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the IRON WARRIOR

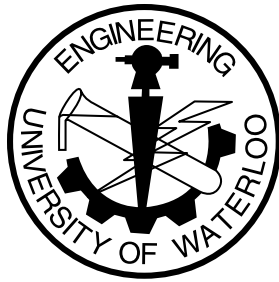
THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

VOLUME 26 ISSUE 11 | THURSDAY, OCTOBER 13, 2005



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Check us out @ <http://iwarrior.uwaterloo.ca/>

Carmen Sandiego Captured! Scavenger Hunt Enjoyable Despite Math Victory



AMANDA GRUBB
BLAISE PINAUD
SCUNT GODS

The annual engineering scavenger hunt took place from noon on September 30 until noon on October 1. As victors of the previous competition, Chemikaze (Chemical Engineering Class of 2008) and some associates (a heavy dose of Mechatronics, a dash of Math and a pinch of Geo) organized this year's event. In a throwback to the 80s, this year's theme was *cue Rockapella music* "Where in the World is Carmen Sandiego?"

On September 29, 2005 a mass breakout occurred from a high security prison at an undisclosed location. Seventeen of Carmen Sandiego's henchmen and Carmen Sandiego herself escaped. Despite only being on the loose for 13 hours, crime rates were already on the rise around the globe. Landmarks in all seven continents were disappearing at an alarming rate. A breakout of this scale had never occurred before

and A.C.M.E. was unprepared. It was necessary for A.C.M.E. to call upon the Gumshoes of the University of Waterloo to help get the situation under control by recapturing the V.I.L.E henchmen, and reclaiming stolen artifacts. They had exactly 24 hours to complete their mission or global chaos may have resulted.

This year saw an exceptional turnout from the first year classes. In all, there were a total of seven engineering teams including 2A Mech, 1A Systems, 1A Chem, 1A Comp, 1A Civil, 1A Nano and the Jugglers Club (five of them!). As usual, the dreaded Math team came out to challenge their engineering rivals.

All participants enthusiastically took part in a wide variety of events ranging from "Global Dance Off", "Accent Contest in Australia" and "Morocco Marco Polo" to "Duct Tape to the Great Wall of China", "Frankfurt Full-Contact Calculus" and "Dartmouth Design Challenge". The inaugural round of Stake Out, the newest addition to the long list of classical scav-

enger hunt events, was so quiet you could barely tell it was taking place.

A few honourable mentions are most definitely in order. First of all to the 2A Mech team for an absolutely amazing road trip to Owen Sound (if you have never heard of it, you are missing out). The 1A Chem team also had quite the adventurous time in the great metropolis of Owen Sound. Meanwhile, back on campus, the 1A Systems were showing there is truly strength in numbers; their dominance in many events was undeniable. The 1A Nano team once again demonstrated that size really doesn't matter. Despite having only a smattering of their class participating, they persevered right until the end. Another one of the smaller teams, the Juggling Club, proved their ingenuity by scrounging up an astounding number of acquisitions including a demonstration of the lever rule, a neutrino and a pet rock. As in past years, each team welcomed a bunch of Gods into their home (or headquarters) to feed them

and otherwise do anything they requested. Math once again ruled this event; a succulent repast of garlic bread, homemade hummus, fresh nachos, three-cheese pasta, REAL Caesar salad and chicken was devoured by the Gods. To top it off, they served flambéed bananas on a bed of ice cream for dessert.

The race was very tight this year and the decision was particularly difficult because each team had a particularly strong point. In the end, first place went to the Math team; not only did they have an amazing house visit, they won a remarkable number of points at events, provided the Gods with phenomenal bribes (including 10 pounds of Hershey's chocolate) and had sickening enthusiasm in the wee hours of the morning. In a close second were the 1A Systems followed by the 2A Mechs in third. There were an amazing number of first year teams and we hope that they will all come out again next term along with some fresh ones!

CUTC Looking To Fill Four Waterloo Exec Positions

RAHUL N. BHARDWAJ
CUTC 2006 CHAIR

CUTC (the Canadian Undergrad Technology Conference), is North America's largest student organized technology conference - www.cutc.ca

For CUTC 2006, we're looking to fill four Waterloo based positions. Please be advised that the CUTC organizational team is quite hard working and dedicated. Therefore, none of the following positions are to be taken as 'light volunteer' positions. Instead, the roles described in the following blurb are quite challenging and

time-consuming, however, the rewards are equally great for the brave :)

#1 - Public Relations Graphics Executive:

Work closely with the Chair on design and implementation of senior level graphics of CUTC, as well as define print designs of CUTC related material such as Shirts, Posters etc. There is scope for communications related public relational tasks as well but that's secondary to the positions main purpose....producing cool art in all formats for CUTC. Skills and knowledge required - Adobe Photoshop/Illustrator, Corel Draw, Web Design Skills

and anything else that makes you a mean computer graphics and print designer.

#2 - Logistics Managing Executive:

Work closely with current Ops and Logistics exec in order to define and iron out logistic issues (Equipment, AV, Travel, Organization etc.) for CUTC 2006. This position is key as Logistics is what assures that the CUTC train's got enough fuel to get where it needs to. Skills Required: Leadership and Communication along with some high level organizational/scheduling skills, topped out with the ability to find what's missing before it's needed.

#3 - Finance Executive:

Work closely with the chair to help organize and optimize CUTC's finances. Handling all aspects of CUTC's finance (from sponsorship cheques to subsidy to reimbursement), the Finance Executive will be Mr. Monopoly. Skills Required: The ability to add, subtract, divide and multiply as needed. Knowledge of how to perform the preceding activities using an abacus is an asset, and so is the ability to organize numbers and use software (excel/Microsoft money) as well.

Continued on page 4: See CUTC

Power Struggle



DAN ARNOTT
EDITOR-IN-CHIEF

As I sit here in the glow of electric lights, writing on a computer, listening to the radio, I can't help but be concerned by how power is being wielded in this province. No abstractions here- I mean electrical power.

Here in Ontario, most of that beautiful and useful electricity is generated by Ontario Power Generation (OPG), formerly the generation side of the old Ontario Hydro. OPG generates a total of approximately 22 970 megawatts of power to satisfy the demands of our power-hungry (pardon the pun) province. Broken down, that's 1% green (wind and water), 27% nuclear, 30% hydroelectric, and 42% fossil-fuel fired.

Ever since the late 1970s and early 1980s, OPG has come under fire for being a large part of the acid rain/global warming/ozone layer problem. The fossil-fuelled plants bear the brunt of this bad reputation. Understandable, since those big scary smokestacks sure do look threatening. Therefore, the provincial government has promised to start phasing out coal-fired power generation by 2007.

As an environmentalist, I am sympathetic to the ideology behind the action. Environmental protection and responsibility is only going to become more important as we continue to deplete this tired old world of its resources. However, I am also an engineer, and I'm sure all of us would agree that you can't just take away 42% of a province's electrical power supply and expect things to go on as normal.

The first plant likely to be decommissioned is the Lambton generating station near Sarnia. Lambton happens to be one of the cleaner and more efficient plants, but it's also in a prime location to be replaced by a gas-fired power plant. The grid cannot support two power plants in such close proximity, and a coal-fired

plant cannot be readily converted into a gas-fired one. So it looks like curtains for Lambton.

Let's look at the folly of this. For one, location or not, natural gas is probably not the best thing with which to replace coal. It is estimated that we will deplete our coal reserves in a hundred years and our natural gas reserves in twenty. Instead of conserving it and using it for more practical purposes (cars, barbecues) we're going to decommission an efficient coal power plant, build a new gas-fired plant which will likely only be useful for two decades, only to have to decommission it and re-build a coal-fired plant when there's no more gas. Brilliant.

It is well-known that 'clean coal' technology is growing by leaps and bounds. Scrubbers are making short work of the Nox and the Sox, (nitrogen and sulfur oxides), and high-efficiency burners make the whole process more efficient from beginning to end. Why, instead of investigating these technologies and making use of what fossil fuels we have while developing viable replacements, are we preparing for a blind shutdown of some of our most useful infrastructure with next to no backup plan in place?

Of course, it comes back to politics. Doesn't it always? Although no coal-burning plant can ever be completely environmentally friendly, OPG's plants receive more than their share of the blame for what's going wrong with our planet. The term 'clean coal' is not even in the vocabulary of most media sources. Science seems to elude them, and perhaps they're bitter at Santa Claus giving them coal in their stockings as children and can't seem to reconcile it in their minds. Also, the terminology used can often be quite misleading. Nanticoke, for example, is labelled as one of "North America's largest polluters". It is, of course, large, and it does pollute. But in America they're more likely to have eight power plants one-eighth the size of Nanticoke. And Nanticoke is probably more efficient than any of them in terms of pollution produced per unit of electricity produced. And while Nanticoke may be the largest point-source, all the cars on the road do a hell of a lot more dam-

age. But it's hard to demonize them, isn't it? I mean, we all drive cars, right? If we were to admit that cars were the largest polluter, that wouldn't make us feel very good about ourselves, now would it?

The nature of coal-fired plants pretty much requires their continued existence until a viable alternative is found. Unlike wind and hydroelectric, and to a lesser extent, nuclear generation, all of which have a sort of 'all-or-nothing' output, coal-fired plants can adjust their level of output to suit the situation and pick up the slack on the grid, so to speak.

It's also a huge waste of money to phase out coal-fired plants at this point. Even if these power plants only have two years left, one cannot just stop complying with environmental regulations. Therefore, improvements are always being made to the plants, to decrease emissions, increase environmental compliance, et cetera. This is commendable, but results in a sticky situation. The funds for compliance must be supplied, but they cannot be acknowledged. It looks pretty bad on paper if you're dumping money into a power plant you're only going to shut down in two years. That's like restoring a 1966 Corvette Stingray, right down to the immaculate paint job, tuning the engine to a throaty roar, then beating the crap out of the thing with a sledgehammer. That's essentially what we're doing to our money. There's no clear black-and-white here. Environmental compliance and responsibility is of utmost importance, but pouring money into a dying power plant is just plain stupid.

