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THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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Five Years Culminates in a Day of Glory for Grads

MICHAEL SELISKE
1B COMPUTER

Saturday, June 14th, marked a day that the Frosh of 2003 had been looking towards for nearly five years, as the members of the Faculty of Engineering's Class of 2008 were conferred their degrees inside the Physical Activities Complex. Saturday was the final day of convocation ceremonies as Engineering capped off four days that saw thousands of students get their hands on their University of Waterloo degrees. The Engineering ceremony was split into two, with undergrads in Chemical, Civil, Environmental, Geological, Mechanical, and Mechatronics Engineering receiving their degrees in the morning and Computer, Electrical, Software, and Systems Design Engineering receiving theirs in the afternoon.

The ceremonies featured an inspiring opening speech by UW Chancellor and Research In Motion CEO Mike Lazaridis, who spoke of something irreplaceable and invaluable that he carries around with him wherever he goes. "No, I don't mean my BlackBerry – I'm talking about my University of Waterloo education," he said to laughter from the crowd.

Lazaridis, who in his capacity as founder of RIM has given tens of millions of dollars back to UW, told the school's newest alumni the importance of giving back to the school.

The valedictorians for the Faculty were Greg Fitzgerald of Mechatronics for the morning ceremony and Mike Spendlove of Systems Design for the afternoon ceremony. Each talked about the long way they and their fellow graduates had come over the past five years, and the great accomplishments – academic and otherwise – they had achieved. Spendlove finished his speech with an appeal to his classmates to take on leadership roles and make the world value engineers more than ever. "We have the metal on our hands, and we have the mettle in our hearts. Let's show this world the real meaning of ERTW," he said, subtly referring to the famous Engineers Rule The World slogan that was also the theme of the 2007 Frosh Week.

After the valedictory address, the co-chairs of the 2008 Graduation Committee got on stage to make a presentation to the Dean of Engineering, Dr. Adel Sedra. They were carrying a giant cheque made out to the Faculty worth \$221,517.00, all part of the Plummer's Pledge that this

year's graduates have made to give back to Engineering. The Class of 2008's pledge far surpassed last year's, and also beat the Faculty of Math's Pink Tie Pledge from their graduates by over \$30,000.

A special presentation was also made in the afternoon to Dean Sedra by John Challice of the Oxford University Press in honour of the sale of the one millionth copy of Microelectronic Circuits, a textbook he co-wrote with his former colleague at the University of Toronto, Kenneth Smith, who was also present. Sedra will be taking a one-year sabbatical as Dean on July 1st to work on the sixth edition of the textbook.



Michael Seliske

Current students can take to heart the fact that whether it be one or even four years until their convocation, the day will eventually come when you will be standing in the PAC with a robe waiting to hear your name called to go on stage and receive your own invaluable piece of paper, a degree from this prestigious university.

Quantum-Nano Centre Groundbreaking

OM PATANGE
3A NANOTECHNOLOGY

As students played Frisbee on the B2 Green, dignitaries, faculty, students all gathered under a white tent on that same field marking the beginning of the end of the B2 Green and an exciting phase of the most ambitious project ever undertaken at the University of Waterloo.

On June 9, 2008, UW Chancellor, Research in Motion founder and co-CEO Mike Lazaridis, together with Ontario Premier Dalton McGuinty, UW President David Johnston and other distinguished guests officially broke ground on the university's newest building. This is none other than the \$160-million Mike and Ophelia Lazaridis Quantum-Nano Centre, an establishment which promises to be the new centerpiece of campus.

In his opening address, President Johnston highlighted the fact that the realization of the QNC has, "...taken a little time simply because it's a very, very complex building." The completion date has been steadily pushed back from sometime in 2009 to its current estimate of sometime in 2011. The building will have a square footage of nearly 285,000 sq. ft. Of this, 10,000 sq. ft. will be a class 100 and class 1000 clean room, and a total of 17,000 sq. ft. will be devoted to a state-of-the-art nano-metrology and nano-fabrication lab.

The Centre will house up to 400 academics split evenly between the Institute for Quantum Computing (IQC) and the Waterloo Institute for Nanotechnology (WIN). Some sources of funding for the \$160 million cost are \$22 million from the Lazaridis family in

addition to their numerous other donations to research in Waterloo, \$50 million from the Province of Ontario, and \$21.5 million from grant and tuition revenue from the Nanotechnology program.

Johnston went on to say, "The [Undergraduate Nanotechnology Engineering] program is the capstone of nanotech research at the University of Waterloo." Despite this fact, there was one demographic that was glaringly underrepresented among the attendees of the ceremony – the students of the Undergraduate Nanotechnology Engineering program. Indeed, the three classes of the program that are on campus currently were not informed directly of the ground breaking ceremony.

Former Minister for Research and Innovation and current Premier of Ontario, Dalton McGuinty spoke next about the role the provincial government is playing in making Ontarians more competitive. He described a five-point plan which includes reducing business taxes, investing in innovation, investing in infrastructure, investing in greener industries, and most importantly investing in building the skills of Ontarians. As an example of the last point, McGuinty said the operating budget of UW has been increased by 15% since 2003.

Following his presentation, McGuinty led a standing ovation for Mike and Ophelia Lazaridis as they took the podium that lasted nearly a minute, showing the deep gratitude this community feels towards the Lazaridis family.

Mike Lazaridis described how the Mathematics and Computer building was the most ambitious building when he first came to campus, housing one of the world's larg-



Mike and Ophelia Lazaridis unveil the plaque that documents the groundbreaking of the Quantum-Nano Centre which will be named after them.

est supercomputers at the time. This feature helped attract him to study at UW, as well as a host of other bright students interested in computing. Lazaridis expects the construction of the QNC will have a similar effect, attracting the best and brightest students and faculty to Waterloo leading to a virtuous cycle of innovation.

To illustrate the need for an initiative such as the QNC, Lazaridis took the audience back in history to a time when vacuum tubes were used as the basic building block in electronics and computers. These systems had reached a point where with further optimization, Lazaridis described, "...we realized that we were coming up against physical limits,

and thermal limits, and basically quantum mechanical limits...in that ever increasing process to make them smaller and better and cheaper we discovered the semiconductor junction...instead of fighting physics...we embraced the semiconductor and that has generated 50-60 years of unfettered industrial growth and wealth creation."

"We are approaching a very similar time... rather than fighting quantum mechanics as we shrink these [semiconductor] components down, we need to embrace it," said Lazaridis.

**See NEW ERA OF INNOVATION
on Page 4**

Letter from the Editor

On Stereotypes and Prejudices



SUNNY NG
EDITOR-IN-CHIEF

I guess this is the little corner that I get to form my own opinions on the paper. Let's start with the positive. I don't think I can express in words how proud I am of how this paper has been turning out for the last couple issues. This was especially true with the variety of content we published in just our previous issue. I hope you also like the bold new direction we're taking, feel free to let us know. Your opinions are important to us. Our e-mail is at iwarrior@engmail.uwaterloo.ca.

Last week, to celebrate its 30th anniversary, *Imprint* invited representatives from various student media to get together and promote campus media in the SLC Court-yard. In attendance were of course *Imprint* (giving out cake!), *The Boar* (giving out cupcakes!), CKMS (giving out pins and other promotional items!) and *The Iron Warrior* (giving out... ummm, copies of *The Iron Warrior*?). I would like to thank my dedicated volunteers for helping me out to "person" the booth, rain or shine. The event went well and we even had some friendly rivalries, as our volunteers ended up throwing paper airplanes (made with pages of *Imprint*, of course) at *Imprint*'s booth! We would like to congratulate *Imprint* for their 30th anniversary and we would like to thank them for organizing such an event as an opportunity for campus media to get together.

On an entirely different note, I would like to take the opportunity to bitch about my frustration with people during midterm week, or maybe just people and their general (lack of) sense of responsibility. It's hard enough on my part to have a production weekend land right before midterms on the coming Monday and Wednesday. To make matters worse, I had to deal with late submissions galore. This already adds to the list of article ideas and expected submissions that fell through without advance notice. I'm not usually that strict on deadlines, but this is really testing my patience, not to mention I'm wagering my grades for this. And you know what, I don't need this. As much as I wish it was true, the world doesn't just stop during midterm week (or weeks since different departments have them on different weeks now). Things still need to get done, it's just a matter of *who* is going to get them done. You have no idea how many strings I had to pull in order for this issue to be able to come out. I want to give extra thanks to my contributors this week for coming through. Several of them were able to help me out even though they've never written for me before.

Today, the Engineering Society executive nomination period begins. I encourage everyone to get involved and get educated on the issues and positions available. Although it was mandated that the current execs were to include a blurb of what each position entails to be published in *The Iron Warrior*. I'm sorry to break it to you, but you won't find it here. I'm not pointing fingers here, because I do think that overall the current executive has done a tremendous job during their term; but I do believe it's rather unfortunate that the façade of the Engineering Society being "cliquey" is not properly dismissed as it should (however, I do have to give props to VP In-

ternal Cat Hay for doing her best to promote EngSoc to the whole student population with her constant class visits). Maybe I should've known better than to not take an extra week break during midterms, but I hate to admit that it is my fault when I'm actually doing what I'm supposed to do. Anyway, enough of my bitterness. I could go on forever with my criticism about how students of UW are too academically-focused, but nobody wants to read that. Let's move on.

So anyway, for this editorial I decided I would continue to write something personal. I want to switch it up and talk about something a bit more serious, and with Pride Week happening this week in Toronto, it's only appropriate to discuss diversity.

Prejudice and stereotyping. Admit it. You do it. I do it. Everybody does it. My parents who are *first-generation immigrants*, who never waste a single opportunity to pull out the race card when things don't go their way – *they* do it. Believe it or not, we *all* do it.

Consciously or sub-consciously, we often make judgments of others with regards to their race, culture, gender, sexual orientation, religion, political affiliation, income, education level, etc. We do it because it's easy. It's easy to make assumptions about things you see without looking at the entire picture. Many times, we don't even try to find out more because we're afraid of being wrong.

Often when people think of prejudice, they think of racism or sexism. While they are very valid and can be thought of as the most prevalent examples of prejudice, it's a common mistake to think that those are the *only* cases of prejudice in society. I won't go too in-depth on those two here since there are two other articles in this issue that deal with that already.

As a 1.5-generation immigrant myself, I can speak from experience about the kinds of prejudice from other cultures that you may not think about. I recall a few weeks ago I was having lunch with my parents at a local Chinese restaurant in Mississauga when we bumped into some of my parents' acquaintances. My mom is a real estate agent and my dad is a driving instructor (yes, an Asian that teaches people how to drive, hardy har har...), so often their clients are local residents of the community. For this reason, they always feel the need to have to put up an image.

So anyway, this acquaintance of theirs was commenting how grown-up I have become (I guess she hasn't seen me in a while) and jokingly said that I must be making lots of money now. I jokingly responded saying something along the lines of, "Nah, more like I'm buried in student loans now!" My mom gave me an evil stare, signaling that I probably said something I shouldn't have said.

Apparently in our culture, it is common for people to judge others based on their financial situations. The idea seems awfully strange and foreign to me; especially since I was joking (although it was true, but still), and it's not like I was asking for sympathy. It's common for students to take out loans for tuition. In fact, isn't it a *good* thing for parents to have children who are independent? Not to mention it really isn't anybody else's business. You might think that my parents are paranoid for thinking like that, but it actually has happened to them before.

Sexual orientation is another one that de-

serves attention. It's a common perception to think that those who are in the LGBT community to be pushing some kind of "gay agenda," and they should keep everything to themselves. While it's true that who you're sleeping with is really nobody's business, on the flipside, would you be pushing some "straight agenda" if you're talking about what you did with your girlfriend last weekend if you're a guy? So why can a guy not refer to his boyfriend in everyday conversation? And really, the thought of using the word "partner" to describe a significant other in a normal everyday conversation just makes me cringe.

Then there's the whole political correctness business. Don't even get me started on the whole supposed "controversy" with GradComm's Slave Auction. Yes, it's nice and it's a common courtesy to try to use words that do not offend anyone. But to me, it seems like people who are keen on making *everything* politically correct (and make a big deal when others don't) are the ones who are insecure about their own prejudicial views, and do anything to hide it. I'm sorry, but simply using a different set of vocabulary does not automatically make you non-judgmental.

I recall something I heard from motivational speaker Sunjay Nath at one of the many leadership conferences I attended back in high school. During one of his talks, he mentioned the perception of others. I'll paraphrase this because it's been four years since I've heard this, so any direct quotes would be totally inaccurate, and I wouldn't want to do him any injustice, so please bear with me. He said that often when we look at people we aren't familiar with, we group them together, focusing on their similarity. Yet, when we look at people who we know very well, we focus on differences.

For instance, say you're walking around on campus and you see a group of people you've never met before, just hanging around. What are you thinking? You're probably thinking of a label that includes all of them. The label may not even carry a negative connotation. It could be something like jocks, frats, or preps. But no matter what the label is, you're making assumptions about them, thus associating them with a stereotype.

Now let's look at another scenario, you are at the mall with your best friends just hanging out. You talk amongst yourselves and you met this girl who you just met in class the other day. You introduce her to all your friends and you may even give a brief description of each one of your friends to her. And what do you focus on? The differences. When you're with a group of people you're familiar with, you'd like to think you are all unique and focus on differences.

The truth: we are all different. Why can we not look at strangers the way we look at our friends?

I'd like to think we should approach this problem of prejudice and stereotyping similar to dealing with a substance-abuse problem. The first step is to admit that you do indeed have these views. When these views come up, before jumping into conclusions and react, take a deep breath and take a step back. Try to understand before making judgments. As cliché as it sounds, everyone does indeed have a story to tell, it's just a matter of whether or not you're willing to listen to it.

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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.

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Farm Market Comes to UW Campus



EVELYNE RUSSELL
3A ENVIRONMENTAL

The first UW Farm Market of the term was held on Wednesday in the Student Life Centre basement. All the produce sold was bought at the Elmira Produce Auction, and the baked goods were specially made by the campus bakery. Local food has become popular in the last few years as the need for our society to develop more sustainability has become apparent.

I spoke with Heather Kelly, the coordinator, about the market's history on campus. Not surprisingly, it was the students of Environmental Studies who pushed to bring local food to campus. In this respect, the Farm Market very much reflects what students would like to have on campus. However, the execution didn't seem to meet students' needs as a tantamount in maintaining all the quaint charm of what appeals to families who spend their Saturday mornings in St. Jacobs.

