up with Visual Studio 2008 Team, C# and ASP.NET 3.5 framework by talented group full time IST staff and co-op students.

PD-Eng – As our Dean mentioned in the Engsoc meeting #2, the PD-Eng independent review is making progress. The PD-Eng independent review is designed to obtain suggestions from external reviewers outside of UW. On July 7th and 8th, 3 external reviewers will visit our campus and examine the PD-Eng program. These external reviewers are a former dean of University of British Columbia, the president-elect of Professional Engineers Ontario and a former dean of University of Queens. Our Associate Dean will be selecting students to provide feedback and opinions to these high profile reviews.

Lastly, Jay Shah and I hosted a motivational speaker on Wed. May 20th at RCH. The speaker, Chris Cummings, an associate of Tony Robins from “Unleash the Power Within”, had volunteered his time to inspire and motivate 70 UW students. If you missed out on this one, there will be two more coming. Next, Larry Smith, the famous UW economic professor, will be talking about “The Hidden Companies: Where the Really Good Jobs Are”. It will be on **Wednesday, June 10th at 5:30pm** in DC-1350.



Michelle Croal

Execs as childhood characters at EngSoc Meeting # 2

VP External Report



MIKE MCCAULEY
VP-EXTERNAL

HELLO!! Report #2, here we go! Hopefully you are all settled in and enjoying the term so far.

Firstly, I would like to make you aware of the WATERLOO ENGINEERING COMPETITION (WEC). One of my goals this term is to increase awareness about Waterloo's presence in competitions and I'm very excited about

the tremendous work the Competitions Directors are putting into the event this term. The WEC will serve as the qualifier for the Ontario Engineering Competition which will be taking place in February 2010. For more information, check out the full article in this edition of the IW and check out the website www.wec.uwaterloo.ca. Registration is online from **June 1-12** so get your teams together now!

Next is an exciting event that the Canadian Federation of Engineering Students (CFES) is running at the end of the summer. The University of Toronto

is hosting a Complementary Education (CE) Course from **August 16-22** on the topic of ‘Engineering in Sport’. This is a fantastic opportunity to meet engineering students from across Canada in a fun and informative setting that will also allow you to explore the greatness of downtown Toronto. I had the opportunity to attend a CE Course last summer and it was truly an amazing experience! I encourage you to check out the course website toronto-ce-2009.cfes.ca for more details and registration information. Be sure to contact me if you have any questions – I'd love to hear

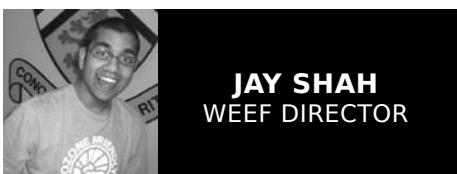
from you! And oh yea, there is funding available (contact me for details) so you have the potential to attend this event completely FREE.

Lastly, as was mentioned in last weeks' EngSoc meeting, if you would like to help out with the KidsAbility event on June 7, please send me an email. We are looking for ~10 people to help out.

And that's a wrap folks! Feel free to come see me in the Orifice or email me (asoc_vpext@engmail) if you are interested in anything I've mentioned.

-Mike

WEEF Report



JAY SHAH
WEEF DIRECTOR

Donation returns closed up without a hitch on May 22nd. Finance is now doing their magic to ensure that students who have requested their return do indeed get it. Statistics are not yet available for how many returns were requested, from which classes, and from which years; however, they should be available in the next *Iron Warrior* issue.

Submissions of WEEF Proposals are now being accepted! For information on how to make a proposal visit www.weef.uwaterloo.ca/proposals.html - you'll see

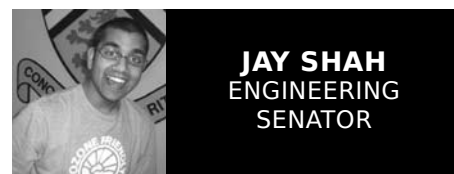
just how easy it is!

Visit the list of class reps at www.weef.uwaterloo.ca/council.html to see if your class has a rep. If your class does not have a rep, that means your class collectively gets zero input into where the ~\$85000 gets allocated this term, so it is in your best interest to assign a rep. How can we know what your class/department needs/wants if you won't tell us or help us decide ;)?

Don't forget, WEEF is designed to be for students by students – its 100% up to the council of students (reps from each class) to decide where we put the money.

Questions, comments or suggestions are always welcome - email me at weef@engmail.

Senator's Report



JAY SHAH
ENGINEERING
SENATOR

The first Senate meeting of my term occurred on May 19th – it was a fairly light meeting, so there isn't a whole lot to report back.

Updates:

- 1) 11.7% of UW's budget devoted to student aid (~51 mil), highest among big Ontario Universities
- 2) ~20% of all degrees issued in Canada are Science/Engineering, quite low compared to other countries of similar calibre
- 3) ‘Go/No Go’ Decision will be made in June re: UW-UAE Campus' Existence for

2009/10 year

4) Registrar is proposing a change to exam policy to allow Midterms on Saturday.

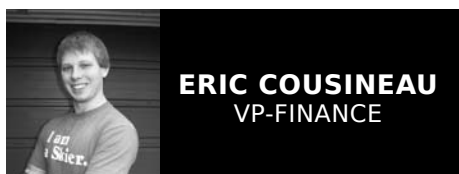
5) PD Eng Independent Reviewers coming to UW July 7th - Will be seeking student feedback. Medium of student interaction yet to be decided – Associate Dean Loucks & Dean Rothenburg will decide that medium. Will be following this closely to ensure fair/complete student interactions with the reviewers.

I welcome you to contact me about anything listed above or anything you think I should be pursuing on behalf of all engineering undergrads. I'd love to hear from you. (j4shah@engmail)

Let's be proactive!

ENGINEERING SOCIETY EXECUTIVE REPORTS

VP Finance Report



ERIC COUSINEAU
VP-FINANCE

I can't believe we've already made it to the end of week 4! (at time of writing) I am working hard as your VPF, and I've gotten quite a few things done in my first few weeks. I've been on the ball with reimbursing directors for their expenses, and getting the budget approved by council. Oh, and Novelties fits in there as well, somewhere.

Our budget was approved at Wednesday's EngSoc Meeting, and it can be seen attached to this article and on the EngSoc website!

Donation proposals are due **June 22nd**, we have \$2500 in donations to give away (to worthy causes), and the requirements for requesting that money can be found in our policy manual. (Basically, no more than 2 pages explaining what you want the money for).

Novelties has been doing well. We've sold out of Black Sigg bottles again, and we have Zip-Up Hoodies, and shot glasses coming in! Come check it out between 11:30 and 1:30 every weekday, in CPH Foyer.

I am officially launching/announcing a design contest! Novelties needs an actual sign, so I am asking YOU to design it for me! The person with the winning design will get a \$50 Gift Certificate to Novelties :). The details have been sent out over the mailing list!

You can now order your Personalized Engraved EngSoc Hip-Flask! They are \$35 and are for sale in Novelties, and the Orifice. Assuming enough people order flasks, they should arrive sometime in (hopefully early) July.

As always I'm open to your comments and suggestions. Please email me at asoc_vpfin@engmail.uwaterloo.ca or talk to me in person! (I'm the red haired guy usually sitting by the back window in the Orifice :))

VP Internal Report



TIM BANDURA
VP-INTERNAL

WOAH! What a past couple of weeks! As predicted, bowling was a great time! The fact that I cannot bowl with an average amount of skill did not detract from the fun, and it was great to meet new people who came out! Saturday saw one of our athletics favourites: The EngSoc Dodgeball Tournament. With the unfortunate scheduling of life or death commitments (a.k.a. repeats of a particular work term course), the turnout was a little small. That did not stop anyone from having a good time though! Through the ancient tradition of the schoolyard-select-captains-and-then-alternate-picks system, we generated a bunch of different teams out of the people who attended. These teams were pretty balanced (probably cause we didn't keep the schoolyard tradition of "package deals" of friends), and it lead to

some exciting, fast-paced games!

Thursday was Genius Bowl, our termly quiz show/game. It was also a lot of fun and it had a great turnout! THERE WERE EVEN BUZZERS! (As a former Reach for the Top competitor, you have no idea how awesome they are and how amazing that is) There were also plenty of costumes to go around, in particular a dilapidated red feather and hat, miners (complete with lights), and an entire group of very athletically dressed competitors (one with a Fox 40).

Upcoming events include our next council meeting on June 3rd. Come out and see exec dressed as your favourite ninja turtles! On Thursday June 4th, our music directors are holding a coffee house! Friday night of that same fun-packed week will have the Engineering SCavenger hUNT (SCUNT)! Sign up is on the Orifice door and I hope to see you out! One big change of this year's SCUNT is that it will be shorter! No need to sleep in your HQ! After this we start getting into our midterms and whatnot, so try to keep stress free and happy!