There needs to be a lot more thought put into the decommissioning of coal-fired power plants before they're shut down. If we screw this up, Ontario will have some severe, and completely avoidable, power woes. It's up to us, the young engineers of today and tomorrow, to look into this problem to the best of our ability. Is there an effective alternative to coal? Is there a way to make coal cleaner? Is there a way to reduce electricity consumption? I daresay, OPG is providing us with a lot of work, and I don't mean co-op jobs. But if anybody's up to it, it's us. Time to take the power back.

IRON WARRIOR

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

Origins and Evolution of Oktoberfest



GABRIEL CHAN
2B SYSTEMS

has its own special purpose, such as serving beer, hosting crossbow competitions, serving beer, holding live concerts (traditional brass bands, yodellers, Rammstein, etc), serving beer, serving roasted animals (sausages, chicken, fisch, etc), serving beer, serving wine and serving beer. Police deal with a wide range of issues, from beer mug theft to neo-nazi terrorist bombers.

The "October Festival" originated from Munich (München) in 1810, as a celebration of the wedding of Prince Ludwig I of Bavaria and Princess Therese of Sachsen-Hildburghausen in pre-unified Germany. The concluding event was a horse-race.

Due to its popularity, the Oktoberfest became an annual event, featuring farmer markets, dancing, music festivals, amusement rides, and the horse races. Oktoberfest was cancelled for 24 times due to wars, diseases, and other huge problems. Horse racing ended in 1960.

Modern day Oktoberfest in southern Germany runs from mid-September to October 3rd, Reunification Day (Tag der Deutschen Einheit). Currently there are 14 tents at the Bavarian Oktoberfest: each tent

Various similar fairs are held in other parts of Germany, though it may not be called Oktoberfest (Oktoberfest is a Bavarian festival and different parts of Germany love to maintain their distinct identities). The largest Oktoberfest outside of Germany is a week-long event held in Kitchener-Waterloo annually from the Friday of the Thanksgiving long weekend. The K-W Oktoberfest is characterized by lots of polka, beer-based competitions, barrel-rolling, some traditional German entertainment, and the only major parade on Thanksgiving. It is also a legitimate excuse for students to get piss drunk for the weekends.

So stop studying and go out and experience the good cheer, or "gemütlichkeit!"



Who wouldn't want to party with this guy?

Places to go during K-W Oktoberfest

Opening Ceremonies (FRI)

- Featuring the official keg-tapping to start the festival (Kitchener City Hall)

Pancake Breakfast (SAT)

- featuring free breakfast (Uptown Waterloo)

Barrel Race (SAT)

- featuring keg-rolling race (Uptown Waterloo)

Rocktoberfest Concert (SAT)

- featuring rock acts and traditional music (Queensmount Arena a.k.a. Altes München Haus, Kitchener)

Kapellenfest (SUNB)

- featuring marching bands and drum-and-bugle corps (Karlsberghaus a.k.a. Kitchener Auditorium)

Oktoberfest Parade (MON)

- featuring bands, traditional dancers, floats, Midnight Suni½ and is covered by CTV (King St.)

More events can be found at www.oktoberfest.ca

Engineering Then and Now



ALICIA LIU
3B COMPUTER

On Monday, October 3rd, engineering students and faculty packed DC 1302 for the inaugural lecture of the O'Donovan Distinguished Visitor Lecture Series. Who was this "Distinguished Visitor"? Though one might expect an engineering professor discussing the latest breakthrough on the cutting edge of technology, it was actually a historian, Prof. Rosalind Williams, the head of the Program in Science, Technology, and Society at MIT. This might seem strange, "almost perverse", as Williams put it, but in actuality quite fitting. Val O'Donovan, for whom this lecture series is named and honours, was the University of Waterloo's Chancellor for six years. He was an engineer himself, and also a socially conscious leader in business and the community. It is said of O'Donovan that "he had the mind of an engineer and the soul of a poet".

William's lecture is titled "A tale of two centuries: Engineering in 1900 and Technology in 2000". She compares

and contrasts engineering as it is today, with the profession as it was at the dawn of the last century, which we relate to through the experiences of her own grandfather, Warren Lewis, who was a young chemical engineering student at MIT at the time. We learn that there are many parallels between that period and now. Then, it was the start of the "second industrial revolution", with the introduction of electrical grids, and now it is the "information revolution", with the advent of the internet. Both periods experienced rapid technological change. In Lewis' diary, he describes his era as the greatest period of "technological change". We are today inclined to think the same, though arguably Lewis is more correct. Lewis was one of the first students in chemical engineering, a new field at the time. Now we have all kinds of new branches, such as mechatronics, and nanotechnology. Engineering is constantly evolving, based on what needs to be engineered.

Williams pointed out that as tech-

nology keeps evolving, technological progress no longer translates to social progress. It's no longer the case where technology can make some task faster and easier. One can immediately conjure up examples such as the atomic bomb, chemical and biological weapons. One can even go so far as debate the social value of creating hyper-realistic, but violent, video games. As Williams puts it, humans are changing the earth like never before, we're no longer just here for the ride. In such a world, it becomes clear that engineers can no longer work blindly in an industry, but must be aware of the social implications of the technology that we create. After all, that's what the iron ring is supposed to remind us of.

To mitigate this issue, one of the requirements of an engineering degree from Waterloo is a course that deals with the impact of technology on society. Incidentally, I'm currently taking my impact course, Cultural Anthropology.

One of the points that anthropology stresses is that despite all this technological advancement and industrialization, people are not happier, nor more fulfilled, but rather busier.

Lewis writes in his diary of his various

extra-curricular activities, from reading Cicero and Shakespeare (voluntarily), to visiting art museums, creating fine art as well as technical drawings, and attending political talks. Today, we have a verifiable youth culture, yet I doubt that culture is as enriching. Today's youth are some of the most politically apathetic ever, and arts and cultural institutions all over North America are suffering a crisis due to lack of younger patrons.

Engineering requires more core courses than most, leaving only a handful of electives free. Despite this, humanities courses are scorned. I fear a world where technology is divorced from society. While it seemed unusual to have a historian give a lecture to engineering students, it was in fact, perfectly fitting, because technology is part of the much wider fabric of society, and the history of technology is part of the history of humanity. Perhaps we should all strive to be more like O'Donovan, and have more of a poet in ourselves.

"...we must be aware of the social implications of the technology that we create."

Discrimination Sucks

ANONYMOUS

CLASS UNKNOWN

I recently went to K Zone with my housemates. Being the courteous Canadian I am, I decided to correspond with the staff in English and chose to hang out in the main lounge. Our group picks lots of English songs from their above average selection. It seemed that the staff offered only FOB-friendly service: our English songs took forever to get played and when the place closed down for the night, our stack of song requests was at least 3 times larger than the other tables. I agree Nicholas Tse is better looking than that the guys in those low-budget MTVs (e.g. Whole New World), but everyone had the slight feeling that we were discriminated for not being "azn" enough. Skipping our songs

definitely does not benefit us, but does not benefit the other patrons to any significance either. Why do they even bother?

Unfortunately, I must say that this is not the only case of discrimination (or favouritism) in Waterloo. Mr. Panino's "sandwiches" are another case of this phenomenon. I discovered that ordering in Mandarin gets more vegetables than when ordering in English (and if they hear you talking in Cantonese, your vegetable quantity approaches zero). If you go to Shandiz, make sure you bring a Persian friend with you. Although a lesser degree of discrimination occurs at Pho places, there are times when you wish you were Vietnamese.

I recommend that people treat everyone well. Treat everyone like shit and everyone will hate you. Equality is good and discrimination sucks.

IRON WARRIOR EVENT CALENDAR

Talks:

September 23- October 23:
EinsteinFest Lectures

To celebrate Albert Einstein's 'Annus Mirabilis' of 1905, the Perimeter Institute of Theoretical Physics is putting on a month-long festival to celebrate the life and achievements of Albert Einstein and his ilk.

A variety of free lectures are being held at the Perimeter Institute on a wide variety of topics. Week 3 (October 15-21) focuses on "The Man", while Week 4 (October 22-28) focuses on "The Legacy". Topics include Einstein's politics, his wife, the music he listened to, the various applications of his theories in modern science, and much more.

These talks are free, but advance tickets through the Perimeter institute are recommended. Go to <http://www.perimeterinstitute.ca/activities/community/einsteinfest/calendar.php> for a comprehensive list.

October 13: Bill Gates Comes To Waterloo

The Microsoft guru visits the only Canadian university on his speaking tour. He'll be coming to Hagey Hall at 10:30am., and if you don't already have a ticket, chances are you aren't getting in. But never fear, the talk will be broadcasted live in the Student Life Centre and the Davis Centre.

October 29: George Roter, EWB Co-Founder

As part of Waterloo's Homecoming, Engineers Without Borders co-founder George Roter is speaking about "Canada's role through the eyes of the poor" at Hagey Hall.

The talk runs from 6 to 7:30 pm. Advance registration is required. More

info is available at <http://alumni.uwaterloo.ca/alumni/hc2005/index.html>

Live Music

September 23-October 23:
EinsteinFest Concert Series

As another facet of EinsteinFest, the Perimeter Institute is presenting a series of free or cheap (\$10 depending on the artist) concerts for the next two weeks in their very own Black Hole Bistro.

On Friday, October 14th, local bluesman Mel Brown plays the Bistro with Miss Angel at 9:30.

On Saturday, October 15th, the Penderecki String Quartet and mezzo-soprano Kimberly Barber play at 7:30, and the Pat LaBarbera Quartet plays at 9:30.

