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the IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

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Getting Your Exercise On!

Page 5



Pies in the Face: Charity you don't want to miss!

Page 7



Guide To Getting Rid of the 2004s

Page 9

Kicking Off Term Right Touring Local Establishments

Robin Wilson

4B Electrical



Friday January 16th was the night of the first Pub Tour of the Winter Term. The Tour started officially in POETS at noon, although this was truly for the hardcore tour-goers only.

At 4 p.m., the crew moved on to the

Bomber where plates of free nachos and cheap pitchers greeted the Tour members.

At 5:30 p.m. the tour moved onto Kickoff and was warmly welcomed by those awesome bartenders, Troy and Bill. Foosball was a hot item there, as were the tens of free Keith's shirts that were thrown out to the crowd.

Next stop was the Mongolian Grill where we were joined by those wacky first year TA's Don and June. Just like on any Monday, martinis were the highlight, along with the chest hair contests (yours truly was judged champion).

After Molly's, which was next after Mongolian on the tour, we headed to McGinnis for 9 p.m. Here, there were even more free t-shirts. The crowd was thick at McGinnis and those on the tour filled the whole bar.

Weavers Arms was next in the rotation; however, at this point there were too many people to fit, leaving some of the later folks to skip ahead to Johnny Fiascos.

By the time the rest of the crowd showed up at 11:30, Fiascos was completely packed. As this was the first time

for Fiascos on a Pub Tour, the nachos, garlic bread, and deep-fried vegetables were both welcome and unexpected for many of the regulars.

Overall, there were more than 200 on at least part of the tour. Excellent conversation was had with friends both old and new, both ASoc and BSoc, and I think it's safe to say that most of those in attendance had an awesome time.

The next tour runs from noon today (Friday, January 23rd), so grab a schedule in POETS, and come on out and be part of the fun!



Engineer This! Demonstrating Your Engineering Pride

Michael Henheffer

4B Computer



Engineer This! As the title of this term's Scavenger Hunt exclaims, the Hunt gods will be challenging you to use your broad engineering knowledge and spirit in the pursuit of great deeds and great fun.

Running from noon on January 30th until noon on January 31st, the Hunt this year is sure to be a great finale to EngWeek. "Engineer This!" will be jam-packed with events highlighting engineering accomplishments and demonstrating the pride that UW engineering has. Make sure you enter a team if you want to show your engineering pride, or in the case of Math students, pretend that you have engi-

neering pride.

Now, if you are wondering how you can participate in this terms hunt, read on. You can sign up in the EngSoc office (CPH 1327) up until January 30th. There is a small cost to participate, as we need to purchase supplies for the events of the night. The cost for engineering teams will only be \$30 thanks to the support of the engineering society. The cost for non-engineering teams will be \$50.

We will also be selling T-shirts for the event at a cost of \$15 each. Teams will get bonuses for having team members wearing T-shirts. There is also a bonus for wearing your hard hats, so make sure you bring your hard hats and show your engineering spirit, just like during your frosh week.

You can email scuntW04@watalu.com for more information about the scavenger hunt.



New Mandatory Courses

IW News Bureau

Starting with the class of 2009 this fall, engineering students will have to complete five professional development courses - one for each of the five required work terms. This issue examines those courses.

On Page 6, the on-stream VP Education explains the current situation regarding the courses in a brief overview.

On Page 8, the courses themselves are debated for their merit as tools to better educate future engineers.

On Page 9, the off-stream VP Education writes in depth on these courses, and provides answers to some frequently asked questions.

The IW invites readers to submit their thoughts on these courses as letters to the editor in the February 6th issue.

A college degree is not a sign that one is a finished product but an indication a person is prepared for life - Rev. Edward A. Malloy

Letter from the Editor

Jeff Henry

4B Computer

Editor-in-Chief



Before getting into the body of this letter, I would like to welcome all of you to what should be an exciting winter term, whether you are a long-time member of Engineering Society 'A,' a newcomer to us from Engineering Society 'B' or completely unsure about what either of those two other categories mean.

Throughout this term, the staff and editorial board of the Iron Warrior will be doing their best to put out a quality publication full of articles of interest to you, the reader. Of course, that means that we welcome your suggestions, comments, and letters to the editor throughout this term; moreover, we welcome any article submissions from you electronically at iwarrior@engmail.uwaterloo.ca on virtually any range of issues.

In this issue, we take a hard look at the planned mandatory professional development courses to be taken by future engineering classes while on co-operative work terms, as well as the best and worst of fitness centres accessible to you. Information for the Graduating Class of 2004 is also featured, along with tips to younger years about how to smooth the exit of that obviously spirited group of almost-ringed engineering students.

That last point makes a good segue into the issue I would like to focus on for the remainder of this letter; namely, the image and direction of the Engineering Society.

For those in attendance at the first Engineering Society meeting this term, it was impossible not to notice the raucous crowd situated at the back of the room. That spirit was flowing from this group was obvious. Equally obvious, at least in this instance, was the lack of respect for the Engineering Society itself. Though some may argue that the meetings of the Society are not intended to be its best face, it is, most certainly, the face that newcomers and outsiders see most readily. First impressions are usually the only chance you get with any other person, and the same is true for the Engineering Society. Many of those in the room that night left, early, with a sour impression. Many of those may never return, so, clearly, this is a loss to a student organization that is, by design, supposed to be there for the students.

I would like to assure everyone who was present that this is not the true face of the Engineering Society and that they should most definitely give it a second chance. Unfortunately, it is simply not

accurate to say that the face presented on January 14th is not one of the Society's more prominent faces. Many a time, I have heard Society members, both past and present, talk about the culture shift that has occurred over the last decade. The current legal status of many in the first year class embodies the end-result of that shift; specifically, the shift away from an alcohol-centric student body to one much more studious, or at least, centred on other activities not involving alcohol.

Has the trend been a simple one for anyone to accommodate? Certainly it has not been easy. The University of Waterloo, through PACO, has attempted to mould orientation week to cater to the new culture instead of to the old. The Engineering Society too has faced the same problem, but one cannot say for certain that it has fully adjusted to the trend. From empty busses bound for the Brunswick House in Toronto, for Bingemans in October, or for an unsuspecting small town establishment, to other activities that, due to liability reasons, are no longer affiliated with the Society, the attendance, not the events, have changed. The resistance to change is almost mind-boggling, and, as such, an examination of the role of traditions will be the subject of next issue's "Point-Counterpoint."

That is not, of course, to say that there are not other faces of the Engineering Society. Far from the aroma of hops and barley emanating from the term pubs, there is a side of the Society working in the interests of the majority of the engineering population, if not also in the interests of the minority. The President – this term, Laura Mooney – represents student interests on the committee that decides the fate of those students in academic limbo, the Examinations and Promotions Committee. She attends Engineering Faculty Council, sits on the WEEF Board of Directors, liaises with Society Presidents and the FEDS through the Council of Presidents, and many more. Whether it is about your personal academics, your WEEF donation money, or faculty-wide academic and financial issues, there is a voice for you through the President in most of the right places. This level of trust exists because of a completely different face of the Society.

Numerous directorships have also come about in recent years to showcase and indulge the non-traditional, but new, interests of engineering students. The Engineering Drama production, significantly supported by the Society, is an excellent example of this different face. The Bridging the Gap lecture series, co-sponsored by Society, the Dean and the Sanford Fleming Foundation, opens the minds of attendees to the possibilities and challenges of the outside world six times a year.

Engineering Explorations (see page 7) and Shadow Day bring in the community and shows the middle and high school students what is possible for them.

Services like the photocopiers, the binding and fax machines, and the exam and work term report banks, along with the affordably priced food and coffee Engineering C&D and the big screen, comfy chairs, foosball and study area in POETS, provide numerous students with what they need to get through the term, or even through the day.

All of those aspects are, however, lost by the reception any newcomers or outsiders got when they simply showed up in CPH 3385 just over a week ago to find out what was going on inside the Society. Any of them would be well within their rights to turn their backs on both Engineering Society 'A' and 'B.' After all, the meetings of the Society reflect directly on the face the Society wants to highlight. If anything could be gleaned from the conflict between those at the front and those at the back in meeting number one, it is that there is still a battle being waged as to the direction the Society should take. It is a battle over which face, or what balance between the two, should be embraced as the response to the current engineering student culture.

In her executive report on page 7, Laura Mooney assures readers that the back-row crowd will be "more subdued" in the second meeting. As a long-time member of Engineering Society 'A,' I certainly have a preference for what the direction needs to be; however, if the problem at hand is merely pushed aside by hoping the same thing doesn't happen at every meeting, there will never be a solution.

As far as excitement and enthusiasm goes, I personally cannot wait for February 17th. Already I can feel the ring on my finger; however, on that long-awaited day, I will also have to strike a balance. Respect and obligation come with the ring while indulgence and unadulterated exuberance surround the ceremony. Swing the pendulum too far to the latter, and the ring itself loses meaning. Swing too far to the former, and five years of blood, sweat, and tears passes cold and passionless for the transition from the current reality to the real world. The Engineering Society, to make a successful transition to its current reality must find a way to balance both of those sides.

Questions? Comments?

We welcome letters and feedback from all our readers. Please email us at:

iwarrior@engmail.uwaterloo.ca

the IRON WARRIOR

The Newspaper of the University of Waterloo Engineering Society

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drop by our office (opposite the Orifice) or e-mail us at iwarrior@engmail

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

The Iron Warrior encourages submissions from students, faculty and members of the university community. Submissions should reflect the concerns and intellectual standards of the university in general. The author's name and phone number should be included. All submissions, unless otherwise stated, become the property of The Iron Warrior, which reserves the right to refuse publication of material which it deems unsuitable. The Iron Warrior also reserves the right to edit grammar, spelling and text that do not meet university standards. Authors will be notified of any major changes that may be required.

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Dear LowRider,

I had a lot of fun on my work term. I worked with a great bunch of experienced engineers who made me feel like part of the team at a cutting edge company. I applied theory that I learned in class, had lots of time to work on my work report, and met a hot arts co-op student in another department that I'm now dating. I'm going back next term and getting a 25% raise.

How was your work term?