Director Budgets	Requested	Allocated
Academic Rep Advisors	\$750.00	\$300.00
Arts	\$200.00	\$200.00
Athletics	\$750.00	\$710.00
Bowling	\$118.50	\$118.50
Canada Day	\$560.00	\$560.00
Charities	\$450.00	\$450.00
Competitions	\$415.00	\$415.00
Course Critiques	-	-
Donations	\$2,500.00	\$2,500.00
Education Assistant	\$100.00	\$100.00
Enginuity	-	-
Engplay	\$1,100.00	\$1,100.00
EngSoc Rep Advisor	\$100.00	\$100.00
Frosh Mentoring	-	-
Genius Bowl	\$325.00	\$325.00
Guest Speakers	\$1,075.00	\$1,075.00
Interfaculty Relations	\$500.00	\$500.00
Jazz Band	\$1,300.00	\$1,000.00
Multiculturalism	\$40.00	\$40.00
Music	\$380.00	\$380.00
Organization Presentations	\$500.00	\$500.00
P**5	\$1,000.00	\$1,000.00
PD Eng Survey	\$150.00	\$75.00
POETS Managers	\$300.00	\$300.00
POETS Programmers	\$150.00	\$150.00
Resume Critique	\$200.00	\$100.00
Scavenger Hunt	\$395.00	\$395.00
Secretary	-	-
Semi Formal	\$910.00	\$910.00
Speaker	\$2,683.00	\$2,683.00
Special Events	\$200.00	\$200.00
Student Life 101	\$400.00	\$400.00
Student Workshops	-	-
TalEng	\$850.00	\$850.00
Task Team	\$148.00	\$148.00
TSN	-	-
Whiteboards	\$20.00	\$20.00
Women in Engineering	\$450.00	\$450.00
Year Spirit (2009)	-	-
Year Spirit (2010)	\$500.00	\$150.00
Year Spirit (2011)	\$125.00	\$150.00
Year Spirit (2012)	\$150.00	\$150.00
Year Spirit (2013)	\$300.00	\$150.00
Total Directors Expenses	\$20,094.50	\$18,654.50

We want your Work Reports to convert into Case Studies!

Case Studies:

- Engage students with real engineering problems.
- Give practice applying concepts to real analyses.

Please upload your Work Reports to:

<http://cases.uwaterloo.ca>

WATERLOO CASES IN DESIGN ENGINEERING

Sample Case Studies:

- Hydro Quebec Photovoltaics
- EWB Rainwater Harvesting
- Erie Shores Wind Farm
- Biogas Energy Harnessing
- Power Supply Design

Submissions receive 75 P**5 points.

Iron Warrior Gets Around

Daytripping in Stratford



STUART PEARSON
2B CIVIL

With all this sunny summer weather, what's a poor engineering student to do? It's far too nice to stay inside, and if you're not from Southern Ontario, now is the best time of year to do some travelling and see what the region has to offer. If you're from out West, you might bemoan the lack of mountains around here - fear not! Though our topography is somewhat uninteresting, there are still lots of things to do and see within a few hours' drive of the campus. Take a daytrip one weekend this summer and try something new! In each issue I will write about a different place to visit, so if you have any suggestions for me, send them in! I don't claim to be an expert on any of these locales, they're just some of my favourite places to visit around here.

This week we'll take a look at Stratford, once crowned the "Prettiest City in the World". Stratford is a small town of about 30,000 people located west of Kitchener/Waterloo. Getting there is fairly simple. If you're lucky enough to have a car, then it's only a 40 minute drive along Highway 8. If you'd rather take the bus, the trip takes

about 45 minutes from Charles St. Terminal in downtown Kitchener, with about two buses leaving every day.

What to See:

There's an abundance of things to do and see in Stratford. The city's biggest tourist draw is their annual Shakespeare Festival,

which annually draws thousands of theatre-goers and some of Canada's biggest actors and actresses. Fun Fact: The Stratford Festival was opened back in 1953 by Alec Guinness (yes, Obi-Wan Kenobi himself) playing *Richard III*. This year, productions of *Macbeth*, *Julius Caesar*, *West Side Story*

(not exactly Shakespeare's best-known work...) and more are being staged. Ticket prices range anywhere from \$25 to \$90 depending on the show, so go check out www.stratfordfestival.ca for more details.

If theatre isn't your thing, there are plenty of other sights to see. One of my personal favourite outings is a walk along the waterfront downtown. A picturesque trail winds lazily around the lake, filled with swans and surrounded by nice shady trees. After your stroll down by the water, take a walk along the main street, where there are all sorts of neat little stores. My personal favourite is MacLeod's Scottish Shop, but the chocolate store is also worth a visit.

Where to Eat:

If you're getting hungry, there is no shortage of scrumptious places to chow down. My most recent trip culminated in a trip to Raja Fine Indian Cuisine at 10 George St. West. It was without a doubt the best Indian food that I've ever had, and I would go back in a heartbeat. If ethnic food isn't your thing, there are all sorts of trendy cafés, posh restaurants, and cozy little pubs lining the main street.

When you're sick of studying, treat yourself to a day in Stratford, and I can guarantee that you will not be disappointed! To find out more, visit www.welcometostatford.ca



Swans in the Avon River, Stratford Ontario

Grant Pearson

Saturday at St. Jacobs Market

Fresh, Local, Cheap



MATT CASSWELL
2B CIVIL

It's the summer, and what better time to be outdoors than on weekends? Realistically, you're not actually going to do all that homework that you accumulated over the past week, and you're not going to study for that quiz on Monday until Sunday night. So what else are you going to do? Sleep... until 5 pm? Go to the bars... at 1 in the afternoon? Read

to do their local shopping or selling.

Just south of St. Jacobs is St. Jacobs Market - a large farmer's market with (mostly) locally-grown and produced fruits, vegetables, meats, dairy products, baked goods, and household goods. Prices at the market are extremely reasonable, and are often cheaper than local grocery stores. Some of the great deals that St. Jacobs Market features are listed below. While shopping, there are also a number of food outlets where you can get anything from Chinese noodles to pork schnitzel, to gyros, to poutine. Eating and supporting local farmers at the same time - it's a win-win situation for everybody!

St. Jacobs Market is also home to Apple Fritters - and there is always a line up out of the building to get some - but it's definitely worth it. Freshly made and served warm, they can be bought individually or in a box to take home and share (or personally indulge) later.

More into fashion then food? St. Jacobs Outlet Mall is located across from the market, and features a number of designer outlet stores. A newly-opened Wal-Mart is also located next to the Outlet Mall.

St. Jacobs Market is open year-round on Thursdays and Saturdays from 7 am to 3:30 pm, and in the summer also on Tuesdays from 8 am to 3 pm. However, the earlier you go, the bigger food selection you will get. St. Jacobs Market is accessible by car (parking is free!), by the #21 Bus to St. Jacobs/Elmira from Conestoga Mall, or by the tourist train which leaves the Old Waterloo Train Station (Erb St. and Father David Bauer Dr. in Uptown Waterloo). Tickets for that are \$10 for students or \$12 for adults,

round-trip (More info: www.steam-train.org).

Try these at the Market:

- **Bring your reusable bags!** You need them to go grocery shopping now, so everyone has one. While they give you free bags at St. Jacobs, the reusable bags will hold a lot more and are much easier to carry, especially on the bus or train. Plus, you're saving the environment!

- **7 Schnitzels for \$10.** A great deal - seven fresh pork schnitzels for \$10, and they taste great. When you enter the main building from the south side, turn left and walk down a bit, past the cheese counter. They will be in a meat counter on the left-hand side.

- **Buy Apple Fritters.** The line up may look long, but it is definitely worth the wait to have some. If it wasn't, no-one would be in line!

- **Fresh sausages galore.** On the northern side of the market building, there will be a large meat counter selling wheels of sausage (they will turn it into an actual sausage for you though). From Plain to Mild Italian, Garlic (which is good with Calculus, say the pros) to Oktoberfest, you can have a different sausage every weekend in the summer and still have more to try.

- **3 bags of bread for \$5.** Not just bread - bagels, pitas, bread, wraps, pizza crusts, buns, rolls, etc. Every type of bread, freshly made, and only \$5 for three big bags. Selling outside of the main market building, but just before you go in. Freeze what you don't eat right away.

- **Freshly baked deserts and goodies.** Right beside the previously-mentioned bread, you can get every sort of sweet treat - cookies, cake, apple crumble,

monster cinnamon bun, ... literally everything! - for very good prices.

- **Schnitzel on a Kaiser for lunch.** Sold in the large red pioneer's wagon outside of the building (you can't miss it), you can get your lunch for about \$5. It tastes awesome too! If you like sauerkraut, try it with the schnitzel.

- **Fresh pierogies, not frozen ones.** Everyone likes pierogies, especially when they're not frozen. In the southeast corner of the market building (across from the Apple Fritter place), you can buy bags of fresh pierogies with an assortment of fillings.



Stuart Pearson

Waterloo heritage train heading to St. Jacob's

OMGUW... all day, like at your co-op job? Some people may answer "yes!" to some or all of the above, but for the rest, maybe it is time to enjoy Waterloo's most popular attraction - St. Jacobs.

For those who don't know, the town of St. Jacobs is north of Waterloo, and is a small and historic Mennonite town; home to a variety of small shops, museums, and of course, the original Home Hardware. Originally founded in 1852 as Jakobstettle, or "Jacob's Village," the prefix "St." was added to make the town sound more pleasing. Eventually, the name was simplified to just "St. Jacobs." The small town is still the major centre for the area's Mennonite community, and it is not uncommon to see residents riding their horses and buggies into town



Fotthing.com

Crowds shopping in the indoor section

- **Check out the fruit and veggies.** Even if you're a carnivore, the market has a huge selection of locally-grown fruits and vegetables, especially in the summer months. Most are sold outside the market building.