On Friday, October 21st, Kevin Breit plays the Bistro.

On Saturday, October 22nd, Jeff Healey's Jazz Wizards play with the Ron Schirm Quartet.

October 14: The Organ

Ironically-named female rock group The Organ plays the Starlight on Friday, with Gentleman Reg and The Haunches. \$11 in advance, tickets available at the Jane Bond on Princess Street. All ages.

October 16: Matt Mays

Matt Mays and El Torpedo plays the Starlight on Sunday, with The Novaks. \$13 in advance, tickets available at the Jane Bond on Princess Street. All ages.

October 26: Tricky Woo

Kickass Canadian rockers Tricky Woo have reformed after a breakup and are touring again. They'll be at the Starlight Lounge on October 26th

with From Fiction. \$11 in advance.

This show is going to rock your socks off.

November 2: The Hidden Cameras

Noteworthy Canadian scenesters The Hidden Cameras are one of the kinkiest bands you'll hear, but their music is so uplifting you can ignore the lyrics if you like.

They're coming to the Starlight on November 2nd, \$12 in advance.

Kitchener-Waterloo Symphony

The Kitchener-Waterloo Symphony Orchestra offers students \$15 tickets to classical music which costs other people anywhere from the low 30s to high 50s. Definitely worth checking out www.kwsymphony.on.ca to see what's going on.

On October 28th, the symphony presents a 'Rogue's Gallery' of pieces: Mozart's Don Giovanni overture, Copland's Billy The Kid Waltz, Sullivan's Pirates of Penzance overture, and a piece from Bizet's 'Carmen'.

Campus

September 15-October 20: UW Art Gallery Presents Art Green Retrospective

In connection with the Kitchener Waterloo Art Gallery, the Waterloo art gallery in East Campus Hall is showing some paintings by artist Art Green from September 15th to October 20th.

Art green is a Canadian painter who does some intense, colourful paintings of stuff that actually looks like real stuff.

October 22: Fall Convocation

Fall Convocation exercises take place on Saturday, October 22. If this applies to you, chances you aren't reading the Iron Warrior anymore, but if you have friends or older siblings graduating, this is a date to keep in mind.

October 28: MOT

Everybody's favourite middle-of-term party at POETS. You get to see The TOOL, find out where you stand in the race for P**5 points, and enjoy a few BEvERages.

October 29: Homecoming

This celebration of Waterloo spirit consists of a variety of events, including the Naismith basketball tournament, a 5km run, art shows, Chemistry "magic shows", a lecture by EWB's George Roter and Warrior Weekend movies in the SLC.

More info at <http://alumni.uwaterloo.ca/alumni/hc2005/index.html>

Other

October 7-16: Oktoberfest

It's pretty self-explanatory. Check out www.oktoberfest.ca for a listing of Fest-halls and other related events.

CUTC:
Looking for Execs

Continued from page 1.

#4 - Super Exec:

If you think you've got the skills to do anything and everything! And you don't mind spending many sleepless nights slaving over CUTC related assignments ranging from Sponsorship to Student Relations - You're one crazy person, but let us know regardless.

Please be assured that the perks associated with being an exec are more than enough to justify the work required of the position.

So if you want to network and meet students who have a driving passion for the creation, education and use of cutting edge technology, if you want to pick up essential Project Management, Leadership, Communication and a host of other skills by organizing North America's biggest Undergrad Technology Conference, and finally if you have an unquenchable thirst for technology and want to be a part of the movement that brings its future to the student community, then I hope you'll consider being a CUTC Exec.

To apply or to get more details, please email us at hr@cutc.ca and do tell us why you'd like to work in the position you are interested in.

Thanks for taking the time to read this far .

Waterloo's Brain Drain



ALICIA LIU
3B COMPUTER

School has just gotten into full swing, it's time to get into gear for the mad co-op dash. After the dreadful slump of the past couple of years, the jobs appear to be back and plentiful. Everyone wants that plum position, challenging work, interesting problems, and of course, a nice paycheque. Many of the most lucrative jobs most vied for are in the United States. Undisputedly better compensation on average, and who wouldn't want to do some travelling and sightseeing on a work term? Positions in the United States consistently draw the best and brightest students. What's more is that students who go state-side often tend to stay there, for another co-op term, and after graduation. What is the draw? Lower taxes, better weather?

Canadian universities are subsidized by the government, which means that a major part of the cost of education is funded by Canadian taxpayers. If the fruits of education, the students, leave Canada upon graduation, then isn't that money wasted?

What are the repercussions of this for Canada? Obviously, Canada can't forbid emigration. The former USSR and Eastern Germany tried that, and that was shown to

be a very poor strategy.

Then again, Canada also gains skilled labour through the many immigrants entering Canada from all around the world each year. By the same token, Canada attracts the "best and brightest" from many other countries, who were educated at the expense of other countries' taxpayers. According to the Statistics Canada, the "brain gain" into Canada was larger than the outflow of highly skilled workers to the United States by a wide margin, particularly in the high tech sector.

"If the fruits of education... leave Canada upon graduation, isn't that [government] money wasted?"

However, shouldn't Canada want to keep all its highly skilled workers? Should there be changes to public policy to mitigate the brain drain? Lower taxes? The effects of the emigration of skilled workers is real, and hurts Canadian companies. However, if Canadian companies are unable to offer competitive pay, they certainly will have much less leverage to attract the best people.

Then again, money isn't everything, as shown by the legal fight between Microsoft

and Google over Kaifu Lee, a scientist who first led Microsoft's Asia operations in China, then switched over to start up Google's development centre in China. Lee would have been paid the same at either company. Over the past couple of years, Google has drawn many Microsoft engineers away, and while perhaps in the past, such exchanges happened both ways, certainly Microsoft doesn't appear to have attracted any Google employees, and that's not due to lack of pay.

Perhaps Canadian companies need to become more dynamic, create a more attractive corporate culture? Google was successful in turning recruiting on its head. No longer does Google even need to recruit in the traditional sense. Who doesn't know about their free food, cooked by the former chef of the Grateful Dead? Or their policy of allowing employees to spend 20% of their work time on their own project? Everyone thinks of Google as a cool, young, active company who produces great products, and that has made the top engineers, scientists, and best minds, worldwide, flock to Google.

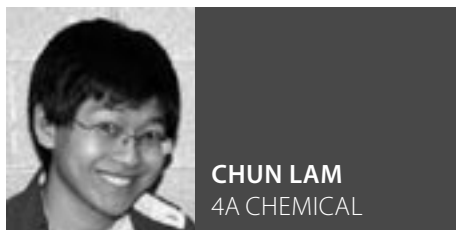
Canadian companies can learn from Google, but perhaps that kind of image and reputation can't be duplicated artificially. Companies will have to rethink their recruiting practices. That, or tell the government to lower taxes. In the mean time, who's going to California for the winter term? Now the weather, that's just something that can't be helped.

POINT VS. COUNTERPOINT

Can Poverty Really Be Made History?



DAN ARNETT
2B ENVIRONMENTAL



CHUN LAM
4A CHEMICAL

The recent publicity surrounding the 'Make Poverty History' campaign raises the question: Is such a thing feasible? I believe that it is, but it is going to take a lot more than wristbands and fundraisers.

The whole idea of poverty is defined in many different ways and, in some cases, lacks definition. Poverty is different for every group of people on this cracked old globe. For example, one is considered to be living in a state of poverty in this country if they lack a house with heating, electricity, running water, and refrigerated food. Yet there are various groups of people on earth that see this as the norm. If we are trying to eradicate poverty, we would do well to pay attention to what poverty means to different people, instead of imposing our definition of it upon everyone.

The key to eliminating poverty is sustainability. If we were to try to bring everyone on earth up to a North American standard of living, we'd run out of resources and space faster than 'Settlers of Catan'. Therefore, the first step to eradicating poverty is admitting that the current North American lifestyle is not sustainable.

We are taking resources from the earth at an irreplaceable rate. This may mean fast, cheap and easy wealth and affluence for us, but in doing so, we not only impoverish other areas of the world who must sweat and bleed to feed the North American ideal of progress, but we also impoverish future generations. Our children will expect the kind of affluence we experienced but won't be able to attain it because we will have pissed away all their resources.

To make poverty history, we need to change our current standard of living, as hard as that is to believe and accept. In all cases, especially our own, food, shelter, and water must take priority over entertainment, luxury, and especially militarization. For example, the less pressure we put on the third-world countries to produce cash-crops which serve only as relatively useless niceties to us, the more resources those countries have to provide their own citizens with food and shelter. To a certain extent, this will result in an increase of autonomy within nations, which could lead to a decrease in military activity. You're not as likely to attack a neighboring country because they've got something you need if you're producing it yourself.

The major inhibiting factor to all this is human greed. Why should we sacrifice any of our luxury for the greater good? It won't be easy. Even the most well-intentioned individuals will balk at a tiny standard-of-living change. We'll miss some of the things we've acquired. But as we continue to use up our resources, we'll have to make a choice. We could cut back a little. Or we could keep using resources at our current rate, which will eventually result in the depletion of everything we need to survive- a global state of poverty more abject than anything we can imagine now.

Humans are built to survive. When we have no choice but to make poverty history, we will most certainly do so, because we know that if nothing is done, poverty will make us history.

As the days grow shorter, become colder, and slow mass exodus of mammalian life to warmer lands begins, the changing of the seasons from summer to fall is in full swing.

However, what never changes is the campaign to eradicate poverty. Organizations have tried, the world's most technological and economic advanced nations have and are tackling the task; it seems a never ending campaign a perpetual journey to utopian era. However, will this campaign work? I say no, and the reasons are discussed in the following paragraphs.