While it saves time to buy food on campus, the selection was pretty small, so you'd still have to go to the grocery store later to fill out your fridge. For vegetables, there wasn't much more than lettuce, tomatoes, green onions and cauliflower. A quarter of the items for sale seemed dif-

ficult to imagine students actually buying, like the hanging baskets of flowers and the potted herbs. There were fist-sized jars of honey and jam for \$4 each, a unit price far higher than the adorable hand-made label justified. All the students I know are poor and in a hurry. We don't spend our excess pocket money on potted bouquets to decorate our homes, and then spend leisurely afternoons in our backyards growing our own basil and thyme for slow-cooked, homemade dinners. This fantasy weekend image is populated by a richer, older demographic than the campus average.

Heather Kelly mentioned there has been a lot of interest in the Farm Market from the community, and that non-student neighbours come by to do some shopping. They are certainly the target market for the less fundamental items. One aim of local food is exactly that, to build a sense of community and bring together people who seem to have become completely disconnected from one another (such as ourselves and the farmers who feed us, and ourselves from our neighbours). Therefore, it's nice that our campus is serving the community that serves us. Although, I'm sure the market could add a few tables with products to better accommodate the needs of students, while still serving the community.

The market ran until 1 PM, and I was there around lunch time. It would be cum-



Michael Seliske

bersome for me to carry around a sack full of tomatoes, bread and lettuce all day until I go home. I was hoping there would be cut-up vegetables, since I was hungry immediately. I was right below a full cafeteria, and the market did a poor job competing for my lunch money. There were brownies and croissants, but for produce, there wasn't much that could be snacked on. Even the quarts of strawberries and cherry tomatoes weren't in portions for lunch. They asked patrons to bring their own bags for shopping, and sold canvas bags rather than have those unsustainable, landfill-crowding plastic bags. By the same token, you should be able to bring your own container to fill with as many cut vegetables as you wanted, then pay by weight. There were many volunteers standing listlessly behind tables, and they easily outnumbered clients by three to one the whole time I was there. If I had handed them a knife, the idle ones could have cut up some cauliflower and tomatoes in no time. That way, we'd get to enjoy delicious local produce for lunch, without having to carry it around all day long and cut it up ourselves. Moreover, local food could easily be integrated into the existing campus infrastructure to really make campus

eating more sustainable. The CnDs have room in their fridges for a few extra boxes of veggies, best served with a sticker of a farmer giving a thumbs-up slapped on them to announce their origins. I'd definitely go for the local veggies, flavoured with social justice.

Despite these shortcomings, I'm glad the Farm Market is on campus. It's a good starting point for opening the discussion on how to make campus food more sustainable on the whole. While I do think it draws attention to the issue of community and reducing the emissions related to shipping food, the Farm Market is currently more useful as an info session than as a viable way to feed ourselves. The vegetables were reasonably priced, at \$1.00 for a head of lettuce and four tomatoes for \$1.50, yet there are other considerations. There are better ways to integrate the concepts of community food sources into campus eating. Rather than have one morning a week dedicated to the principles of community and reducing food's travel time, the UW Farm Market could work on making local food and sustainability a part of everyday life on campus.

Boat Racing Victory For Waterloo



STUART PEARSON
1T CIVIL

While not normally known for its athletic prowess, Waterloo has always excelled at the 'sport' of BOAT racing. Recently, however, our school has also proven victorious in another type of boat race: the actual nautical kind. On the weekend of June 7th, six University of Waterloo Engineering students entered in the 39th annual Krazy Kraft race held at the Unionville Festival in Markham, Ontario. Participants in the event had to design and build home-made watercraft to compete in a race around a local duck pond.

The team from Waterloo chose a design featuring a PVC pipe frame with a large canvas stretched over it to serve as the hull. Foam and plywood were added for greater stability and buoyancy. It somewhat resembled the Higgins boats used frequently as amphibious landing craft during World War II. The bulk of the craft was designed and built over the course of two weeks. The teammates convened the night before the race from all across the province in order to make final preparations.

As the name "Krazy Kraft" implies, there was more to the event than just speed or design. Each team was required to pick a theme for their boat and encouraged to pull out all the stops in designing something creative, innovative, or just plain bizarre. The Waterloo team settled on a Lego/UW Engineering theme. The group proudly represented our school, with everyone sporting matching UW hardhats. The exterior of the boat itself was decorated with a brightly-coloured shell of giant cardboard Lego blocks. A giant plastic man made out of Lego and matching t-shirts for all team members completed the set.

Nine other teams competed in the race, including a local hockey team who fashioned a raft into a miniature ice rink, complete with a net and goalie. However, their decision to paddle with hockey sticks didn't get the raft very far once the race began. One enterprising

team built a trimaran out of sonotubes filled with foam. Their design proved to be quite effective, unlike that of the hockey players. Another noteworthy entry in the race included a canoe fashioned entirely out of converted plastic garbage bins. The amount of effort put into constructing and decorating the boats varied widely, from simply rubber dinghies with streamers attached to more complicated projects like those mentioned above.

As the race began, teams crowded together at one end of the lake, jostling each other for a good position. Our team got off to a slow start due to congestion at the starting line, but once on the open water, the boat began to move at a fairly quick pace. The four Civil Engineers and two Chemical Engineers rowed hard, belting out the Engineering Hymn to keep a paddling rhythm going. A sparsely-decorated canoe manned by four burly fellows finished the race in first place. However, in the spirit of the Krazy Kraft race, the event's Grand Prize was awarded based on design and creative merit. The Legoland/Engineering theme found favour with judges and spectators alike, and our team took home a prize of \$200. The funding will help towards the cost of constructing the boat.

All in all, the event was a great show of aquatic Ingenuity and creativity by all of the participants. Thanks goes out to the festival's organizers and sponsors for putting together such a great afternoon. The team from Waterloo consisted of Kristen Roberts, Amalia Gil, Bruce Fournier, Jordan Scott, Matt Casswell, and Stuart Pearson. A special mention is deserved by project leader Kristen Roberts, who designed and constructed much of the boat by herself. What began as a somewhat ambitious idea became a fully-functioning boat in record time.

The race was a great experience, and I would highly recommend it to whoever is in the Toronto area for the summer and is willing to put in the effort. In fact, a boat-building and racing competition here in Waterloo would be fantastic. Anyone fancy a race around Columbia Lake? Don't fall in the water though, or you might just grow an extra toe...



SAVIO TSUI
4A COMPUTER

ATTENTION! In case you didn't know Canada is getting its brand new copyright laws! This new copyright law proposed by the Conservative government seeks to update what appears to be an outdated law passed in 1997. According to proponents of the new law it seeks to limit liability of the consumers for copyright infringement but also levees huge monetary penalties for piracy technologies such as thwarting the anti-copying and the (evil) DRM that we all have come to love or hate. Furthermore the bill attempts to reduce the haziness and contradictions present in the old copyright law.

So how does this bill fix things? Well, for starters existing law states that consumers are liable up to \$20,000 in penalties while the new law has effectively reduced it to \$500, but this does not apply to peer-to-peer networking and video sharing sites. Another provision allows users to record material for later viewing, and store media in different formats but under no circumstances can a user circumvent DRM to get to their content.

What the government has done is effec-

tively rendering these provisions useless. For example, ripping a music CD that has "copy protection" to store music files on your iPod is illegal. Backing up a movie from a DVD that you own on to your computer is illegal. Making a fan video of your favorite episode of House, Season 1 on DVD and posting it on the net is illegal. Unlocking that iPhone to have it work on the Rogers network that you bought to show off to everyone only to find out that Rogers is bringing the 3G version is illegal. So what gives? The rationale behind these laws is understandable. Copyright holders want to maintain the rights of their content in this digital age.

What seems to be irking most people is the fact that Jim Prentice, the Industry Minister, has pushed this new law without much public consultation. This in addition to mounting pressure from the United States from the Governor, Arnold Schwarzenegger, to the American ambassador (and not even mentioning the RIAA), has caused a large amount of controversy.

Copyright law is a tedious process requiring all parties, copyright holder, consumer and government, to make a concerted effort to clearly define the rules and regulations of the marketplace. This sensitive balancing act will have serious ramifications if left unchecked.

Going on Exchange in the Nordic

PETER ROE
DIRECTOR OF EXCHANGE PROGRAMS

What do Norway, Denmark, Sweden and Finland have in common? They all have shores on the Baltic Sea and are warmed by the Gulf Stream. They are Nordic countries; they are as far North as James and Hudson Bays. They are the sources of the ancient sagas and tales of adventure and wonder that many of us enjoyed as children.

But even more, these countries are homes to world-class Technical Universities where Waterloo Engineers can go on exchange! Our partner universities in the Nordic area all know that English is the only language (other than their own) in which they can teach and do research and compete on the world stage. So, there are plenty of opportunities to do your exchange in English. Moreover, many of our partners offer opportunities to follow up academic terms with industrial or research attachments (often available as work terms).

So, what's available? Plenty! Are these places any good? You bet! Let's do a little tour.

Trondheim, Norway

The Norwegian University of Science and Technology (NTNU) in Trondheim has 20,000 students and offers about 30 Engineering specializations. It is ranked number one in Europe for Engineering for sustainability. It is Norway's largest Engineering Faculty, and awards about 80% of the Engineering degrees in the country. NTNU is located in Trondheim, in central Norway, where you can enjoy views of their famous fjords.

Oslo, Norway

Our exchange programme with the University of Oslo is "University Wide", i.e., not restricted to Engineering. This university is in the capital city of Norway, the centre of the country's culture, government, entertainment, history, etc. The university does not have a Faculty of Engineering, but its Faculty of Mathematics and Natural Sciences offers about 450 courses

in English. For examples, they have a Centre for Material Science and Nanotechnology, and over 50 courses in Computer Science and Software in English. Also, if you would like to get your Complementary Studies courses while on exchange, or complete the course requirements for the ISE option, Oslo could be the place to do it, since this is the oldest and largest university in Norway.

Copenhagen, Denmark

The Denmark Technical University (DTU) is located in Lyngby, a suburb of Copenhagen. We have just completed the signing of a broad exchange agreement with DTU, which, like UW, emphasizes internationalization, innovation, design and tech transfer. DTU is similar in size to UW Engineering, and has a wealth of programs, with many courses offered in English. The campus is on the road to Elsinore, Hamlet's castle, and is right where Hans Christian Andersen wrote many of his famous fairy tales.

Odense and Sonderborg, Denmark

The University of Southern Denmark (SDU) is spread through four campuses; the main one at Odense covers most of Engineering, while a new one at Sonderborg, near the border with Germany, is where students study Mechatronics and Management in Engineering, amongst other things. SDU is smaller than DTU, but has an interesting approach to Engineering Education, with a strong emphasis on teamwork, design and projects. Odense is a quaint old city about 90 minutes from Copenhagen, and is noted as the birthplace of Hans Christian Andersen.

Lund, Sweden

This is home to Lunds Universitet, or The University of Lund, our most popular exchange destination in Scandinavia. Lund is just half an hour from Copenhagen by train, and ten minutes from Malmo, serviced by cut-rate airlines that are popular for tourism around Europe. We have a lot of experience sending and receiving students from Lund, as students in many of our programs have gone there for suc-

cessful exchanges. Lund is very much attuned to university/industry relations and one can find many of Sweden's best-known brands nearby.

Finland

The University of Oulu is our most northerly exchange destination. A number of students have taken exchange work terms there in labs of the university and in related nearby industries. Oulu is the home of Nokia, the well-known cell-phone developer and distributor. We also have the opportunity for academic exchange at Oulu.

Tampere University (TUT) is the second largest technical university in Finland, with 12000 engineering and architecture students. Tampere is Finland's third largest city and one of its most popular tourist attractions. Lenin gathered his followers in Tampere in 1905, and the city has a fascinating Lenin Museum. It is said to be, in addition to a manufacturing centre for Finland, a friendly, interesting and relaxing place for tourists.

UW Engineering offers seven possible exchange locations in the Scandinavian countries, with broad academic potential and plenty of opportunity for fun and travel. The Nordic countries are very popular among European exchange students, so if you go there you will meet people from all sorts of places. The capital cities of Norway, Denmark, Sweden and Finland are all well connected to the rest of Europe (and the world), for travel, so don't think you'd be restricted to Northern Europe during your exchange. These countries are all small, so they know that hardly anyone will learn their language; hence nearly everyone speaks English and there are many courses taught in English. In fact, in some cases they will switch to English instruction on request! However, you will come back after your exchange with a good working knowledge of the host language. You will also have had "the experience of a lifetime." Visit the Engineering Exchange Opportunities website, www.eng.uwaterloo.ca/~exchange, for more information.

QNC

NEW ERA OF INNOVATION
from Page 1

Already, the Institute for Quantum Computing has more than 100 researchers working on these topics of quantum computing and quantum information, making it one of the largest dedicated institutes in the field. IQC has a proven track record of outperforming such illustrious institutions as MIT, Caltech, Stanford, and Cambridge. The successful synergy of IQC has even attracted Sir Anthony Leggett, a winner of the 2003 Nobel Prize for his work on superfluidity, to take a faculty position at the University of Waterloo.

The Waterloo Institute for Nanotechnology is of similarly high calibre with 30 existing nanotechnology faculty and 21 new positions created. It is attracting minds from organizations all over the world such as NASA, Texas Instruments, Xerox, and Nanyang Technological University in Singapore. The newly appointed director of WIN is Dr. Arthur Carty, formerly National Science Advisor to the Government of Canada and President of the National Research Council of Canada.

The actual turning of the sod followed after the Chairman of the Board of Governors of UW, Bob Harding, presented the Lazaridis' with a picture frame of the future QNC building and a blank space for a picture of the sod turning event.

After the ceremony Premier McGuinty was invited to the Magnetic Resonance Lab where Raymond Laflamme, director of IQC, explained the salient points of quantum computing. Holding a ball and stick model of a molecule, Laflamme explained how the molecules are in a superposition of states which can be used to do quantum computation. The Premier caught on quickly, realizing that we are moving beyond classical 1s and 0s.

For more information about IQC, see www.iqc.ca; the nanotechnology engineering program, see www.nanotech.uwaterloo.ca



Sandford Fleming Foundation
E2 3336, ext 84008, sff@engmail
www.eng.uwaterloo.ca/~sff

Sandford Fleming Foundation Awards

Twenty-six awards were given to students from across Engineering at the June 2008 Convocation.

Academic Excellence

- Blaise Pinaud, Chemical
- Joel Mizen, Chemical
- Mark Feenstra, Civil
- Arthur Chiu, Computer
- Patrick Chiu, Computer
- Amir-Hossein Safavi-Naeini, Electrical
- Natalia Baranova, Environmental
- Amy Adams, Geological
- Kevin Cedrone, Mechanical
- Erik Szakaly, Mechanical
- Michael Vermeer, Mechatronics
- George Gao, Software
- Michael Allison, Systems Design
- William Tang, Management Science Option

Co-operative Proficiency

- Peter Rehbein, Chemical
- Darik Gamble, Chemical
- Gerard Zegerius, Civil
- Xiao Yu, Computer
- Winnie Yang, Computer
- John Freeman, Electrical
- Neil de Laplante, Environmental/Geological
- Brian Langelier, Mechanical
- James Bertoncello, Mechanical
- Alingarathasan Paramakuru, Mechatronics
- Vance Lankhaar, Software
- Timothy Szeto, Systems Design

Funding for this award comes from your student contributions and depends on it for continuation.

