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the IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

volume 24 issue 8 | 4 July 2003



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Middle of Term Bonanza



Jason Griese

4A Computer

The midterms were handed in, the beer was cold, and the weather was gorgeous. It could only mean one thing: it was MOT time again.

On Friday, June 20 POETS was packed by engineering students looking to blow off some midterm stress with a little socializing. Goaded by the beautiful weather, and the relocation of the foosball table, many patrons took advantage of the

patio. Others remained inside to enjoy the soothing tones of Sofa and the Loveseats.

Sofa and the Loveseats, joined at times by some of their friends, once again displayed their musical prowess. Starting with a cover of Survivor's "Eye of the Tiger", they kept the crowd pleased throughout the night. As an encore, they played an unrehearsed cover of "Crazy Train" by Ozzy Osbourne, demonstrating once again their amazing talent.

Other highlights included an appearance by the TOOL, who toured the crowd before settling in to listen to the band play a set. As well the P**5 banner featuring the midterm standings was unveiled.

EOT is Friday July 25 from 9:00 pm onwards. See you there!



Fun with Civils



4A Comps up to no good



Rock On!!!

Dean Chaudhuri Recognized by Students



Leanne Whiteley

President

A reception was held for Dean Chaudhuri on Thursday, June 26th. Many people were invited to talk at the reception, including Amit Chakma (VP Academic & Provost) and Bill Lennox (former Dean). I was asked to say a few words on behalf of the students. Since, only a small portion of students were invited to attend the reception, I thought that I would publish my speech for all to see.

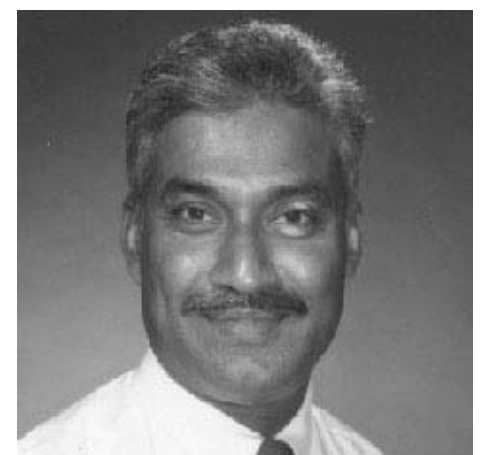
"There are many things that I can say about the Dean, but like everyone else, I have been asked to keep it short. My first Dean Chaudhuri sighting was back in the spring of 1999 at a presentation for potential UW students. It was obvious that the man standing at the front of the room was a very proud engineer with a lot of school spirit. The next time I saw Sujeet was dur-

ing my Frosh Week. That is the first time that most students get to see the Dean. I have seen quite a few of those presentations now and I can say that every time, Sujeet has something inspirational to say. He lets the students know that the road ahead is difficult, but that UW Engineering accepts only the best and that's why they are here. I also had the fortune of having Dean Chaudhuri teach me a circuits course in 1st year. Our class really thought that we were in trouble because it was the Dean teaching. Well, the class average on the midterm was slightly above 50%, but at least we did better than the Mech Class, who had a failing class average. In the end, almost all of the class passed, I think. During one of our lectures that winter term, we had a visit from about 50-100 4th Year Students. These 4th years walked in dressed in outrageous clothes. I thought for sure that the Dean would be angry at them. Instead, he invited them in, had his picture taken with the class and then kindly asked them to leave so that he could continue his lecture. I thought that showed a lot of class on Sujeet's part and as a first-

year student sitting in that classroom, I was very impressed. The next time that I really met with Sujeet was when I became the President of the Engineering Society. Again, I was impressed that he remembered my name and recognized me from the course that he had taught me nearly 3 years earlier. And although he never could keep track of the difference between ASoc and BSoc, he was very much respected by the members of both societies. He has always been willing to provide us with a conference budget and very willing to help us financially with new initiatives, like the Engineering Society Plays, which is now an event that happens every term. All-in-all, I can sum up the last 4-1/2 years with Sujeet by saying that he has been an inspiration to many students that have passed through the halls of UW Engineering. Lastly, on behalf of the Engineering Society (both A and B), I wish Sujeet the best of luck in his future endeavours."