- **Go up often!** There's always new things on sale every week, and as the weather gets warmer, lots of new fruits, vegetables, and even meats become more widely available.

- **Bring a friend!** It's no fun to go by yourself.

- **Bring an umbrella!** Most of the market is outside, and summer weather can change on a dime. Make sure you stay dry when the weather turns for the worse.

POINT VS. COUNTERPOINT

POINT

Are High School Students Prepared Enough for University?

COUNTERPOINT



JON RADICE
3A CHEMICAL

It's safe to say that everyone who came to the University of Waterloo experienced at least some sort of spike in difficulty in the first few terms. It could have been either the fact that you weren't used to the amount of work being thrown your way, or maybe you found out how hard it was to get to classes without mommy waking you up and packing your lunch, or you realized that your high school never really taught anything about calculus. But while you stay up into the wee hours of the morning, weeping over the fact that you could not get that integral to simplify to the answer in the back of the book, you've just learned the most important lesson high school gave to you.

And this lesson is pretty universal, it works for all departments of Engineering, for all faculties in this school, and for every university in the world; it taught you how to actually sit down, focus on the task at hand, and make the connections necessary in order to learn new concepts. The best thing that high school taught you is actually how to learn, and it does that pretty well, with benefits that are pretty evident. High school had courses that everybody hated, whether it was English, Business, or the wretched Data Management. But since we, as our bright-faced high school selves, found a way to understand the concepts, put forth the effort and get at least a respectable grade. That in its self is more of a beneficial education process than trying to teach discrete math to a room full of possible psych majors. By reinforcing a learning base – which high school still does very well, instead of just adding another level of complexity to the top, it prepares the student for more difficult tasks when they decide what to specialize in for university. With assignments that seemingly take days, lectures that move

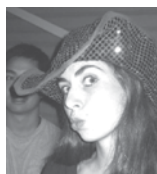
at the speed of light, and with TAs that are sometimes not helpful in the slightest, we're just stuck with our 'want' to learn and our tools, learned in high school, to problem solve, to think things through, and to persevere.

Of course, the counter argument to this is "well, if they had a more advanced calculus/chemistry/programming course in high school, I would have grasped those facts and would not have had such a hard transition," but unfortunately there is a limit to that logic. We've all known (or

High school provides the tools for people to pursue the better things

have been, at least in my case) the person who never did anything in high school, never studied, never did any homework and managed to get stellar grades all throughout. The second they hit university, they get floored; their marks drop like a stone, and they have no idea how to learn these new concepts. The reason why we go to university is to expand our knowledge-base much farther than what was taught in high school. Even with advanced calculus courses, C++ classes, and labs devoted to capacitors and inductors, there is going to be that point where there is a new concept that was not introduced in high school. And it'll be the same sink-or-swim feeling at a later point, where after coasting off of high school remembering for even longer, you're forced to learn something new. And the transition to learning mode from high school regurgitation mode is much more difficult now that time has passed.

High school provides the tools for people to pursue the better things, whether it's to be a kinesiologist, a psychologist, or an engineer. Its main focus should be to give the students everything they need to know to utilize their brains for knowledge, rather than increase specialization with more and more difficult courses.



AMANDA LEDUC
2B MANAGEMENT

Students graduating from standard Ontario high schools are not prepared for the academic challenges of university. This does not include students who complete A-Levels, IB or AP courses, but all students who take "university preparation" classes as defined by the Ontario Government.

Did you know that the government changed the high school curriculum again? Allow me to rephrase. Did you know that the government watered down high school "university preparation" mathematics to the point that students barely learn calculus and think of a matrix as a movie? It's true, they did.

The students who entered university in September 2008 received even less high school math instruction than the rest of us did. It is now up to universities to teach even more basics to Ontario high school grads.

As you may know from the previous curriculum, the two intense math courses were "Advanced Functions and Introductory Calculus" and "Geometry and Discrete Mathematics". For students entering into engineering, the most important parts were the actual calculus (basic derivatives) from the first course mentioned and the matrix algebra from the second course mentioned. Even with these two distinct courses, I found that I was barely prepared for the math in 1A and 1B.

There are now two new less intense math courses to replace the two old courses. So how did they brilliantly reshuffle the courses? They took what used to be a three week portion of "Advanced Functions and Introductory Calculus" and stretched it into an entire course on its own called "Advanced Functions". In this course, the students spend an entire term studying trigonometry and ba-

sic function solving techniques. While I like the fact that they actually learn some trig, the fact that they spend an entire credit on this is ridiculous.

What about calculus and matrices you ask? Well, they took the remaining 15 weeks of "Advanced Functions and Introductory Calculus" and the entire "Geometry and Discrete Mathematics" course, watered them both down beyond usefulness and recognition and combined them into one course called "Calculus and Vectors". In this course, students are briefly introduced to the concept of the derivative as well as to the basic properties of matrices.

International students cover most of the topics covered in 1A math as well as some of the topics in 1B math. Some of the international students in my class were shocked that I didn't know about integration and that I hardly knew any trig.

While some Ontario students learned more math by going to enriched, private or IB schools to cover their high school education, this is not feasible for all students due to financial or location constraints. For instance, I grew up in Timmins and there are neither private nor enriched schools within a 3.5 hour drive. Adequate mathematics education should be available to all students who require it. I recall on my last day of calculus in grade 12, my teacher drew an integration symbol on the board and said, "This is an integration symbol. We don't teach this in high school anymore but most of you will see it in university. It's the opposite of the derivative so don't be afraid" ... and that was my introduction to integration in high school.

Ontario high schools are clearly going in the wrong direction with the cuts to the quality and amount of math taught in high school. If anything, more math, especially calculus, needs to be re-introduced in the public high school system so students are better prepared for the challenges of university (particularly in an engineering field of study).

VeloCity: Final Thoughts

LIFE EXPERIENCE
from Page 3

Like I mentioned before, we met with a venture capitalist, and he gave us really really good advice.

Finally towards end of term we had to pitch our product to a panel of judges, and that was a really good experience – to actually promote it and sell it.

IW: What was the name of your project? Now at the end of all this do you have a product that does the task you want it to?

AR: It's called "WordBridge". Our team started this just as a "project", and didn't want to think of it as anything bigger than that. Right now, we have demo that we've unfortunately had to put on hold. We made this product by combining several different technologies; we don't own any of the IP ourselves. We want to do more research and then take this project further. It was definitely a fun project and an amazing learning experience.

IW: Are you considered a business? What is meant by the term "start-ups" when referring to VeloCity?

AR: We're not. We don't own office space and aren't hiring or working on this full time. However Unsynchronized was one of the start-ups that did come out of VeloCity. What they did is an application for BlackBerry, and now they're actually hiring on Jobmine! That's pretty impressive, because four months ago it was an idea and now

they're a company. The pace is just amazing.

IW: What were the things that you gained personally out of this experience?

AR: The network and connecting with a lot of like-minded people. The entrepreneurial spirit, creativity and technical knowledge are all here. I learnt a lot about what it takes to start a business, how to work in teams. Even talking about my product right now, I'm learning how to sell and pitch ideas. Confidence and time management were huge things I gained as well.

IW: What was your favourite event/speaker at VeloCity?

AR: I think it was at the end, when we all did the competition. During the four months everyone is talking and working on their projects but you don't know exactly what it is. It was great to see everything come together, with their booths set up, and projects being pitched. It was really inspiring.

IW: What academic term were you in while you were at VeloCity?

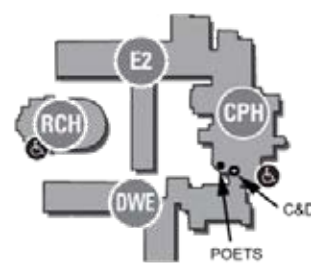
AR: 3B Electrical Engineering.

Thank you Sean and Ashok for being so accommodating and having this interview so last minute; and to Tian for making it happen! Students who are interested can check out <http://velocity.uwaterloo.ca/index.php> for applications, current student projects and tech-industry links.

MORE THAN JUST COFFEE & DONUTS

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

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



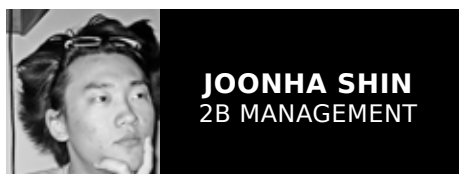
HOURS OF OPERATION
MONDAY-THURSDAY 7:30AM - 7:00 PM
FRIDAY 7:30 AM - 5:00 PM

ENGINEERING SOCIETY



Internet Memes

Oh No! Not More Rickrolling...



JOONHA SHIN
2B MANAGEMENT

I'm not an expert on internet memes, but I do have a favourite.

It's called "cool face". The Urban Dictionary describes cool face as "...very distinct face of a man smiling so much it exceeds all limits in reality of cool and face. So cool in fact that the face is grinning while smiling and while half winking..." Ever since I discovered it, I've been trying to spread this hilarious comic to as many people as possible. Often, it's a hit or miss. Some of my friends found it absolutely hilarious like I did, and some just didn't get it, or got it but didn't find it funny at all.

That's the thing about internet memes, often times they are just so random that you don't know whether you should laugh or look confused.