-3B Keener

Dear Keener,

LowRider's job description was "Fuel Celling Engineer" so you'd think it would be a great job, what with the hydrogen economy and all. Well it wasn't. Apparently there was a typo and ceiling was actually supposed to be selling. In any case, I spent 4 months pumping gas. I wore a brand new bandana the first day and it got covered with grease. My boss made me change the price sign outside whenever the weather was crappy. The highlight of the

Dear LowRider: uw_LowRider@hotmail.com

Yet Another Triumphant Return By LowRider

term was when some guy in a suit gave me a quarter for washing his windshield.

In case you were wondering, I'll be going back next term. My boss said I could use the cash register, which is probably more useful experience than you'll be getting with your high-tech-corporate-sell-out buddies.

Thanks for asking,

-LR

Yo, LowRider,

I'm taking this chemistry course called organic chemistry. Why is it called "organic chemistry?" I know that I'm not very smart and I'm sure that I would get made fun of for asking in class, but I know you'll tell it to me straight up, dog.

Represent yo,

2A to tha Izzo

PS: Do you like my ghetto-speak?

Dear Izzo,

I remember some of 2A! What a crazy time that was. Back to your question: when the Chem Eng department got rid of the Enviro Chems, everybody was really upset so they made your course "Certified Organic." What most people don't know is that they also added an option in pesticides, herbicides and genetically modified stuff (PHGMS) to balance things out. This should all be in that highly useful undergraduate calendar thingy, somewhere towards the back.

As for your "ghetto-speak", it sounds pretty good.

-LR

Dear LowRider,

Which Professors have the longest or coolest names?

Best Regards,

Eduardo

PS: You suck! I tear your column out every week and wipe my nose with it.

Dear Eduardo,

Lucky for you, the new editor-in-chief told me to be nicer to people who write in and insult me. Therefore, let me say that I enjoyed your question. Professor Shutthe Hellup has a name you might like. So do professors Iknowhere U. Live, and Iwill B. Rake-Yourteeth.

I hope that sets things straight and answers your question, numbskull.

-LR

Dear LowRider,

How come you only answered 3 letters this issue? Don't you usually answer at least 4? I hope you're not slipping.

See you around,
-That little self-doubting voice inside my head

Dear Little Voice,

Shut up. I have a cold.

-LR

Mystery Night Movies: "Cold Mountain" and "The Last Samurai" Reviewed

Afsheen Khan
2A Chemical

UW has always taken into account the recreation and entertainment of the students; hence, most of the events are geared to make university a fun experience. Following the traditions of UW, frosh were warmly welcomed back for their second term at school with an entire week of several events. One of those events was the "Mystery Night Movies" on Tuesday, January 6, 2004 where a free ride to the movies was arranged for the students. Shuttles to Galaxy Theater at Conestoga Mall started at 5:30pm and went until 7:00pm. Students in groups and pairs could then watch the movie of their choice.

At this time of the year there are a number of movies that are doing great business at the box office. Anthony Minghella's 'Cold Mountain' and Edward Zwick's 'The Last Samurai' are some of the more popular among the students. Both of them are old stories and the most moving ones.

'Cold Mountain' is a comparatively straightforward war story about a couple in love during the American Civil War. It has a powerful plot that weaves the journey of its two protagonists, Inman (Jude Law) and Ada Monroe (Nicole Kidman), as they endure the hardships of war and await their reunion. Inman, a Confederate soldier wounded in the Battle of the Crater (one of the strongest cinematic battle scenes in recent times), realizes as he lies in the hospital that he has already had enough of the fighting and he goes on a journey back home that will take him through a series of trials. He's tempted by sirens, tended to by a mountain shepherdess, and betrayed by a mountain man he meets along the way. Through it all, his thoughts are never far from the woman he loved and left behind at the farm on Cold Mountain, the beautiful Ada, a true Southern belle. Regrettably, Ada's schooling in the finer things in life has left her

unprepared to look after the farm on her own as war rages across the country and the local forces, known as the Home Guard, wreaks havoc on the home front it's supposed to be protecting. Longing for Inman and weary of the struggle to survive, Ada welcomes the help of Ruby Thewes (Renee Zellweger), a farm girl whose friendship and common sense spark Ada's transformation into a independent woman. 'Cold Mountain,' with a dramatic plot and marvelous production, is moving and well worth watching.

'The Last Samurai' revived the ancient world of the Japanese samurai. Another war story, Capt. Nathan Algren (Tom Cruise), who fought bravely during the American Civil War, has been embittered in the years thereafter by consequences and self-interest. He drinks heavily to drown his nightmares, particularly the ones about his role in the slaughter of the proud Native Americans in the name of progress during the Indian Wars of the 1870s. As a mercenary for hire, Algren heads to Japan to train the newly formed Imperial Army and usher it into the emerging age of modern Western culture. The culture shift puts Japan's ancient customs and values in jeopardy, including the tradition of the fierce and highly respected samurai warriors who once protected Japan with their fabled swords and still live by a strict code of honor. The scenario is similar to Algren's experience with the Native Americans, but at this point he does not care; he just wants to get the job done, get paid and get out. But when the Samurai, led by the powerful Katsumoto (Ken Watanabe), capture him and take him to their remote mountain village, the reluctant prisoner slowly learns about the staunch beliefs of the people in loyalty, courage and sacrifice. Watching them "spend every moment doing whatever they do to perfection," Algren is quickly won over and feels he has finally found his place in the world. He trains with the samurai, becomes Katsumoto's friend and grows to love his newfound family. He is fond of Katsumoto's beautiful sister Taka

(Koyuki), with whom he develops a romantic relationship, and her young son Magojiro (AoiMinato). Yet the foreseeable battle between the old and the new ones over the proceedings and, as the title indicates, things do not end well for these

proud warriors.

Mystery Night turned out to be a great success as great crowds of UW students showed up if not for the movies than for the grocery shopping at Conestoga Mall. Either way, it was worth it in the end.

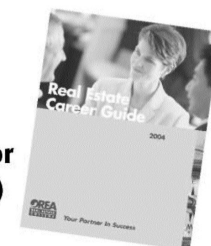
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Columns

Canadian Democracy and Why You Should Care

Andre Beltempo



3A Mechanical

As we're all back for another semester in the great institution of learning that is the University of Waterloo, I'm looking forward to buckling down and learning technical skills again, but also, sadly, saying goodbye to my favourite hobby during the work term: watching Canadian politics.

In case anybody hadn't noticed, in the last 4 months, we've got new Mayors and municipal officials throughout Ontario, including a new mayor for Toronto and Waterloo. We've got nine new provincial premiers, with new Cabinets behind them, and, oh gee, we've got a new Prime Minister. Basically, in 4 months, all three levels of Government (in Ontario, at least) have been altered. That's a pretty big upheaval for anybody.

Yet, down here on the ground level, nothing has changed. In fact, so little has changed that most people could care less about who is running their municipality, province or country, so long as they don't send armed thugs around to steal their possessions, raise taxes, or screw around with their little corner of the world. Voter turnout on all three levels is decreasing faster than the value of the U.S. Dollar.

This complete indifference to who's running the country, province or municipality scares me for several reasons. One, it shows that people don't think that the

government at any level really has any effect on their lives, positive or negative. Two, it indicates that no one really cares particularly about where their tax dollars go. Three, it displays the complete disengagement of individuals from the larger societal groups to which they unwittingly belong, like it or not. Each of these is not good, since, obviously we all do live in Canada, and do live in the municipality of Waterloo, Ontario (at least for now).

One of the problems of a government that works well, is that the majority of their work is performed on a behind-the-scenes level. We only really notice when the system fails, not when it's performing flawlessly. Yet the governments at all three levels perform functions without which we would literally die. Consider that government regulates almost every industry, providing codes of conduct, constantly improving, constantly monitoring, and constantly ensuring that the public safety is a priority. As future engineers, we will have to ensure that all of our designs meet government standards and codes, no matter what we do. These codes and regulations do not emerge magically from a black hole, but rather from conscientious groups of civil servants at all three levels of government. Without these, many of our tallest buildings, largest power systems, biggest chemical refineries and best automobiles would be remarkably dangerous to approach, let alone use.

Civil servants of the government do not make policy decisions regarding what to regulate, what to do with funding or what to enforce. The civil service is a very powerful tool, but the elected officials at

the heads of government, in the end, decide the direction. The words 'civil servant,' imply that the person possessing that title is there to serve the remainder of the populace, and this they will gladly do, but they have no place deciding what to do with public funding. Only the public themselves should control where money goes, and since everyone can't run the country at once, we elect people to represent us and make these decisions in our place. It is not the total democracy of Ancient Greece, but it has functioned well enough to give us the nation we have today.

Having said all this, people still have the incredible lack of forethought to care about who has any say about their money. This may come particularly close to home for those of us at the university. A few of us may recall the 'referendum' issue, where people voted for or against improvements such as an expansion of the SLC and Columbia Icefields, which would then be added, over the next twenty-five years, as a student fee. Turnout for that referendum was extremely low, yet students for the next twenty five years are now going to pay an added fee for the decision of a ridiculously small minority. On the municipal, provincial and federal level, people who may give up to 50% of their entire income willingly, without question, every year, treat the electoral process with disdain, assuming that government makes no difference in any case. The fact that anyone is willing to part with 50% of their income and then would assume that the money is lost, while not even pretending to hope to be able to tell anybody what to do with it, seems, to this

writer at least, an incredible waste. In the system described above, no one wins, because the politician does not really receive a mandate from the people, and therefore flounders, or at best treads water, hoping merely for re-election. The tax money is essentially wasted or tied down, and no change occurs at any level because the people who have the greatest stake in changing the system could care less about who makes the decisions about it.

How does the government make a difference in your life, you ask? Well, right now, we have several significant bills on the table, with the decriminalisation of marijuana and gay marriage high on the list. Other bills will be passed changing our trading policy with the United States, and right now, with new people at all levels, be it Miller and Epp, McGuinty or Martin, the time is ripe for serious change. If you really want to let an issue be known, write your Member of Parliament, MPP or Municipal Councillor. These people do exist, they are human, and they will notice it. The only way our elected officials get any feedback is through their constituents, and when we are silent, they lose touch. There's going to be a federal election this April, and despite the apathy that may surround who is in charge, I sincerely hope that people realize that the people we appoint literally do change our lives, and therefore we have good reason to be interested in their policies. In the final analysis, regardless of the outcome of this or any election, it's high time that people came to realize that any social system is only good as it's participants. Democracy is no exception.