A Day in the Life of June Lowe



MICHAEL SELISKE
1B COMPUTER

Every Engineering student at the University of Waterloo has had an experience with either June Lowe or Don Fraser and it was this reporter's goal to dig a little deeper into the life of one of those individuals. June Lowe is a figure you will find most often in the WEEF lab, surrounding corridors or her office across from the WEEF lab. She mostly helps out with various programming and circuits courses, and runs the CDTs (Computer Delivered Tutorials) for the Computer, Electrical and Mechanical Engineering.

What does June Lowe do when not helping someone with programming or calling someone a "dummy" for making a stupid mistake? An exclusive interview with *The Iron Warrior* reveals that she is more than just a programmer or circuits master. It all started in Beirut, Lebanon where she started her first years of university education, then continued at Ottawa U, Carleton and Queens. She graduated with a degree in Math and Physics because if you were enrolled in the Faculty of Engineering, they made you specialize – limiting the types of courses that you could take. If you were outside of the faculty you could take all of the engineering courses you wanted, allowing for a much more rounded learning environment.

When asked how long she has been work-

ing for the University of Waterloo the only response was, "N years. No wait, make it N++ years". N++ years of first years seems like a long time but she says that she has had some experience teaching upper-years and she likes the first-years better, changing it up just enough to keep it interesting. She mentioned some of her favourite classes that have come through including the class called i=vr who gave her a class t-shirt which she wears during midterms. She says it's a great way to tell how people are going to do on the exam because the people who laugh are going to do well and the people that don't are doomed. She also has a t-shirt that says "Block 19 loves June", and it came from a group of very peculiar kids. This one guy would come back in his upper-years and cruise the WEEF lab for young frosh boys and hit on any he thought were cute. The same guy, one Halloween tried to dye his hair orange but it turned out pink and she still remembers him trying to prove to everyone it was supposed to be orange.

Probably one of the most famous aspects of June Lowe's contribution to the university is her yearly Summer Strawberry Daiquiri Party. She invites all of her students out to her house by the river for an afternoon of picking strawberries, having potato cannon fights, swimming in the river and then using the strawberries to make daiquiris. She can only have it once a year because it is difficult to have 100 people over when you have to stay indoors; as well, strawberries are only fresh in the summer months. She says it's a lot of fun and some people

have never picked strawberries before so seeing how excited some people get is pretty funny. Most people find the 18 km distance from the university a struggle but they need to keep in mind that June rides her bike to and from work every day. She says that two summers ago she only used her car twice and both times were for groceries, "because a person needs to eat every once in a while".

Her home life is fairly laid back, she enjoys flying planes and singing in a church choir but her house is a second full time job, "There is a lawn to mow, wood to chop, a house to clean and there always seems to be something to fix or improve." She has been a busy lady renovating lately, recently replacing her shower and carpets as well as painting the bedrooms. She also has a large garden which contains almost every type of vegetable. At night she likes to curl up in front of the fire with a glass of scotch and read last week's paper that she didn't get time to read. June never had kids and doesn't have any pets, but for someone that hates kids, cats and dogs can't be all that bad.

June Lowe has certainly been around for a while and when asked when she was going to throw in the towel, she admitted



Michael Seliske

that 2012 is her expected retirement, which means frosh for a few more years get to enjoy her summer parties and programming expertise. Keep an eye out for her party which is coming up in a few weeks, ask her for details.

Campus' Dirty Little Secrets



ROB GRAHAM
4A COMPUTER

Throughout my undergraduate career I have learned many quirks about the UW campus that I certainly did not know about. After all, I have had tutorials in buildings I didn't know existed, roamed the halls to stay sheltered from the rain, and also studied in some of the far reaches that UW has to offer. So, for this issue, I thought it would be interesting to write an article about the strange and hidden secrets on campus that I know about.

When I was in first year, all the hype was about meeting new people and warming up to some of those exciting core classes (*cough*). For Engineering students, first year is also about getting to know the

"dungeon" up close and personal. Yes, I am referring to the notorious Rod Coutts Hall, or RCH. Heck, you are probably in there right now reading this. In its heyday, RCH was rumoured to be the actual UW bomb shelter for those enrolled during the Cold War era. This would definitely explain its sunshine-unfriendly design; namely the lack of natural light on the first or second floors. Either way, RCH didn't always have a third floor. It was a relatively new addition, housing some additional lecture rooms and transforming the otherwise underground dwelling into something presentable on ground level.

This third floor addition also included secret #1 of my report: something I like to call the "Forbidden Staircase". This is that circular staircase unbeknownst to many which offers an alternate exit from the third floor outside to the second floor. The staircase is a long circular passage

which is welcomed by an unmarked blue push door and exits to an outer, camouflaged, one-way door on the second level. The real appeal of this secret "escape" is two-fold: it's a convenient hideaway to secretly do your beloved calculus homework, or for those in a relationship or with really close friends, consider it as another hideaway of sorts. In the course of a day, I am hard-pressed to find more than a handful of people who actually use this exit, meaning secret rendezvous aplenty! Don't be surprised if you catch me in there with... um... my calculus homework!

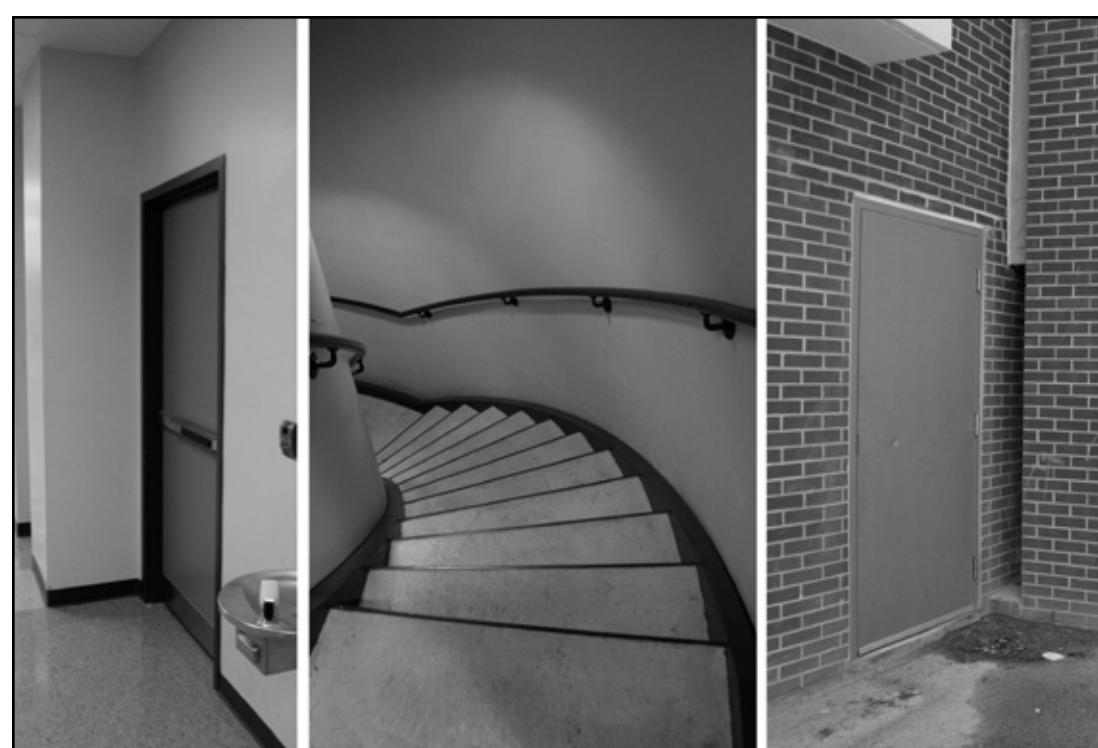
Alright, admittedly that wasn't much of a secret (the staircase – not my nonexistent lust for calculus). What does strike some interest with people, however, is the talk about UW's service tunnels. These corridors span the depths of campus and connect unlikely buildings to one another. As

it turns out, some of the connections of interest are tunnels between the SLC and PAC, the Physics building to the Dana Porter Library, and even a series of tunnels from DWE spanning all the way to Chemistry 2. These tunnel systems typically house pipes for water, steam, and gas, while providing for alternate routes for the service crew. Nowadays, many of these service tunnels are outfitted with security barricades, motion detectors, and locks, so exploring these catacombs would prove difficult. However, one of the lesser-traveled public tunnels (at least to those I have talked to in Engineering) is the one connecting SCH to the Arts Lecture Hall. This tunnel, which I have aptly named "Retro Route," is secret #2, nestled near the

entrance to the UW Shop in SCH and is styled with paint that screams 1971. Halfway along this tunnel is actually a basement entrance to the Tatham Centre, providing as a sheltered route to your interviews without having to brave the elements. A quick online search would show that this tunnel is merely the starting point of a series of tunnels into Hagey Hall and the Psychology, Anthropology & Sociology building.

Not surprisingly, a lot of engineers are not familiar with this part of campus or any building west of TC. That is why my next secret-to-be-revealed surprises a lot of people. With the recent opening of the Pulley and Wedge computer labs, people have flocked to these new rooms to take advantage of new computers and more importantly, air conditioning. Actually, air conditioning is a bit of an understatement compared to my secret #3: the Biology computer lab. The... what?? You read it correctly: Biology has a computer lab, and a cool one at that. This lofty room is perched on the top floor of the Biology buildings and houses thirty-odd modern computers embraced by the frigid chill of an air conditioner on steroids. In summer, this room is the perfect hideaway for students not fortunate enough to have their own air conditioning at home. In fact, it's so cold that I typically bring a sweater to avoid a certain perky male chest phenomena. What's more, this room is generally quite empty in the summertime, meaning it is ideal for pre-exam cramming. Scaling the three stories of Biology has instilled a sense of fear into me because the place used to look like a scene directly from *Silent Hill*: abandoned furniture, metal scraps, and lights flickering on and off. Fortunately for me there never are any monsters strolling around.

So there you have it, my top three UW campus secrets. I know there are other neat and hidden secrets out there... why not let us know? Drop us a line at iwarrior@engmail.uwaterloo.ca for your say.



The "Forbidden Staircase" found on the 3rd floor of RCH that exits to the outside of the second floor.

Michael Seliske

The Callback



ROSLIE CHUNG
3A ENVIRONMENTAL
ANNA LAFOYIANNIS
3A ENVIRONMENTAL

It's Bomber Wednesday. You spot a hot girl. Grow some balls and talk to her. By some weird fluke, she's into Engineering boys and she gives you her number. Okay okay, it might not be that easy to get a girl's number. But let's just say you were lucky that night. You wake the next morning with a mad hangover and remember this awesome girl you met the night before. What do you do? Should you call her? Do you wait?

You've probably heard about the three-day rule. If you haven't, it's quite simple. The three day rule postulates "*upon receipt of a telephone number, the man should wait three days until calling.*" This rule is not good advice. You've probably followed this advice a few times though. From this girl's experience, there are a whole lot of boys that follow the three-day rule like a religion. I'm not talking just boys when we were in high school or boys still in university, but even older guys in the workplace who believe they have a lot of experience. So why do I hate the three day rule so much? First off, guys that follow the three day rule make it obvious it that they were following the rule. If you follow this rule, you seem like every other guy. You can't make an impression on a girl if you just follow rules. Simply put, it's boring. Secondly, in those three days, the girl may meet someone else, forget about you, etc. It's a pretty big risk, especially if you only met her once. Finally, if she is really hoping you call her and you don't immediately, she's going to be disappointed. That is a very bad second impression. No girl wants to date a guy that's full of disappointment.

Now don't get up in arms with me. I know you think that if you call within three days you look desperate. You don't. Seriously. There are two options. The girl didn't really like you and so it

doesn't make a difference when you call, she still won't like you. The other option – the girl is totally into you and is probably sitting by her phone, hoping you call. If you do call within 36 hours, that means (at least in her head) that you really like her. Right there, you've got über brownie points.

Warning! Don't be overbearing. If you call and she can't go out when you propose, does she sound legitimately upset that she can't make it? Hints like "I would love to go" or "how about another time" are our way of helping you know, that we are not rejecting you. If this is the case, don't hang up. You can still talk to her and get to know her, so you can have some better ideas for the eventual date.

If she doesn't sound like she wants to talk, she will give you one word answers and seem inattentive. This is probably a good time to cut your losses and go meet another girl. Rinse and repeat.

In this age of technology, phone calls aren't the only casual way of communicating. A text message can break the ice, and avoid your question of when is a good time to call since she is able to read your text message according to her schedule. However, you might run into a risk of her being not technical savvy. This is a chance you will have to take.

Another form of technology that we all seem to be into nowadays is Facebook. Facebook etiquette is rather ambiguous. If she hasn't given you her full name or you don't have many mutual friends, don't add her. It's creepy and stalker-like. Stalkers are a turn off, by the way. However, if you go on a couple dates and now know her, then it is acceptable. If she's told you to add her to Facebook, add her immediately. Don't think about it – just do it. Hell, anything a girl asks of you within a few days you should do. We like to be spoiled, especially at the beginning.

Choose your weapon (of communication) wisely and just go for it. Worse comes to worst, you'll be right where you started before you went to Bomber last Wednesday.

Long Distance Calls

Cell phone calls for Less!

JON GRIEMAN
1B COMPUTER

Do you find that you use a lot of long distance minutes, or go over the limits of your cell phone plan? This method may let you use several web services to reduce the bill.

We will be looking at setting this up with Rogers or Telus, as they are the providers I am familiar with. However, other providers may offer a plan for which this will also work.

Here's what you will need:

- A cell phone
- An unlimited incoming plan (go for the cheapest option that offers this)
- A web/data plan (for this you won't be using much data, just loading a simple webpage, so feel free to go with a fairly small plan)

My recommended setup by carrier:

Telus:

- This option will work with any phone: "Talk to Me 25" with "SPARK Bundle 15"
- It offers unlimited incoming calls and unlimited web browsing

Rogers:

- Rogers only offers these plans for blackberry: "\$45 Blackberry Voice and Email Plan"
- It offers unlimited incoming calls and 4 MB of data

If you need to buy a new phone for this, I recommend buying one used off eBay or craigslist. Rogers customers can use any unlocked GSM or Rogers phone, while Telus customers must buy a Telus phone, due to the setup of their network (CDMA).

Now that we have our phone, it's time to get setup with our cheap long distance.