I personally believe that there are two kinds of internet memes: memes that everyone knows, and memes that only internet nerds know. Since I'm kind of an

internet nerd, I know what cool face/troll face is, and I find it funny. I'm not a hardcore internet nerd though, and every day my even nerdier friends introduce me to new memes. Unfortunately, most of these "underground" internet memes are based on previously existing memes, therefore a newcomer would not find it funny right away.

But some internet memes really don't need an introduction. Here are some classic ones from the past that I'm sure most people know already. In 1989, a Japanese game called Zero Wing was released. Seeing the success of this game, the makers of Zero Wing decided to try to sell it to the European market. However, the translation of this game



Zero Wing

It all began with mistranslation...

was done so badly that it created hilarious results. One of the most well known phrases from this game is "All your base are belong to us" although my personal favourite is "Somebody set up us the bomb".

Here's how that introduction

went:

In A.D. 2101

War was beginning.

Captain: What happen ?

Mechanic: Somebody set up us the bomb.

Operator: We get signal.

Captain: What !

Operator: Main screen turn on.

Captain: It's you !!

CATS (Some evil organization): How are you gentlemen !!

CATS: All your base are belong to us.

CATS: You are on the way to destruction.

Captain: What you say !!

CATS: You have no chance to survive make your time.

CATS: Ha ha ha ha....

Operator: Captain !! *

Captain: Take off every 'ZIG'!!

Captain: You know what you doing.

Captain: Move 'ZIG'.

Captain: For great justice.

When people found out about this, it spread like wild fire on the internet and soon people everywhere were saying "all your base are belong to us".

And who can forget the Numa Numa Guy? Gary Brolsma became an internet phenomenon just 3 months after he uploaded the video of himself lip-synching and dancing to "Dragostea din tei", a song written by a Moldovan band "O-Zone". It's hard to feel bad for Gary though, he looks like he's having the time of his life.

The two internet memes above are relatively harmless, but there are many internet memes out there which I find to be pretty offensive and despite what anyone says, I will probably never watch them.

When I found out about Two Girls One Cup I was thoroughly disgusted. What I

was even more disgusted with was the fact that so many people were watching them! To top it off, they were recording their responses and putting it up on YouTube. You could even say that recording your reaction from watching shock sites and uploading became an internet phenomenon itself. I hope I don't have to explain what Two Girls One Cup is to you, but if you don't know what it is, it's okay. You are probably better off not knowing it. I have even heard of a spin-off of this called One Guy



Gary Brolsma

Miya hee! Miya Ha!

One Cup, which I find to be just as gross, if not more vomit-provoking. I remember one time I got tricked into watching Meat-spin by my friends, and I've never felt the same way about listening to "You Spin Me Right Round" by Dead or Alive.

The memes that I have mentioned in this article are just a small proportion of all memes out there. Some honourable mentions are: lolcats (check out www.icanhascheezburger.com), rickrolling, Leeroy Jenkins, failblog.org, and Chuck Norris Facts.

The Future Of Gaming

E3 Is Back!!!!



JON MARTIN
OBI JON1138

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

After an abysmal descent into marketing disaster, the Electronics & Entertainment Expo is returning the all out party it used to be. Now I know E3 will already be in full swing when this article comes out, but who cares?

For many years E3 was the gaming highlight of the year, with every major brand and manufacturer showing off their new technology and games. There were also the independent developers and designers who used the event to show the world what they could do, and start making money off of it. Then came the marketing strategies: the beginning of the end. Each of the major three developers, Nintendo, Sony and Microsoft started putting on larger and larger shows and booths, to the point where it became too expensive. In an effort to cut costs, everyone backed out of E3, or drastically downsized their presence. Last year was the worst, with the event becoming more of a corporate showcase event instead of a huge convention open to the public – but apparently they have learned a lesson. E3 2009 represents a

return to the E3 of old, with huge displays and announcements, everything a gamer could want.

Now, to the main part of this article. E3 has always been a platform for developers to announce their newest projects to the world, whether it is a new game, accessory or even a new system, and this year will be no different. As everyone likes different games and some people may not care about the announcement of release platforms for Bioshock2, I will only be looking at the systems themselves. There are rumours circulating about the expected announcements of the big three; here are some of the most interesting.

Microsoft has recently announced their new mp3 player, the Zune HD, as well as promising unprecedented integration with the Xbox 360. They haven't actually said how it will be integrated; rather they deferred comment until E3. Though the video/music player looks interesting, it still doesn't come anywhere close to being a handheld Xbox system to compete with the PSP and Nintendo DS Lite. This year hardware revisions are the biggest on the Xbox 360 front, including the system itself and the discs it plays. Some websites are predicting that Microsoft will be announcing a new slim version of the Xbox 360 – having opened my own system I can tell you that they could easily cut an inch off each of the length, width, and height if they just got rid of the convex shell. As for discs, there are two rumours circulating; the first is about Blu-ray coming to 360. When Microsoft announced the external HD-DVD player, many people asked what would happen if Blu-ray won the battle. Their answer? "We could

just release an external Blu-ray player" – hence the rumour. The other rumour is about the game industry going to purely digital releases, allowing users to purchase and download the game instead of buying a physical disc.

Nintendo will most likely be boasting about their soon to be released accessory, the Wii MotionPlus. The accessory attaches to the bottom of the Wiimote, and allows for much more accurate motion sensing using gyroscopes and other sensors. While some people have complained about the simplistic motions of the Wii system, Wii MotionPlus hopes to end that. The new system will allow new games to precisely measure the angle, speed, acceleration, and direction of the player's motion, giving more control in games like golf and sword fighting. Another rumour about the Wii is a new hardware revision, bringing high definition (HD) video to the system. The Wii is currently the only next generation system without HD picture, being limited to component cables and a 480p signal. If Nintendo can add HD to the Wii, they can begin to enter the core gamer market which has been the realm of the PS3 and the Xbox 360 so far. If this hardware revision does come true, then it will set the stage for another rumour to come true as well, a price cut. It is about time the Wii had a price cut, as it has finally lost the bragging point of being the cheapest system on the market. In order to compete, Nintendo must cut the price, something which they have neglected to do so far in the entire time the Wii has been available. Nintendo will also be showing off the new exclusive services available with their new DSi system.

Sony's PS3 console and PSP hand-

held system have also been the subject of speculation and rumours over the last year, with their own challenges as well as some similar ones to the other systems. Just like the other two systems rumours of a slim version of the PS3 have been floating around the internet. We will all have to wait and see what Sony does. On a side note: I always found it interesting that Sony made fun of the original Xbox for being so huge... then made the PS3 larger. Personally I don't care if the system I buy comes in a slim version or not, I'm watching the screen, not staring at the system. The PS3 is also rumoured to be getting a \$100 price cut soon, to entice even more gamers, as well as making it an even better deal as a Blu-ray player. For everyone who was disappointed when Sony cut backwards compatibility for PS2 games on the PS3, cheer up, it might be returning via software emulation. On the PSP front, the never ending rumour of a PSP2 announcement has popped up again, with many Photoshop creations to show what people want in the new system. Top requests include a second analog stick, digital downloads and the exit of UMD, as well as integration as a controller for the PS3 using the screen to show extra content (like an in-game map or your inventory).

There are new things to look for with each system, both consoles and handheld alike. Hopefully more than a few of these rumours prove to be true, as they would all be of great benefit to the industry and every gamer alike. E3 is running all this week in Los Angeles, so keep checking gaming sites for updates, as well as game trailers and demos, and keep the industry profitable during this economic crisis.

Review Based on the Trailer : Night at the Museum 2



JON RADICE
3A CHEMICAL

As my first instalment of my new column "Review Based on the Trailer," I'm taking as much time out of my schedule as needed to make judgement on popular movies – no more than 3 minutes to watch the trailer. My first victim: *Night at the Museum 2: Battle at the Smithsonian*, a fun-for-all-ages sequel to Ben Stiller's museum watching antics that touched us all in 2006.

After the atrocity of experiencing the first *Night at the Museum*, which answered the age-old question "Gee, I wonder how historical figures would act if brought back to life" with the obvious answer "try to kill the low-paid menial worker that is protecting them from harm," my enthusiasm wasn't exactly the highest for the sequel, which makes you wonder why Ben Still-

er's character would want to venture back into the foray of museum-guarding after the previous events. I guess it's the same movie logic that makes the same family forget the same kid in *Home Alone 2*, or have the same people go anywhere near the water in *Jaws 4*. You know, the kind of never-learn-anything, never-actually-grow-or-show-a-flash-of-insight that Hollywood loves to push towards the marketed masses. And as long as they slap big-name Ben Stiller on there everyone will lap up the same old tripe and exclaim that it's prime rib.

And for that matter, since when has Ben Stiller really been in a good movie? Outside of the slightly above mediocre *Tropic Thunder*, and the laugh-out-loud-for-grade-9-Jon, but retrospectively not too funny *Zoolander*, I can't recall a Ben Stiller movie that was actually funny. (For the record, *The Royal Tenenbaums* is one of my favourite movies, but I try to forget Ben Stiller was in there). And now with his current venture into the 'family-friendly' comedy, it begs me to wonder if Ben Stiller

is heading down the Eddie Murphy post-*Nutty Professor* route. I mean he hasn't reached the low in his career where he's playing a fat black woman, but when your high point was a functionally retarded male model, who knows how far Ben will drop in later years?