From the other speakers, Dean Chaudhuri was commended for his focus and commitment to quality throughout his entire term as Dean of Engineering. He

was presented with a portrait of the CPH building where his office is located. Sujeet's response to the speeches was to deny all the good things that the presenters said about him and claim that he has been able to fool everyone for 5 years. He indicated that he was very touched by what the presenters had said about him. He also thanked everyone for coming to the reception and for supporting him through his 5-year term as Dean.



Outgoing Dean of Engineering Sujeet Chaudhuri

"The artist is nothing without the gift, but the gift is nothing without work." - Emile Zola

Letter From the Editor

The Magic Letter

Jonathan Fishbein

2B Software

Editor-in-Chief



All right everyone, I'll be honest. The headline of this article really has nothing to do with its content. But truthfully, that's no reason to stop reading. I mean honestly, this isn't mathNEWS!

Well the Canada Day long-weekend has come and gone and, if you were anything like me this past weekend, you decided to forgo the beautiful weather and focus on your studies. After all, midterms have just ended, for me at least, and I have many assignments to catch up on. If you were so unlucky to have to work in one of our many engineering labs in the University this weekend, you probably noticed that you were not alone. It seems like the majority of engineering students devoted this federally mandated long weekend to their studies and not themselves.

Now, don't get me wrong, you need to spend time on your studies if you want to succeed at university. This is something every engineering student is aware of or else he/she probably would not be an engineering student anymore. What I find a little odd about our devotion to school work over the long weekend is not the fact that it occurred, but rather the fact that we, as engineering student, feel it is a necessity.

For the majority of us midterms have just ended, we've given our all to the first half of the term and yet we still have so much work that we can't even use our long-weekend to catch our breath and smell the flowers. Now, I'm no doctor, but this doesn't seem healthy. I think everyone will agree with me that schoolwork brings stress to people's lives. In fact, they're proportional. The more work we receive the more stressed-out we get. Even if you're the most calm stress-free person regularly, when you have three major assignments due in the next two weeks it's hard not to panic a little.

Stress is definitely not healthy. It causes heart attacks, causes mild depression, and generally makes the person affected a rather unpleasant person to be around. In fact, many employers are actively trying to combat stress in their employees. Studies

have shown that stressed out employees tend to work less efficiently than their relaxed, calm counterparts. Today, it is hard to find a job with an engineering job with an equivalent amount of stress that we receive at university. In my co-op jobs, I've worked as hard as full-time employee, if not harder, and have only reached half the level of stress that I get at university. So this heavy stress level makes us work less effectively and has no real similar experience in the real world. Why do we need all this stress then?

To our credit, very few engineering students crack under the pressure. A lot of us have learned to time manage and cut unimportant time wasters out of our academic lives – like anything non-school related. This allows us to deal with our stress, but it doesn't diminish it.

If you do however feel that the engineering workload is too much to bear, the faculty will be very quick to point you to counselling services. Now I'm not knocking counselling services here. They provide a necessary and vital service on campus, and do it exceptionally well. Ask yourself one question though, is handling schoolwork something that we should really be seeking counselling for? Does the fault lie in our inability to handle this heavy workload or does it lie in the faculty for burdening us with this load?

I'm not one to shy away from hard work. Everyone should put in a little elbow grease now and then, especially to something as important as a university education. I take exception with the prolonged stress. It seems that as soon as we finish one major task, there is no time to settle down. We have to jump right into the next task because its due-date is fast approaching. As midterms have just ended, we're about to experience the lowest point in the term. This is non-other than what I like to call the post-midterm burnout fest. Now we all have our horror stories about ourselves during this time. If any of you saw me last term during this time, I was battling a weeklong bout with depression. Face it, we burn out. There's nothing we can do about it, and the best part is the work keeps coming.