There are two sites that we will be looking at:

GrandCentral (grandcentral.com)

GrandCentral, owned by Google, is the option I personally use. The good news: it is entirely free! The bad news: it is currently in closed testing and has been for over a year. It is unknown when it will open for general signup. It provides calling to the United States and Canada only.

Jajah (jajah.com)

Jajah is a commercial provider. The good news: it is open to current signups. The bad news: it's not free. Jajah provides cheap long distance. Its rates are \$0.03/minute within Canada or the US, and it offers many additional regions. This is a lot better than the \$0.35/minute that seems normal for long distance on Rogers and Telus.

How both services work is you would go to their website, signing-in and entering the number of the person you wish to call. GrandCentral or Jajah would then phone both you and the other caller, and connect the call. This means that as far as your phone (and more importantly your phone company's billing department) know, you just received an incoming call. As you are using a plan with unlimited incoming calls, there is no extra charge for this!

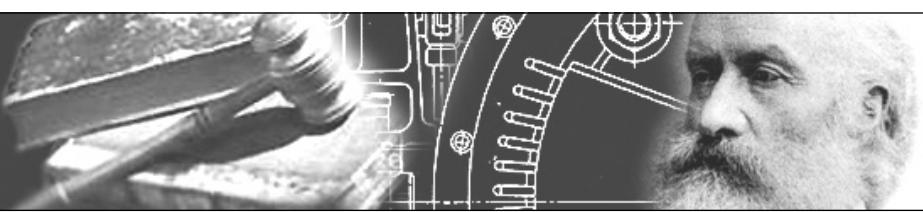
In this article we looked at two sites; however if you are willing to get a little more technical, it is entirely possible to do this without any outside help. For those who are interested, try looking up "asterisk" online. It will give you some resources on how to accomplish this.

Sandford Fleming Foundation



Professionalism.
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Sandford Fleming Foundation Debates

The Foundation has established the Sandford Fleming Debates in order to encourage the art of debate among engineering undergraduates. Each term there is one faculty wide competition. Please contact Prof. Scott Jeffrey of Management Sciences (sajeffre@engmail.uwaterloo.ca) if you are interested in participating. The overall winning team will receive \$300 each and the runners-up will receive \$150 each.

DATES July 7, 8 and 9
TIME 11:30am – 1:00pm
PLACE E2 - 3324

FINALS: CPH Foyer (Outside POETS), July 11 at noon

Refreshments will be served at the finals.

Everyone is welcome!

Emergency Loan Funds

SFF has made available funds for short-term emergency loans, interest free for 90 days. These loans are available to engineering undergraduates, on either an academic or work term. Contact the Student Awards office for further information.

Student Travel Grants

Student Travel Grants are available to students participating in technical conferences. Please check our web site for further information.

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

Beating Hunger Pangs

When You Can't Wait More Than 15 Minutes



SYLVIA WU
1B MECHATRONICS

Studying effectively for midterms requires absolute concentration, but achieving that highly desired mental state has its drawbacks. For example, you fail to feel the vibrating phone in your pants for over half an hour, until your suitemate who locked him/herself out in the rain becomes so pissed that you should expect an empty toilet paper holder every time you need to use the facilities for the next month. However, in an even more dangerous case, your extreme concentration could cause you to ignore your hunger until your stomach has contracted into a 2-dimensional form: you suddenly realize that if you don't eat something within the next 5 minutes, you might as well call 911 and get a doctor's note to excuse yourself from all that book-chewing.

The second case happens to me quite a bit, so much that I'm sure my stomach has gained the elasticity of Lycra. I learned from experience that when hunger pangs hit, you have to drop everything and deal with it, or else it'll whine and end-up hoarding all of your attention anyways. The quick solution is obviously to go to a fast-food joint and start munching, but that's if you live within crawling distance to the University Plaza, or your tongue is so numb that you can stand V1 cafeteria food. Neither applies to me, hence I load up on microwave quickies during weekend runs to the supermarket.

My recent best find is the Green Giant's Pasta and Mixed Vegetables in Cheddar, Alfredo or Garlic Sauce. I got them for \$1.99 a bag at Zehrs on sale, each bag lasts me 2 meals. You just dump the contents into a microwavable container, sprinkles some water on top, and after 5 minutes of zapping you've got yourself a (relatively) healthy and filling meal. To make the meal more balanced, you can add some frozen cooked shrimp and a different mix of frozen vegetables (to spice up the bland mix of broccoli and carrots), such as snap peas and baby corn. The best part about this product is that the sauces and pasta aren't dry and sticky at all after zapping, unlike the boxed pastas such as Michelina. It's also a lot cheaper per serving.

Instant noodles have always been an



impoorer student's meal of choice. The proper way is to put the dry noodles into boiling water and cover for 3 minutes. However, boiling water takes time. Microwaving your noodles will cut the cooking time in half. Put cold water and the dry noodles into a microwavable container along with a pack of mystery MSG-salt-pepper mixture and microwave for 2 minutes. Stir, then one more minute should do it. Just remember to buy a variety of flavours so you are not stuck eating BBQ Chicken for a week.

If you have more than \$80 in your bank account, you should consider getting a mini indoor double-sided grill. It's a one-time investment that'll guarantee you a gourmet meal in less than 15 minutes--5 minutes of preheat and 10 minutes of grilling. You can grill pretty much anything--chicken breasts, fish steaks, burgers, even vegetables! Chick peas and green peas can be wrapped in aluminum foil along with tandoori sauce to be grilled. As long as you possess imagination, this grill will be your holy grail.

Campbell's "Soup that eats like a meal" tends to be nasty in general, but they can be eaten after 3 minutes of microwaving. If you like all ingredients in your food to taste like gravy, this doesn't make a bad meal. On the plus side, it's only about \$2.50 a can and one of those babies really fills you up.

The key to eating well on little money and time is to be creative. Just experiment and have fun with it! As long as you don't get food poisoning from trying random things, bon appétit!

Better Know A Beer:

Kelowna Pilsner



RORY ARNOLD
3T MECHANICAL

It's hard to define what makes a great beer. For me I define it like this; a great beer is a beer that respects the traditions and values of the brewermaster, the brewer and the brew itself, all while still trying to improve. While most of Canada's best microbreweries have been around for only a decade it is still important that they respect their European ancestors. However, they have the opportunity to add something to the industry. Finding the balance between tradition and contemporary is not an easy thing to do. And while most macrobrews such as Molson and Labatt look back on tradition and microbrews look to add a contemporary flair, right in the middle is Tree Brewing.

Twelve years ago Tree Brewing opened in Kelowna, BC and has gone through a number of facelifts. Their line-up of beers has changed and been revamped as brewmaster Stefan Buhl has used traditional brewing methods to brew contemporary beers. After studying to be a brewmaster in Germany Buhl worked as an apprentice brewer and maltster for Meckatzer Löwenbraeu and became a brewmaster in 1994. Shortly after he moved to Canada and became Tree Brewing's brewmaster in 2000. When asked what he loves about the beer industry, he replied, "All the microbrewers have the goal to get people to try some different beers and show that there are a lot of interesting flavours and excellent beers out there." And he does produce a wide range of excellent brews.

His Hop Head IPA and Cutthroat Pale Ale are some of the best (and hoppiest) beers I've tasted and may take some getting used to for people who are not familiar with the India pale ale style. However, on a hot summer day Kelowna Pilsner may quench your thirst a little better. This is unlike Ontario pilsners which lack taste, are overkilled with carbonation and imitate European macrobrews which have lost their tradition, such as Stella Artois and Heineken. Kelowna Pilsner goes back to the traditional pilsner like it was first brewed in Pilsen, Czech Republic -- with its rich taste, delicious aroma and clear colour.

The pilsner was developed in 1842 to

show off the new glass mugs that were available. Pilsners were much clearer and lighter in colour than most previous beers and the style quickly spread throughout Europe and is arguably the most popular style of beer in the world today. Pilsners are best served cold and in a Pilsner glass which is tall and narrow. This is because the head of a pilsner is small at best and allows for it to stay around as long as possible.

On the bottle of a Kelowna Pilsner is a picture of the Ogopogo, who is a cousin to the Loch Ness Monster and is said to reside on Lake Okanagan on which the city of Kelowna sits. In 1926 a group of people who filled 30 cars all claimed to have seen the Ogopogo.

Tree Brewing started brewing Kelowna Pilsner in 2007 and named it after the city of its birth to raise awareness that Kelowna had its own brewery. In the same year Tree Brewing took home a silver medal at the Canadian Brewing awards in the European Pilsner style category for their creation.

Giving the beer a generous straight pour will allow you to achieve a small amount of head to capture as much taste as possible and allow the hoppy aroma to be released. Like older pilsners, Kelowna Pilsner gives off a strong hoppy nose from the generous amount of hops added after the boil but the taste goes unaffected and remains sweet and malty. It pours a nice golden colour as a pilsner should. Tasting it reveals a malty flavour with traces of corn and some slightly earthy undertones. It's not nearly as strong as the nose would suggest and provides a thirst quenching taste. Surprisingly, the beer leaves a good Brussel's lace (foam that remains on the glass after the beer level drops).

Kelowna Pilsner is a great barbecue beer and will go with anything grilled, but also would go well with any fish or salad. Some light summer music such as that from Kenny Chesney or Garth Brooks would complete the experience.

Although this is the best smelling pilsner I have ever had, it is still a pilsner and lacks the taste of some of the other brews offered by Tree Brewing. Therefore, I scored Kelowna Pilsner a 7.9/10. If you are a fan of pilsners this one is definitely worth checking out.

Tree Brewing claims to brew real beer for real people. So unless you're from San Francisco, they are brewing beer for you and it's worth you giving it a try.



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ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



AMANDA HOFF
PRESIDENT

Greetings and salutations!

Prez-land has been pretty routine as of late, as the rest of campus and I get through midterms and projects. As a result, I don't really have any news of the "outside world" to report to you this week. Instead, I'd like to take this opportunity to remind everyone of a few of the services that are available.

If you're stressed out after midterms, or maybe they didn't go as well for you as you had hoped, don't despair! It's not too late to pick things up again in time for finals. If you're looking for some tips on how to make better use of your study time

and efforts, you can consider setting up a personalized study skills workshop, which you can sign up for at <http://www.adm.uwaterloo.ca/infoes/workshops/study.html>

Another good resource to help you deal with stress or other issues is Counselling Services – Engineering Counselling alone has two fantastic counsellors: Kristine Meier and Neil Gibson. Just head into the First Year Engineering office in CPH if you want to set up an appointment to speak with one of them. I know it sometimes seems a little frightening at first, going to see a counsellor, but I can personally attest to the fact that it's a worthwhile experience if you give it a chance!

As always, if you have any questions or concerns, or just want to chat, feel free to send me an e-mail at bsoc_pres@engmail.uwaterloo.ca or stop me in the hall.

VPI Report



CAT HAY
VP INTERNAL

Get those coveralls out – now that midterms are over, we're not wasting any time getting events started up again! On Wednesday, June 25 we're running the first EngSoc Coffeehouse after the council meeting. Drop by POETS starting at 7pm for some spectacular performances – including an interpretive dance by your very own EngSoc executive! Thursday we've got another Enginuity coming up at 11:30am in the CPH foyer.

Next week we've got DUSTED and the final round of Enginuity on July 3. Friday (July 4) will be a trip back to the 60-80's for our Dirty Dancing semi-formal at South Campus Hall – tickets are on sale for both

the dinner and the dance in the EngSoc office. If you're in Class of 2011, the partying continues all weekend at Bruce Peninsula with the Year Spirit Camping Trip. For everyone else, come out to the first-ever Band Wars competition on Saturday, July 5 in POETS! Monday and Tuesday (July 7-8) we'll be hosting a Rock Band competition in POETS – sign up on the Orifice doors, there is no entry fee required.

Lastly, don't forget that nominations for the 2008-2009 EngSoc executive are opening up after this week's EngSoc meeting (June 25). If you're thinking about running and/or have any questions about the VPI role, please drop me an e-mail or stop me in the hall. It really is a fabulous experience that I would highly recommend to anyone who enjoys coordinating events and making Engineering life that much more fun! This is your chance to really make a difference at the faculty-wide level.

VPX Report



ERICA WAUGH
VP EXTERNAL

The newest CFES E-bulletin arrived a few weeks ago and contains some very juicy information! The CFES magazine, *Project Magazine* is once again looking for articles for the next issue. The theme is "The Expanding Scope of Engineering" and articles will be accepted until August 1st. If your article is chosen as the feature article you could win \$250! This is also a great opportunity to be published in a magazine that is read across the country. For more information, please email promag@cfes.ca.

Another CFES opportunity is the International Engineering Competition. CFES will be hosting this next year and needs volunteers to help with the organizing. If this sounds like something you're interested in, please email international@cfes.ca.

Okay, moving out of CFES news and onto ESSCO! Last week an ESSCO teleconference was held and a motion was passed that added a fifth executive position. This motion was created to help ease the workload of the current executive positions as well as improve the efficiency of ESSCO as a whole. A lot of work went into this motion and hopefully positive changes will result. In further ESSCO news, the Annual General Meeting is being held next weekend at Ryerson. Nine other Waterloo students and I will be in attendance, look for a rundown in the next issue of *The Iron Warrior*.

Now moving onto EngSoc news... the Canada Day directors are looking for volunteers to help out with the Columbia Lake festivities on July 1st, if you are interested please email cvmkenne@engmail.uwaterloo.ca. If you can't commit to volunteering, make sure you try to get out to CIF on July 1st to enjoy the community celebration. Peace out dudes.

P**5 Story Winner

MICHAEL SELISKE
1B COMPUTER

Chapter 1: One day in the jungles of the server room, a lone co-op worked away on a server rack preparing for a bunch of new servers that was waiting patiently close by to be racked. Suddenly the doors slammed shut and a masked figure wearing all black closed all possible exits and locked them with a key as well as an impenetrable spell. The masked man then sprinted away leaving the lonely co-op alone in his tiny coffin.

Chapter 2: The co-op believed that he was doomed and screamed for help at the top of his lungs but no one came. He started to shiver as the temperature was chilly and he was not wearing warm clothes. As time passed he started giving-up hope and began to contemplate cutting off his arm with a spoon even though it wasn't tied to anything to be free from. After repeated attempts to find a spoon in his pockets or magically conjure one out of thin air the thought of removing a limb quickly vanished.

Chapter 2.5: Meanwhile in the mad man's evil lair.... I have no idea what was happening because I was locked in a bloody server rack.