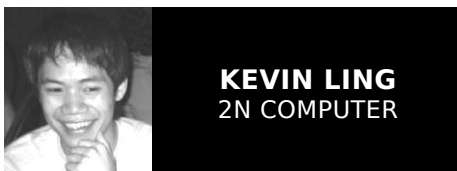
And why do most movies that cater to the family-friendly crowd have to assume that everyone watching is a moron that only reacts to very apparent slapstick and cute, yet racist mispronouncing of Native American names? Talk about selling your kids' future short when you point them at this screen and show them that 'this is what makes the money, this is talent, this is HILARITY!' I mean, why is every movie studio outside of Pixar (Shameless plug: go see *UP!*) scared to treat kids like adults rather than bumbling merchandise holders with the memory of goldfish? But I guess that's too hard when you can just churn out this garbage and easily recoup your money.

And that's the problem, this movie will

make money. More people will see this movie than I care to imagine. This is why democracy doesn't work; even when you try to scrape the bottom of the barrel, the majority of people will eat it up, and tell you it's crap, only to return salivating with wallets wide open when you reheat the same meal. Not to say that this movie is utter garbage, it's just getting to the point where nothing in this movie is really imaginative, new, or funny. But I guess there is a market for people that love watching people spout the du-jour jokes that will make the movie nigh-unwatchable in a few years. I mean I guess that's why people still find lolcats and other lame internet jokes funny.

I'm sure this movie has some merits hidden under its generic Hollywood-sequel-machine core, but I'm betting that any signs of brilliance are merely accidental. Watch it with your younger family members if you're convinced they aren't university material, or by yourself if you've just undergone a frontal lobotomy.

CD Review: *Company of Thieves* Ordinary Riches



KEVIN LING
2N COMPUTER

Band: *Company of Thieves*

Album: Ordinary Riches

Label: Wind-Up Records

I must say, the best part about writing for *The Iron Warrior* is all the perks (actually, I may have already said that once or twice). Of course, when I say perks, I mean free stuff. Although I haven't abused my tenure with the paper too much (yet), there have still been some pretty sweet deals in it for me. For one thing, I leveraged my former position as Editor to get into last term's Sandvine recruitment party -- so worth it. And most recently I got a free copy of the debut album from the up and coming band *Company of Thieves*.

When someone goes out of their way to send some new release, I'll take the time to write something about it. Unless it's a DVD of the movie *Postal*, no thanks. But I digress...

"Ordinary Riches" is the band's debut album which was released in February of this year. At the core, *Company of Thieves* consists of three members: a lead singer, guitarist, and drummer. However in both recording and live performances the band usually has two extra members to cover the bass and piano.

When I first heard this Chicago based band, I wanted to describe them as a sort of classic rock meets indie rock mixture. After listening through the album a few times, I'm not sure if I can really describe them that simply. Some of their songs have influences drawing from a few more genres than just that, including jazz and a bit of funk in the bass line of the opening

song. Combine that with the female lead vocals and this band has a pretty distinctive sound.

The first track on the album is called "Old Letters" and it has a bit of a Dazed and Confused vibe to it. It's a somewhat slow start, but the album picks up very quickly. The next few songs are much more upbeat and catchy.

One thing that is for sure is that *Company of Thieves* did not opt for the Psych Out Mix philosophy on this album. Instead of starting high and staying high, the level of energy fluctuates throughout the song, making the third quarter of the album a bit of a dry area that feels like typical filler material again. The last bit of the album begins to pick up pace again, but only the track "Past the Sleep" feels anywhere near as forceful and energetic as the starting half of the album.

What really draw me in about this band

is how, with the exception of a few songs, they don't sound overly repetitive. The guitar lines stayed varied throughout the songs and the instrumental interludes aren't too long and drawn out. I also like how *Company of Thieves* manages to bring so many genres together but maintain an obvious indie rock feel. The tones of the instruments on the recording compliment the singer's voice style very well and make for what I feel is a very smooth sound.

With that said, for the price that I got this album at I have no regrets, naturally. I think the band is definitely worth checking out, but the songs on this album probably won't make it to my most listened to list. *Company of Thieves* has a different feel to their music, and I enjoy it, but moderation will probably prove to be what keeps my image of this band positive. For now, it will remain as a nice addition to my playlist.

IW RECOMMENDS

Addicting Flash Game:

Bubble Spinner

www.deadwhale.com

Computer Game:

Resident Evil 5

Capcom

Website

Mentally Stimulating Diversions

www.sporcle.com

Venue:

K-ZONE

Waterloo Plaza

MICHELLE CROAL
3A CHEMICAL

Remember that computer game from the 90s with the little paddle that you'd move to bounce a ball and hit bricks? (It was probably called "Brick" but who knows now). *Bubble Spinner* is like the addicting flash version fast forwarded ten years. You start with a hexagon of 6 coloured "bubbles" and use a shooter to fire a new bubble at the main set. Connecting the same colours kills them for points, but there's a catch – the whole construction pivots and adding too many bubbles to one side make your construction tilt. Touch the sides and it's game over! New bubbles are added spontaneously, increasing your risk of failure. It's so simple, and yet I seem to spend hours playing it...



JOONHA SHIN
2B MANAGEMENT

There's nothing quite like shooting zombies in the head with a triple-barrelled sawed-off shotgun, which is precisely what *Resident Evil 5* (RE 5) is all about. Whether you are looking for a good game to play with a buddy (the co-op mode is amazing) or you are looking for a way to blow off some steam, you'll find it here. There is a bit of a learning curve, and it is recommended that you try it in normal mode before trying out the veteran mode. Once you beat the story mode, you'll be able to unlock the Mercenary Mode, which is a very challenging and slightly addictive.

Resident Evil 5 is made by Capcom, the same company that brought you legendary games in the past like *Mega Man*, as well as everyone's all time favourite, *Street Fighter*.



A little over a year ago I came across this little ditty of a time-waster that I have used to bust boredom, pass time at work and make those Calculus lectures a little bit more bearable. Sporcle.com is a site that currently hosts over 1100 quizzes that span out over 14 different categories. Some notable quizzes include naming the countries and capitals of the world, US presidents and states, Simpsons characters, chat acronyms, corporate logos, movie quizzes that involve naming the actor, music quizzes that involve album covers, bands, lyrics and countless others. At the end of each quiz, stats are available that give info on the most missed answers as well as how everyone else does on the quiz. At the very least, this is a site that you should take a look at the next time you need to waste some time, so give it a shot.

On a Saturday night, my friends and I were sitting around, playing *Rock Band*, but still in need of something crazier. And then it hit us: we were missing our regular karaoke fix! With the *Spur* closed, where could we go? Well, we ended up heading to K-Zone! There were 9 of us in a room for 7-9 people, which was a bit of a tight squeeze. We called in advance for the room that was \$30 for the entire hour.

The song selection was really vast, encompassing all of your classics, 90s favs, as well as new hit songs from around the world. The videos that go along with some of the songs are somewhat ridiculous, but that just added to the awesome atmosphere. Extreme hyperactivity to accompany the experience is recommended. If K-Zone is not for you, I encourage you to just go anywhere to try something new!

"Green" is Good Thoughts on Environmentalism



CAILIN HILLIER
2N GEOLOGICAL

After attending the Green Living Show in Toronto over the exam break, I realized that the "Green Revolution" is upon us. Global awareness to climate change, pollution, and the depletion of natural resources is coming into effect. People are speaking out on behalf of the environment and the wish to save the Earth is commonplace. We want to stop ourselves from continuing on the course that humanity has taken over the past century. We are seeing the effects of our bad practices now: people no longer have access to clean drinking water, occurrences of extreme weather events are on the rise, and many of us face medical conditions as a direct result of the environment in which we live.

Politicians and celebrities around the world are working to bring the environment to the forefront of world issues. Most notably, Al Gore, Leonardo DiCaprio, and Oprah Winfrey have done a great deal to shed light on the consequences of modern humanity in the developed and developing world. The newest impact to gain attention in mainstream media is the garbage filling up the ocean, specifically the stretch of the Pacific Ocean between California and Japan. They are calling it the Great Pacific Gar-

bage Patch, which is now more than twice the size of Texas and up to 90 feet deep (for us Canadians, that's roughly two Ontarios and about 28m!). Comprised of up to 80% plastic materials, this giant floating waste pile is killing off birds, fish, and many other aquatic organisms by the hundreds of thousands. For more information, Google the Great Pacific Garbage Patch or listen to Al Gore's environmental update at www.ted.com.

Despite all of the scientific facts and the increase in knowledge about the suffering of the planet, green sceptics are prevalent. Many people believe that environmentalism is unnecessary, not worth doing because they alone cannot make a difference, or that it's a lost cause altogether. This can be attributed to laziness, apathy, and pessimism. However, I believe that extreme environmentalism is to blame. There are people that have an all or nothing mentality towards the way they live. We all know intense environmentalists with annoying and nagging attitudes about being green. They turn their lives upside down to save the planet and we should too! This

is very misleading.

Being eco-conscious doesn't require vegetarianism, involve a big hit to the bank account, or mean that you have to stop shaving your legs and only eat granola. You don't have to rush home and install wind turbines and solar panels on your roof or ditch your old car for a hybrid. When it comes to starting and main-

taining a greener lifestyle, taking a simple approach is most effective. Reduce, Reuse and Recycle. These are words we have had bashed into our brains growing up. We all know it, but how many of us consciously live this way? The best way to make small changes in your own lives is to emphasize the first two words of this motto: Reduce and Reuse.