Thursday, Jan 22nd
it returns to Fed Hall...

HEAVEN
& HELL



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Dance like the Devil

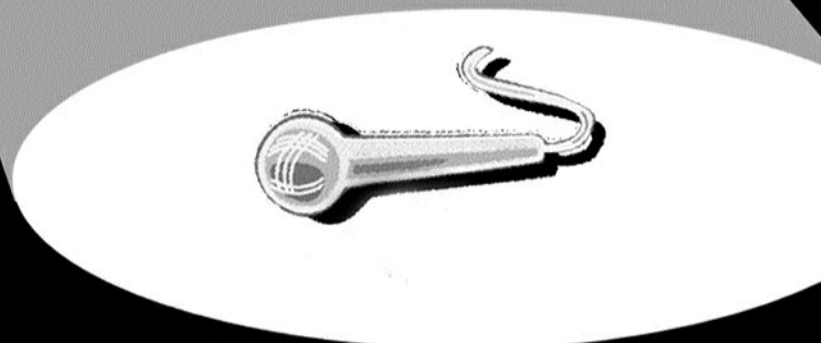


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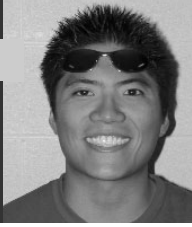
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Where to Get Your Exercise: An Investigation into Fitness Centres Near You

Dan Foong

4B Civil



The new extension at Columbia Icefields is full of unused open spaces, like the massive gap between rows of machines shown above.

On January 16, 2003, the University of Waterloo officially opened the extension to the Columbia Icefields. Unofficially, the new fitness facility and gym have been open since the beginning of the term.

Well, it's that time of the year, when everyone makes that New Year's Resolution to lose weight. After gorging over the holidays, everyone starts to feel a little guilty. Most people do the necessary thing and follow the continuing trend of signing up at fitness centers across the city. However, as students, we have several facilities available to us and it's just a matter of how we make use of them. In this article, I'll review the three fitness centers that are most accessible to students at UW. I tried to go to the gyms at the same time during the day, but there will be some obvious fluctuations in usage so I won't go into detail about how crowded the places were.

To properly assess each facility the following exercises were performed and rated: 30 minute run/jog/elliptical/bike (depends on availability), Chest Fly's/Bench Press, Chin-ups, Dips, Bicep Curls, Tricep Extensions, Squats, Lunges and Shoulder Presses.

THE PAC (Physical Activities Complex)

The most well-known exercise center on campus, the PAC has been revamped for the fitness-minded. However, it still bothers me that they would eliminate the upper gym and cram everyone into the lower area. Either way, some of the equipment has been moved, although I can't seem to locate where it's been moved. Most of the free weights that were in the upper gym have found their way to the lower gym, so there are at least a useful number available.

The only problem with the PAC is its lack of cardio equipment. Yes, they have one treadmill, two step machines, four elliptical machines, and three bikes (which are not of very high quality). However, this equipment is quite outdated and could stand to be updated. The sign-up sheet system that is used for the cardio equipment is utterly useless. As users start their exercises, they are supposed to move their names up to the "in use" cell on the whiteboard and shift everyone else up. There is just something wrong about this that I neither can quite put my finger on, nor can put tactfully, so I'll just leave it at, "this doesn't really work." A simple first-come first-serve system would suffice, but, due to the lack of cardio equipment, don't expect to get your heart rate up too quickly.

With the poor ventilation, I constantly felt dehydrated as I progressed through my workout. I don't know if it's just the smell and body heat that seems to radiate from all the people using the equipment, but the poor ventilation does nothing for a good workout. Total time spent in the gym (not including cardio time): 1.3 hrs.

"I don't know if its just the smell and body heat...but the poor ventilation does nothing for a good workout."

CIF (Columbia Icefields) Extension

The new fitness facility brings with it the addition of much needed fitness/aerobic equipment. Boasting four new treadmills, ten bikes, eight elliptical machines, two Stair Climbers, and four rowers, the new facility reeks of "brand spanking new!" With 6000 square feet of facility available, you would think that they would try to use the space to its full advantage. Instead, there is so much wasted space in this new facility that you could easily fit a few more free weights into this place (if 20 lbs is as high as the dumbbells go, you're better off just lugging around your backpack!).

Another problem is the sign-up sheets. Who came up with this idea? Nobody seems to follow the sign-ups. Twice I signed up to use cardio machines and when I arrived at the scheduled time found that someone was already there and still had anywhere from 10-15 minutes remaining in their workout. These machines should simply adopt a first-come, first-serve system. If there

happens to be a free machine, it should be available to use. If there are no available machines, then you're out of luck and have to wait. With the cardio machines being as new as they are, there's not much to complain about here except that they could have splurged a little and picked up a decent treadmill instead of one that rattles every time your foot comes in contact with the conveyor belt. I found myself modifying my workout to accommodate the use of machines versus free weights. Personally I like using free weights, as they provide a greater range of motion, and as a result a greater workout. Aside from the obvious smell (paint fumes just aren't as good as air), this new area has potential; they just need some more bloody free weights. Total time spent in the gym (not including cardio time): 1.5 hrs.

GoodLife Fitness (Columbia/Phillip)

Easily the most expensive of the 3 choices, GoodLife members are not necessarily restricted to using any single fitness club. GoodLife members can use any of the franchises clubs as well as take any of the fitness classes free of charge. A basic membership will run you about \$100/academic term, and full-year memberships start as low as \$500.

New members are generally taken on

a tour of the facilities before they even sign a contract. They are also usually given a free fitness assessment if they are first time gym-enthusiasts. When I signed up at GoodLife, over a year ago, my manager tried to get me the lowest possible price - I'm paying \$15/month now. If you plan on sticking to a long-term fitness goal this is your best option. Also, take note that GoodLife does not charge "hold-fee" for students. This means that if you go away on co-op and choose not to use GoodLife, you can put your account on hold and you won't be charged. You will have to pay an initiation fee, and then monthly fees on top of that. What you pay monthly is determined by what you pay as your initiation fee. I recommend you make your decision wisely.

The facilities at this particular

GoodLife ranged from useable to bad to worse. Let's start with the cardio equipment. The treadmills date back to the early 1990's and could be updated. During a 30-minute jog/run, the machine quit on me twice. Needless to say, I wasn't too impressed with having to start the thing up and wait for it to reach the desired speed. GoodLife cardio machines adopt the first-come, first-serve system and it seems to work.

The low ceilings and the whirlpools located in the change-rooms permeated most of the fitness facility with the smell of body odor and chlorine. I found myself almost retching as I walked through the gym. However, the large availability of free weights and cable systems made completing the work out quick and easy. Total time spent in the gym (not including cardio): 1 hr.

Depending on what kind of workout that you're looking for each location has its advantages and disadvantages. It's up to you to decide what you like, and what your fitness goals/needs are. If you were looking for a general cardio workout, I would go to the CIF. If you were looking to simply use free weights and build muscle, I would recommend using the PAC, especially if you were on campus. Otherwise, if you wanted a total body workout, your best bet is to hit up GoodLife, although I would recommend using the newer facilities located at the franchise's Kitchener locations. Aside from the fact that neither of these locations smells of body odor, and/or some other chemical cleanser, these locations are newer, and offer a wider range of exercises.

Exercise	PAC	CIF	GoodLife
Cardio Work	Few cardio machines available and were not of the best quality.	Brand new machines, no complaints here. (Winner)	Tons of cardio equipment, but some of them could be updated.
Bench/Fly's	Large number of bench press bench's available, although constantly in use. This seems to be the only exercise that guys excel at. (Winner)	The availability of a cable system made this exercise easy to accommodate but the lack of actual bench press bars and plates made this workout sub-par.	Not the cleanest that I've ever used, but they did have the desired effect. Overall, a good chest exercise was achieved
Chin ups/Dips	Easily accomplished however without an assistance machine, you have to stop when you get tired, sometimes not hitting the optimal number of reps.	Easily accomplished and with the addition of an assistance machine, my chest, back and shoulders were hurting. (Tie)	Easily accomplished and with the addition of an assistance machine, my chest, back and shoulders were hurting. (Tie)
Biceps/Triceps	A wide variety of free weights available made bicep and tricep exercises easy to complete. Similar exercises could have been completed on a machine, as they were available. (Tie)	With only 20 lb dumbbells and no bar, I was forced to use machines. Although they do a better job of isolating the muscles, sitting down and having to press your elbows into a pad that will soon wear away was not the most pleasant thought.	A wide variety of free weights available made bicep and tricep exercises easy to complete. However, again not the cleanest set of free weights that I've ever seen. This place could have used a little rust cleaner (Tie)
Squats/Tanges	Machine or free weights, what's your pleasure? Take your pick cause they are both available (Tie)	Only machines available, although not enough weight available on the squat machine for my purposes. No Lunges performed.	Machine or free weights, what's your pleasure? Take your pick cause they are both available (Tie)
Shoulder Presses	See biceps/triceps	Only machines with awkward range of motion.	See biceps/triceps

The Results: How the PAC, CIF, and GoodLife fared in each of the six exercises in the study and where you should go to get the best workout.

Engineering Society Executive Reports

A Winter Full of Events

Kate Kelly

**Vice President,
Internal**



Welcome back to a wonderful new snowy term! BOT was on the first Friday of the semester and it looked like everyone was having a blast, at least from my giggly perspective. If you didn't show up to BOT, I definitely encourage you to attend MOT late in February, but I'll talk about that later.

Attendance at the Directors meeting was good. All the directors had the opportunity to meet the executive and each other, as well as the opportunity to chow down on some goodies from the C&D.

There are still some directorships open, and, if you are interested, come into the Orifice and talk to one of the Exec.

The auditions for this term's Engineering Play have come and gone. This semester's play, "Romeo, You Idiot," looks to be hilarious.

Already this week there should have been a Brunny trip. Also, GradComm

slave auctions are going on today! Did you buy your slave?