The main application of engineers in this dimension called reality is to solve problems. However, to solve problems, you first have to define the problem so your solution will be relevant to the problem. To define the problem of poverty is quite difficult, and ambiguous. Even though we see all the suffering in the third world and in our nation in the 'rougher areas' how do you tell it is poverty? Is it starving children in a famine ravaged village who has no clean water? Is it people who use the food bank? Or is it a single parent family living in social housing on \$500 per month?

Getting governments, organizations, and people to understand clearly, and agree who is 'in poverty' is quite difficult. However I'll make a simplification for this article and assume that 'poverty' refers to being in the lowest economic status with no wealth to increase your standard of living; such conditions are those in the third world.

So to cure poverty, you would have to increase the economic status of these people, i.e. give them some personal wealth so they can buy basic necessities (i.e. food, water, medicine). Well, there are flaws with this solution.

One major flaw is that the current economic system du jour, i.e. capitalism, does not allow for such wealth transfer without major upheaval. Since capitalism is based on 'the market' a complex interrelation between supply and demand and its affect one the value of products. By increasing the economic status of the impoverish peoples, you now have increased the demand value to about 6 billion peoples, that is the total population of humanity on earth. By increasing the demand you have extreme stresses the supplies of all resources on the earth. From food to medicine to car to clothes all will be in high demand which will drive up prices for such goods. With higher prices comes higher costs for everything, and so the cycles continues to escalate. With such escalation economic activity will stagnate, so will development of the sciences, technology, culture, art. Thus, this expropriation of wealth will overload the market system and our economic order will crumble.

Another reason why such solutions will not occur is how disadvantageous it would be for the Western nations. If you are unaware of the current economic and political order of this world,

it goes like this. There are 8 nations in the world that are called the G-8, who are industrialized nations that hold 60% of the world's gross domestic product. The members of the G8 are nations of North America (minus Mexico), Europe, and Japan, what I like to call the Western nations. The west wields this economic power to leverage great political power in the world's political scene for its own benefit. You may have heard of globalization or international free trade, and you may have heard of the World Trade Organization (WTO) and the World Bank / International Monetary Fund. What you may not be aware of is that these organizations are extremely biased towards the western nations and are used to subjugate the third world through free trade and third world debt payments. As a result the western world gets access to the resources of the third world without having to give these nations a fair price for their resources, hence why poverty is rampant in these nations. Now if the west were to 'make poverty history' by giving the third world a fair economic deal, the west would lose their leverage in world affairs, and imported products like bananas, and coffee would cost more. More importantly, the west would lose a more precious commodity: immigrants. Since most immigrants come to the west in search of a better life economically, they come willing to do any kind of work and at such a lower salary since a low salary is better than no salary. As a result there is a source of labour to do 'the labour-intensive low pay jobs' in the west - the cleaning jobs, the food and retail service. Don't believe me? Well go to several convenience stores or gas bars and look at the attendant.

But the most important part of why the west doesn't want 'make poverty history' is that poverty is a requirement in generating a legacy of being a great civilization in the storied history of humanity. With every 'great civilization' in the history of man has been the need for a group of economically disadvantaged people the civilization has had to exploit. In other words, the civilization has only been great on the backs of impoverished, whether it be the Romans with their colonies and conquered peoples paying tributes to the great city, the Chinese with their feudal system of a large poor peasant population, or the 'great' European empires of the 17th - 20th centuries bankrolled on the resources and labor of the colonies. Western civilization is no different; it has been the pinnacle of everything in the world for the past 100 years, from arts and culture to science technology. The trendsetting has been done by the west. As indicated earlier, the economic order of the world is predetermined to benefit the west with vast resources to develop its great civilization. These resources are taken from countries with no benefit to the extorted country's people, leaving them in poverty. Hence, western civilization is benefiting greatly from this economic situation that leaves many in poverty.

Another obstacle is the cultural views of those who have 'the wealth', that is the western world (i.e. North America). The culture of the new world is 'American Dream' or 'the land of opportunity' where 'there' a chicken in every pot and two cars in every garage'. The culture here

in the west is the one of opportunity to improve your standard of living through hard work. You work hard, you'll live in a comfortable home with clean water, proper heating, and food on the table. This culture is why most of the impoverished world comes to the west. My parents did, 90% of the population of North America did also, minus the indigenous population of North America. So to make poverty history, you would have to transfer the wealth of these Westerners over to the third world. Think that will be a feasible solution? I do not. You have to contend with the fact that the majority of westerners are not going to expropriate their wealth and resources on the basis of equalizing the economic order of life. We in the west do give to charities but it is not the majority of personal wealth. Westerners have been indoctrinated with the ideology of working to get what you want, not being given on a silver platter. So giving away your home or assets to impoverished peoples isn't appealing. Besides for an immigrated family from an impoverished nation to give generously... well, they've made the dangerous trip to this land and now they have to contribute to help improve life in their home land? Why make the trip then? However, before you chastise me for being blunt and criticizing me for sour grapes, think about this. Are you willing to give away half or most of your possessions, your work term salary, your booze money to the cause? If you do, then I'm in full admiration for your courage and dedication to this cause. If you are not... well, there are words to describe these types of people.

Though the need is great to alleviate the suffering of poverty, the need is unfortunately too great for us to fully relieve.

Editor's Note:

The views and opinions expressed here do not necessarily reflect those of the authors, the Iron Warrior, or the Engineering Society.

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.

ENGINEERING SOCIETY EXECUTIVE REPORTS

Frosh Mentoring & PDEng



KEN HANES
VP EDUCATION

Alright, another term is off to a quick start – it's hard to believe that the first month is done already. Hopefully the transition has been made a smooth one for all of you first years and you've enjoyed the first month of your university careers. For those of the first years that are having a tough time, once again I'll mention the Frosh Mentoring program. Check out the website/discussion board and if you have any questions or concerns feel free to post them and find out what you need to know. The Frosh Mentoring directors are planning on running another event later in the term which will be a blast. So first years and upper years alike should make an effort to come out to this and get to know each other!

Once again, the frosh mentoring web-

site is: <http://engfrosh.uwaterloo.ca/>

Today (Wednesday October 12) there is a PD-Eng feedback forum in CPH 3385 at 5:00PM. I encourage any 2A students who have just finished with the first PD-Eng term to come out and give us feedback and to supply constructive criticism. On another PD-Eng note, I need every class in the 2A term and younger to supply me with one or two class PD-Eng representatives. Many of you have already sent me this info but for those that haven't, get on it! This will improve the feedback process and will allow the reps to deal more closely with Eng-Soc and PD-Eng people.

That's really about all that's new and exciting. On an unrelated note, apply for scholarships and bursaries because the money is free and people love giving it away. I want to give a big shout out to Jen Carroll for running Resume Critiques. She did an awesome job and hopefully all of you get a job now! (Thanks to the rest of the critiquers as well). Anyway, keep watching for what's going on and if you have any questions or concerns, feel free to get in touch with me and let me know.

Fall Is In The Air



ANDREA RAYNER
VP INTERNAL

All right, with October here, the smells of rotting leaves and cooking sausages are in the air. This Thursday promises a lot of Sausage as SausageFest 2005 will be happening. Stop by the POETS patio to buy your sausage and see Fitz in some sexy outfits. Enginuity is happening again this week. Think eggs and catapults. Good times. EngSoc nominations are now open, see my other article for info on that.

Everyone should run!!

This term has been going well so far, apparently only 7 people showed up for W**5, 6 from one class, so they kind of won. Next time we're back on stream in the summer will be the best W**5 yet, so look out for that. Some sort of cleaning event happened recently too, apparently they managed to remove all the Dust from a bar in Ayr in about 2 hours. Good cleaning guys! We'll have to refer you to Molly Maid.

I think that's about it, I'm going to cut this article a little short, because I need to get outta here! I hope you all had a great long weekend, and we'll see you around. As always, if you have any questions, just ask!!

Money Can't Buy Me Love



DAVID JOHNSON
VP FINANCE

I'll make this quick. First, the EngSoc budget was not presented at the meeting due to a mix up with feds and the registrar's office. All has been resolved, and hopefully the budget will be passed at the third meeting which is on the 19th of

October.

EngSoc donations have been proposed at the second council meeting. There were 7 groups asking for money. EngSoc budgeted for \$2000 in donations this term. The decisions will hopefully be made at the third EngSoc meeting.

In the immortal words of the Beatles: "Your lovin' gives me a thrill, But your lovin' don't pay my bills."

Your in service,
David Johnson
V.P. Finance

President's Report



KARIM LALLANI
PRESIDENT

I can't believe that midterms are already starting, since it feels like the term just begun. There are a lot of exciting things happening around the campus this week. Most notably, Bill Gates is coming to the University of Waterloo. He's doing a North-American tour visiting 6 universities including top schools like Princeton. UW is the only university in Canada that he's visiting, so we should be very proud of this. He recognizes the fact that we're the top Engineering and Computer Science School in the country! In total, 138 engineers have been given the opportunity to see him live during his talk at the Hagey

Hall Humanities theatre on October 13. If you are not one of the lucky 138 engineers, you should definitely check out the live broadcast of the talk at the SLC great hall and DC atrium. Unfortunately, there will no longer be a live webcast of the event, because some parts of the presentation cannot be recorded due to copyright, secrecy and privacy. An edited version of the presentation will be available to download within the next couple of weeks. Details will be available on the EngSoc website.

There are also two large festivals going on during the next couple of weeks. One festival is the 2nd largest beer festival in the world, and the other festival is one of the largest nerd festivals in the world. Since "beer + nerd = engineer", you should definitely check out both Oktoberfest (<http://www.oktoberfest.ca/>) and Einsteinfest (<http://www.perimeterinstitute.ca/>) events, especially if you need a study break. Good luck on your midterms!

CFES Congress



CHRISTINA WATERS
VP EXTERNAL

Canadian Federation of Engineering Students (CFES) Congress

Going to be held: January 1st, 2006--- January 7th, 2006, in Windsor, ON.