Reduce: decrease the amount of water you use, how many paper towels you use to dry your hands or the number of napkins you grab at a fast food restaurant that you end up throwing away without having used. Think about how all of the waste you produce accumulates in a landfill, how we leave a wake of destruction behind us throughout our lives. If any of you have seen the documentary "Garbage: The Revolution", you know what I am saying. And for those of you who have not seen it, I suggest doing so.

Reuse: think twice before throwing something away. Could you use that plastic fork from the C&D again? Or give away those old clothes to the Salvation Army? Or have your broken toaster fixed instead of simply buying a new one? The banning of plastic bags in large cities is becoming ever more popular. Here in Waterloo, you have to purchase plastic bags for five cents in grocery stores. If you forget your backpack or other reusable bags and buy plastic bags, keep them. They can be reused for just about anything. And if you think about reusing a plastic bag even once more, you have doubled the lifespan

of that bag.

Only after considering reducing and reusing should we recycle. Recyclable goods are still a form of waste that take energy to process, so do not look at recycling as a guilt-free option or solution, but as a slight improvement to our regular garbage production.

There are also many products out there that are disguising themselves as being eco-friendly when they simply aren't. Since consumers are now trying to support environmentally sound initiatives, marketing is now becoming twisted to show off its products in an eco-way. At the Green Living Show, it was interesting to see many companies there were sporting products that are not environmentally safe at all. Consumers beware: look for the words "natural", "chemical free", "organic", "local" and "green" and think first about whether or not that item is in fact green.

We are no longer waiting to see the effects of our destructive habits; the effects have arrived in full force. The earth, oceans, air, and creatures of this planet are already impacted. When the world is in this condition, how can we not do everything in our power to change it? Humans cannot afford to turn a blind eye or to allow the current trend towards environmentalism to go by the wayside as if it were some superficial fad. The planet is in danger because of us. Together we do need to save the Earth; individually we need to stop hurting it even more.

**Being eco-conscious
doesn't require vegetari-
anism, big expenses, or
eating only granola.**

"Green" is Fashionable More Effort is Needed



ALEX GIROUX
4A MECHANICAL

I should start off this article by saying that I am all in favour of the recent return of the environmental movement, I just think that we're not really going about it in the right way. And for the record, I recycle, ride my bike whenever possible (i.e. when the brakes actually work), and was raised to feel guilty whenever I was unable to throw an apple core in the compost. I'm just writing this article because I'm good at being bitter.

So as you're probably all aware, a number of large grocery stores have recently started charging five cents for each plastic bag that you use. Yup, it's a start. Yup, they're diverting millions of plastic bags from landfills around the country. But here's

why their efforts amount to a very small drop in an Olympic swimming pool sized bucket. Remember the three R's? Reduce, reuse, and recycle? Reducing the number of bags in landfills is great, but if you take a walk around any grocery store, you'll see shelves and shelves of plastics, cardboard, and foil wrappings. Think all that's recyclable? Well, the cardboard is, and some of the plastic. It shouldn't just be the grocery stores making an attempt to reduce plastic in landfills, it should be the responsibility of the manufacturers to reduce the amount of packaging on their products. And that's not even considering the amount of energy that goes into making boxboard to make that pretty colourful box for your granola bars.

While I'm on the subject of grocery

stores, here's another pet peeve of mine: a lack of local produce. Last term, I promised myself that I would buy only Ontario or Canada grown apples, and I would make an effort to find other local produce. Now I love apples, and I knew that because of our wonderful Canadian climate that consists of 9 months of winter and three months of poor sledding, I was going to have to get creative with what I was buying.

All I can say about that is, WOW. Can someone explain to me how, exactly, organic apples that have been shipped from South America are better for you and the environment? But it's trendy, that's what it is. In the past couple of years, being "green" has become fashionable. But I ask you, does buying a grocery bag because it's the "cool accessory of the season" really

sound so green to you? Sure, some people will argue that every person convinced to make the switch to plastic is a step in the right direction, but I don't agree. A person who's convinced to start a compost bin and educated on how to go about it is a step in the right direction. A person who puts their car away for the summer and bikes to work instead is another step. But charging a measly nickel a bag? Yeah, it might change some people, but by and large, at five cents a bag, the extra cost is not going to convince people to switch.

Small changes can and do work. Plastic bags are less and less common. But what the small change consists of is just as important.

I'll reevaluate my position once grocery stores stop carrying things that are double or triple packaged.

But maybe I'm just being cynical.

Now if you'll excuse me, I have some kids to chase off my lawn.

**Small changes can and do work, but
what they consist of is just as important.**

HOETS

MOVIE SCHEDULE

SHOWINGS BEGIN AT NOON

Thursday June 4 House	Friday June 5 Bartender's Choice	Monday June 8 Serenity Day After Tomorrow Resident Evil	Tuesday June 9 Duckman: Private Dick/Family Man	Wednesday June 10 The Great Escape The Shawshank Redemption Oh Brother Where Art Thou
Thursday June 11 It's Always Sunny in Philadelphia	Friday June 12 Bartender's Choice	Monday June 15 Scent of a Woman The Departed The Pursuit of Happyness	Tuesday June 16 Flight of the Conchords	Wednesday June 17 Star Wars Original Trilogy Marathon

Living in Random Far-Off Places



STUART PEARSON
2B CIVIL

So the school term winds down and you're off to co-op. What? All your friends are working in Toronto, and they're sending you to some far-flung rural Saskatchewan community? Fear not, the next four months could be one of the best experiences that you've ever had. One of the unique parts of being enrolled in a co-op program is that it gives you the chance to work in a variety of locations all around the world, should you so wish. All of my work term experiences have been outside of Southern Ontario, and I am extremely grateful to have had these opportunities.

During my first work term, I was sent to a remote construction site 200km south of Fort McMurray, Alberta. It was daunting to fly all the way across the country and work in the middle of nowhere, and I *mean* the middle of nowhere. From the tiny airport in Fort Mac, it was a further two hour drive to my site, over bumpy dirt roads and through seemingly endless forests. On my most recent work term, I worked on the construction site in North Bay, Ontario. Slightly closer to civilization than Fort Mac was, North Bay is actually less than a four-hour drive from Toronto, but that's still far enough for me.

Finding Places to Live

During my first work term, I stayed in a work camp on the construction site itself, living in a trailer provided by my employer. When I worked in North Bay, I rented out the basement of a young family. If at all possible, consider finding living arrangements with one of your co-workers or another co-op student in the region. It can make life in a new town a lot easier to handle if you have other people your own age to hang around with. Kijiji is a good place to start looking if you need accommodations (www.kijiji.ca).

Having a Social Life

In a remote town, the issue of finding something to do with your time is considerable. Join a gym to stay in shape or take up a sport! The temptation to retreat

to your room every night after work and waste away in front of a computer can be significant. Alternatively, you can take the opportunity to catch up on your reading!

If you're determined to stay in touch with loved ones while away and don't want to rack up colossal long-distance phone bills, consider downloading Skype. The program is free to download and easy to use, allowing users to talk for free with high-quality audio. For only about \$30 per year, you can even have the option of unlimited calling to land lines from your computer. This goes over extremely well with parents, let me tell you.

Travel

The opportunities for travelling on co-op are almost endless. When I worked in

Fort McMurray, I was able to fly all the way to Alberta, which was a unique experience for me. Many companies will even pay to help you relocate for your work term. When I was in North Bay, I was able to borrow my parents' car to help me commute. Given my lack of wheels in Waterloo, I jumped at the opportunity and ended up driving all over the province on my weekends, putting almost 15,000km on my mom's car before the term was over. If you have access to a vehicle, then your work term is a great time to make the most of it and travel.

One of the obvious downsides to working far away is loneliness. It can be a difficult adjustment to make if you're not used to living away from home, but it's something that you will get used to with time. The thing about living without your friends for four months is that it really puts life into perspective - you will appreciate being back at home or in Waterloo that much more when you return.

Regardless of your personal experience, some of the most interesting jobs can be found in remote locations, so give it a chance! You might actually learn a lot! It can certainly beat getting stuck in a Mississauga office block for an entire term. In the current economic climate, it can be tough to find jobs, so even if you get sent to Tuktoyaktuk, go for it, because your other options may be slim. Now's your chance, while you still have your youth! At the very worst, it's only four months, so your pain will be short-lived and you'll be back in Waterloo before you know it.



A beautiful spring day in Tuktoyaktuk.

This Title Has Nothing To Do With This Article!



CHAD SEXINGTON
3.5N MANGINEERING

Well Hello Sexy Readers!

It's time for another new term full of excitement and adventures!

Summer is here, and with it come many changes and surprises. The Silver Spur has vanished, we've got a new graduating class, modifications to the campus and the city are in full swing, and many other things besides. You might think you're a little older, a little wiser, a little sexier, and a little crazier with each passing day, and you're probably right.

Though it looks like much has changed, appearances can sometimes be deceiving. Like the ferocity of a mongoose, or the jolliness of a lumberjack with a large beard, things are not often what they appear to be. People and places can often surprise you in ways that you never thought possible.