Next week, Pie and Eng Week are both running and we will be having another EngSoc meeting on Wednesday!

There will be a bunch of fun events this semester and I hope everyone tries to attend at least one of them; it is a great way to meet other engineers who aren't in your class.

If you're looking to help without actually planning the event, join the task team! (E-mail Evan Thor, ejthor@engmail.uwaterloo.ca) In addition, if you're just curious about what's going on in EngSoc, just check out the webpage! (<http://engsoc.uwaterloo.ca/www>)

If you have any interest in helping with the Engineering Semi-Formal, please e-mail me (asoc_vpin@engmail.uwaterloo.ca) as we're looking for volunteers who enjoy decorating, choosing a theme, and just planning a night where everyone can have a great time! In case anybody wants to drop by and see me, I'm typically in the Orifice after 11:30 every day. I'm almost always wearing pink and it's not too hard to spot a girl wearing pink in engineering!

WEEF: It's still Good!

Michael Henheffer

WEEF Director



Another busy term is already underway for WEEF. A total of \$35 000 has been allocated for funding this term. This money can be used to fund lab equipment, student teams, computers or anything else that benefits undergraduate engineering education at UW. The funding process will be starting soon for those of you who have ideas for where the money should be spent. WEEF will be accepting proposals for funding from February 2 through March 5. The proposal document can be found at www.weef.uwaterloo.ca/proposals.html along with instructions on how to submit the proposal.

This term I will have office hours during which I will always be in the WEEF office to assist you with WEEF related matters. My office hours for this term will be on Mondays from 1:30 to 4:30. I will also be available on Tuesdays and

Thursdays by appointment if you cannot make it in on Mondays. During these times, I will be available to help with proposal preparation, to answer questions about your account status or to help with preparation of your purchase requisitions. To book an appointment, just send an email to weef@engmail.

This is also a reminder to the graduating students that the Plummer's pledge campaign will be happening this term. This campaign encourages graduating students to pledge to donate money back to the school for the three years after graduation. While money can be donated to many areas of the engineering faculty, the most popular choice has historically been WEEF. I encourage all 4th years to partake in this program as your support is greatly appreciated. Look for more information on how to participate later on in the term.

My last point is that requests for refunds are currently being accepted at the WEEF office (E2-2349a). The refund period will run until Tuesday, January 27 at which point requests will no longer be taken. Check the door of the office for the schedule of when the office will be open.

Congress, Pies, and Fun

Nick Lawler

**Vice President,
External**



Hello everyone! I hope you all enjoyed your past work terms. I'm looking forward to an exciting term as you VP-External.

It has already been a very exciting term. The Canadian Federation of Engineering Students (CFES) had their annual general meeting, known as CFES Congress, from January 2 to 8th. Many of the engineering societies from across Canada sent representatives and delegates from the USA, Europe and even New Zealand were in attendance. From Waterloo "A," President Laura Mooney, Calvin Ho from '06 Mech, and myself all attended - Waterloo "B" also sent a delegation.

Upon arrival in Victoria, the city was shut down due to a record amount of snow. It was the first time in six years that snow had stayed on the ground in Victoria overnight. Since Vancouver Island only has 4 snow plows, none of which are owned by or used in Victoria, it was a slippery, wet week.

Since the city was shut down, it allowed more time to network and share ideas. All three of us came back from Victoria with great ideas and new exciting things that we want to start up at Waterloo. One event is the "PI Throw". You may remember this if you were on B-Soc last winter. A-Soc will carry on this new tradition. The week of "PI" will be from January 26 to January 30. More instructions and information are to follow.

The most amazing part of the week was seeing all of the different Engineering Societies represented in one place. Each EngSoc has their own traditions, their own spirit, and each are at different stages in their development. For example, the President from the University of Saskatchewan is handcuffed to a stein that has the names of all the EngSoc presidents since 1901 engraved on it. They must wear this whenever they are at an engineering social event. The engineers from UBC have this odd tradition of dropping half naked people into freezing cold water. The schools from Eastern Canada have a drink they call Screech. Well, lets not talk about the Screech.

All and all it was one of the most

amazing experiences I've ever had, and I can't wait to go back. For your information the Congress 2005 will be held at the University of Toronto, and since the transportation costs will be lower, we will be sending a very large delegation, and I encourage all of you who will still be around to apply.

This weekend is the First Year Integration Conference hosted this year by UWO. I'm taking nine wide-eyed first years with me, and it looks like it will be an exciting, and rewarding experience. And before you ask, no, 4th years cannot go as "observers", and no you can't "pretend" to be a first year either.

The last thing I've got to report is news of an exciting volunteer opportunity for engineering students. During the weekend of National Engineering Week, the Kitchener-Waterloo Children's Museum will be holding a K'NEX workshop. They are looking for engineering students from Waterloo to help kids and their parents construct some awesome creations. A sign-up form is in the Orifice and everyone who volunteers receives a free shirt and a free lunch. The people behind National Engineering Week are pushing this initiative very hard and want as many engineering students to attend as possible. This is a major opportunity to let the community know how great and creative Waterloo engineers are!

Well that's it for now so good luck in your studies and remember that you can't live life without having a little fun.

**ENGINEERING
SOCIETY**



*Did you know you can earn valuable P*5 points for volunteering time at the C&D? Email Mary Bland at mbland@engmail.uwaterloo.ca to schedule your shift.*

Mandatory Co-op Courses Full Steam Ahead

Jonathan Fishbein

**Vice President,
Education**



Let's all give a cheer because a new academic term is among. I hope everyone had an excellent co-op term, but it's time to turn our focus back to school.

Unless your joining us from B-Soc - which is the minority of you - you'll be unaware of what's been happening on

campus over the last four months. Two major issues have crept up in this time concerning CECS.

As you've now likely realized, the new CECS.Online system for job postings, which was supposed to have been ready for the start of this term, has been further delayed and is now scheduled for release in the upcoming spring term. Although this is something that most of us don't have to worry about till next fall, CECS wants to hold some workshops for students so that we will be prepared to use the new system. The topics of these workshops will include introducing students to

the basic operations of the system as well as how to create an HTML resume. These workshops will be happening throughout the term so watch for dates and locations.

The second CECS issue that has crept up over the past 4 months is a new plan to institute mandatory professional development courses to be taken by students while on a work term. The quick and dirty explanation for this plan is that engineering wants lead the way and apply minimum academic standards to co-op. These courses are currently waiting to be approved by the university's senate and will be presented at their next meeting. It

is very important to understand that no real requirements or deliverables have been developed for these courses as of yet. These courses are in development and I attend the development committee's meeting in order to give student input. So, if you have any opinions on how you would like to see these courses developed then I urge you to e-mail me your comments so you can have your say to the committee.

Anyways, that's all I have for now. Feel free to come find me in the Orifice or around the halls if you want to talk about any of these issues.

Great Big Bags of Money



Rajat Suri

Vice President,
Finance

"Give me the strength to change the things I can, the grace to accept the things I cannot, and a great big bag of money."

-Unknown

Ahh yes, money is good, and you guys are lucky because I am giving it away! For free! Well, to directors anyways, but only if you get your budget proposals in by today (Friday, January 23rd). If you

miss that, you are out of luck!

Donations will be happening some time soon this term – I'll announce exactly when during the next meeting.

I'll be putting together a budget draft for the next meeting too, and I'd like to take this opportunity to beg the fourth years to take pity on this wretched second year while I read the budget draft. It might not be "The Matrix Revolutions," but budgets, especially this one, can be fun too! I swear!

So, come out to the meeting to see my magnificent budget draft. I guarantee you an unstoppable thrill ride with a lot of drama and numerous plot twists and turns as you find out which directorships get shafted this term. They don't call it 'The Must-See Draft of the Year' for nothing!

Long Term Project



Laura Mooney

President

Welcome back! For those back from a work term, I hope you had a good time in the world of "real work." For those of you who just came from school, congratulations on getting through 1A or 4A.

While many events are planned for this term, there is a long term project for which I'm looking for volunteers to help. We have been presented with the opportunity to bid for the next Ontario Engineering Competition and, if successful, we would be hosting it in February 2005. For this to happen, I need people who are interested in preparing the bid and then working on

organizing this event. It's not hard if we have lots of volunteers from both streams. If you're interested, please get in touch with me as soon as possible, either by finding me in person, leaving a note in the EngSoc office, or emailing me at asoc_prez@engmail.uwaterloo.ca.

Also, if you are interested in helping to organize sessions that would help students with their public speaking (in conjunction with a local Toastmasters club), please let me know soon. This is something that was started in the winter term, but, without some extra help, it can't happen.

Finally, for all those who attended the first EngSoc meeting and noticed the rowdiness, please do not be discouraged - the overexcitement of the 4Bs should be more subdued for meeting number 2.

As always, if you have any questions or suggestions, please feel free to send them my way!

Engineering Explorations Showcasing Scientific Wonders

David Yip
2A Mechanical

What got you into engineering? Parental pressure? The allure of a secure cashflow? Or was it the wonders of science? Bill Nye? Robots, explosions, gears or bridges? I bet it was the explosions. (Or the cashflow.) Every winter the faculty allows local Grade 6, 7, and 8 students to experience those robots, gears, explosions and bridges in Engineering Explorations.

Engineering Explorations is an event where elementary students visit UW with their parents to visit exciting engineering exhibits. They are usually projects or shows set up by senior students, graduate students and professors from every

department of the faculty. Student tour guides take the young'uns and their parents to see a set of exhibits. The tours are usually a hit with the visiting parents and students, especially the 4th year projects. ("Wow, you can build race cars in school!") In fact, there is usually some disappointment that all the exhibits cannot be seen because of time constraints.

It's a great opportunity for current engineering students to get involved! It's also a great chance for current students to re-discover the joys of exploding beakers, and to also get a look at showy projects outside of their department. It all happens March 15th.

If you're interested in becoming a tour guide, look for emails, posters around Engineering and sign up sheets in the Orifice.

International Pi-Throw



Michael Henheffer

4B Computer

Have you pied someone you love lately? If not, you'll get your chance from January 26 to January 30 when Waterloo Engineering will be participating in the International Pi-Throw.