Wow, the interest generated in this conference was way more than I had anticipated, hence the article on the topic.

Congress is a forum in which all of the Engineering Schools Student's can meet together in a forum and discuss all national issues.

Engineering Societies exchange information in the form of sessions based upon pertinent issues at their respective schools. It is also a time to put forward motions, or ideas, as to how we, the respective schools, feel that the CFES Executive should conduct business on a national level. Everything completed and discussed during this week can affect every Engineering Student in Canada. Please contact me if there are any more questions.



Christina and Jay (VPX A)'s attire to the Banquet.

Upcoming Events from EngSoc

Sun Oct 9	Mon Oct 10	Tue Oct 11	Wed Oct 12	Thu Oct 13	Fri Oct 14	Sat Oct 15	Check out up-to-the-day event postings on the EngSoc website at www.engsoc.uwaterloo.ca
				Oktoberfest- buses leave from SLC Bill Gates talk	Enginuity #2		
Oct 16	Oct 17	Oct 18	Oct 19	Oct 20	Oct 21	Oct 22	
			Engsoc Meeting 5.30p CPH 3385				

ENGINEERING SOCIETY EXECUTIVE REPORTS

Announcing EngSoc Elections!



ANDREA RAYNER
CHIEF RETURNING
OFFICER

Now, I know you all love the current Exec, and would just love for them to stay in their positions until forever, but the time has come for some fresh faces in the Orifice. Nominations for Executive positions are open until 4:30pm on October 20th. There are a few stipulations for running, to run for President you must be going into your 3A term (meaning at least 2B right now), to run for VP External or VP Education you must be going into you 2B term or higher (at least 2A right now) and for VP Internal, VP Finance or WEEF Director you must be going into your 2A term or higher (at least 1B right now). I've asked each of the current Exec to write up a little blurb about what their job is about so you have a bit of extra information. Feel free to get in touch with any of the Exec if you would like some more information. Being on Exec is a great way to make a difference in the Engineering Society and a fantastic way to get involved!!

President:

Karim Lallani (bsoc_prez@engmail)

If you're running for President of the Engineering Society, you need to be prepared for a huge time commitment. I've had an awesome experience as president, and I don't regret any part of it! The best part about being president is that you get to travel across Canada and meet other Engineering student leaders at conferences. I've met so many amazing individuals during my term as president. You also get invited to many special faculty and alumni events. Although there are many perks of being EngSoc Prez, you are loaded with responsibility. As president, you'll go to meetings, meetings and more meetings. One of the most important committees that you become a part of is the Examinations and Petitions (E&P) committee. On this committee, you will represent students who have put forward academic petitions, because they have failed a term. You will also sit on a number of other committees including COPS (Council of Presidents), EFC (Engineering Faculty Council) and much, much more.

I've had a truly unforgettable experience as President of the Engineering Society. If you plan on running for the position, I strongly urge you

to contact me and we can talk about the position in more details. Good luck!

VP External:

Christina Waters (bsoc_vpext@engmail)

Vice-President External: If you like politics, this is for you!!!

The main job of the VP External is to represent Waterloo B in Ontario and Canada as a whole. That is, you will get to go to conferences, meet a whole bunch of other awesome people and represent all of the students at Waterloo. You shape how Engineering Students are viewed in Ontario and Canada. You will deal with Professional Engineers of Ontario (PEO), Ontario Society of Professional Engineers (OSPE) along with many other organizations that have an interest in Engineers at Waterloo.

Be prepared to go on many conferences. That is your primary job; you represent Waterloo at all of these events. While they are extremely fun, there is also a work aspect to conferences that must be adhered to. Remember, every Engineering Student at Waterloo is in some way financially contributing to you attending the conference. You have to make sure that what you represent is honest because you are representing the students, but also that you are having fun as well.

In addition to this, there are directors that you will have to consider, along with events that need to be run each term. It falls under your responsibility to ensure that these events will take place each term, and it is also your responsibility to ensure that your directors will do what they say they will do. Other than that, it is a fun position that allows you to meet other students from all over Ontario, as well as all over Canada.

VP Education:

Ken Hanes (bsoc_vpedu@engmail)

My job pretty much consists of anything and everything to do with education. It's pretty self explanatory. The VP-Ed is the students representative to administration for education related matters. As the VP-Ed, you'll be in charge of several directors, including: Frosh Mentoring, Course Critiques, Resume Critiques, Student Workshops and you get the picture. You will also sit on several committees dealing with issues such as co-op and you'll likely be a member of the PD-Eng Steering Committee.

After this, the job is what you make it. There is lots of wiggle room in the

position, and there is definitely a lot of room for creativity. Basically, anything that will improve the educational experience for the average student goes. Be prepared to deal with administration and co-op quite often. It's a fun job, it's not too time-consuming, and you really get to make a difference. If you have any questions drop me an email and we can meet and talk about the job. Hopefully I'll hear from a few of you!

VP Internal:

Andrea Rayner (bsoc_vpint@engmail)

The job of the VP Internal deals very much with people. Any thing that happens within the Society ultimately goes through the VP Internal. The most directorships by far falls under this position, so you get to deal with lots of directors, including Special Events, Semi Formal, Athletics, Genius Bowl and many more.

The amount of work you do as VP Internal is really up to you. You can do nothing and the term goes crappy, or you can do a lot, get your directors fired up and make the term awesome for everyone. The position is very rewarding because you get to see lots of people have a good time! If you have any questions at all about the position, let me know!!!

VP Finance:

David Johnson (bsoc_vpfin@engmail)

The VP-Finance is your friend for he/she who holds the money is always good-looking. The responsibilities include the use of the force for the protection of the EngSoc funds.

As VP-FineAss you will be responsible for the funds held by EngSoc, which of course includes the disposal of said funds.

Each term, the VP-Finance will create and enforce the EngSoc budget and makes sure everyone is reimbursed in a timely manner (Timely manner is a relative quantity). VP-Finance is also responsible for the Engsoc donations. Each term the Eng-soc gives money away to student groups and clubs. The VP-Finance is responsible for organizing the donations and proposing a number of possible suggestions, for the society to vote on.

WEEF Director:

Mike Spendlove (weef@engmail)

WANTED: 1 WEEF DIRECTOR for 2006-7.

Since participation stats won't be in until next issue, and since elections will be coming up in a few weeks, I wanted to take this opportunity to talk a bit about the position as WEEF Director.

In terms of responsibilities, the WEEF director is responsible for the following:

- Organizing volunteers during the refund period and submitting the refundee names to the registrar

- Promoting the WEEF proposal period and contacting past proposal submitters

- Dispensing WEEF funding to those who have been allocated it

- Organizing and chairing the Board of Directors, Funding Council (AKA WEEF reps) and Annual General meetings

- Writing a column in each issue of the IW

- Day-to-day answering of emails, phone calls and letters relating to WEEF administration

- Keeping the website up to date

- Any additional promotion of WEEF through posters, EngSoc meetings, bulletin boards, t-shirts, etc.

- Co-ordinating with other departments and the Office of Development regarding Alumni relations and donations

If it sounds like a lot of work, that's because it is. However, there are some great perks to the job:

- It's a great thing to list on a resume and includes all sorts of skills including public speaking, chairing meetings, graphic design, writing, organizing volunteers, leadership, etc.

- You get to work on a regular basis with the Dean, faculty and staff from across Engineering and to learn a great deal about how UW works 'behind the scenes'

- You get the lowdown on all the amazing student teams we have at UW, what they're up to and how well they're doing in various competitions.

- You get the chance to be involved with EngSoc, IW, Orientation, and the largest student-run endowment fund in Canada.

- There are other advantages, of course, as well as other responsibilities, however if you're interested in more info, find me @ POETS or even drop me an email and I'd be happy to talk more about it.

- Don't be mistaken, it isn't an easy job - but if you're up to the challenge, it's well worth the effort.

Neil Gaiman Promotes New Book With Signing Tour



DAN ARNETT
EDITOR-IN-CHIEF

If you're in Waterloo Engineering, chances are that you have at least a few nerdy tendencies. And if you have even a few nerdy tendencies, chances are you know the name Neil Gaiman. This award-winning English author has recently gained acclaim for his novel "American Gods" as well as his earlier works "Neverwhere," "Stardust", and

his team-up with Terry Pratchett, "Good Omens". He's also the author of the infamous "Sandman" series of comics.

Neil has recently written a new novel, entitled "Anansi Boys". It follows the adventures of the sons of Mr. Nancy from "American Gods", who was certainly no ordinary father. And since his writings have elevated him to rock-star status in the literary world, what better way to promote your book and give back to your legions of adoring albeit geeky fans than to go on a book-signing tour?

Neil came to Toronto on Saturday, October 8th, to speak and sign copies of "Anansi Boys" at the Bloor Street

United Church. Now, it's not often you see a legion of scary people dressed in black leather jackets, hoodies, cloaks, etc. lined up an hour ahead of time to get into a church. But that's just the kind of power Neil has.

Copies of "Anansi Boys" as well as his earlier works were for sale on a table at the back of the church, and since everybody at the signing got a \$15 discount on "Anansi Boys", sales were brisk. Understandable- although Gaiman has been known to vary his style, his works are by-and-large consistent.

Continued on page 12- see Gaiman



Photo by Ashley Reid

CECS

New And Improved Initial Phase Ranking Procedures

TARA KEOGH
CECS

A new co-op matching procedure has been launched this semester on a trial basis in the hopes of meeting student employment targets. This pilot project will be implemented in every program except Accounting. Architecture will be using a similar model, but the procedure is slightly different. Refer to the ARCH important dates calendar for more details.