We're generally uptight. We need sometime to relax, and after midterm is a good of time as any to calm down and gear up for the second half of the term. "How can we battle this post-midterm burnout fest?" you may ask.

We can solve this problem with pipelining. Not the microprocessor pipelining EC&E students are familiar with, but assignment pipelining. This concept is actually pretty simple. We just ask the faculty to not schedule assignment due dates during midterms as well as the week immediately following midterms. This solution will not only let us focus exclusively on studying for midterms during midterm weeks, but also give us time to de-stress after midterms. Assignment pipelining really wouldn't be that hard to implement with a little bit of creative scheduling. Each department could sit down with their classes' academic representatives and the classes' professors and hammer out a schedule that would benefit everyone.

Stress is definitely an undesirable entity. It wreaks havoc on our physical and emotional health. It causes us to do worse in our studies. As well, coping with the level of stress we receive at University has no real equivalent in the working world. We need to make sure that stress does not cause us to burn out halfway through the term. With better scheduling throughout the term we should be able to limit stress's destruction on your average engineering student. A less stressed engineering student is a benefit to everyone. By giving us a week of no deadlines after midterms, a week where we can relax and prepare ourselves for the second half of the term, we will not only do better in our studies in the rest of the term but be much more sociable and happy people.



Happy Canada Day!!!

Questions? Comments?
We welcome letters and feedback from all our readers. Please email us at:
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the IRON WARRIOR

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LowRider

3A Chemical

Dear LowRider: uw_LowRider@hotmail.com

Special Collectors Edition!!

"A Good, Good Column" - Dean Chaudhuri

Dear LowReaders,

This week's first submission is from The Dean of Engineering. Read that again. THE Dean. The DEAN. My Dean, your Dean, our Dean. Actually, I took the liberty of converting some of his conversation with Jeff and Jon into the standard form. See page 8 for more of The Dean.

Dear LowRider,

I love LowRider! I would like to ask: How the heck do we get the provincial government to understand the long-term needs of society as seen through a good post-secondary education system? I have to get a good answer. One more thing, are the questions planted, or are they really asked?

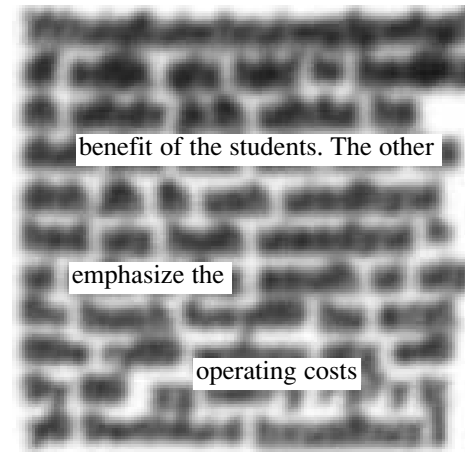
-Dean Chaudhuri

Dear Dean Chaudhuri,

Yikes. The first solution that came to mind was that we should get those new mechatronics engineers to make a robot version of Ernie Eves and then switch them! This isn't very realistic because those kids won't be starting until the fall. But since nobody really knows what Systems does, maybe we could make them work on this instead. We could send a bill to the premier, and threaten to withhold his transcript if he doesn't pay! That'll work for sure.

All joking aside, this is a dilemma that has a profound bearing on each and every one of us, and even LowRider can respect that. The recent trend of decreasing gov-

ernment funding has resulted in higher tuitions and an increased dependence on outside subsidies. To resolve this situation, post-secondary institutions will have to



budget, thus resulting in greater synergy between the provincial government and post-secondary institutions. As far as I can see, that's the only way to turn things around before it's too late. Hope that helps.