Chapter 3: Time was passing slowly, and the co-op did not know what to do with himself. After trying to conjure up a fork this time and failing, the thought of Harry Houdini Grand Escape came to mind, but was quickly dashed by the total lack of escape artist ability. Finally a member of another team walked by and saw the co-op trapped in the room. The co-op pleaded with the man to let him out but the man simply stated, "You must answer me these questions three. First, what is your name? Second, what is your Quest? And third, what is the air speed velocity of an unladen swallow?" The co-op looked confused but answered, "Co-op. To get out of this box. And are you talking about an African or European Swallow?" The man said, "European!" "Well it's all a matter of weight ratios: the average adult European swallow has a wing length of 12.2 cm and a body mass of 20.3 grams and a simple formula of the speed of a flying animal

is roughly 3 times frequency times amplitude ($U \approx 3fA$). With an estimated amplitude of 15 beats per second and .22 meters per beat we can estimate that the European swallow will fly at approximately 10 m/s". "Wow," said the random man. He was so impressed that a co-op could come up with such reasoning that he decided to grab the key and let him out.

Chapter 4: Soon after the co-op got out, the man with the mask was identified using a bunch of high tech equipment and intense ninja like spying. A few weeks later the man went on vacation for an extended period so the co-op decided to pay his revenge. He got his hands on some thin but strong steel sheets and was able to wrap every object in the man's lair with this steel sheet making it very difficult to plan future evil things.

Chapter 5: The evil mastermind returned from vacation and was unable to plan anything against future co-ops ever again.

The End

What Actually Happened: (But you said you wanted a story so the above is a Hollywood representation)

For my work term I worked for 8 months as a network administrator for a large investment company. I was in charge of all of the servers and other technology in the server room. We recently got a few new racks and I was inside one setting it up to be populated when one of my co-workers closed the doors, locked them and then walked away. I was locked in the freezing cold server room for 35 minutes until someone else came in and opened the door for me. That is what happened, make of it what you will.

As payback when he took a two week vacation later in the term I gift wrapped his cubicle for Christmas and by cubicle I mean from the chair to the smallest pencil all individually wrapped. Unfortunately I didn't get a picture of it though so I have no proof but it happened and you can talk to the CTO who walked by many times shaking his head. Small pranks occurred back and forth for the remaining 4 months but they aren't good enough to be mentioned.

VPEd Report

of the Co-op Working Group.

As far as everything else those of you who have been doing well on your Work Term Reports keep your ears open as we are looking to re-build our Outstanding Work Term Report Bank.

Finally for anyone who wants some easy P**5 points send in your Midterms as you get them returned, and remember include Prof. Solutions for MAX POINTS.... from the standings it looks like those extra few points may make the difference!!

VPF Report

Did not submit report for this issue.



PATT GILLIS
VP EDUCATION

Due to the absence of meetings and abundance of midterms as of late there really isn't too much to report for the office of the VP Edu for the last couple of weeks. As far as the PDEng Independent Review I will be able to update everyone as of Tuesday regarding the current status and likewise with the progress



CHRIS JAMIESON
VP FINANCE



P**5 Standings For MOT

1. 4A unCIVILized	(16595)
2. 2B Mechsicans	(16155)
3. 4A Byte Me & RAM It	(14090)
4. 2B C1V1L THIS	(13655)
5. 1B SparTRONS	(11685)
6. 3A FUCHEM 2010	(11575)
7. 2B Knights of NE	(10310)
8. 4A 60" JOYstick	(7200)
9. 3A Peeping Trons	(6350)
10. 1B Comp	(6215)

EVENTS RECAP AT A GLANCE



Michael Seliske

Matthew Bester shows off the winning “leaning tower of paper” entry at Enginuity #2.



Cherry Ho

Imprint organizes campus media gathering in SLC Courtyard to celebrate its 30th anniversary.
In attendance were *The Boar* (not shown), *Imprint* (left), CKMS (right) and *The Iron Warrior* (not shown)



Cherry Ho

The Iron Warrior Editor-in-Chief Sunny Ng bravely accepts a piece of cake from *Imprint* Editor-in-Chief Maggie Clark and proceeds to eat it.



Michael Seliske

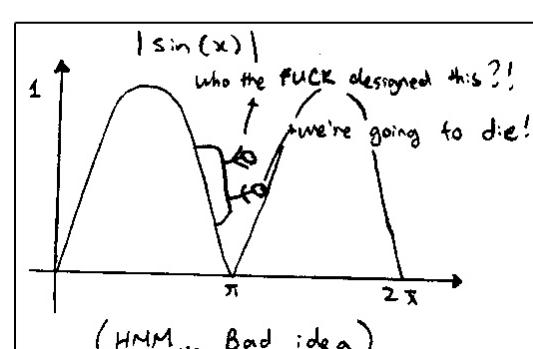
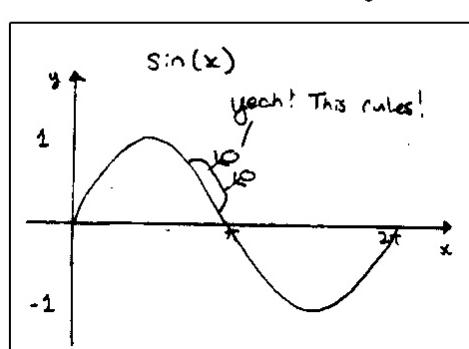


Michael Seliske

Emily Ecker (left picture) shows off tie-dyed t-shirts in preparation for the EngSoc Middle of Term (MOT) event with the theme of “Summer of Love” (right picture: Marissa Bale, Ari Taub).

LIFE IN MECHATRONICS
What if we could ride trigonometric roller-coasters?

Brandon Leong



POINT VS. COUNTERPOINT

Should Classes be Rescheduled During Midterms?

POINT



SPENCER MCEWAN
2B ELECTRICAL

Well, it is now everyone's favourite time of term. For most of us, midterm season consists of a frustrating few weeks where students suddenly realize, "I don't understand any of the course material." This realization may even be the case for multiple courses. As a result, it probably means late hours in Davis Centre Library, plenty of caffeine, and sleep deprivation for a span of days (or even weeks) to cram as much knowledge into our brains as possible before midterm week arrives.

Individual departments within the Engineering Faculty deal with midterm week differently. For example, most classes within the Mechanical & Mechatronics Engineering Department do not schedule lectures during midterm week. On the flipside, lectures are still held for most classes within the Electrical & Computer Engineering Department. The question becomes, which approach is best for us, the students? I am a firm believer that not scheduling lectures during midterm week makes the most sense.

For one thing, attendance rates drop off sharply during midterm season. It is common to walk into a lecture hall during midterm week and have only twenty faces staring back at you. It is understandable why this happens; the time during lectures can also be utilized for studying. However, it becomes frustrating for many professors that arrive to a lecture, only to find an eighth of the class in attendance. It is disrespectful, and you begin to wonder if it is even worth it to hold a lecture while people are studying for midterms. Most of the students aren't present, and they will be completely lost once they return to lectures and realize they have missed a week of course material. It may even

cause future lectures to proceed slower, as students may start asking for clarification on missed material.

I'm sure all of us have been in that stage in the term where the professor turns to the class and says, "The midterm covers up to this point in the course materials." New material is introduced after this point, but many students do not pay full attention to new material as it is not testable on the midterm. Post-midterm material isn't absorbed properly during midterm week, since most of us are focused on studying the pre-midterm material. Many students end up just writing down notes from the lectures covering post-midterm material, and "re-learning" the material once midterms are finished. This is a very inefficient method of learning. If we are spending our time after midterm week re-learning material we neglected, it seems just as smart to reschedule the lectures to learn the material at a later time.

The one downside to not holding lectures during midterm week is the lecture time must be made up at a later time. This has the potential to cause scheduling nightmares. However, it is not impossible to reschedule lectures. Even though there may be days of extended periods of lectures, the main point is that the students will be in class, and will be absorbing the information much more efficiently than they would have during midterm week.

It just doesn't make sense to be holding lectures when students are not in class, and not fully focused on the material that is being covered. I like to devote a lot of time to studying during midterm week, because many of us have multiple midterms during the week. I go from writing one midterm to immediately studying another course, and I like to have as much time as possible to fully get my mind focused on the next course. Having lectures on top of studying is just an inconvenience that distracts focus from the midterm at hand.

COUNTERPOINT



SAVIO TSUI
4A COMPUTER

What is the big deal with classes during midterms? Though I admit to skipping out on a couple classes to cram as much ECE 223/324/327 into my brain before each midterm, I think it's no big deal at all. Most professors are very accommodating to our schedules already by either holding review sessions the days prior to the midterm, lightening up the load for a week, or even rescheduling the entire midterm (ECE 354).

Scenario 1: If I slack off until midterm season and don't study until the week before midterms start showing up on my Google calendar, the effect of new material being covered has marginal effect on me since I have not even covered material in the weeks before. What I would benefit from are review sessions during that week which the professor may hold during class

Scenario 2: I go to class every day, and spend a portion of each day covering my notes from previous lectures. When midterms roll around I should already be set so holding review sessions in class during midterm week is like compacted studying of my courses all over so once again no harm done. If it is new material I should be reasonably prepared to understand the lecture given the fact that I have kept up with my studying.

If we reschedule classes for midterms to accommodate studying time that just leaves 1 or 2 weeks less in which the professor can cover the lecture material and force him/her to briefly cover topics which may be fundamental to our learning as we have less time to digest lecture material. This week of no

classes in effect, harms our learning experience later when exams approach. This effect gets compounded if the professor has fallen behind in lectures and must cover even more material in shorter periods of time.

Now let's consider the weighting of these midterms which typically range from 10% to 40%. As a rational student I would want to maximize my grade. Would it not be more beneficial for me to spend significantly more time on studying for the final exam which is worth more than to have that time spent on a midterm which may have marginal effect on my final grade?

Let's not forget that a typical class can average around 60 or more students. By rescheduling these classes the registrar has the arduous task of ensuring that each and every one of the students does not experience schedule conflicts, not to mention having to find available rooms for lectures and the professors' timetables. Sure we could extend the academic term by a week at the end, but I enjoy having two or three weeks before going on co-op or heading back to school to do absolutely whatever I feel like doing, like vacationing in exotic places or sleeping in until 4 PM.

Another thing, if we are to reschedule classes for midterms to accommodate studying shouldn't we also reschedule our interviews such that they do not interfere with our classes and midterms? Maybe we should have these interviews at night! How about rescheduling campus recreation sports too! Another thing to remember, thousands of students, engineer or not, have come before us and they've all "suffered" each and every term with classes during midterms. In reality, the world does not stop for you or me, so we should just suck it up and do the best we can when given these situations and our expectations.

Editor's Note:

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

Changing the Status Quo



MICHELLE CROAL
2N CHEMICAL

Each individual has certain ideals that he or she holds dear, and these define what issues s/he will stand up and fight for. For some, it is the protection and preservation of the environment; others hold multiculturalism and heritage close, just to name two of countless concepts. One that has always been close to me personally is that of feminism (with or without a capital F). In the past few years, the usual response I get to this statement is one of patronizing tone, with a barely masked sense of social taboo, sometimes even from other women, so I have learned to "play it down", making my public opinions less than what they could be. However, now that I am comfortably outside the cliquey high school world, I feel it's time to start making more of a stand on what I feel is important to me.

Feminism, or considering oneself a feminist, seems to carry connotations of man-hating and bra-burning, and generally trying to cause trouble and upset the status quo. For sure, the early movements of feminism involved strong courageous women who would have been considered rebels, for their strength and audacity to challenge the system in place. Without

them, women would not be able to vote, and we most certainly would not be in the field of engineering today. These are the foundations of feminism. However, I think there has been a change in the direction, possibly more subtle and slower moving, but present nonetheless.

To me, feminism is not about trying to achieve superiority over males, as might be a common misconception, but about breaking boundaries, limitations and preconceptions. To not feel limited to what I can achieve solely because of what I was born to. I know that most importantly, it is this attitude that can be expanded to fight sexism, racism, ageism, homophobia and innumerable other injustices we face in our daily lives. All these "-isms" should, in my opinion be encompassed into a word that is more than each of them alone. Something like "humanitarianism" works fairly well, seeking for respect and dignity for all people. Of course, the modern definition of humanitarianism now carries the implication of foreign aid and emergency relief, and may have lost much of its meaning at an individual level, but it's the wholeness of this word that I like, without any of the suppressed negative responses that can come with feminism.

One of the few things that honestly bothers me is the casual use of words that perpetuate negativity and prejudice; expressions like, "That was so gay!" to mean

stupid and, "That test raped me!" of a particularly hard exam. I know they're slang, and people (usually) don't mean anything malicious by it, but the words remain an injustice. They will definitely have deeper meaning to many individuals who may not share their opinions publicly. Too often I find myself letting it go, expressions such as these, or even jokes which I find very unfunny indeed, because it seems easier to avoid confrontation. Lately, I've realized that this isn't good enough anymore. Ignoring a problem is NOT going to make it go away, and despite whatever good intentions you may have, the wrongness remains, and usually grows. So, this is what it all comes down to: what you think leads to what you say. Words then become actions and habits (as Yoda and PDEng 15 would agree). In essence, one way to stand up against injustices to human respect and dignity is to speak out, but also the ability to listen to what is being said and respond accordingly. Sometimes all a situation needs is a non-aggressive reminding comment of what is not acceptable or appropriate. After all, we are only human and we do make mistakes.

My thoughts now meander into the minefield that is the concept of "political correctness". Perhaps, a few years ago when it all started, the intent was probably good; to decrease discrimination against varying groups and to improve human unity. However, somewhere along the way, it turned

into a way of using more and more words to remove the harsh reality from a situation and shroud it in soft, nicer sounding lies. How can any individual be expected to have respect for others when the very language he or she uses prevents a direct route to the truth? I can understand the desire to not offend, but there's a difference between this and actual respect. Political correctness has led to a state of hyper sensitivity (here in Canada anyway), where even the slightest wrong words or wrong timing can result in outrage (Gradcomm slave auction anyone?), but it doesn't really bring anyone closer to solving the actual problems and preconceptions. Having a sense of humour can go a long way too; knowing when to stand versus when to lighten up and take life with a grain or two of salt (and a slice of lime, and a shot of). Sometimes it is necessary to shock someone a little with a straight up truth to shake them into action or to change an attitude.

So somehow, I started my article with feminism and end now with political correctness. I just wanted to shake out some of the apathy and boredom and disregard that seem to accumulate as I go along in life, and hopefully shed some light in your own mind as a reader. There are too many injustices in this world to tackle them all individually, but just one piece at a time shouldn't be too much to ask.

ARTS & ENTERTAINMENT

UW Drama Production Revisits Caledonia Land Dispute
Differ/End: The Caledonia Project is Both Daring and Informative**SUNNY NG**
4A COMPUTER

Alright everyone, it's time to fess up. I'm sure most of you have heard about the Caledonia land dispute one way or another. You may have heard about it on the radio, read about it online, or saw video clips of the infamous hydro tower barricade or of a tire fire. But how many of you know what the dispute was *actually* about? Did you know what really went on? Can you even locate Caledonia on a map? How can something like this happen?