The International Pi-Throw is a international charity event that the Canadian Federation of Engineering Students (CFES) is trying to get all Canadian engineering schools to participate in. This will be the second time Waterloo has participated in the Pi-throw but the first time it will do so on A-soc. The goal of the Pi-Throw is trying to raise a total of \$200 000 for EWB (Engineering Without Borders) nationally.

Since this event has never occurred on

A-soc you are probably wondering how it works. Well, the basic idea is that throughout the week you can pay \$10 to have a whipped cream pie delivered to the face of anyone in engineering. At this point one of our volunteer 'Pi-throwers' will find the person in order to "deliver" the pie. This is where things get interesting as the recipient of the pie has the option of paying an additional \$10 in order to redirect the pie to another person. Of course, redirecting could go on for a while.

By now, you must all be wondering what you need to do to order a pie for one of your friends. Well, it's quite easy; there will be a table in the CPH Foyer from 11:30-1:30 during Pi-Week where you can place your order. You can email PiWeek@hotmail.com for additional information.

The money raised by UW this year will go to benefit the local chapter of Engineers Without Borders and GradComm 2004. So please come out and take part in this fun charity event and help make it a great success.



Leader Applications Due

Rahul Bhardwaj
Engineering FOC 2004

Did you have an awesome frosh week? Do you want the 2004 frosh to have an orientation week just as good as, if not better than, yours?

Do you have ideas on how to improve frosh week in 2004?

If so, apply now to be an orientation leader and have a positive impact on the Engineering Society's most sensitive week.

That's right, applications for 2004 frosh leaders are now available online at www.eng-soc.uwaterloo.ca. The application deadline is January 25 for both societies. Interviews will be held in late January and early February. Available interview dates will be emailed out later in the application process.

Here's a brief overview of Leader types as all engineering orientation leaders fall into one of the three following categories:

Education Committee (EDCOM)

This group of talented individuals is responsible for the organizational and exe-

cution aspects of most of the events during Frosh Week. They do everything from making sure materials get to events on time and setting up the aerial photo to dealing with those last minute problems that crop up regardless of how well everything was planned.

Huge

These people are responsible for everything to do with a colour group. From theme to mail-outs to money, Huges are the couple of people in each colour group who know what's going on. During the week, they know where their colour group is at and where it needs to go next.

Big

What Bigs lack in specific responsibility they more than make up with fun. Their job for the week is to make sure that those new to Waterloo feel welcome, get their questions answered, and find their way around all while having a whole pile of fun! They also spend the weekend before Frosh Week decorating, dreaming up chants, and so forth. Lastly, Bigs are on-call during the week. If any extra hands are needed during an event, they'll be asked to pitch in.

"...applications for 2004 frosh leaders are now available online...The application deadline is January 25 for both societies."

Upcoming Engineering Society and Other Events

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	<i>Engineer This! is the exciting theme of this term's Hunt. Sign-up this week in the Orifice for only \$30 per engineering team.</i>
25 Froshweek Leader Application Deadline	26 Eng Week Pie Week WIE Grad House Social	27 Eng Week Pie Week Bridging the Gap (CPH 3385)	28 Eng Week Pie Week EngSoc Meeting #2	29 Eng Week Pie Week	30 Eng Week Pie Week Scavenger Hunt	31 Scavenger Hunt	
1	2	3 Bridging the Gap (CPH 3385)	4 EngSoc Meeting #3	5	6 Ontario Engineering Competition	7 Ontario Engineering Competition	

Columns

Frosh Mentoring: Answering the Pressing Questions

Dan Foong

4B Civil



So you've just switched streams. There are a few of these people around that you recognize, but it's pretty much the first month of classes all over again. For the most part, the transition from Society to Society isn't that difficult as there are so many nice people in Engineering.

As Frosh Mentor Director, I want to be able to get the first years involved in more aspects of the Engineering Society. How do I plan to do this you ask? First of all, sometimes Frosh are afraid of the upper year students. From personal experience, I remember being in awe of some of the people that were in upper years. Mostly it was because they were my frosh leaders. They were the people that I met for the first time during Frosh Week and so speaking to them out of that context was difficult. The first step is to overcome that fear and just start talking to the upper year students. You never know, you might find

that you have a million and a half things in common with them.

So what is a Frosh Mentor? A Frosh Mentor is an upper year student who is in the same discipline as you and is available to answer any questions that you may have be they academic or social in nature. They might be a better source of information than the first year office as they may have a personal experience to which you may be able to relate. You might have questions about a specific course that you are taking or a question about what courses you should take if you want to get into a certain aspect of your discipline. Maybe you just want to know about a professor and you're not getting the kind of information that you would like from the administration. Maybe you're having trouble with an assignment and your TA isn't available to help you. Your mentor may have some useful tips and hints that may get you through an assignment, or a test.

If you are interested in either being a mentor or a "mentee" please e-mail me at dwfoong@gmail.com with your name, year, and discipline and I will do my best to pair you up with the right mentee/mentor. You can sign up anytime between now and the end of term, although the earlier the better.

Get Your Novelties! UW Eng Wear to Show Your Pride

Maria Simoes
4B Computer

Want to show off your pride in UW Engineering? Well, then the Novelties store is for you. Offering a range of products from sweatshirts, to t-shirts, to mugs, the Novelties store is the place to go for branded UW Engineering gear.

This term, the Novelties team will be holding two special events. The first will be a bargain bin sell-off (get your \$1 wear before IRS). The second will be a fashion show modelled by the current EngSoc exec. By the end of the term, the novelties "online window shop" should be up and running. Students can go online, view what they want and either pick it up the

next day in the store or e-mail a novelties director and "order it online."

Speaking of shopping, the Novelties store (located in CPH Foyer between the C&D and POETS) is open 5 days a week. The regularly scheduled office hours can be seen in this paper and on the door to the store. If you can't make any of these times, and feel the urge to browse, e-mail one of the novelties directors (their e-mails can be found at <http://engsoc.uwaterloo.ca/www/directorships.php>) and we can let you in to peruse at your leisure.

If you have any questions, or want to learn more about Engineering Novelties, please e-mail one of the Novelties directors, and we'll answer your questions as soon as we can.

Novelties Store - Regular Weekly Hours of Operation

	Monday	Tuesday	Wednesday	Thursday	Friday
11:30-12:30					
12:30-1:30					
1:30-2:30					

The Novelties Store is open (grey) or closed (white) as shown in this lovely graphic.

Who's Up For Some Male Bashing?

Leanne Whiteley

4B Civil



Are you the type of woman that can't stand being in a room full of men? Are you looking to join forces with other females to battle the evil ways of men? Well then, the Women in Engineering (WIE) events organized by the Engineering Society are NOT for you. These events are open to everyone.

The Women in Engineering Committee, not be confused with the EngSoc WIE, is a committee that was formed in the early 1990's upon the request of the Dean of Engineering. One of the objectives of the committee is to keep everyone, including faculty, staff, alumni, and students, aware of issues pertaining to women in engineering. The Committee also organizes events and programs for high school and elementary school students to introduce engineering as a possible career. The EngSoc WIE directors work with the Women in Engineering Committee throughout the term to find volunteers and potential

speakers for their events. This term, WIE is hoping to have at least 3 events, including an evening social, a movie night in POETS, and a reception, which is usually held every term and is sponsored by the Dean of Engineering.

The evening social will be held this upcoming Monday, January 26th at the Grad House. It starts at 7 p.m. and everyone is invited to attend. One free (non-alcoholic) drink ticket will be provided to each person who shows up. Also the bar will be open for those looking for extra drinks. This event is being held to allow for social networking among students, faculty and staff – both female and male.

Also, be sure to check out the new Women in Engineering web site (www.eng.uwaterloo.ca/~w-in-eng/), and to subscribe to the new Women in Engineering discussion group (e-mail uw_wie-subscribe@yahoo.com) for more information on upcoming events, interesting news, and discussion topics.

If you have any questions, or are interested in helping out with any of these wonderful events, please contact the WIE directors Maria Simoes (mssimoes@gmail.com) and Leanne Whiteley (lcwhitel@gmail.com). We look forward to hearing from you.

TV Guide: What's Playing in POETS this Winter

Dan Foong

4B Civil



The term has begun and the programming has already started so you're probably asking yourself, "I've got an hour between now and my next class, I wonder what's playing in POETS?" This article is the answer to those and other P O E T S Programming questions.

The first change that you may or may not notice is that the schedule for the entire term has been posted in POETS and portions of it can be found in the IW throughout the term. The programmers instituted this particular

change last term. Because it worked so well, we decided to do it too.

Schedule Breakdown:

Each day has been accorded a special theme. The Monday and Friday themes are special. Each movie that we play on those days will have a common theme!

So now you're thinking... "how is that any different than what's been going on in previous terms?" Well I'm going to answer that question right now by saying that we've brought back more TV! The term is starting off with a screening of 24 Season

1, followed by episodes of Family Guy Season 1. When 24 wraps up around reading days, taped episodes of popular series will be aired almost every Tuesday.

Following our TV-Tuesday schedule will be "Who Is It Wednesdays?" Every Wednesday we will profile an actor/actress. Three movies will be shown that have an actor/actress common to all of them. If you can guess the actor/actress and the character that they played in each movie, you could win a DVD copy of the movies that we showed that Wednesday! All you have to do is drop off your answer, along with

your name and e-mail address, into the programmers' mailbox in the Orifice and you're set! The winner will be drawn from the list of correct entries.

So, Mondays, Tuesdays, Wednesdays and Fridays have been covered, that just leaves Trilogy Thursdays. What better way could you spend an afternoon than watching the "Indiana Jones" or the "Back to the Future" movies?

If you have any non-derogatory suggestions, please don't hesitate to drop the programmers a note in our mailbox or on the POETS blackboard.