-LR

PS: The questions are all really, truly, genuinely, actually asked. Promise.

Dear LowRider,

I have to TA the course about circuits this summer. It's a pretty bad scene because they're Chemmies who don't know jack about circuits and I did my undergrad at Ryerson. Anyway, long story short: I accidentally made a ton of kids fail the midterm because they thought "R" was the universal gas constant instead of resistance. How do I make that up to them? Also, can I borrow your notes from that

class?

-Useless TA

Dear Useless,

The only way to make it up to those students is to cancel the next tutorial and buy them drinks at the Bomber. Scratch that, it's still not open. Ok. You need to enroll in ChE 102 and give them each a copy of your pitiful attempt at the final. Or give them money. Or buy them drinks at the Bomber... Crap! Go with the money.

Actually, I didn't take notes in that class. One time I showed up and the professor gave us a handout. So I burninated it. I'm trying that course for the fourth time next term, and I'll be sure to remember your helpful hint about "R".

-LR

Dear Low Rider,

I have a huge dilemma this semester. I am currently dating an engineering girl from an opposite stream and I don't get to see her very often. I was wondering if you have any advice as to what I could do to decrease my boredom while she is away and to maximize my time with her when she is around.

-Deprived and Frustrated

Dear D&F,

If you're bored you should talk to different girls, go cruising for hot babes, look for back-issues of LowRider or chat up some fine ladies. Avoid loser activities

such as not hanging around with different girls, reading ahead in your courses, volunteering for stuff and - most importantly - not hanging around with different girls.

As for maximizing your time, I think there was maximizing stuff back in that first calculus course. You know the one. Something about derivatives. Get a froshie to help you out with that one. A more practical way to get the most out of your time is to stop doing wasteful things. For instance, when she's here stay up late together drinking lots of coffee, don't do homework or talk on the phone at all, save pages 1,2 and 4 to 12 of the IW for reading later in the week and don't waste time showering (apart). But be sure to introduce her to those other girls so that she gets jealous.

-LR

Dere LowRider,

Hay! I reli like redeng you're artkles aned nevar misan. Ishew. Then I wantad to get you're add vise abute my "Work Report". But the papor stapeled withe the kover and the proffesserre rite "Resubmit"? You's eem like good riting skiles with artkles but so if you dont mined cood you taken a teke look at the it.

-Chris

Dear Chris,

Your letter requires re-submission by "Final Examinations Begin" date for this term otherwise a mark of 38% will be assigned. Sorry.

-LR

Cooking With Chow: Knives

Chow Lin
3A Computer

ChuckyRastaFlava's chopping up some garlic for a stir-fry he's making. All of a sudden, his knife, being dull, slips off the surface of the garlic, slicing his thumb. ChuckyRastaFlava's friggin' hardcore, so he keeps chopping, "I'll bandage that up next week."

Next comes deboning the chicken breast. While this is a simple task, ChuckyRastaFlava's crappy, thin, wobbly knife keep jumping all over the place; that is, until ChuckyRastaFlava's knife snaps in half and lodges itself in his arm! Being friggin' hardcore, ChuckyRastaFlava keeps preparing dinner.

ChuckyRastaFlava's now slicing a tomato with another crappy, thin, wobbly, non-serrated-edged knife. The blade slips off the tomato skin and cuts off ChuckyRastaFlava's hand!! Oh no! Now ChuckyRastaFlava only has one hand!

This is a rough situation. If you don't want to have a knife blade stuck in your arm, have one hand cut off, and generally look like you've just fought a war, you need knife-smarts from the blademonkey. Thus, I present to you, transcript of an interview with the blademonkey by our endeavouing field reporter Chow.

CHOW: Thanks to you for joining us today. I understand you are expert on knives.

BladeMonkey: Yes, sir.

CHOW: Now, it seem that

ChewRaterFlow case is very strange. I use knives and I don't cut hands off. Is there clear advantage to using expensive knives?