Often times I am reminded of this oh-so-forgettable truth (otherwise it wouldn't be a surprise) when I return to visit my home (let's call it Sexyville). Between last term and this term, I returned to Sexyville to visit my family and friends for a week to do some quality trim-work on my beard. While I was at home in my log cabin, sharpening my scissors, I heard a slight rapping at my door. It was my

good friend, let's call him MC Pastaman. "Yo Sexington, what Up? You got a tree that I can cut?" asked P-man. "Well", says I, slightly taken aback and mostly taken aforward, "I was about to go out and get some firewood with my axe, you can come along". P-Man looked up at me and his smile was wider than my largest axe-blade. He wanted to learn the art of lumberjacking. So we went out to my yard and each chopped down a mighty tree. Pastaman again surprised me by taking down his tree in only 100 swings, which is pretty good for a first timer. "Thanks Chad", he said to me later on as we devoured manly-sized stacks of flapjacks next to our roaring fire (it was still winter in Sexyville), "I've always

wanted to do that."

And so you see sexy readers, I re-learned a valuable lesson that day: some of your friends could be just a little quirkier than you thought, want to try new things, or take a really long time to axe down a tree. They might just be waiting to surprise you, and all you have to do is take a second look at them and ask "Could everything I see you as be all there is to you?" But no matter what it is that surprises you about them, you might not ever be as surprised as I was during writing this to find that lumberjacking is not a word corrected by MS spell check.

Until Next Time,
Stay Sexy!



Do you like to design/write/present/argue?



Waterloo Engineering Competition (WEC)

Winning teams receive prize money from the Sandford Fleming Foundation

Over \$3500 in prizes to be awarded!

The WEC will be held from

June 22-27

Information/register/volunteer at wec.uwaterloo.ca

The WEC is a partnership between EngSoc and the Sandford Fleming Foundation

Winology 102

(Prerequisite: Mixology 101)



AMANDA LEDUC
2B MANAGEMENT

The world of wines is vast and exciting, yet it has been mostly unexplored by engineers. It is high time that we leave our barley beverages behind to learn about wine!

For centuries, wine has been made from two simple ingredients: grapes and yeast. The yeast is a living organism that feeds off of the sugars in the grape juice in a process called fermentation until all of the sugar has been consumed. During fermentation, the sugar is converted into alcohol and carbon dioxide. The type of yeast and grapes used determines the type of wine produced. Most wines are between 11% and 13% alcohol.

With the many varieties of wine available, how ever do you choose? If you have ever walked into the LCBO looking for wine, you will notice that there are thousands of bottles of different types of wine.

So what does “dry” or “sweet” mean, what are those numbers in brackets on the price label and what do the different colours mean?

Two adjectives are generally used to describe wine: dry or sweet. Sweet is fairly straightforward and intuitive. But how can a wine be “dry” when it is clearly a liquid? Dryness doesn’t mean sour or bitter, rather it is simply the absence of sweetness. Dry wines are typically “stronger” tasting and are more full-bodied than sweeter wines.

When you’re in the LCBO or at restaurant, how do you tell how sweet or dry a wine is? At the LCBO and on many restaurant wine lists, you will find a number, generally between 0 and 3, in brackets beside the name of the wine. This number indicates the sweetness. Zero means very dry and three is quite sweet for a typical wine. The scale goes up past 30 for dessert wines but that’s a whole other topic.

Wine falls into five main categories: red, white, rose, sparkling and fortified (red, white and rose are typical wines, sparkling and fortified are less common).

Red wines are typically the driest and almost always have sweetness ratings of 0 and sometimes 1. They are the strongest tasting and most full-bodied of the typical wines.

White wines are lighter tasting than reds and tend to be a bit sweeter. Their sweetness ratings can be zero but are usually 1.

Rose (pronounced rose-eh) or blush wines are the sweetest of the typical wines and tend to have sweetness ratings of 1 to 3. They are also the lightest and fruitiest tasting of the typical wines.

Sparkling wine is a bubbly wine and is widely known as champagne, but this is usually false. Champagne is actually a type of sparkling wine since all champagnes are sparkling wine but not all sparkling wines are champagnes (got it?). The sweetness of a sparkling wine can vary greatly depending on the type you choose. Sparkling wines are typically white, but also come in red or rose.

Lastly, fortified wine is a huge category that encompasses dessert wine such as icewine, late harvest wine and port to

name a few. It can also include sherry and vermouth. Fortified wines are extremely sweet and are generally not intended to be drunk alongside a meal; rather, they should be sipped before or after a meal in small quantities to enjoy the flavour but not to be overwhelmed by sweetness.

There are also “wine beverages” which do not really have a defined category. These are very sweet, low in alcohol (4%-7%) and are mixed with juice. If you are not a regular wine drinker but would like to try wine, I recommend easing your taste buds into the flavour of wine with one of these wine beverages. The most common brands are “Wild Vines”, “Boone’s” and “Arbor Mist” and they mostly come in various flavours of fruity zinfandels.

I hope you enjoyed your first lesson in wine and may you now have enough knowledge to choose a good wine on your next trip to the LCBO or a restaurant!

Cheers,
Amanda

The Brew Man Group: Corporal’s Bitter Brown Ale



DAN ARMSTRONG
3A MECHANICAL
NEIL PARTRIDGE
3A CHEMICAL

For this segment of The Brew Man Group, Neil decided he wanted to review Rogue Brutal Bitter, a brew from Oregon that he maintains is a perfectly balanced, delicious beer. Dan thinks Neil is a tool and that the beer is a one-note hop-bomb. Regardless, the LCBO has decided to stop carrying Brutal Bitter and we did not want to entice our readers with another unattainable beverage. For that reason, we went and selected a bitter that is most definitely available here in Waterloo: Corporal’s Bitter Brown Ale from Scotch Irish Brewing.

Neil: Scotch Irish is a craft brewer that can be commended for producing several quality beers. Originally owned and operated by renowned brewmaster Perry Mason and operated from a small suburb west of Ottawa, Scotch Irish was bought out by Heritage Brewing in 2006 but maintained its distinct branding and recipes. Follow-

ing the turn-over, Scotch Irish’s continuing success as an Ontario Craft Brewer allowed for an expansion into central Ottawa. Scotch Irish produces several notable ales, specializing in traditional English styles such as India Pale Ales (IPA), sessions, porters and stouts. So far I’ve only tried the IPA but it was quite delicious. I’m interested to see if Corporal’s Bitter Brown Ale can live up to my expectations.

Dan: As the name says, this beer is a bitter brown ale. Like with many of today’s ales, this style originated in England and has been in production in one form or another for hundreds of years. Brown ales are aptly named for their rich brown colour, which is derived from the darker malts chosen for their brewing. Typically, the dominating flavour in these beers is a sweet maltiness with caramel, chocolate, and nut character (this suddenly sounds like a chocolate bar). The ‘Bitter’ in Corporal’s Bitter Brown Ale is warning you, however that they most likely proceeded with the American tendency to take what the English did and add a whole bunch of hops to it. Note that this is not necessarily a bad

thing, as additional hops can add a whole new dimension to a fairly plain brew. I’m just hoping this is more interesting than the aforementioned Brutal Bitter.

Neil’s thoughts: Being a big fan of bitters, I was really looking forward to ~~Rogue Brutal Bitter~~ Corporal’s Bitter Brown Ale. From the claims on the label, I was expecting a pronounced hopped beer, hopefully complemented with citrus or earthy undertones. Dan swears he smells/tastes these flavours, but for me, they were simply not evident enough to overcome the hops. Perhaps the onset of allergies and a frequent assault of coffee can be attributed to my lack of “complexity”, or more likely, Dan is a lying, pretentious D-bag. With that being said, Corporal’s Bitter Brown does succeed in balancing a traditional malty fore-flavour against the distinct hopped background. This might be an ideal transitional beer for those unfamiliar with the stronger IPAs and Extra Special Bitters (ESB). This brew might serve as a decent summer session beer, although at 4.3% you should anticipate drinking copious amounts if your objective is to get a little tipsy (like

Dan after one Bacardi Breezer). [3/5]

Dan’s thoughts: Neil’s just bitter that we didn’t drink his bitter of choice. Anyways, first I want to give this brewery some praise for using the vintage stubby bottles for each of their beers (and I would like to scorn Brick for discontinuing this practice with Red Cap, but I’ll go on a Brick rant at a later time). This beer is lighter in colour than most brown ales but still looks quite appealing. Its bubbly head lets you get a good whiff of hops, caramel, and citrus. The taste is pretty remarkable; it starts with sweet caramel and nuts and leads into grapefruit and hop bitterness with just a touch of coffee. Screw Neil, this is more complex than √-1. I’m really amazed at how much flavour they pack into this beer at only 4.3%; definitely the mark of a skilled brewer. Overall, the beer is not as malty as I would expect from a brown ale, but the bitter aspect worked far better than I expected. [4/5]

Recommended for consumption if you enjoy: Newcastle Brown Ale, Mill Street Tankhouse Ale, Fuller’s ESB, Elora ESB
Props to hops // Dan and Neil



Sandford Fleming Foundation

Professionalism.
Leadership.
Communication.

There’s more to an engineering education than engineering.

Congratulations to

*Erin Antcliffe, Mechatronics Engineering
2009 Winner of the John Fisher Leadership Award*

The winner receives \$2,000, a framed certificate and a citation.

The John Fisher Award for Leadership is made to a student graduating from the undergraduate program who has shown outstanding leadership throughout his or her academic career in activities that relate to engineering education. The Award was named in recognition of the contributions to the work of the Foundation by former Chair Dr. John Fisher.