Students of UW's Drama department shared a new insight on this issue when they put on the play *Differ/End: The Caledonia Project* during the four nights between June 9 to 12, 2008 at the Rotunda, in Kitchener City Hall. This was the second run of the play, as it was previously shown in Studio 180 at Hagey Hall back in mid-February. The drama production presents this issue as it follows the experiences of the 25 drama students who took on the task of investigating the dispute under the supervision of Professor and Director Andy Houston during the Fall of 2007.

The play is narrated from a third-person perspective. The actors take the roles of themselves as they describe the progress they made during the multiple visits to Caledonia to interview people from each respective party to better understand the situation. It was described in the play that finding out what is going on with Six Nations people in Canada is like trying to find out that there's abuse in your family. It takes time to uncover why everything is the way it is right now. It also requires talking to individuals that are directly involved. This includes people of Six Nations, residents of Caledonia, historians and those who watched the dispute as it happened. The play even portrays the student-researchers' thoughts of this issue before, during and after the investigations.

Differ/End refers to the incident in 2006 at the community of Caledonia, a suburb of Brantford and is in close proximity to Hamilton. The dispute began when a developer began to build housing for what was known as Douglas Creek Estates. Members from the nearby Six Nations Reserve set up tents and occupied the land as they protested, claiming that the land belonged to them.

Differ/End is not afraid to be bold. Right in the beginning of the play, it tells the audience that we are all indeed culpable, "If we know something, and we don't do anything, We're still culpable for what happens. Worse. If we don't know, if we don't know the depth of the story and yet form and spout opinions anyway, we are still culpable. Culpable for our ignorance." It speaks of the importance of knowing the facts before making uninformed opinions and the importance of speaking-out. During the play, it is pointed out that the Haldimand Proclamation of 1784 granted six miles of land from either side of Grand River to Six Nations from the head of the river to Lake Erie as payment for their loyalty and losses during the American Revolution. The included settlements like Brantford, Elora, Emira, Paris and even Kitchener-Waterloo. While parts of it are covered by a legal surrender, part of it is still contested land, such as the disputed land in Caledonia.

Differ/End is raw. For instance, one scene quotes uncensored text directly extracted from flaming wars from both sides that are often found in comments of YouTube videos

which are filled with hateful and offensive slurs. While it may seem a bit exaggerated, it was able to portray some of the raw feelings and emotions that erupted during the dispute. It also does not try to shy away from common stereotypes we all may possess and afraid to admit, such as labelling the natives as terrorists or freeloaders. At the same time, these stereotypes are dismissed as historical facts and events are quoted. In the end it questions, who really are the terrorists?

Differ/End is thought-provoking. It uncovers details and history of the Caledonia Land Dispute incident that is left out by mainstream media. Details like the conflict of interest that Judge Thomas David Marshall, whose wife owns substantial land that is part of the Haldimand Tract. Judge Marshall was the one who ordered negotiations with Six Nations to be ceased until they left the site.

The central theme of the play was pie-making. Just like making a pie, it was suggested that resolving such a conflict requires time, caring and love. The result may turn out better than expected.

Following the near 3-hour performance (including an intermission of which the audience is encouraged to check out research material produced by the drama class) was a Question & Answer session, allowing the audience to interact with the performers and the rest of the production team. One particular audience member pointed out that perhaps *Differ/End* was biased towards the Aboriginals. Director Andy Houston responded by stating that while it may seem that way, but the truth is as the facts stack up, it became more obvious who was right in the conflict.

I had the opportunity to catch up with Director Andy Houston on his thoughts of the production. *Differ/End* came about when Houston gave his Dramaturgy class the assignment of a challenge to perform an in-depth research of a subject that he has no answers for. He explains that dramaturgs are the people who conduct background research for a play. While Houston grew up in Toronto, he became more educated and concerned about the conflicts and disputes with Aboriginals when he came in contact with those who have done work on this subject when he moved out west. He first heard about the Caledonia land dispute on CBC Radio, "It just frustrated me. I was ashamed to hear the phone interviews with people, the



Mark Walton

kind of racism coming from Canadians."

Houston describes *Differ/End* as a work based on "Social Acupuncture", a term coined by acclaimed playwright Darren O'Donnell, "Social Acupuncture is a process of going into a community and reporting on what you find, but in the process talking about your approach to the community." This was the reason why the play was performed from a third person perspective. In a sense, he was able to show and convey feelings and personal biases the production team had before and during the investigation. "I think [this approach] reveals a lot about how we can go out and look – anyone can go out and look." Houston hopes that by using new techniques like this, he would be able to further innovation in theatre. "I'd love to be an engineer of the imagination," he chuckled.

Andy Houston described the process of creating this production has been a tremendous learning experience for him and his drama class. He explained how this was different from other land claims as the land given to Six Nations from the Haldimand Tract was a contractual exchange that was documented in history and evidence can be found. He describes it as a blatant breaking of the law. "There's a lot of shame and embarrassment in many Canadians about Aboriginal people, because we don't understand them. [...] I met many well-meaning people who found out [about the unjust treatment of Aboriginals], even then they're in denial. [...] There's a [myth] about the Aboriginal people, that they're lazy and very depend-

ent. [...] It gives me an urgency to do more positive things for the Aboriginal community," says Houston. "They have had a history of hate. [...] They had the worst things done to them. I think we can go a long ways being patient and being open to them."

Houston describes the reaction he received from the production has been very positive. He has received invitations to bring the production to Six Nations and even in Italy. "The connection to Italy is that in Calabria [...], oddly enough, they have a similar dispute about land. [...] There's a community of Albanians that have been living in that part of Italy for thousands of years, and they have documents to prove it. The reality in the world is that land is a point of dispute around the world for thousands of years."

Differ/End addresses misconceptions that came from mainstream media through sensationalism. Andy Houston gave an example of that, "Look, they're going to show another tire fire on the news! That only happened one day – one day! [...] That was like the worst thing that could happen to a middle-class suburb, I guess. [...] With that kind of sale-appeal, with that on the front page would get a lot of paper sold." He believes that people should be more careful about what they read and the media response. He also thinks the media and the general public should take time to understand issues like these to find out what is really going on before jumping into conclusions. "I wanted to be explicit about how anyone can go there and find out for themselves. I wanted to tell people to drive down there and be curious."




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How to Throw a Barbeque



RORY ARNOLD
3T MECHANICAL

Waterloo Engineering allows you to experience something that very few university students ever have the pleasure of enduring. No, I'm not talking about co-op, but rather that of attending a school term during the summer. Some of you may think, whatcha talking about Rory, all my friends are spending the entire summer sipping Margaritas and Piña Coladas off the dock at their cabin, and I'm stuck here doing calculus.

I have three little letters that will change your summer from blah to kick-ass sweet. They are B, another B and the seldom talked about Q. Together they spell BBQ which is short for barbeque. After my quick lesson you will be able to hold your own barbeque.

It's important to note the difference between barbecue and grill. Barbecue refers to the slow cooking process using indirect heat [...] while grilling uses direct heat...

Firstly, you need a barbeque. Sounds simple, but on your limited budget and the fact that you'll probably be moving at the end of the term you may not want to put in the investment to get a good barbeque. However, a cheap charcoal grill can be purchased from Canadian Tire or Sobeys for around \$30. It's important to note the difference between

barbeque and grill. Barbeque refers to the slow cooking process using indirect heat and is used for larger cuts such as brisket or pork shoulder, while grilling uses direct heat and is used for cooking steaks and hamburgers.

Now that you have your barbeque you'll need to use it. For most university students, barbeques hamburgers and hot dogs are just fine, but if you have the money, steaks are the way to go. However, if you really want to impress, buy a pork shoulder and barbeque it for a couple hours. This is the best cut for pulled pork because of its fatty and connective tissue content.

If you're doing steak, cook it about 2 minutes then flip it over and again for 2 minutes. Then, quarter-turn and flip back to the original side, another two minutes, then the final flip this gives you a nice medium-rare with a perfect diamond pattern. If you're doing chicken or hamburgers make sure they are fully cooked using a thermometer.

Now that you know how to cook the meat you'll need someone to cook for. If you're barbecuing, start before the guests arrive. But if you're grilling, wait until they get there. Have a cooler and ice ready to keep the beer cold. If you're providing the drinks make sure you have something easy to drink in the summer heat and mild tasting that everyone will drink. Molson Canadian and Labatt Blue are classic Canadian party beers that will appeal to a wide range of drinkers. However, if you want to give them something that tastes a little better I suggest going with Corona Extra or Sleeman Honey Brown. These are sweeter tasting beers that are very refreshing. Eastern Canadian beers such

as Alexander Keith's and Moosehead are very crisp and go great with any type of barbeque. Light beers, such as Coors Light or Bud Light, are also great when the mercury is at a higher level. Barbeques are the only time I condone drinking from a bottle or can, for both convenience and to protect against insects trying to steal your sweet nectar.

If you're grilling, always keep a beer in hand for two reasons. One, to keep you cool and two, to douse the flare ups from dripping fat. Make sure your meat is properly seasoned. Depending on the type of meat and personal taste you can use one of many market-ready steak spices, dry rubs or sauces. I usually make my own sauces and rubs, which may sound complicated, but is actually very simple. My sauces are usually a combination of tomato paste, molasses, beer and Worcestershire sauce, but my rib sauce also contains apple sauce. Make sure plates, utensils and condiments are ready for your guests before the meat is done cooking and have one or two types of salads for them as well.

The key to barbeque is experimentation (it will almost never taste bad). This is why I prefer to make everything from scratch; my sauces are often just things I pull out of the cupboard. Also, find a style of barbeque you like and start with that. North Carolina style barbeque typically uses a vinegar-based sauce while Kansas style uses a tomato-based sauce. Furthermore, Texas style typically uses a dry rub. There's no wrong way to do barbeque and the only right way is to do it the best way you know how. So this summer, when you need a break from engineering, barbeque.

Eidolon

RAFEE AMEEN
4A MECHANICAL

Do you remember, watching ravens once upon a when, wondering at the intricacies of their congresses, the secrets hidden in their shrill, sonorous static?

They kept you company, (not that you knew back then, lost little child that you were) in dream country, through broken worlds and their unnameable creations.

Do you remember, the first, only time they spoke to you? That strange staccato lisp? Their wings, unfurling, black thunder in their eyes as they took your shape?

Might have been angels, with their wings so vast, and eyes so bright and skin so pale, and sinewy limbs and impossible grace; you wanted to slink away, run, hide.

Might have been angels, but for their smiles so sharp, shimmering crimson; do you remember yet?

//

No, they did not hunger for you, lost little child. They hungered to teach you. All the lost arts of all the broken worlds, every heresy and every song, enough to burn your world to ashes.

The message is still there, little child. Waiting in the dark of your thoughts, encased in the dark of your flesh: daggedances and murder music and the symmetry of switchblade magic.

//

Now, dreamer, lost little raven child: wake up. Harvest's due, the last twilight's come and gone.

Wake, dreamer.
Unfurl your wings.
Unredeem yourself.

The Iron Chef Recipe

Super Easy Homemade Pizza Dough!

ERICA WAUGH
4A CIVIL

Impress the ladies, make this tonight!

Dough:

1 cup all-purpose flour
1/2 cup whole wheat flour
2 tablespoons flax meal or ground flax seeds (OPTIONAL!!)
1x envelope (2.25 tsp) Fleischmann's quick-rising yeast (These come in strips of 3 or you can buy a jar)
1/2 teaspoon salt
2/3 cup very warm water (very warm = microwave for 1 minute)
2 teaspoons olive oil
2 teaspoons liquid honey

Make crust: in a medium bowl, combine all-purpose flour, whole wheat flour, flax (if you are using it), yeast and salt. Stir in olive oil and honey into the warm water. (*Trick: measure the oil first, so that the honey slips off the spoon easier!*)

Pour wet mixture over dry ingredients and mix using a wooden spoon to combine. The dough will be awkward and crumbly.

Turn dough out onto a lightly floured surface. Knead for 2 minutes. The dough should come together easily into a ball and will feel tough (read: harder to knead)

*NOTE: do not be afraid of kneading! It is much easier than you think; it really just means rolling the dough around with your fists!

Return dough to your mixing bowl. Cover with plastic wrap. Let rise in a warm place until double in size, about 20 minutes. (warm place = your counter... or near a heater if it's on!)

Meanwhile, spray a 12-inch pizza pan with olive oil spray. Preheat oven to 425 °F. If you don't have a pizza pan, I use a large baking sheet; my dough is about 11" x 15".

When dough has risen, turn out onto a lightly floured surface and, using a rolling pin, roll dough into a 12-inch circle. Transfer dough to prepared pizza pan. My "12 inch circle" is usually a strange oblong shape, the key is taste here – not looks!

Top with sauce, and other favourite toppings. Bake for 15-20 minutes, until cheese is completely melted and browning, and edges are lightly-browned. Also, it is a good idea to lift the pizza up on one side to check if the centre is cooked – it will likely be soft but should not still appear doughy.

As you've noticed, there is a 20 minute gap in this recipe. You're thinking, *the dough is rising, I turned the oven on, now what Erica, NOW WHAT?* Well friends, why not prepare some delicious toppings! I use the canned pizza sauce with some chilli flakes (adds that special ZING!) and then pepperoni, zucchini, green peppers and whatever cheese I have on hand.

This may seem like a lot of steps but once you actually begin to put it together it is very easy. The whole process from start to finish is less than an hour. Good luck and let me know how it goes!



Music Review

"Seeing Sounds"

N*E*R*D
Star Trak



SUNNY NG
4A COMPUTER

Hip-hop super-producers The Neptunes are no strangers to catchy hooks and addictive beats. In the sample-driven genre, they were responsible for creating "The Neptunes sound" that consists of syncopated backbeats with futuristic electronic-synthesized keyboards mixed in with funk-inspired horns, they produced an enormously long string of hits. This ranged from Ol' Dirty Bastard's "Got Your Money" to Gwen Stefani's "Holla-back Girl"; from Clipse's "Grindin'" to Nelly's "Hot In Herre"; from Jay-Z's "I Just Wanna Love U (Give It 2 Me)" to 'N Sync's "Girlfriend"; from Busta Rhymes' "Pass The Courvoisier Part II" to Britney Spears' "I'm A Slave 4 U"; from Mystikal's "Shake Ya Ass" to Ludacris' "Southern Hospitality"; from Common's "Come Close To Me" to Snoop Dogg's "Drop It Like It's Hot"; from Beenie Man's "Feel It Boy" to Kelis' "Milkshake"... need I go on? Basically, they were able to turn anything into gold. Hell, they even made it okay for people over the age of 13 to like Justin Timberlake. That's an impressive feat. At a typical night in a club that plays mainstream hip-hop, you are guaranteed to hear at least 5 of the songs they produced. Clearly, versatility and producing for others are what they do best. But what about creating their own music for themselves?