Week 4	Monday 26-Jan	Tuesday 27-Jan	Wednesday 28-Jan	Thursday 29-Jan	Friday 30-Jan
	VAMPIRES!!	TV Tuesday	Who Is It?	Trilogy Thursday	Civil Andre
	11:00 AM Blade	11:00 AM The Price Is Right	11:00 AM	11:00 AM The Terminator	11:00 AM The Price Is Right
		12:00 PM 24 Season 1			12:00 PM The Princess Bride
	1:00 PM Dracula 2000	12:45 PM 24 Season 1	12:40 PM	12:50 PM Terminator 2 - Judgement Day	
		1:30 PM 24 Season 1			1:40 PM Super Troopers
	2:40 PM Underworld	2:15 PM 24 Season 1	2:40 PM	3:00 PM Terminator 3 - Rise Of The Machines	3:20 PM Spaceballs
		3:00 PM Family Guy			
Week 5	Monday 2-Feb	Tuesday 3-Feb	Wednesday 4-Feb	Thursday 5-Feb	Friday 6-Feb
	Not-Hollywood	TV Tuesday	Who Is It?	Sub Movies	
	11:00 AM The Price Is Right	11:00 AM The Price Is Right	11:00 AM	11:00 AM U-571	11:00 AM The Price Is Right
	12:00 PM The Guru	12:00 PM 24 Season 1			12:00 PM The Mummy
		12:50 PM 24 Season 1	1:25 PM	1:00 PM Below	
	1:40 PM Bend It Like Beckham	1:30 PM 24 Season 1			2:00 PM The Fifth Element
		2:15 PM 24 Season 1	3:40 PM	2:35 PM Hunt For Red October	
	3:30 PM Better Luck Tomorrow	3:00 PM Family Guy			

Not Your Ordinary Yearbook

Kristina Hotz

GradComm
Co-Chair



Hey fourth years, are you ready to order your yearbooks? Tickets will be on sale until January 30th. This super duper 448 page book will be arriving in late May or early June and can be picked up then or on Convocation Day. Books cost \$55, but for an additional \$5 you can personalize your book's cover in lovely copper foil with any 29 character (including spaces) message of your choosing. This message can be anything you want; for example, your name or some special phrase.

Are they worth the money? For sure! These books are not at all like those old high school yearbooks. Instead, this book follows our year, the graduating class of 2004, through all of the past 14 terms.

"Are they worth the money? For sure! These books are not at all like those old high school yearbooks."

The book will have three main sections plus one section for the ads that make the low price possible. The first section will contain introductory material with things like history, artwork, the community and the campus, not to mention things from EngSoc. The middle section contains the class pages and grad photos. Finally, the last main section has photos of tons of GradComm-related events, like GradBall. Both the first few pages and last few pages of the book have room for signatures.

The yearbook is still looking for more pictures. Send any you would like to share to engbooka@engmail. These pictures don't have to be of your class. They can be of anything from the past five years, including: frosh-week, semi-formals, sports, engineering plays, TalEng, work terms, Watpubs, exchanges, term pubs and artwork. You name it and it's an Engineering related photo, and you should send it in, Environment Solar Panel Group, and many more. If they're scanned, be sure they're at a minimum of 300 dpi.

For those of you who don't have access to a scanner but still have really awesome 35mm pictures, you can do one of two things. The first is to drop them off in the Yearbook Mailbox in the Orifice (CPH 1327) in an envelope with your name and contact information (e-mail and phone number). They'll be scanned in and returned as promptly as possible. The second is to email the yearbook editors (engbooka@engmail) and they'll let you know when you can come in and scan them yourselves or have your Yearbook class rep do that for you.

If you have any questions or are interested in helping out, please e-mail engbooka@engmail. You guys are what make this book a little extraordinary.

Fundraising: Getting Rid of the 2004s

Jen Saunders
GradComm Co-Chair

Every year GradComm is faced with the challenge of raising thousands of dollars in order to fund events such as Gradball. This year we've already done some terrific fundraising. In fact we've raised over \$9000 from weekly pizza sales (buy your GradComm pizza!), 50/50 draws, slave auctions, and pub crawl t-shirt sales, as well as generous department donations. However, we still need to raise approximately \$7000, which is why we need you to come out and support us. This term is going to be packed full of great GradComm events that are open to all engineering students.

Slave Auctions

The first slave auction of the term will be held today - Friday, January 23rd - in POETS, and we need volunteers to be slaves! Slave duties can range from cooking and cleaning to helping out at parties - whatever is agreed upon by both the volunteer and the purchaser. You'll never be forced to do anything you're uncomfortable with. A sign up sheet for volunteers will be posted on the Orifice door, or email larissa_fly@yahoo.com.

Aside from slaves we also need buyers. Tired of washing your dishes or shovelling snow? Anybody can buy a slave, so bring some cash to POETS on the 23rd and put in a bid. 4th years, you may be especially interested in attending this auction to pick up some slaves for your class champagne breakfasts!

Pizza Sales

Every Wednesday GradComm takes care of lunch for you, so leave the sandwich at home. Pizza is on sale in the CPH foyer, so you don't have to go out in the

cold to get it! For 4th years, it's important that volunteers from your class sign up to sell pizza on your scheduled days (Computer on Jan. 28 and Enviro Chem/Civ/Geo on Feb. 4). There's very little effort required since everything is already ordered and set up when you arrive in the foyer, so there are no excuses. Email Larissa at larissa_fly@yahoo.com to sign up.

50/50 Draws

For a mere 50 cents you could help out GradComm AND win yourself some \$\$\$! Tickets are on sale Friday afternoons in POETS as well as during EngSoc meetings for 50 cents each, or 5 for \$2. If your name is drawn you win half the money. Last week's winner spent \$2 and won herself \$25!

Scotch, Wine, and Steak

This term there will be another lesson in wine tasting at the GradHouse, but that's not all! We've added an "Introduction to Scotch" course, and the "Great Canadian Steak BBQ" to make it a three-part series. These events will be held in early March, and dates and ticket prices will be advertised in February so keep your eyes peeled. All UW engineers who are 19+ are welcome to attend any of the three events.

GradComm Cookbook

What's your favourite food staple? Mac and Cheese? Pasta and meat sauce? Stir-fry? Whatever your favourite meal might be, how about sharing the recipe?

GradComm 2004 is organizing a grad cookbook filled with the delicious recipes that our 4th years have come to know and love. But we need your help to do it! Submit your favourite recipes to jrocca@engmail.uwaterloo.ca. Emails have been sent out to all 4th year classes with templates for making your cookbook

pages, so it's hardly any effort at all. Final pages must be submitted by Friday, February 6th so the books can be printed and sold before exams.

GradComm Calendar

The GradComm 2004 calendar is going on sale soon, and you don't want to miss out. The pictures are of groups of female volunteers from UW Engineering in front of the various Engineering team vehicles, as well as with various U of W Engineering landmarks. All the pictures are very tactful and fun, and many of them have themes.

The calendars will sell for \$15 each, and all proceeds will go directly to GradComm. Watch for posters and emails announcing sales.

External Fundraising

There is an opportunity for 4th years to help out with external fundraising as well. We have already approached 200 companies asking for donations in return for publicity at events such as Gradball. However, if you have a family member or friend who owns their own company, or works for a company that would be interested in gaining some publicity among the engineering graduates of 2004, for a small donation their logo can be displayed on posters at Gradball, or even on the Gradball tickets. We have a letter prepared should you know of someone who would be willing to make a donation.

For more information, please contact: Marcia Rood and Deirdre Brady at myrood@engmail and dbrady@engmail.

If you have any fundraising events you'd like to see, please contact Larissa (larissa_fly@yahoo.com). Also, a great place to check on the latest and greatest GradComm events is our webpage: <http://www.eng.uwaterloo.ca/~gradcomm/>. Thanks for your support!

Iron Ring Ceremony Schedule

James Kunz
4B Computer

For those of you graduating this term, you'll be getting your iron ring. How do you do this, you ask? Simple. Follow the three step process below!

Step One: There is an important introductory discussion about the ring, the ceremony and the process on February 3, 2004 in RCH 101. The schedule for this is as follows: 4:30 PM - Chemical, Civil, Geological, Mechanical, Environmental; 5:30 PM - Computer, Electrical, Systems.

Step Two: You'll want to get your finger sized on February 10, 2004 in CPH 3385 so that your ring will fit when you receive it in step three. The fitting schedule is by discipline: 4 PM - Computer;

4:30 PM - Electrical; 5:00 PM - Civil, Env., Geo.; 5:30 PM - Mechanical; 6 PM - Systems. Please be sure to attend your designated session so that there are no excessive lineups.

Step Three: Go to the ceremony and get your ring! Before going to the Theatre of the Arts where the ceremony will be held, you must head over to AL 116. Everyone will head over to the theatre as a group. The sessions are divided as follows: 4:30 - BSOC; 5:30 - Civil, Electrical, Env. Chem (note that this is a change from the yellow sheets posted around engineering), and Mechanical; 6:30 - Computer. Please note that there is a dress code in effect which requires interview attire (for those who wear t-shirts and jeans to interviews, this means a jacket and a tie). Also, make sure you arrive on time for your ceremony as

you cannot get in once the ceremony starts.

For those of you who find your ring to be too tight or too loose - or if you managed to lose it in your first week, a fourth step may be necessary. There will be a ring refitting session the week after the ceremony. The refit will occur in E2-3324 from 4:00 PM - 6:00 PM on Tuesday, February 24, 2004.

For those of you who want someone special to ring them, you must fill out a form available from the new co-op building, room TC 3101. This person must have been obligated in or prior to 1999.

Finally, if you are planning on graduating in the fall based on the catch up program, you are able to receive your ring at this session.

All this information is available on the yellow sheets posted around Engineering.



Co-op Courses

POINT VS. COUNTERPOINT

Are the New Mandatory Professional Development Courses a Good Thing?

Niki Czerniak
4A Geological

We, as future engineers, are expected to be well-rounded individuals. This is evident in the design of the engineering program. Section 2 of "2003 Accreditation Criteria and Procedures" states:

The engineering profession expects of its members competence in engineering as well as an understanding of the effect of engineering on society. Thus, accredited engineering programs must contain not only adequate mathematics, science and engineering, but they must also develop communication skills and an understanding of the environmental, cultural, economic and social impact of engineering and the concept of sustainable development.

What better way to more fully round out our education than to take courses while on co-op terms? Starting with the Frosh of 2004, all engineering students will be required to take five professional development (PD) courses – one in each of five work terms. It is expected that course submissions will be about 2 to 3 pages each, with around six submissions per term, thus putting the total term's deliverables at approximately 15 to 20 pages total. Due to "busy times" during a work term, the deadlines would be somewhat flexible.