BladeMonkey: It's weird to say expensive knives ... but ... Using high quality knives makes work in the kitchen more enjoyable and less work for you because they're built a lot better. Because they're built better, they won't be wobbly or rusty or dull on you. Also, the balance feels better.

SAFETY TIP #1 - A SHARP KNIFE IS A SAFE KNIFE. A sharp knife can easily slice through the resistance proffered by meats and vegetable skins; this, in turn, means that less force is applied by the operator, and less force results in a higher degree of precision and a lower probability of cutting your hand off. Also, dull knives are prone to slipping on certain surfaces.

If an accident does occur, a sharp knife is better: cuts caused by very sharp objects hurt less and heal faster than cuts made by dull objects. This is one reason why surgical knives are kept insanely sharp.

CHOW: Ha ha! Well, nothing more attractive to women than man who shaves himself with meat cleaver. Except, maybe you who not-dumbass.

CHOW: What are main difference between good knife and bad knife?

BladeMonkey: Bad knives are typically made of just stainless steel. Stainless steel is a softer metal and it's ... it makes the knife very wobbly and may cause the blade to bend while carving a roast... And because stainless is softer the knife will

dull faster. This is obviously not as safe because you're going to be slipping while you're cutting.

A lot of the better knives use a combination of carbon and stainless steel. This makes the steel harder and more durable, making the edge retention better. And the fact that it's stainless makes it not rust as quickly. Some older knives are made of just carbon, and they rust quite easily, and you don't want that in your food.

The main things you want to look for in a good knife is a blade that extends the full length of the handle; with a full tang knife, you get better weight in the handle and better balance. Also, there's less of a chance of the handle breaking off on you.

Second, you want to get high carbon stainless steel. As well, you want to look for a forged blade or a high quality rolled-steel blade; as well, rivets that are not made of brass are better. Non-wood handles, due to sanitary reasons, are preferable.

SAFETY TIP #2 - DON'T CUT YOUR FINGERS OFF. When holding the object you wish to dice, slice, or splice do it thusly: Curl your fingers under your hand and on top of the item you are cutting. Place the knife against your knuckles and move the knife up and down, never allowing the tip to leave the cutting board surface. With practice, you can get really fast at this and look like you know what you're doing.

When chopping, keep your free hand resting on the tip of the knife and allow the base of the knife to do the majority of the

work. This gives you extra stability and speed.

CHOW: Which companies make really excellent knives and what are prices?

BladeMonkey: As far as really good brands of knives, you have Henkels, Wuhstof, Cutco, Sabatier, Globals. For a single knife, you're looking at about \$50 to \$150 dollars Canadian, depending on the size and type of the knife. For a full set, say a ten piece, expect to pay \$700 to \$1200. You may think this is expensive, but when looking at it as an investment, it makes sense to spend the money once instead of replacing low-quality knives over a lifetime.

SAFETY TIP #3 - USE FULL-TANG KNIVES. The tang is the piece of metal that connects the blade to the handle. A pin-tang is where the metal that goes into the handle is just a little pin of metal; after a while, these come loose and you lose a certain degree of control. A full tang is where metal from the blade extends right through the handle (you can usually see the tang); these knives are better from a stability and safety point of view.

CHOW: Well, blademonkey, thank again for joining us for Cooking with Chow.

And, there you have it, no matter what your requirements: cooking, shaving, or armed insurrection, it always pays to have a good set of knives. However, if you say to me, "Muh meals is reburnt mac'n' cheese, canne soup, and grilled cheese!" I say, "Power to you, Engineering student! Invest in a good can opener!"

ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Announcements

Leanne Whiteley



President

The Engineering Society Exec had a meeting a few weeks back with Sujcet Chaudhuri, Adel Sedra, and Sue Gooding, who are the outgoing Dean, incoming Dean, and the Dean's Assistant. Dean Chaudhuri's last day is Friday, June 27th and Dean Sedra's first day will be July 2nd. Included in this issue is an interview with Dean Chaudhuri discussing his term as Dean of Engineering. I look forward to working with Dean Sedra in the months to come. The reason I say in the months and

not years to come is because I will only be in office for another couple of months. Yes, this is an election term, and seeing as I only have one term left, I can't run for President; therefore, someone will be replacing me at the end of the term. I will talk more about that in my coming prez reports, but I would like to encourage everyone to come to the All-Candidates forum on July 8th in CPH Foyer. Most importantly, come out and vote on July 9th in CPH Foyer. We have had some pretty close races in the past, which have proven that every vote counts, especially yours! On that note, I would like to wish all the candidates good luck! If you have any questions/comments/concerns, you can reach me via email at asoc_prez@engmail.uwaterloo.ca. Remember to VOTE on Wednesday!!

What's Going On

Ryan Walker



VP Internal

There are several exciting things happening in the near future. Now that midterms are over and finals are not for a few weeks, we can once again enjoy some free time. What better way to forget about your midterms than to come to a pig roast with a bunch of your friends! The semi-formal directors this term have decided to hold a luau and roast a pig. July 5th at the grad house will be a Saturday to remember. Get your tickets now from the orifice or CPH foyer during your lunch. Dinner tickets are \$20 and dance only tickets are \$10. Everyone who comes will get a free lei.

The annual joint council meeting between both Asoc and Bsoc will be held on Sunday July 6th.

This term there is an engsoc exec election and July 9th is voting day. Take a few minutes to read the election section in this paper and be sure to come vote in CPH foyer before 4:30 pm or the basement of RCH during lunch on Wednesday July 9th.

Sunday the 13th is wheelchair basketball. This is an excellent charity event that helps out participation house. Get your friends together and for a team, then go to the orifice and pick up a pledge form. If you are not going to play make sure you find some one who is and sponsor them what ever pocket change you have on you. Every little bit helps and what were you going to do with that 27 cent anyhow?

Come show off your talent or lack thereof on Wednesday July 16th. Tal-Eng is always a good time and there are prizes to be won. This term Tal-Eng will be held at Louie's since Bomber is still closed. It will be a blast.

The Engineering Play will be performed on Friday the 18th and Saturday the 19th. Look for tickets to go on sale soon.

External Events

Jeff Henry



VP External

When this issue makes it to print: Canada Day will have happened; the Charities Directors will wrap up the United Way coin drive; and Women in Engineering will have started planning the term's "this is a licensed event" reception. In other words, with my term as VP External winding down, all of my directors will have basically wrapped up their tasks - whether they be entertaining the local children in engineering Olympics, settling in for a night of chick flicks, or raising money for a good cause.

Looking towards the future, we now have a new Dean of Engineering in the person of Adel Sedra. I have a feeling that, if we were so inclined, he would fully fund a "Circuits Eng" as long as we based the events on the chapters of his textbook. While the whole "ASoc" and "BSoc"

thing will be a challenging concept, ex-Dean Chaudhuri never seemed to mind guessing incorrectly.

We have also lost a valued ally in the Dean's office to Needles Hall. Martha Foulds, the outgoing alumni officer for the Faculty of Engineering, has been a strong supporter of students both current and past. As we begin to forge new and stronger ties with our alumni through the new Engineering Society Alumni Officer position, her enthusiasm and dedication will be missed.

On the bright side, however, her new position in central administration deals with advising students on available bursary and scholarship funding. Perhaps, after the learning curve saturates somewhat, venturing to the former home of CECS won't be quite so needless.

I encourage all of you to get informed about your Engineering Society Executive candidates featured in this issue. While I do believe all of you should take the time to vote for the people who represent you to the Faculty and beyond, it is always better if you know something about the name beside the box you're putting the "X" in.

WEEF Proposals (are good!)