Pharrell Williams and Chad Hugo along with their long time pal, Shae Haley formed N*E*R*D (No-one Ever Really Dies) and came out with their debut album *In Search Of...* in 2001, which was later re-released in 2002 replacing synthetic instruments in favour of live instrumental provided by Spymob, ditching the familiar 'Neptunes

sound". The result was a perfect blend of modern hip-hop and alternative rock, added in with clever and cheeky lyrics that are both unusual and often don't take themselves too seriously, such as an unconventional comparison between politicians and strippers. It became one of the most critically acclaimed albums of the year and became one of my favourite records of all-time. Despite the success with the critics, the album barely went Gold. One thing for sure is that the last thing the Neptunes really needed was more money. It was apparent that they weren't doing this for sales, but to make good music.

Their sophomore album *Fly Or Die* from 2004, was much less stellar. While it continues to be unusual and even captures some classic rock influences (they learned to play their own instruments this time around too), but somewhere along the way it seems like they lost their sense of direction and forgot what they made them great in the first place. It lacked the funkiness and the diverse sound that made their debut so phenomenal.

The Neptunes have done a lot since then, they signed Robin Thicke and Slim Thug, produced more hit singles, and produced Kenna's second album *Make Sure They See My Face*, half of Gwen Stefani's second solo album *The Sweet Escape*, half of Madonna's latest album, *Hard Candy* and produced what was arguably the best rap album of 2006, Clipse's *Hell Hath No Fury*. Pharrell even tried going solo with his album *In My Mind*, but the result was simply lackluster as he was unable to capture the same magic he once had with his #1 solo single "Frontin'" from 2003.

Fast-forward to 2008, N*E*R*D finally drops their first album in 4 years, *Seeing Sounds*. Pharrell has stated that their goal is to recapture the chaotic sound of their debut that was missing from *Fly Or Die*. It was quite obvious that they weren't too proud of how *Fly Or Die* turned out considering "She Wants To Move" was the only song from the album that made it to their setlist during the *Glow in the Dark Tour* with Kanye West, Rihanna and Lupe Fiasco (while 4 songs came from *In Search Of...*).

I'll give credit where it's due. First thing's first, this album is better than *Fly Or Die*. It is apparent that they have revisited their funky sound on some of their tracks. Although the songs become rather formulaic when you realize that almost every track contains a total melody and key change during the bridge.

But, there was one thing they clearly haven't learned yet. PHARRELL, FOR GOD'S SAKE, PLEASE STOP RAPPING! Seriously. At least when Kanye West was rapping slowly, he was able to come up with smart rhymes and doesn't bore me to death. Pharrell is as much of a lyrical genius as Paris Hilton is a respectable human being that deserves any sort of attention. He either rhymes by adding "yo" to the end of each line, uses the same word multiple times consecutively, or comes up with rhymes like "She's like the Bill through my Gates entitled Windows/She said 'Don't go Microsoft, you're liking when I've been low.'" Nice geeky reference, but what the hell is that supposed to mean?

Unfortunately N*E*R*D also fails to make up the lacking lyrical department with catchy melodies this time around. Only a few of the songs are remotely memorable and this is saying a lot considering I've been spinning this album multiple times since I copped it. Amongst the memorable songs are "Laugh About It", "Spaz" and "Everybody Nose (All The Girls Standing In The Line For The Bathroom)". The latter and "Anti Matter" also had a tendency of being highly obnoxious by repeating the same lines way too many times. "You jump around like you ADHD!" chants Shae in "Anti Matter." That may explain why I couldn't get into the song.

One of my personal favourites is "Yeah You", a soulful midtempo overlayed with soft bass, hand claps, saxophones and harmonized background vocals, that talks about a female stalker wanting a piece of Pharrell. It would probably be a nice relaxing song if it were about anything else. Then there's "Sooner Or Later", which may sound familiar, right down to the instrumental break towards the ending. Oh right, I believe I liked this song more when it was called "Maybe" and was track 10 on *Fly Or Die*!



One of the things they did learn though, is that they are actually familiar enough with Pharrell's limited vocal range and not make him sing anything found to be too challenging for him. Pharrell's off-key falsetto is what makes his voice so unique and pleasing to hear. It was definitely an improvement over his solo album. The subject matter referenced in each song is also an improvement.

While the majority of Pharrell's solo album was related to Pharrell's sexual fantasies that nobody really needed to know and *Fly Or Die* dealt with adolescence issues like parents, bullies, rebellion and first love, which normally would be okay, except Pharrell was 30 when he made that album; *Seeing Sounds* has a nice balance of senseless party jams, love songs, feel-good tunes and even a song poking fun of girls doing coke at a club ("Everybody Nose (All The Girls Standing In The Line For The Bathroom)").

My biggest problem with *Seeing Sounds* is that half of them seemed like they were directly taken from *Fly Or Die* and the other half tries too hard to be like *In Search Of...*. When half of the album sounds the same, it becomes rather predictable, which voids what they were trying to achieve with the album. This leaves me wondering whether N*E*R*D will ever be able to create another album at the calibre of *In Search Of...*. This album is not by any means a terrible album, but they really need to start trying a little harder if they don't want their music to live in the shadows of the music they produce for other artists.



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So You Didn't Get a Job First Round, eh?

It's Probably Because You Look Like a Slob!



BRYAN SACHDEVA
4A COMPUTER
ERICA WAUGH
4A CIVIL

While the casual dress habits you've picked up from our last instalment are great, they won't do you very much service when you step into an interview. Ever catch yourself saying, "Well I don't want to work at a company if they're going to care about what I wear to the interview"? If so, then I'm sorry to say that you won't be working anywhere soon (with the exception of the street... I hear that University near Weber is looking to hire). Part of the "Flawed Design" that Stabilo was singing about was the fact that our minds make judgments based on stimulus. It's a cognitive shortcut that allows people to quickly sort between different categories of people (i.e. the lazy from the concerned). The tips provided herein are to keep you from being improperly sorted. And while they won't guarantee employment, they will make it easier for your skills to come across without distraction from your ketchup-stained shorts. As a bonus, we've thrown in tips for general formal wear. If you're feeling confident, we highly recommend showing it off at the upcoming "Dirty Dancing"-themed Engineering Semi-Formal.

Bryan's Tips for Lads:

The first point to stress is that the cliché black suit & tie is no longer going to impress people. It does little more than say you're following CECS's guidelines and that you have little concern or creativity when it comes to personal style. Remember that what you wear says something about who you are, and employers need to know that. Of course, the opposite extreme is a far worse choice. Nobody is going to take your shorts and polo-top seriously.

For job purposes, think about what kind of place you should expect to work in. Do your research and find out if the place is casual and laid-back, or very serious; if they are purely internal or client-facing. If you don't know, assume a more conservative environment that leans toward the serious side with the potential for client visits. No matter where the job is, the golden rule is to dress simply, comfortably, but with flare and personal style.

I highly recommend a pair of flat-front (not pleated) simple khaki or black pants, with khaki being for more casual environments and black for more formal. Avoid unnecessary numbers of pockets, and choose a relaxed or straight fit. A perfect example are Gap's stain and crease-resistant flat-front relaxed-fit khaki

(now on sale) or their straight-fit heather clean pants. Your pants should not bunch at your shoes, so be sure to get them altered appropriately.

And while we're talking about shoes, Doc Martens and boots are not appropriate. Instead, a slim and simple black polish-able variety is best. Consider a nice pair of inexpensive loafers from Aldo or the cheaper Spring / Transit for a stylish, comfortable, affordable, and easy-to-put-on compliment to your outfit. Brown shoes are a better choice for khakis. The area between the bottom of your pant leg and the top of your shoe will be visible when you sit down. Please, for the sake of my eyes, do not wear white sport socks. Wear black (or better yet grey) socks when wearing black shoes, and grey, navy, or tan socks when wearing khakis.

The top gets the most attention, so you'll really need to plan this one out. The eye really likes texture and structured patterns. For a formal job, match your dark pants with a deep colour (royal blue, crimson, ochre, pistachio). If you are sticking with white, then choose a more expensive kind that features an interesting texture (see Banana Republic's textured shirts for example). For less formal positions, you should still opt for a button-down and collared shirt. But feel free to be playful, with things like stripe patterns, interesting (but non-ostentatious) colors. A fun alternative for more laid-back positions are short-sleeved button-downs.

When it comes to ties, solid color ties are always a safe choice and look great. Complimentary-coloured (colours which are opposite on the colour wheel) ties with a single direction stripe is generally considered more fashionable. Note that a full-Windsor gets a touch bulky and is better suited for more formal affairs. Stick with the half Windsor for interviews.

While a blazer is fine, there are creative alternatives that are just as professional. A slim-fitting V-neck, sweater vest is great. The must-have accessories for any serious candidate are a belt (matching the color of your shoes), a watch, and that's it! The only permissible exception is the addition of a handkerchief in the chest pocket for added flair.

So assuming you've landed your high paying job, and you're going to Caesar's or to Semi-Formal to celebrate, you'll need to revise your dress-up look just a bit. For the night time, the khakis just don't work. They are a day-time pant. Very dark and very-slim fitting jeans may be appropriate (no carpenter, plumber, or otherwise chunky fits allowed). Your shirt can be solid color only if you're wearing a sport

blazer. These have recently come back into style, and look great if they are short and slim fitting and of a solid color. Check out H&M for a selection. Otherwise, pick a striped shirt that has stiff collars. No, not for popping, but so they maintain their shape throughout the night. Keep the tie on for added style.

Erica's Tips for Lassies:

As Bryan stated, black suits are très passée. It's quite depressing walking to the CECS building and expecting a funeral procession to pull up. We can do better girls! Suits are always a classic and easy to wear but black is not going to help you stand out. I know it's easy and it matches everything but let's branch out a bit. Firstly, when buying a suit, avoid pleats, extra pockets, and embellishments. Look for a coat that tapers at the waist and pants that don't hug too tight. Also, try to find something with a coloured pin-stripe (ie: brown suit with pink stripe) this will help you match to the suit (anything the same colour as the stripe will do fine) and also looks very classy.

When it comes to tops, girls have it pretty easy. As long as it's clean and fits your body you are set. If your suit is a neutral (black, blue, grey, brown, cream, etc) try to choose a more colourful top. The t-shirts from Smart Set which I mentioned last week will do nicely. If your suit has stripes, avoid wearing a striped shirt, this just gets busy and looks messy. If you are less interested in a suit, dress pants and a nice sweater are a refreshing change. Look for colours or patterns; this will help employers to remember you.

If you choose to wear a skirt, it should be knee length and no shorter. As my Dad so eloquently stated, "Don't dress slutty, you are trying to find a job and not a pimp."

The EngSoc Semi-Formal is fast approaching and I bet you are thinking, *I can't go, I don't know what to wear!* Well now none of you have this excuse. I suppose your excuse could be "I can't go, I have no one to go with!" ...well...call me. Moving on!

Dressing up for a semi-formal can be a lot of fun. You get to glam yourself up and strut your stuff with all of your friends, count me in! First decision is short or long dress. Longer dresses tend to be more formal. The fabric of the dress can also determine its classiness. Cottons are less formal, silks and satins lean towards formal. Choosing the right dress is as easy as choosing any other article of clothing. Dress for your body type. If you are self-conscious about your midsection, choosing a dress with ruching (read: intentionally bunched fabric) will lessen the attention to this area. Longer dresses that do not flare at the bottom tend to accent your bum. If you are trying not

to draw attention to your bum, choose a skirt that flows away from the body and likely knee length.

Now that you know how the dress will fit, lets move on to colours. I know you want to choose a classic black dress. Why wouldn't you? Black is slimming, it matches everything, and it is appropriate for every occasion. Did I mention it is boring as sin? Ya, get over it. Get some colour into your wardrobe! The hot colours for the summer are yellow and purple (not together though: hello Easter egg!).

I have left out a crucial item to complete our look--- SHOES! Well, shoes and accessories. If you are preparing for an interview, plain shoes are a better choice. Your outfit is likely geared towards black or brown. Choose your shoes based on this. If you choose to wear a heel, make sure the pants almost hit the ground. Never wear open toes to an interview. Opt for a feminine loafer or Mary Jane. These are both comfortable choices. When we move to semi-formal attire shoes get a heck of a lot more fun. Do not be afraid of pointy toes! They don't actually squish your feet as you might believe. A great stiletto, pointy toed shoe, make your legs and bum look great and add a fabulous sex appeal to your outfit – always a classic choice. Peep toes seem to be the new "it-shoe" to have. They are available as flats, kitten heels (read: tiny little heel), or stilettos, even wedges (read: heel that goes along the whole shoe)! Be warned: DO NOT WEAR PANTY HOSE WITH OPEN TOED SHOES! This is a classic faux pas and I will shun you. Another faux pas to avoid... unless it is a wedge, chunky heels belong at your high school prom where you didn't know what fashion was. Please avoid! Have fun with shoes, know that fancier shoes are likely to be less comfortable but who wants to wear sneakers to a formal affair. Suck it up, Princess. We all end up bare-foot anyway.

Accessories can also be fun. Depending on the cut of your top, whether for interviews or other, choose a necklace with the same cut. The necklace should follow your neckline. Don't overdo your accessories; try to choose 2 of necklace, bracelet, and earrings. If you wear all 3 they had better match. Big earrings are better suited for semi-formal, same goes for dangly bracelets (FYI bangles are so hot right now!).

Have fun dressing up, don't be afraid to try something new! Bright colours and shiny jewelery are super hot this summer. Good luck with interviews and see you at semi-formal!