These courses will not cost the students anything – no increases in co-op fees or tuition. These courses must be fully funded from other sources to exist.

All materials and submissions for the courses will be online, with alternate arrangements being made for those students who do not have access to the internet either at home or at work. It will be possible to fail these courses – with most failures expected to happen due to not submitting the required work – and the failed course will need to be made up before the

next course can be taken.

According to Emma's article (see page 11), reprinted from the November 14, 2003 Iron Warrior issue, the courses, currently labeled PDENG 15-55, "will cover soft skills and knowledge in a variety of areas consistently noted by graduating students and employers as being beneficial to develop further." The four themes that will be covered are responsibility, leadership and teamwork, critical analysis, and communication. Within these themes, specific topics will be covered including, but not limited to the following: team work, health & safety, intellectual property, ethics, professionalism, management techniques, handling uncertainty, and accountability.

It is expected that these courses will be completed during work hours, as they will be considered part of the co-op experience. This can be a very good thing if a student finds him or herself in a job where there is an inadequate workload to keep busy 8 hours a day, 5 days a week. If you don't think it happens, think again! Not all co-op students have a schedule so busy to require never having lunch or seeing the sun.

Besides helping to absorb some of the boredom of a slow work term, these courses are really there to help develop those "soft skills" that so often get overlooked. Engineers need to be well rounded. Well, being stuck in a computer or a mineralogy lab for hours on end during the never-ending craziness that is a school term does not always leave time for us to take extra courses that help develop other skills.

PD courses, taken on a work term, will allow UW's future engineers to become more rounded without additional pressures during the academic terms. With no extra cost associated with these courses, I only have good things to say about these future courses... except perhaps to wonder why this initiative was not undertaken earlier so that I could have benefited from them.

Afsheen Khan
2A Chemical

Engineering students are already quite well justified in saying they are the most over-stressed lot in the Waterloo crowd with rigid curricula, without much freedom to choose courses, and with no reading weeks or summer breaks for them to enjoy. Year round, they are either busy studying or are on a work term, which many mistakenly think are a holiday break with a lot of free time.

In reality, things are completely different. In reality, as co-op placements are full-time jobs that require students not only to learn all of the necessary technical skills as quickly as possible, but also get acquainted with the surroundings, especially if they are employed somewhere far away from the university and their home towns. The chances of that happening are, of course, quite likely. Other than that, they are required to write a work report for their department and often for the company as well. Taking all of this into account, even a simple scenario of a student putting in forty hours a week working leaves a hectic schedule. This is especially the case if he or she is called upon for some extra hours. Working on the report over the weekends can easily add even more hours to the already hectic schedule. Days off are then hard to come by as the typical status of temporary employees and inevitable employer evaluation preclude taking much of a break.

The purpose of relating all of these small but important details in this article is to bring them to the attention of the administration. Under the light of the above description, it is impractical to impose another bunch of "mandatory" professional development courses on engineering students during the work

term.

The theme of these courses is primarily to teach responsibility, leadership, teamwork, critical analysis and communication. In contrast, all of these practical skills are an obvious part of every work environment and are learned and further developed by the student at work. Simple examples of that would be arriving on time to work every day, being regular and punctual, and meeting the assigned project completion deadlines. All of that comes under work responsibilities and time management. Similarly, working independently and leading about certain projects requires leadership skills, group work and friendly relations with the work staff. It can also mean dealing with customers, taking part in work discussions, and safety meetings. All of that comes into play as teamwork and communication.

The history of the Waterloo co-op students is filled with great achievements made by the students at work and they have always met the work standards to get the remarkable evaluations in the end; in fact, many students are regularly called back for a second work term. There is no actual need for additional courses when the students are trained by the employers in the skills they require to do the specific job. Thus, there is not much of a need for these courses, especially since they might adversely affect the performance of the students by making them even more stressed than they already are.

Editor's Note: Point vs. Counterpoint is intended as a forum for objective and thought provoking debate on various issues. The views and opinions expressed here do not necessarily reflect those of the author(s), the Iron Warrior, or the Engineering Society.



Sandford Fleming Foundation
E2 3322, ext 4008, sff@engmail
www.eng.uwaterloo.ca/~sff

WELCOME BACK

Technical Speaker Competition

The Faculty-Level Competition will take place on **Thursday, February 12** at 10 a.m. in DWE 2534. The winner of the Faculty Competition will receive \$300 while all other participants receive \$50. Please contact your undergraduate office if you are interested in participating in the Competition.

Refreshments will be served
Everyone is welcome

Debates

Please contact your department undergraduate office if you are interested in participating in the Sandford Fleming Debates. The winners of the faculty finals receive \$100 each and the runners-up receive \$50 each.

DATE **March 8, 9, 10**
TIME **11:30 – 1:00**
PLACE **E2 - 3324**

Finals: Friday, March 12
Noon
Outside POETS (CPH)

Refreshments will be served at the finals
Everyone is welcome

Professional Development Courses For Work Terms

Emma Bardon

**VP Education,
EngSoc B**



The faculty of engineering is currently developing a set of courses to be taken on work terms by all Engineering students. The project is still very much in the planning stages, and a presentation aimed at getting student input on the project was given on Tuesday November 4th.

The courses are intended to supplement and improve the overall experience gained through co-operative education. This is a part of the constant innovation undertaken by administration at the school to help keep our program great.

The courses, currently labelled as PDENG 15-55, will cover soft skills and knowledge in a variety of areas consistently noted by graduating students and employers as being beneficial to develop further. There are four primary "themes" that will be covered – responsibility, leadership and teamwork, critical analysis, and communication. Within these themes there will be several specific areas covered including (but not limited to):

- Team work
- Health & Safety
- Intellectual Property
- Ethics
- Professionalism
- Management techniques
- Dealing with uncertainty
- Accountability

It is intended to be an application of

academic theory to practical experiences, and to improve communication skills of students. The subject areas listed above would be integrated into each course. For example, there would be small components relating to Health and Safety in each course, but there would be a larger emphasis on it in one course. Work assignments in this area may include questions along the lines of "how does your work impact the health and safety of yourself and others in your workplace". The recurrence of the themes throughout the five courses would provide reinforcement of the ideas, making it more difficult to forget them during the course of a student's career at the university. Submissions will be primarily based on reflective overview of students' experiences, rather than just current situations. Work assignments would likely include case studies (both real and fabricated), assessments of responsibility, journals, and peer review of work submissions. The

"The courses are intended to supplement and improve the overall experience gained through (co-op)"

work will likely require some reading and application of theory to real-life situations (your work terms). The readings will be designed to be easy to understand. Submissions will likely be 1-2 pages each, maybe 6 submissions per term, with probably around 20 pages total deliverable per term. The courses are intended to supplement the material learned in each discipline's 1A professionalism course.

Course delivery will ideally be online, from reading material to work submissions. It would be worth one half credit (same as most courses here), in addition to the one half credit currently received for satisfactorily completing a work term. As with the current co-op credit, it will be seen on the transcript, will be graded on a CR/NCR basis, and successful completion

of 5 of the courses will be required to graduate. Any failures would not count towards the cumulative fail count for promotional purposes, but must be made up before taking the next course. It is expected that most failures would be for non-submission of work, and that it should be easy to rectify upon receipt of the missed work. It is understood that students will experience busy times and slow times on any given work term, so deadlines would be designed to accommodate varying workloads at work, without making it too easy to procrastinate (work term reports anyone?).

The program is being developed, delivered, and evaluated by a new department within the faculty of Engineering. It is expected that employees of the center would be specialists in various areas covered by the courses.

One rationale behind developing the course is that beyond the one year of pre-graduation work experience eligible to be counted for licensing, the PEO cannot currently give credit for the professional skills gained by students in a co-op program. This is because it cannot be proven that all students must gain these skills through the course of their work terms. Since this would be a mandatory program for students in Engineering at UW (beginning with students starting 1A in Fall 2004), it could be shown that all graduating students must have these skills. The University of Waterloo spearheaded the pre-graduation experience usable towards licensing. Other schools have copied our program, and it is expected that once the higher aspects of professionalism developed by this course are realized, other schools are again going to mimic our initiative. A high level of professionalism reflects well upon

the school and upon its students.

Several perspectives were examined in the development of the course: public interest (and legal responsibilities), professional interest (licensing requirements, skills of graduates), student interest (meaningful jobs and workload required), employer interests (their expectations of graduates and co-op students), and institutional interests (leadership and recruiting, quality of graduates, and interaction with regulatory bodies).

As of this past fall, employers have not been consulted regarding the program. They will be soon though, as part of a regular process of communications between the university and co-op employers. The PEO will also be consulted for input on the program.

One feature that is defined as critical to the

future of these courses is that it must not come at any extra cost to the students – that is, that full funding must be available from other sources. Co-op fees will not be raised to cover the cost of the program, nor will tuition.

It is critical to note that none of these details are final (except the no cost criteria). The presentation in November was designed to get feedback from students on the program. While the new program will not affect any of the current students, the student perspective is still very important, and will help in implementing the program. If you have any thoughts/questions/comments regarding this program, please let myself or your VP Education, Jon Fishbein, know. We'd be more than happy to address your concerns – to you directly if we know the answers, or to ensure that the committee for the program is aware of your concerns (confidentiality is assured, if you don't want your name mentioned).

"...the PEO cannot currently give credit for the professional skills gained...in a co-op program."

Professional Development Courses FAQs

Emma Bardon

**VP Education,
EngSoc B**



Professional Development Course FAQs

I'm a current student – will I be able to take the courses?

The short answer is maybe. Availability of this course to current students will be based on resource availability. Consider that even to just implement the courses for the students beginning in Fall 2004 will be an implementation for an initial class of approximately 500 students. The committee would like to offer the courses in some form to current students, but are as of yet unsure as to what form that will take. Any implementation for current students would be completely optional.

Is this going to make fees increase again?

No, absolutely not. This will be a fee-less course, and will not be offered unless full funding is available.

Will this increase the workload for professors?

This course will be administered by a

new department within Engineering, and will not require extra work of professors not working specifically on the program.

How will the course be administered?

The course will be entirely online, from reading materials to work submission.