The procedure will be as follows: During the Initial Phase students will now have the option of ranking a job #1 immediately following their interview if you feel that you would be willing to take that position and be removed from any more interviews if you are matched. Employers will be encouraged to submit rankings as quickly as possible, to facilitate this hope-

fully faster process. There is a catch: these matches will be completely blind, neither student nor employers will be able to see what the other has ranked them; both sides are gambling for early matches.

Students will be permitted to have as many #1 rankings as they wish during the initial phase. Matches will be run every day at noon to identify any 1 to 1 matches, and employed students will immediately be removed from interviews and notified via e-mail and Jobmine, by 2 pm that day. If the student is offered more than 1 position, and has ranked them both, the computer will randomly choose which position, so be sure to only rank jobs #1 that you want. Any interviews that a student has been pulled out of will be filled by an alternate candidate.

Be aware that this process may result more last minute interviews for unmatched

students, so be sure to check Jobmine everyday at 2 and again after 6 for added interviews taking place as soon as the next day. As well, CECS will sometimes send out e-mails or attempt to contact students by phone to arrange interview times, so update your e-mail and phone numbers in Quest or risk missing out on a great job.

It is hoped that by allowing students that know which job they want out early, that more students will be able to get interviews in the initial phase and that the job offers will be spread out more evenly among the students, resulting in more matches. Keep in mind while going to interviews that this additional ranking opportunity is completely optional, you can still wait until Ranking Day to make a decision. Employers that have offered you a job will wait for your ranking so do not feel any pressure to rank a job until you are

sure. If you go to an interview and you like the job, but have another interview a week later, you are welcome to wait until after both to make your decision. CECS hopes that these extra steps will cut down on your stress later in the term by giving you the possibility of having more interviews earlier. It will only take a minute to check for those last minute interviews, and a bit of scrambling to make it, but you end up with a chance you otherwise wouldn't get, so keep an open mind and think of how nice it would be to have your job lined up sooner rather than later!

If you would like to read the official memo for students on the new procedure, you can find it at www.cecs.uwaterloo.ca under News & Events. Since this is a new trial procedure, things can change at any time; watch the Jobmine login page for updates. Happy job hunting!

Internships: Not Always What You Think

TARA KEOGH
CECS

By now we all know the problem that faces us when we graduate: Employers want degrees from good universities (check), but they also want 1-3 years of professional job experience even for entry level positions! The question is, how can you get that experience and explore areas of interest without going back in time and signing up for co-op? Even with co-op, it might still not be enough. How can we gain the professional experience employers want, while finishing our degrees? One very good way could be through a not-for-profit internship.

While having some similarities, a not for profit internship is different from a regular volunteering commitment in a few ways, the main one being the fact that in an internship you have the chance to apply what you have learned in classes while gaining professional knowledge: It is a study-related work experience. On a resume, an internship goes under the head-

ing Work Experience, since it involves much more detail, set tasks and timelines whereas volunteering experiences can vary widely and do not have a set project that is completely yours.

An internship is offered at a not-for-profit agency when there is a project that needs to be done and no funding is available to complete it. It is amazing how many different disciplines are needed: organisations require students to help manage and plan special events, to plan and implement marketing campaigns, create websites, prepare presentations and reports and to do research funding avenues, among countless other opportunities.

"That all sounds great," you say, "but I don't have 4 months that I can spare to work full-time on these projects." That is where you are mistaken, not all internships involve a 4 month, full time commitment. It is pos-

sible to arrange an internship where you are only required to work a few hours or days a week, and usually organisations with such internships available offer more flexible schedules. There are still many opportunities for longer full

time internships and they can be great in the summer term or if you were thinking of taking some time off school. Keep in mind, it is not the time commitment that makes these positions internships, it is the fact that you are learning skills that directly apply to your studies or to what you want to do after graduation.

Through an internship, you can learn new skills to build a resume, try out new areas or get experience in an area of interest that might otherwise be impossible, such as event planning and report analysis. In addition, it is a great chance to develop your network and make a

difference in your community.

Does a not-for-profit internships sound interesting to you? Would you like to learn more? You can check out the Internship Fair for the not-for-profit sector at the SLC, on Wednesday, October 19 in the Great Hall. This fair has been brought to the main campus from its previous home at Conrad Grebel with the combined efforts of Career Services, Conrad Grebel University College, and St. Jerome's University. Reputable, recognised organisations will be on hand to give you more information about their exciting opportunities. Participants include Engineers without Borders, The Waterloo Children's Museum and L'Arche, Lutherwood and Focus for Ethnic Women to name just a few. Also on hand will be representatives from the Student Awards Office, to provide information on the awards available to students who choose to take an internship. For more information on internships and the internship fair, go to www.careerservices.uwaterloo.ca.

"..you can get experience in an area of interest that might otherwise be impossible."

October Important Dates and Workshops

October Dates

Ongoing:

Postings open every morning at 6 a.m. and close at 11:59 the following day throughout Initial phase.

Check Jobmine daily for: interviews, schedule changes and if you have ranked a job early, for matches

October 19

Internship Fair for the Not-for Profit Sector- SLC Great Hall 11:00-2:00

Speak with representatives from various not-for-profit organisations about voluntary internships, both part and full time.

October 27

Last day of Initial Phase Interviews

October 28

Ranking Day: Rankings open 6 a.m. and close on Sunday, October 30 at 11:59 p.m.; Co-ordinators are available for consultation from 10:00 a.m. -12 noon and from 1:00-3:00 at the Tatham Centre

-First continuous posting opens 6 a.m., closes Monday, November 1 at 11:59

October Workshops

October 13

Introduction to Career Services Online Modules 10:30-11:30 TC 1208 Learn how to access and benefit from our new online modules on Resume Writing, Interview Skills, Work Search and Success on the Job.

Work Search Strategies 3:30-4:30 TC 1208 Practise networking and other strategies in order to increase the effectiveness of your job search.

October 18

Letter writing 4:30-5:30 TC 1208 Learn how to use letters to your advantage in the job search

October 19

Introduction to Career Services Online Modules 3:30-4:30 TC 1208 Learn how to access and benefit from

our new online modules on Resume Writing, Interview Skills, Work Search and Success on the Job.

October 20

Successfully Negotiating Job Offers 3:30-4:30 TC 1208 Increase the odds of getting what you want when negotiating salary and other details related to your job offer.

October 24

Introduction to Career Services Online Modules 3:30-4:30 TC 1208 Learn how to access and benefit from our new online modules on Resume Writing, Interview Skills, Work Search and Success on the Job.

Writing CVs and Cover Letters 12:00- 1:30 TC 2218 Are you interested in a career in academia or research? This workshop will show you how to prepare an effective curriculum vitae and cover letter when applying for positions in these areas.

October 25

Are You Thinking about an

International Experience? 4:30-6:00 TC 1208 Dreaming of going abroad to study or work? Come and find out what you can do to make your dream a reality, where to find the right information, how to decide where to go and how to make the most of your international experience.

Interview Skills: Preparing for Questions 2:30-4:30 TC 1208 Discuss and learn from actual excerpts of actual interviews

October 26

Work Search Strategies: Special Session for International Students 4:30-6:00 TC 2218 International students will learn best approaches to search for work in Canada after graduation from UW, including visa requirements.

October 27

Interview Skills: Selling Your skills 3:30-5:30 TC 1208 Do not stop at the fundamentals; you must also prove your skills in the interview. Here is your opportunity practise and improve

IRON WARRIOR REVIEWS

Book Review: Planet Simpson

NEAL DAMGAARD
3B CIVIL

Planet Simpson: How a Cartoon Masterpiece Documented an Era and Defined a Generation. By Chris Turner. 449 p.

The way I see it, there are two sorts of people, and only one of them is going to read this book. The first sort watches The Simpsons, chuckling at the jokes and wondering what's on next; the other sort watches and re-watches The Simpsons, memorizes all the lines, revels in the humor, and marvels at its cleverness. Planet Simpson: How a Cartoon Masterpiece Documented an Era and Defined a Generation is definitely for the latter class of people. (I suppose there might be a third group, those who do not watch the show, but if so I haven't met any of them.) Planet Simpson, at roughly 450 pages long, is an exhaustive, one might even say encyclopedic, but entertaining and illuminating read.

Planet Simpson examines the show from every conceivable angle. The origins of the show, its lengthy history (divided into the Early Days (Start to Season 4), the Golden Age (Seasons 4 - 8) and the Long Plateau (Season 9 - present)). There is also an invaluable analysis into the humor of The Simpsons, including fundamental information like the definition of the riff and the good joke, better joke principle.

In-depth analyses of each of the Simpson family members are followed by those of the other important cast members. The politics, economics, religion, and social views of Homer, Marge, Bart and Lisa are examined. The book's structure is pretty loose, meaning that bits like a review of the work and career of Radiohead, analyses of various facets of American politics, and a critique of the WTO and the Battle of Seattle are side-by-side with reminiscences of the best moments of the show.

And there is no shortage of these moments. One of the most surprising features of Planet Simpson is how funny its little dialogue clips and situation descriptions are. But The Simpsons has shown itself to be more than just funny; just below its surface there is always found its cuttingly truthful and grimly analytical side. The author, Chris Turner, is an Ontario native, so his perspective might be familiar to Canadian readers. Moreover, he admits that the book is very personal and idiosyncratic; it is his view of the show and of the world through the show. However, to judge from the book he is a clever and likeable fellow, so the book is a good one. For those Simpsons fans out there, the book is a must-read. For everyone else, if you're interested in a smart review, not only of what might be the best bit of programming in the history of television, but also of what The Simpsons tells us about ourselves and our age, pick up a copy of this book.

Restaurants Around Campus



I stopped in at Curry in a Hurry the other day. I've gone there maybe five times since my days as a Frosh. Curry in a Hurry is a quiet little place over in the plaza.

The menu choices are limited to, obviously, curry dishes.