Love you bitches,
Erica & Bryan

Upcoming Events Calendar

Monday June 23 5:30 : IW Meeting (CPH 1323B)	Tuesday June 24	Wednesday June 25 EngSoc Meeting #4 (CPH 3385) IW Issue 3 Publication EngSoc Exec Nomination Open	Thursday June 26 Enginuity #4 Boggan Burgers	Friday June 27 GradComm PubCrawl	Saturday June 28	Sunday June 29	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca
Monday June 30 UW Holiday	Tuesday July 1 UW Canada Day Celebration (Columbia Lake)	Wednesday July 2 GradComm Pizza 5:30 : IW Meeting (CPH 1323B)	Thursday July 3 Enginuity #5 DUSTED Boggan Burgers	Friday July 4 Semi-Formal: Dirty Dancing (SCH) IW Issue 4 Submission Deadline WEFF Proposals Due	Saturday July 5 Year 2011 Spirit Camping EngSoc Elections Campaign Begins	Sunday July 6 Year 2011 Spirit Camping EngSoc Elections Campaign Begins	
Monday July 7 5:30 : IW Meeting (CPH 1323B) Rock Band Competition (POETS)	Tuesday July 8 Rock Band Competition (POETS)	Wednesday July 9 EngSoc Meeting #5 (CPH 3385) IW Issue 4 Publication	Thursday July 10 EngSoc Election Forum (CPH Foyer) Boggan Burgers	Friday July 11	Saturday July 12 EngSoc Joint Council Meeting (CPH 3384)	Sunday July 13	

HUMOUR & SATIRE

How to Screw Up Your Interviews

ANONYMOUS

Let's face it, when you're going through the process of applying to co-op jobs, you sometimes apply to ones that you secretly hope you don't actually GET, but apply to anyways simply because they're close to home, as far away from home as possible, the titles sounded good but you didn't actually read the job description or any number of things which appeal to you personally and/or would likely get you an interview. This is, in general, prudent, but when you nail that interview with your first choice job and you really don't want the possibility of being matched with one of your less desirable ones, you are faced with two options: attempt to get the job signed off, or leave a less-than-ideal impression of yourself during the interview. Of course, if you really don't want the position, the sensible thing to do is contact CECS and tell them so (although they may have a reputation of giving you a hard time if you choose to go that route), but if you're feeling edgy and burning bridges is your cup of tea, look no further for inspiration:

1. Purposefully refer to your interviewer by the wrong name – Find out his or her name beforehand and pick one that doesn't even sound remotely like it. Make sure to

preface every question with the name, and continue to use it after they correct you (although you may want to wait a few questions after each correction to seem a bit more legitimately stupid).

2. Talk on your cellphone or listen to music during the interview – This can either be done subtly by getting a friend to call you during the interview and politely excusing yourself, or in a blatantly disrespectful manner by coming into the room already wearing headphones or a Bluetooth headset. Random expletives of "I love this song!" should be used for maximum effect.

3. Come to the interview decked out in paraphernalia of the company's single largest competitor – Microsoft interview? Make sure you show up with the Apple logo plastered on your t-shirt, hat, briefcase, and any other visible piece of clothing. If you want to be extra bold, come in listening to an iPod (this also satisfies recommendation #2).

4. Respond to the interviewer's questions with more questions – the ruder the better – i.e. the correct response to "Why should I hire you?" is "Why should I want to be hired?", and "What makes you qualified for this job?" should be responded with "What makes you qualified for this interview?"

5. Pretend to fall asleep – Wait for them to go into a long-winded explanation of the position (or ask them about it yourself if the opportunity arises) and then slowly nod off, preferably culminating in you resting your head on the desk or leaning off the side of the chair with drool exuding from your mouth. When they mention your apparent lack of consciousness, you jump to alertness, apologize profusely, and then do it again when they resume their explanation.

6. Pretend to be battling a contagious sickness – While there is nothing funny about being sick, there is no better way to minimize the time both you and the interviewer waste during an interview! Carry a moist handkerchief as you walk into the interview, you keep coughing. If you are not interrupting the interviewer, then you're not coughing loud enough. Pretend to sneeze a bit for additional effects. Don't drink water for at least 2 hours before the interview so your voice becomes extremely coarse. If you want the full effect, make sure you apply some makeup on your face to make yourself look paler. You'll be out of there even quicker than Nicole Ritchie's stay in jail!

7. Pretend to be late for another interview – Show how much you [don't] care about the job by setting straight your pri-

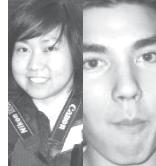
orities. As you introduce yourself to the interviewer, politely say "I'm sorry, I'd love to stick around, but there's this interview for this company I *really* want to work for and I *really* don't want to give *them* a bad impression." Sometimes partial truths may go a long way.

8. Hire somebody else to go – Let's face it, we're Engineering students. Unless you're on the top billing of the next Eng-Play, chances are you're not really good at acting. Why not leave it for the pros to do it? Hire a struggling actor to go to your interviews for prices you would never believe! Why look any farther when both Laurier and Waterloo have Liberal Arts programs?

Clearly, the mundane act of signing off a job pales in comparison to the excitement of using one or all of the above tactics to avoid getting a job. Good luck, guys!

Disclaimer: Although admittedly if you are actually considering doing these things in a real interview you likely don't HAVE any interviews to be doing them at, I am not responsible for any professional or bodily harm caused to yourself or others as a result of using these tips. The Iron Warrior does not actually endorse acting unprofessionally during interviews or disrespecting interviewers.

How to Distract Your Roommates from Studying



SYLVIA WU
1B MECHATRONICS
ROB GRAHAM
4A COMPUTER

Got a roommate who really grinds your gears? There's no better time to get back at them than during midterm week! Not replenishing toilet paper or prancing in your suite inadequately-covered are overused tactics, but the good news is that there are a bunch of other strategies you can try!

Let's face it: when exams roll around, good wholesome meals take a back seat to learning. Students settle for quick and dirty meals, innocent looking snacks, or even the economical approach: fasting. An interesting strategy guaranteed to take advantage of this is to bake a delicious afternoon treat – cookies, cinnamon rolls, you name it. The smell of anything cooking will make anyone snap out of studying. Even more aggravating for your roommate is if you deny them the oral pleasure of having a taste. A timely and directed sneeze, a visit with the kitchen floor, or even eating them all yourself are quick ways to achieve this. If you are the cynical type, your cooking strategy might very well be the converse: cooking some offensively-scented dish. The pungent wafts accompanying fish or fried eggplant are sure to stop studying dead in its tracks. Boiling up some curdled milk never hurt either – no one said it had to be edible!

Okay, so you're not a cook. There are still other ways around this distraction process,

especially if your ego is willing. Loud and disruptive forms of intimacy will surely stall memorization of Laplace transforms. It would also interrupt the learning process of everyone within a 25-metre radius, so perform this strategy wisely.

Maybe a more intriguing approach is to get your roommate to distract themselves so that you don't have to. Case and point: Saran wrap. A well applied layer over the toilet can make for an interesting adventure in the washroom. Panicked yelps and screams due to diverted waste will be sweet confirmation of success. Your roommate will be forced to undo the damage when this strategy is in play, thereby occupying precious time and energy.

Alright, you tried cooking, loud passionate lovemaking, and even the toilet trap, but your roommate is unfazed and studying harder than ever. There is one last resort, saved for the non-squeamish: the spider nest. Admittedly, these things are never around when you need them the most, but scanning closets, windows, and ceiling corners are very likely locations. Relocating one of these to a roommate's room is no easy task, but doing so is guaranteed to make the next few hours worth savoring. Spider hatchlings are nothing less than eerie. Instinctively, hundreds of them scurry apart and competitively manufacture little webs anywhere they can manage. Dealing with this phenomenon is tiresome, thorough, and the sleep is bound to be minimal, but it is the trump of all distraction tactics if you are able to pull it off.

Dangling * Pointers

Sandwich boy:

Please look up for once when you make that Toasted Chicken Club with no lettuce and no tomato at 11:45am every Tuesday and Thursday. I don't buy the same crappy lunch that doesn't hold itself together week after week for no reason!

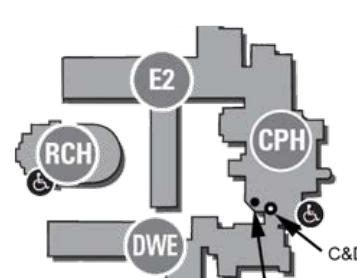
-- Allergic to vegetables

I've never gotten the wrong change at the Engineering C&D (despite having it happen to me at Math C&D everyday). For popping my Eng-C&D-wrong-change cherry, I feel obliged to give you a private arithmetics tutoring session. 7 PM this Friday--I'll be wearing with my pink tie and holding an abacus.
-- Mathie in MTE120

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

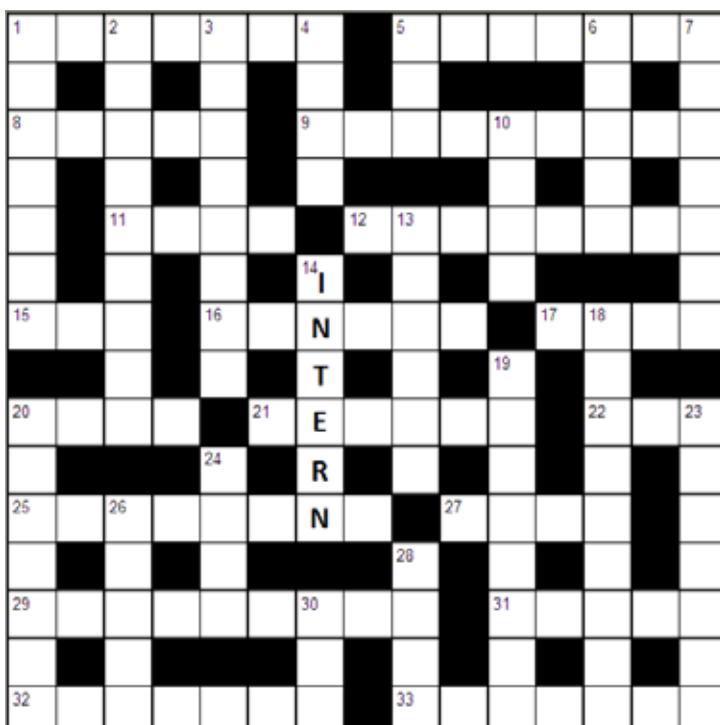


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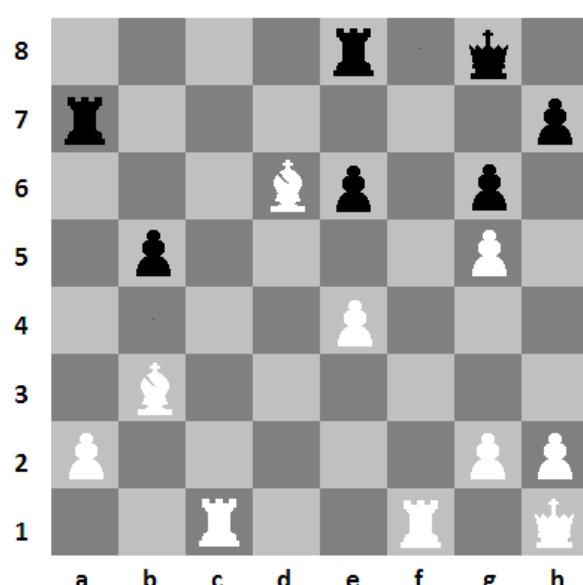
The Iron Cryptic Crossword

ROB GRAHAM
4A COMPUTER



Chess

ROB GRAHAM
4A COMPUTER



White mates in 5 or less.
Hint: Nothing too crazy

Across

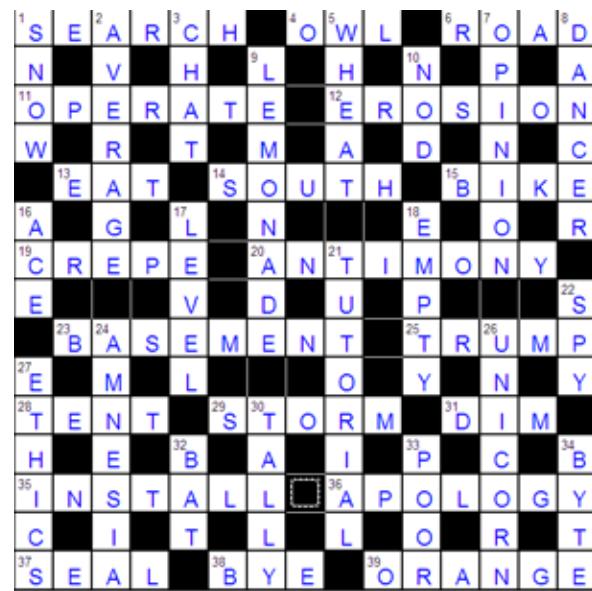
1. Energy created by smashing tribune
5. Nationalist from three people consumed by a gentle touch
8. Haven when swapping blood type at beginning of foundation.
9. Midday subsequently negative and operational
11. Computer giant thinks hard without tungsten
12. Maybe get mixed memory
15. Mixing one makes a long time
16. Untangle while removing silver makes an underground passage
17. Quick scrambling Fiats without you
20. Edit changes produces better nutrition
21. Removed delegate drops silver
22. Insect oddly breves
25. Hurrying shuffle deep within sing
27. Sphere wallaby erasing path returned
29. Patronized mix lacking elemental gas produces quadrilateral
31. Irritate from containment of negative in any
32. Forecast previous beginning, contradict ending
33. Teen elm shuffled component

Down

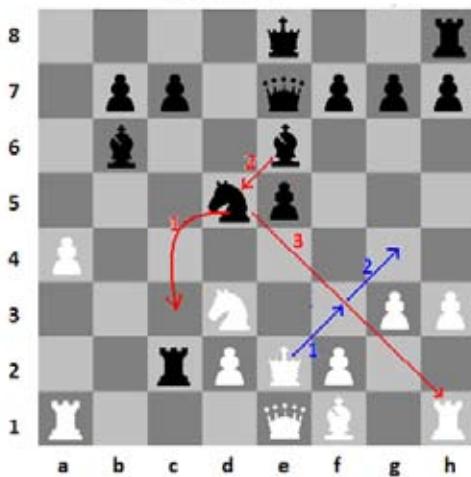
1. True lob mangled problem
2. Eby mixing screened, you
3. Pad in, us upward, and not punctual
4. Test examined outset
5. Ceramic top reversed
6. Tusk evenly sour within ivy
7. Single contact among Spartan gentlemen
10. Alternating freehand interpretation
13. Prime French article surrounded by odd opposition
14. Temporary placement of data type and brown eagle
18. Vehicle altering acne album
19. Direction and expected score having been consumed becomes broken apart
20. Computer work table at the highest position
23. Weep insertion into closely confined code
24. Stationary odd indulges
26. Remove among decreased
28. Red gecko hides boundary
30. Even yogurt results in external?

Be the first to complete the Cryptic Crossword or the Chess Puzzle and win 50 P**5 points for your class! Submit completed puzzles to the P**5 box located inside the Orifice after being time-stamped by Betty.

Last Issue's Solutions



ANSWER BOARD



Congratulations to 1B Tron for completing the chess first!
Unfortunately, nobody solved the Cryptic Crossword. :(

Caption | Photo of the Every-Other-Week | Contest



Michael Seliske

You can win P**5 points by winning the caption contest!

Submit your caption to iwarrior@engmail.uwaterloo.ca
Be sure to put "Photo Caption Contest" as the subject,
and include your name, program and term.



Michael Seliske

Winning entry from last issue's contest:

"EngSoc is really starting to run out of places to hide the bodies..."
- Stuart Pearson, 1T Civil