What if I don't have internet access?

Alternate arrangements will be made for the few students not having internet access either at work or at home.

How much work will it be?

The workload will be approximately one half the workload of a regular engineering course. So if you typically spend 12 hours per week on each course on a school term, it's expected that you'd put approximately 6 hours per week into the professionalism course. Since the faculty is well aware that students experience busy times and slow times at work, deadlines will likely be somewhat flexible.

What material will it cover?

Material for the course has not fully been decided upon, but will most likely cover primarily soft skills and knowledge, on topics such as ethics, intellectual property, health and safety, and management techniques.

How will it be marked? How will it show up on my transcript?

Individual submissions will be marked and feedback given. The overall course though will be a half-weight credit (like most courses here), and graded on a CR/NCR (like co-op terms are now). It will appear on transcripts alongside the current lines for work term credits.

What if I fail it?

Failures of the PDENG courses will not count towards your cumulative failure count for promotional purposes, but will prevent you from taking subsequent PDENG courses (i.e. you must complete PDENG 25 before starting PDENG 35). Since there are 6 work terms available but only 5 PDENG courses, it will be possible to make up the course. It is also expected that if failure is only due to one or two missed submissions, once the work is submitted the course mark can be rectified.

Why is this being developed?

People involved with the co-op program at the University of Waterloo are well aware of the benefits gained by students enrolled in the program. Co-op not only allows students to gain knowledge of industry, but allows them also to develop a wide variety of professional skills. Currently, these benefits cannot be proven to licensing bodies such as the PEO (Professional Engineers of Ontario). While most students do gain these skills on work terms, the university cannot guarantee that all graduating students possess

these skills. This course will prove to licensing bodies that all students graduating from Engineering at Waterloo have these skills. It is also a way to get students to examine how engineering soft skills are applied in their work experiences.

Can I replace one of my CSEs by taking several of these courses?

No – these courses will be required in addition to the regular load of CSEs.

I have more questions about the program – who should I ask?

I think this is a really bad idea – who should I complain to?

I have some ideas for the course – who should I tell?

First of all, the committee wants your feedback! Your thoughts will help to shape how the course is developed. This is a collaborative venture between the faculty and its students. For now, please address all questions/comments/concerns/ideas to myself or your VP Education, Jon Fishbein. We will be keeping in contact with the committee developing the courses fairly regularly. If you'd like your comments to remain anonymous, please let us know – your confidentiality is important. All input is valuable at this stage, so please do let us know what you think about this initiative. We can best be reached by email at eng_vpedu@eng-mail.uwaterloo.ca, so drop us a line and tell us what you think!

Columns

Important January And February Dates From CECS

JANUARY

Jan. 23: POSTING #5 AVAILABLE by 21 Workshops:

Interview Skills: The Basics: Learn the fundamentals of successful interviewing. Note: This info is similar to the Co-op 101 Interview Skills session. Students should attend only if they need a refresher. 2:30pm - 3:30pm (TC Room 2218A/B)

Interview Skills: Preparing for Questions: Learn from actual taped interviews. 3:30pm - 4:30pm (TC 2218A/B)

Jan. 26: POSTING #5 EXPIRES 8pm

Jan. 28: Employer Interviews begin Workshops:

Interview Skills: The Basics: See Jan. 23 entry for full description of session. 5:00pm - 6:00pm (TC Room 2218A/B)

Starting Your Own Business: Next Steps: All students interested in implementing their ideas are welcome! Picking up where "The Basics" left off, this workshop will offer a more in-depth discussion on start-up issues: strategy and operational tactics, marketing, finance, HR, R&D.

Note: This session is limited to 15 students: Reserve a space - email the UW Innovative office at info@innovate.uwaterloo.ca. 5:30pm - 6:30pm (TC Room 1208)

Interview Skills: Preparing for Questions: See Jan. 23 entry for full description. 6:00pm - 7:00pm (TC Room 2218A/B)

Jan. 29: Workshops:

Making the Job Fair Work for You: Learn the "do's" & "don'ts" of this excellent networking and work search opportunity. 2:30pm - 3:30pm (TC 1208)

Jan. 30: Workshops:

Interview Skills: Selling Your Skills: Don't stop at the fundamentals; you must also prove your skills in the interview. Here is your opportunity to practice and improve. Note: Please attend only if you can stay the full two hours. 2:30pm - 4:30pm (TC Room 2218A/B)

February

Feb 2: Workshop:

Making Job Fair Work for You Learn the "dos" and "don'ts" of this excellent networking and work search opportunity. 3:30-4:30pm TC 1208

Feb 3: Workshop: Interview Skills: Selling Your Skills

See Jan. 30 entry for full details of session. 3:30-5:30pm TC 2218

Feb 4: Job Fair, RIM Park 10am-3:30pm

Feb 5: Workshop: Are You Prepared to Work Outside Canada?

This introductory workshop is intended for

students who are thinking about the possibility of an international work experience at some point in the future. It will help you determine your suitability, and provide some advice on beginning the process. This session includes a student panel. 3:30-5:00pm TC 1208

UW Drama's UpStart 2004 Showcases KW's Performing Talents in a Festival Format

Robin Atchison
UW Drama

Hall Box office (888-4908) and are also available at the door.

For more information, visit us at

<http://www.drama.uwaterloo.ca> or contact Robin Atchison,

Phone: 519-888-4567 X5808

The University of Waterloo is proud to present UpStart 2004, a unique festival event consisting of eight short theatre pieces ranging from a punk rock opera to a play based on Aldous Huxley's "Brave New World".

UpStart 2004 includes a showcase that runs February 4th - 7th and February 11th - 14th created by students and staff across campus, high school students in the area and theatre artists from the Kitchener-Waterloo-Cambridge region.

Lunch hour shows are \$5 each and begin at 12:30 and evening shows are \$10 each and begin at 8pm. The festival will also offer a "marathon package deal" where all eight performances will be performed on Saturday February 7th and Saturday February 14th. The Saturday marathons begin at 2pm and end by 11pm. The package price for all eight shows is \$25. Another option is the half-day Saturday deal for \$15 for either the afternoon shows at 2pm or the evening shows at 7pm.

Tickets are now on sale at the Hagey

WEEK ONE FEB 4-7	WED FEB 4	THURS FEB 5	FRI FEB 6	SAT FEB 7 2 - 11 PM
NOON 12:30 - 1:20 PM		<i>A Room of One's Own</i>	<i>He</i>	<i>Almost Sisters,</i> <i>Deus ex Machina,</i>
EVENING 8 - 10 PM	<i>Deus ex Machina,</i> <i>Savage/Love</i>	<i>Almost Sisters,</i> <i>Carte Blanche</i>	<i>Chronic Deficiency,</i> <i>The Queen of Bingo</i>	<i>Chronic Deficiency,</i> <i>The Queen of Bingo</i> <i>A Room of One's Own,</i> <i>He,</i> <i>Savage/Love,</i> <i>Carte Blanche</i>
WEEK TWO FEB 11-14	WED FEB 11	THURS FEB 12	FRI FEB 13	SAT FEB 14 2 - 11 PM
NOON 12:30 - 1:20 PM		<i>Deus ex Machina</i>	<i>Almost Sisters</i>	<i>He,</i> <i>Chronic Deficiency</i>
EVENING 8 - 10 PM	<i>A Room of One's Own,</i> <i>Carte Blanche</i>	<i>He,</i> <i>The Queen of Bingo</i>	<i>Chronic Deficiency,</i> <i>Savage/Love</i>	<i>Deus ex Machina,</i> <i>A Room of One's Own,</i> <i>The Queen of Bingo,</i> <i>Almost Sisters,</i> <i>Savage/Love,</i> <i>Carte Blanche</i>

UW Drama's UpStart 2004 Performance Schedule

the Iron Inquisition

Leanne Whiteley, 4B Civil

How did you ring in the new year?



"I was planning a pub crawl."
Illan Kramer - 4B Electrical



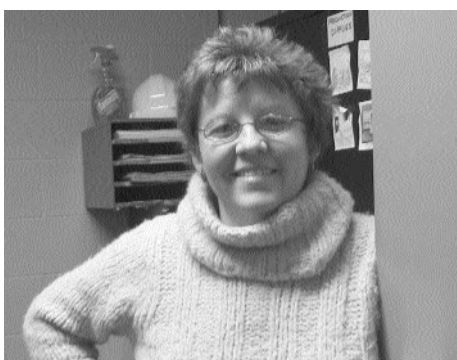
"I was wondering how the school was going to withdraw money from my empty bank account."
Ryan Walker - 3B Chemical



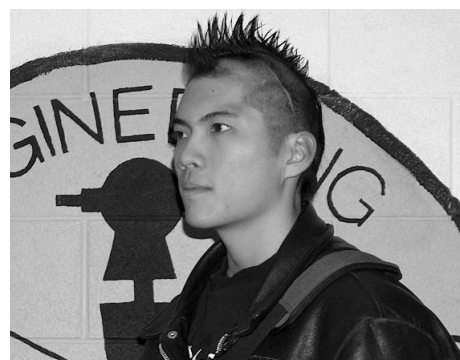
"How I'm going to get money out of Ryan's empty bank account."
Larissa Klypycz - 3B Geological



"At one of my many girlfriend's house. Don't print this!"
Josh Hoey, 3ASoftware



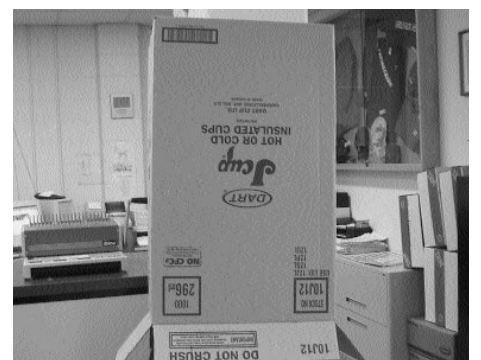
"In Toronto overlooking Nathan Phillip Square with my family in a hotel."
Mary Bland - 4N Applied C&D Studies



"I got a mohawk."
Dan Foong - 4B Civil



"With a 21-gun salute."
Ryan Console - 3N Mechanical



"With a big bang."
Box Man - 4N Applied Box Studies