One of the more popular meals is the Butter Chicken, although I have yet to try it. Most recently, I had the spinach curry with shrimp. The other choices of meat are chicken, beef, and lamb. The proportions of meat in a meal

won't fill your protein requirements for a day, but they won't leave you angry at the chef, either. Beyond meat, one may add one of a number of vegetable, potato, or nut choices to add to the meat. All meals (that I've ever seen ordered, at least) are served on a bed of basmati rice. I prefer a bit more tender grain of rice than Curry in a Hurry has served me. I have always ordered mango juice

or a mango lassi. I find the trip worth it once in a while just for the drink.

The service is fast and friendly. I had my order placed and was eating within about ten minutes. However, I was one of two parties in the restaurant at the time, and the other group was finished eating. I don't recall Curry in a Hurry ever being busy. The same waiter has served me for all of my visits since Frosh Week 2002. He's a friendly, respectable gentleman who acts very professionally.

The price is my only reservation

about the place. I spent \$11.00 on lunch (including tip). I can spend half of that and be more filled from other shops, notably Campus Pizza or Pita Factory. The fact that its curry is the reason I go here. Campus Pizza can get boring after 100 meals there (my rough tally throughout my university life).

Curry in a Hurry makes a good dish of curry, with a smiling face and a quick kitchen. The price can be prohibitive to some people, but I like it once in a while as a break from the ordinary. If you don't like curry, don't go there. If you do like curry, you'll probably enjoy a meal here.

"I find the trip worth it once in a while just for the drink [mango juice or lassi]"

Music Review: Warm October Nights...



Let's get started with this week's five bands / singers!

Roxette

Sounds like? Turn your radio to a 'mix' radio station.

You read that one right! 80s pop music is the greatest. Nothing beats listening to old Roxette classics driving on the road or working on a group project. Think about it, at those key decision points, imagine hearing the lyrics "Listen to your heart, when he's calling for you." The second part doesn't make much sense, but that first line just adds that punch to stand up for your idea and force your group mates to see it your way! It's worked on numerous occasions for me, and will definitely work for you too. Anyways, Roxette's the best. Don't mess. I recommend "Listen to Your Heart", "It Must Have Been Love", and "Spending My Time".

Avenged Sevenfold

Sounds like? 80s death metal attempting to be cool again.

Avenged Sevenfold (or a7x for all you hardcore people) could possibly be the funniest band I've seen in a long time. Their mascara, and smoke machine effects are hilarious! Their

lyrics are even funnier. For instance, in one song called "Chapter Four", the lead singer M.Shadows (yes, spelled that way) sings the words, "I'm coming to kill you, won't leave until you die." I don't know about you, but hearing that line always cracks me up. Avenged Sevenfold seems to have the ability to turn ridiculous lyrics into good songs, with some classy screaming placed a key areas to add to the effect. Their best album is definitely

"Waking the Fallen". Their new one, "City of Evil", is sub-par with too many attempts to become Guns & Roses. I recommend "Unholy Confessions", "Chapter Four", "Sidewinder" and "M.I.A.".

HIM

Sounds like? It's gothic ... please don't beat me up!

HIM is a Finnish rock band that also dresses up in a similar fashion to Avenged Sevenfold, although they lay on much more foundation compared to the former artists. HIM manages to combine 70s - 80s arena rock in their songs. However, their pace is much slower than a7x. There really isn't much to say about HIM because if you listen to them, you'll realize how good they are. I recommend their "Love Metal" and "Dark Light" albums.

The Starting Line

Sounds like? Token pop-punk.

The Starting Line is incredibly catchy. Their first release was over-rated, with only a few decent songs. Their newest album, "Based On a True Story", is much better. It has incredibly funny lyrics, like the ones found in "Bedroom Talk", and some catchy hooks, such as the ones found in "Artistic License" and "The World". That being said, they ripped off a few

riffs for "Ready" from a certain band that released their debut album last August. Anyways, if you're into some catchy tunes with funny lyrics, check out the entire "Based On a True Story" CD. Skip their first release.

The Velvet Teen

Sounds like? The most tasteful music in the list this week.



The Velvet Teen doesn't do anything incredibly complicated. Instead, they combine a piano, a guitar and drums into one seamless unit. They're incredibly soothing after a tough day and can probably help you go to sleep if you listen to the right songs. If you're into stuff like the Arcade Fire (who are awesome ... go Montreal!), you will really like these guys. Check out "Forlorn", "Radiopathy", and "Mother of Love" for the full gamut of the different time signatures, as well as bells and whistles they put in their songs.

That's it for this week. Next issue I won't be introducing five new bands. Instead, I will be reviewing Thrice's "Vheissu". Stay tuned for that since Thrice always comes out with good stuff. If you didn't think Avenged Sevenfold was funny enough for you, check out The College Life (<http://www.purevolume.com/thecollegelife>). This guy is pure gold!



Roxette joins Team Eyeliner?

Cindy's Kitchen: Cooking For Engineers



CINDY BAO
4N ELECTRICAL

The food blog Cooking for Engineers (<http://www.cookingforengineers.com/>) was originally sent to me by my boyfriend. His comments were that he didn't know if it had anything to do with engineering at all, but found the domain name nonetheless amusing.

A computer engineer working in Santa Clara, California, the blogger Michael Chu's passion for food and cooking skills didn't strike me so much as an engineering quality. (Only if you have known some of the same engineering students I have in Waterloo and chances are you do, you'd know what I mean.) Just wait until you get to the entry on Common

Materials of Cookware. Who else will ever compare the thermal diffusivity and reactivity of copper, cast iron and stainless steel?

A more useful posting (personally speaking) is Ingredient Substitutions. It really helps when you just miss that one item on the recipe and cannot make it to the store.

As for the recipes, Mr. Chu made them easy to follow. Given it's a weblog, there is a photo for every stage of the food preparation, something most cookbooks and magazines are unable to do. I especially loved the layout of the recipes, which, instead of lengthy sentences, is done in a tabulated form and easily to follow. I'd write all my recipes that way except Dan would probably fire me for creating extra layout

work for him. Furthermore, I would have been charged for stealing Michael Chu's intellectual property as the format is patented. (Who but an engineer?)

The blog has been a bit slow on the update as of late, but it doesn't stop the loyal followings from checking back. Gravlax is my new favourite on the recipe files. It couldn't be easier and it is so versatile, serving it on crackers or as a topping for salads.

Without further ado, here is how to make...

Gravlax

1 pound of fresh (or frozen) salmon fillet
2 tablespoon of salt

2 tablespoon of sugar
2 teaspoon of black pepper
20 sprigs of fresh dill

1. Thaw the frozen fillet if applicable. Examining the fillet carefully and remove bones.
2. Mix salt, sugar and peper.
3. Place the fillet on a large piece of plastic wrap skin side down, rub and cover it with the mixture and place the dill on top.
4. Wrap the plastic wrap tightly around the fish and dill. Take a second sheet of plastic wrap and wrap again.
5. Place the salmon in a container (important, as the salt will draw the liquid out of the fillet,) and refrigerate the salmon for at least two days.
6. Unwrap the salmon, discard the dill, rinse under water to clean of the spice mixture and dry with a piece of paper towel.

"Who else will ever compare thermal diffusivity and reactivity of copper, cast iron, and stainless steel?"

Warriors Football: The Event That Tried



JOHN OLAVESON
3B CIVIL

I went to the home opener of the Waterloo Warriors. The game was a part of WLU's homecoming, so the stands were overflowing with Golden Hawk fans. When I arrived at the stadium, I made my way over to the Warriors section. Sadly, the only way to identify the Warriors section from the rest of the crowd was to look for the cheerleaders. Only about 50 Warriors fans were in attendance, and that includes the cheerleaders.

Now I know Waterloo is not an athletically-oriented school, but that kind of display is quite abysmal. The stands were nearly full of enthusiastic Laurier fans, most dressed in the purple and gold of the Golden Hawks. Of the Warriors fans, two of them were dressed in black and gold. I will give those two credit; they showed great spirit during the whole first half. I think the halftime score, 41-3 for the Golden Hawks, scared them. One said, "I think something died inside me 30 points ago," before he left the bleachers.

After halftime, I was one of a handful of Warriors fans left. I guess the others had better things to do on a Saturday afternoon. The game did get better after the half. The Warriors allowed fewer turnovers and completed more passes. They only scored a single point on the half, however. The final score was somewhere around 48-4.

The question I was asking myself was, "where are all the Warriors?" Well, it was 500 days til IRS for my class, maybe some of the regular fans were over at Unit 36. But my class represents a small portion of the total student body of the uni-

versity. I'm sure not all of them had a party that afternoon.

Adding to my puzzlement was the fact that tickets are provided freely to all Waterloo students. When I went to get my ticket from the PAC, the woman at the desk didn't even ask me for my WatCard. She gave my companions and I as many tickets as we asked for. What's a better price than free?

I got to thinking. Do the Warriors lose because they have no one to play for, no one to cheer them on? Or does no one go because they lose anyway? I will tip my hat to the Waterloo cheerleaders. They won the cheer-off against the Golden Hawk squad and maintained their enthusiasm and energy through the whole game.

"Only about 50 Warriors fans were in attendance, and that included the cheerleaders"



Sandford Fleming Foundation
E2 3336, ext 4008, sff@engmail
www.eng.uwaterloo.ca/~sff

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	October 31, Nov. 1 and Nov. 2	Finals: Friday, November 4
TIME	11:30 - 1:00	Noon
PLACE	E2 - 3324 (except Nov. 1 is in DWE 2534)	Outside POETS

Refreshments will be served at the finals

Everyone is welcome

Student Travel Grants - Available to students participating in technical conferences. Please check our web site for further information and application forms.