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

COMMUNITY EDITORIAL

Thumbs Up/Thumbs Down



Thumbs down to pollen. I want the trees to stop having sex in my nose already!



Thumbs down to the non-sequential numbering system of DC cubicles.



Thumbs down to people who show up to class fifteen minutes late. Get some freaking alarm clocks, people!



Thumbs down to OMGUW for not updating in a while.



Thumbs up to the door renovations in DC. But why did it take them nearly twenty years to figure out that the doors sucked?



Thumbs down to short term memory loss.



Thumbs up to the plugs in DC basement.



Thumbs up to short term memory loss.

Stag Party

LEAH SICZKAR
1B ENVIRONMENTAL



The Iron Sudoku

MATT CASSWELL
2B CIVIL

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

The Iron Chef Microwave Bread Pudding

AMRITA YASIN
3A CHEMICAL

Ingredients:

- 4 slices bread, cut into cubes
- 1/4 cup brown sugar, packed
- 1/4 teaspoon salt
- 1/2 cup raisins
- 2 cups milk
- 1/4 cup butter or margarine
- 2 eggs, beaten
- 1/2 teaspoon cinnamon

Directions:

1. Place bread cubes in 8" round dish.
2. Sprinkle evenly with brown sugar, cinnamon, salt, and raisins.
3. Add milk and butter into a cup. Microwave at High for 2 minutes, or until butter is melted and milk is warm.
4. Rapidly stir in eggs with a fork

and mix well.

5. Pour over bread cubes in dish. Microwave at Medium-High (power level 7) 9 to 12 minutes.

6. When cooked, let it stand for a while (5-10 minutes) for the pudding to set up. Serve warm or chilled.

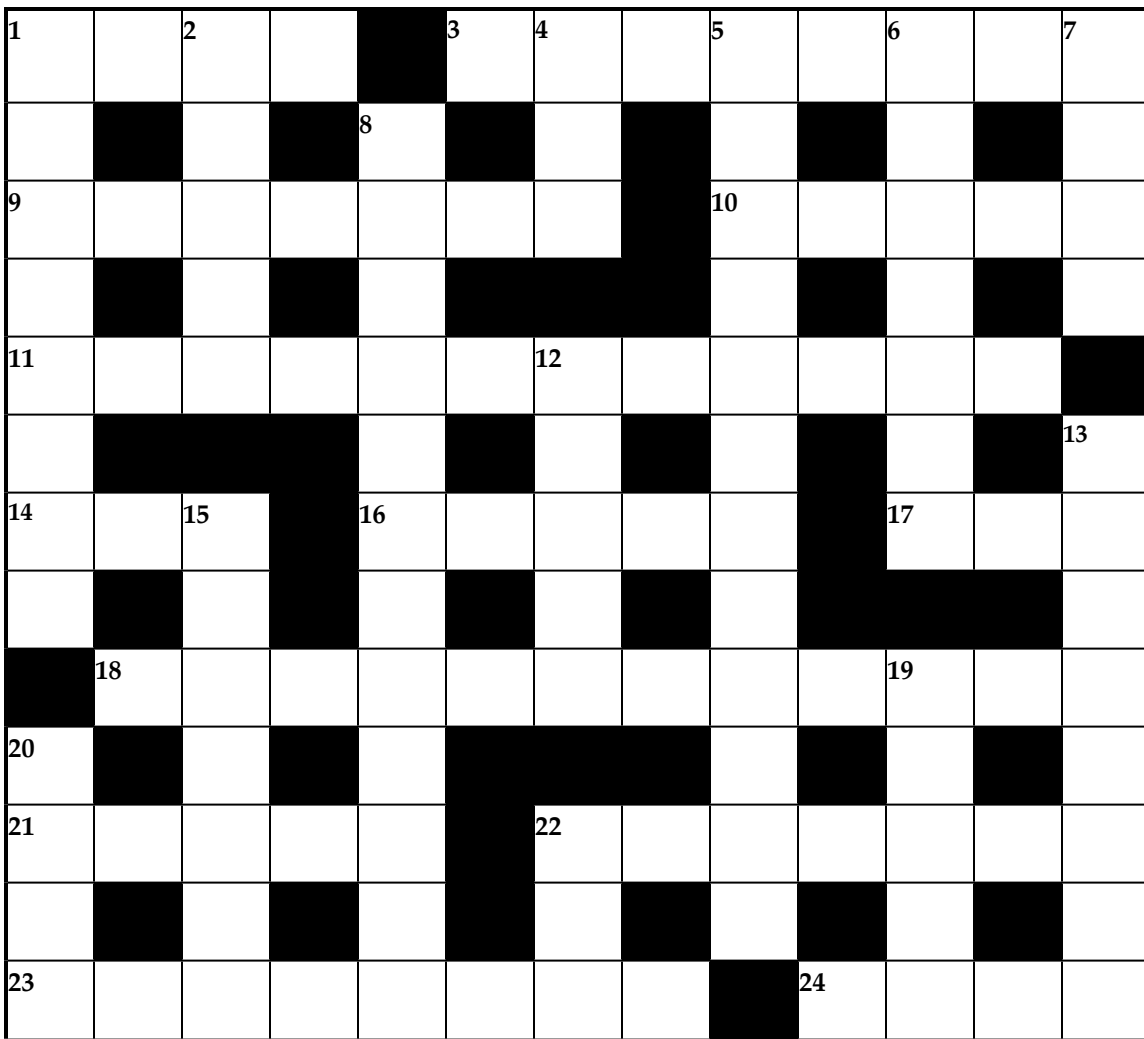


Issue 1 Crossword Solution

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

The Iron Crossword

MATT CASSWELL
2B CIVIL



Clues

Across

Down

1. A pink or white-coloured sparkling wine from Catalonia, Spain
3. Lee Harvey Oswald and James Earl Ray
9. Engineering's Top Model (for leather jackets)
10. This one, named after Welland, connects Lake Ontario and Lake Erie
11. Having experience, knowledge, or having gained full status
14. A club on Marsland Dr in Waterloo
16. Malicious burning to destroy property
17. A pig goes "oink." A cow goes...
18. Where Robert Thirsk is right now, and will be for 6 months
21. Thickness
22. To contaminate the air
23. An advocate of the principles of monarchy
24. Breakfast, lunch, and dinner

1. The best part about going camping is to have one of these
2. Describes a video on YouTube than gains sudden popularity, and is watched by millions in a short period of time
4. Justin is this to Pierre Elliot Trudeau
5. To do something by mistake
6. American electric home appliance company that owns CrockPot
7. A non-existent set of values; zero
8. Scientific name for Rubbing Alcohol
12. A set of tasks or items (pl.)
13. Flour ground from dried corn
15. Lacking liveliness (adv.)
19. To become accustomed to something unpleasant due to prolonged exposure
20. A decorated pitcher
22. The building on campus that was meant to be designed like the human brain

profQuotes

- "I really want to make this guy wet! ...That's dirty, eh?"
- B. McKillop, CIVE 280
- "I hesitate to draw this gauge... cause I know it'll turn phallic"
- M. Collins, ME 250
- "Why is everyone leaving? In a job, you might have to stay until 5 PM on a Friday. Of course, it's now hard to get a job"
- J. Medley, ME 212
- "Cross products were invented so I could do this"
- J. Medley, ME 212
- "I only write all these terms for the sheer joy of canceling them out"
M. Ioannidis CHE 322
- "...rate of change of anything with respect to anything that anything relates too"
- S. Yerusevych ME 303
- "AH-COM-OH-DATE. Big word. Write it down."
M. Ioannidis CHE 322
- "They say 'I don't know' using Greek. It sounds much more intellectual."
- Larry Smith, ECON 102

Lateral Thinking Challenges!

1. Acting on an anonymous phone call, the police raid a house to arrest a suspected murderer. They don't know what he looks like but they know his name is John and that he is inside the house. The police bust in on a carpenter, a truck driver, an engineer and a fireman all playing poker. Without hesitation or communication of any kind, they immediately arrest the fireman. How do they know they've got their man?
2. You are a bus driver. At the first stop of the day, eight people get on board. At the second stop, four get off, and eleven get on. At the third stop, two get off, and six get on. At the fourth stop, thirteen get off, and one gets on. At the fifth stop, five get off, and three get on. At the sixth stop, three get off, and two get on. What color are the bus driver's eyes?
3. A black man dressed all in black, wearing a black mask, stands at a crossroads in a totally black-painted town. All of the streetlights in town are broken. There is no moon. A black-painted car without headlights drives straight toward him, but turns in time and doesn't hit him. How did the driver know to swerve?

Answers: 1. The fireman is the only man in the room. The rest of the poker players are women.
2. Whatever color yours are. You're the bus driver.
3. It's daytime; the sun is out.

THE IRON INQUISITION

"What would you like to see changed in the CPH Foyer?"

Michelle Croal, 3A Chemical



Ben Lin
3A Computer
"Lace it with diamonds!"



David M.
Mechanics
"Cheery colours and skylights!"



Eduardo Gomez
3A Mechanical
"Get away from the 1970s Brutalistic Architecture"



Gary Cheung
3A Chemical
"A table that gives out free cookies..."



William Robichaud
3A Mechanical
"Multiple wall mounted TVs with news, sports and stocks."