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

ARTS CORNER

Melting Hearts

RAHUL N. BHARDWAJ
4A ELECTRICAL

There is no substitute for the one you love,
There will never be a rose with her name,
Never a pearl of her white,
Never a darkness of her night,
Her hair is a world of its own...
Starved for its touch... I am all alone

You don't know what it's like,
To stare at the falling snow,
In the middle of the night,
To grace the touch of that empty pillow

Flakes of snow that rest so soft,
Sweetly, oh so sweetly gliding on top,
Memories of you dressed in gentle white,
My love, how I wish you were here with me, tonight

And in the morning Sun,
The snow that melts is but water,
And although the rays make a graceful run,
Without her, it doesn't matter... it doesn't matter

The coming of the morning mist,
A shadow moves across the floor,
To feel what's been missed,
I want to hold you, but you're not there anymore

All those memories, all those thoughts,
You say you don't remember,
But I have never forgot

There is a voice of the birds that sing,
And that leaf which dances on the grass,
Running blind I scramble within,
My time has come but her love has passed

And of the early spring,
Everything that has ended has begun to start,
The dripping water that is now a stream,
Is the blood that flows through my melting heart

And there will never be a rose with her name,
Those eyes, of the summer's light,
Blinding with her beauty,
she leads me into the night...
she leads me into the night...

Editorial Haikus

Do You Have
Something to
Contribute?

Drop off your poetry, cartoons,
drawings, photos and anything else
artistic in the "Arts" box
in the Orifice, or email them to
iwarrior@engmail.uwaterloo.ca

Submissions may be published
here in The Iron Warrior, and
earn you valuable P**5 points
for your class!

dead sparrow, feet up
on the steps to CPH
falling midterm grades

thanksgiving weekend
red leaves of my anger, no-
one to help edit

dry sky, sharp sunset
the last time I'll see this lake
free and unfrozen

James in Switzerland
wouldn't have put up with this
shameful waste of space

Iron Warrior ProfQuotes

"I have no doubt that many of you will successfully avoid differential equations in your future career."
-Potapenko, ENVE 223

"Keep this in mind for your quizzes, and for your final exam, if you survive until that."
-Potapenko, ENVE 223

"If it's daytime, I want to see daylight. If I don't see daylight when it's daytime, it's not good."
-Potapenko, ENVE 223

"When I was a student, I liked to be in a room with windows. Except when I was writing an exam. If I was in a room with windows, and it was nice outside, I would look out and think 'Why am I writing this crap?' But if the room had no windows, I thought 'Maybe I could die in here!'"
-Potapenko, ENVE 223

Student: "When is the quiz?"
Professor: "On Tuesday. But it will be easy, so you do not have to prepare to die... not yet."
-Potapenko, ENVE 223

"As you can see, we have perverted this equation."
-Potapenko, ENVE 223

"If none of these methods work, what can you do? Hang yourself?"
-Potapenko, ENVE 223

(Writes "Each Different" next to three different methods)
"You guys will write down anything I put on the overhead!"
-Jenkinson, ENVE 214

(Referring to diagram)
"It's like looking at something so grotesque that you just have to marvel at it."
-Jenkinson, ENVE 214

(Hears obvious bird call ring tone)
"Is that a horse?"
-Jenkinson, ENVE 214

"If you're an engineer designing something, you don't want to use weird unknown shapes. If you're an architect, that's allowed."
-Jenkinson, ENVE 214

"If your surface doesn't come in contact with the water surface, don't worry, everything's going to be okay."
-Jenkinson, ENVE 214

"With Freud, everything becomes a phallic symbol, but in a horrible way! It's not a nice phallic symbol."
-McCormack, ENGL 105A

(Referring to final exam)
"Bring your notes, bring your books, bring your grandmother, I don't care!"
-McCormack, ENGL 105A

**Got a quotable professor? Send any and all ProfQuotes to The Iron Warrior-
iwarrior@engmail.uwaterloo.ca- and look for them in future issues!**

GAIMAN- Continued from page 7.

The evening started with a short film, showing various interviews with Neil and giving a summary of his recent works. The event was being partly run by the television network SPACE, so I suspected they must have had a hand in it. Then, after much introduction, Neil came out from backstage (or whatever passes for 'backstage' at a

church) to read a bit of "Anansi Boys".

It was like story-time back in grade school. It's not often that university students get read to, and when they do, it's usually something dry as part of a class. But what he read of "Anansi Boys" seemed to be as strange and amusing as a children's book written by Monty Python.

Neil was then interviewed by writer Nalo Hopkinson, and proceeded to answer a few questions asked by audience members. Some of them were rather inane

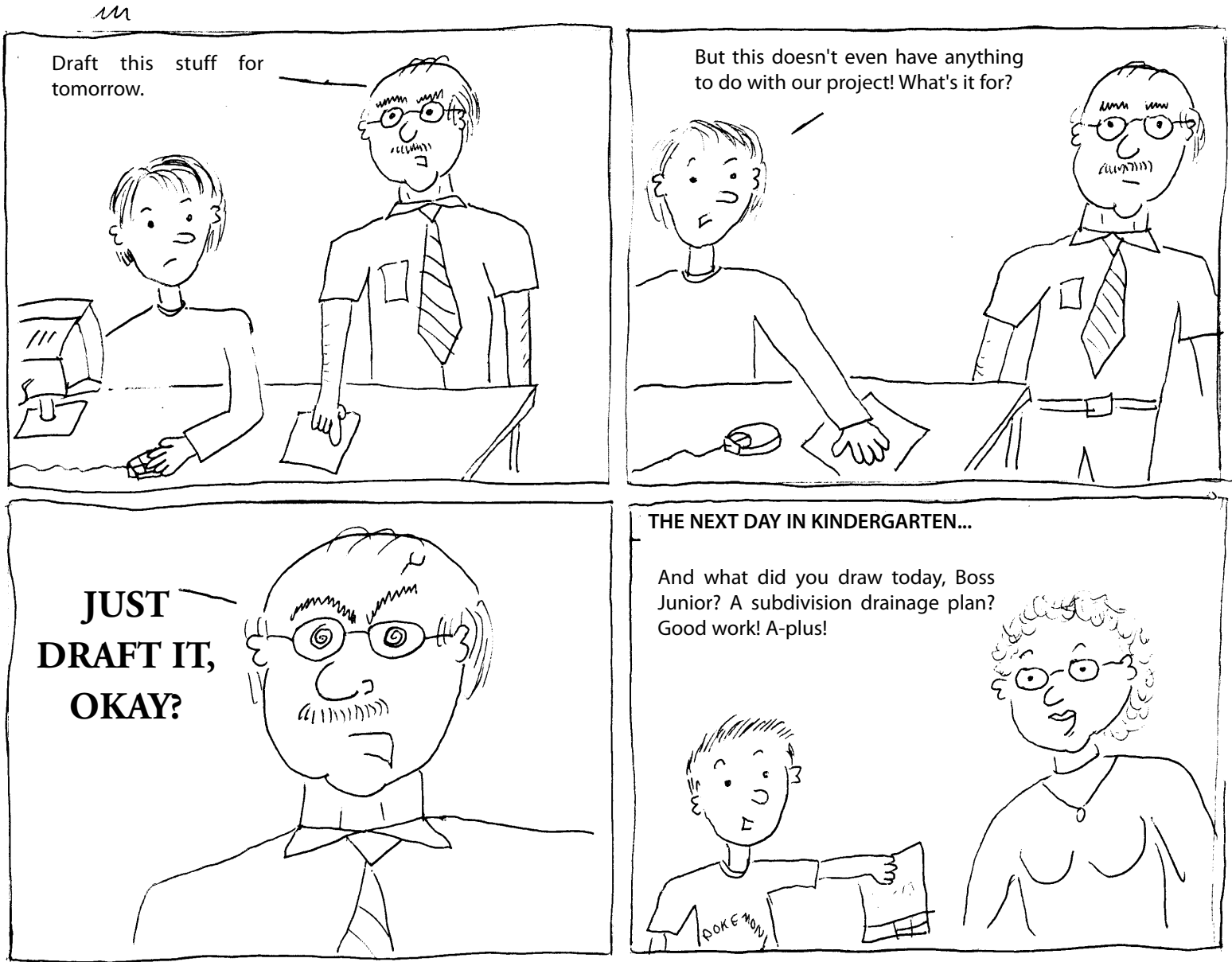
("How do you like the weather to be?" "Do you like pirates?") but he answered them with patience and humour.

The book-signing began. Everyone was allowed to get unlimited copies of "Anansi Boys" signed, but only two other items. (Breasts counted as one item- 'Neil' on one and 'Gaiman' on the other). Even so, Neil could sign approximately 100 books an hour, and there were 700 people. Fortunately, I was one of the first in line and managed to escape after less than an

hour.

Authors may seem like abstract figures to their readers- Gaiman himself likened them to 'Unicorns'- but they can be very real and generous individuals, willing to put in the time to meet with their fans and maybe sign a book or two. It's a good way to build a following and a good way to sell books. Neil Gaiman is a great storyteller, but I can't help but think that some of his success comes from his willingness to sign seven hundred books a night for his fans.

Tales From Work Term



the Iron Inquisition

Philip Newman, 2B Systems Design

What is your worst Co-op experience?



"Cleaning molten aluminium out of a huge ceramic bucket."

- Ian Mackenzie, 4A Systems



"Absolutely nothing."

- Angela Maclean, 3N Environmental



"Being shot in the ball by my secretary with a paintball gun."

- Justin Eichkel, 2A Systems



"That one time in the bathroom."

- Ken Hanes, 4A Environmental



"Not getting any interviews."

- Nikhil Ninan, 1A Electrical



"Sitting on a distillation tower in a snow storm for 6 hours."

- Stephen Strikwerda, 4A Chemical



"Diggin' ditches."

- Robert Lam, 3A Chemical



"Getting fired before my first day."

- Wendy Chen, 2B Systems