Mike Henheffer



WEEF Assistant Director

Due to scheduling conflicts, WEEF has had to delay its meetings by about a week. The new schedule for the presentation meetings and funding council meeting is given below:

Presentation Meeting #1:

July 9th, 2003 - 5:30pm to 7:00pm
(RCH - 302)

Presentation Meeting #2:

July 10th, 2003 - 5:30pm to 7:00pm
(RCH - 302)

*IF NECESSARY

Funding Council Meeting:

July 16th, 2003 - 5:30pm to 7:00pm
(RCH - 302)

Each class should make sure that they have a WEEF representative elected to attend each of these meetings and represent their class on the funding council. The presentation meetings are open to anyone. So feel free to attend if you would like to see where WEEF's money can go.

Speaking of which, we have allocated \$35 000 for spending this term. The last date to submit a proposal for this money is July 4 (today, if you are reading this on its release date) so you better hurry and get your proposal in.

This is a quick notice for all graduating engineering students. There will be an article in the next issue of the Iron Warrior outlining some of the preliminary details of the "Plummer's Pledge", so please keep your eyes open for it.

Finals are Coming!

Laura Mooney



VP Education

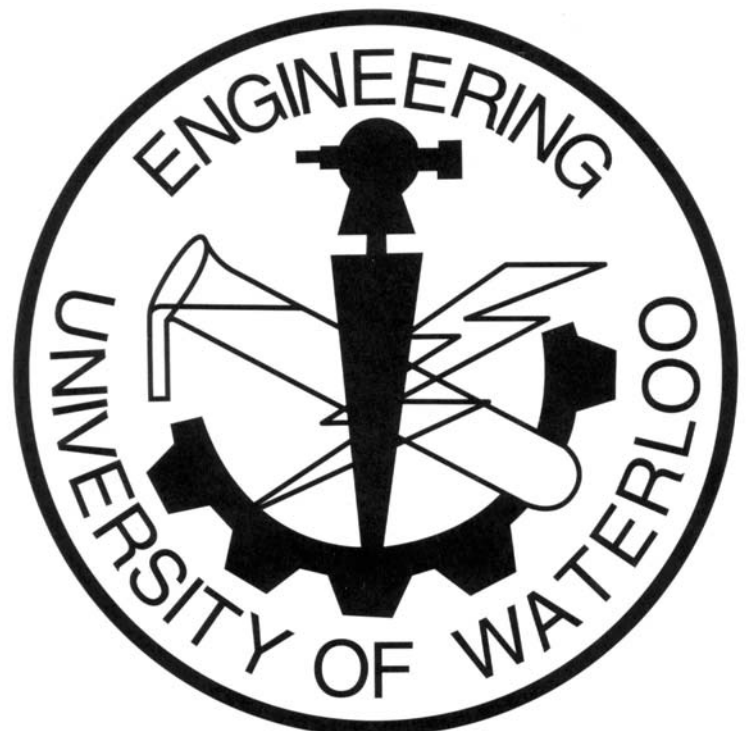
So, middle of term has come and gone. What does this mean from a VP Education standpoint? It's almost time for exams and course critiques. Also, Habitat for Humanity is well underway ... but more on that later.

For exams, I hope you're all getting ready and prepared. I know, I know ... it's still early! I promise, exams are just around the corner and there's no time like the present to prepare. EngSoc has a number of past exams available in both the physical and online exam banks (online bank available at <http://www.engsoc.uwaterloo.ca/www/exambank/>). To get access to the copies stored in the exam bank in the Orifice, just bring your WatCard with you and you'll have access to the courses you need. Also, the co-op building is making their interview rooms available for studying - if you're interested, all you have to do is go to the information desk to sign out the room during their hours of operation.

As for course critiques, you should be receiving information shortly from your Academic Reps on when they will take place. If you are interested in helping with stuffing envelopes (a.k.a. free food for a minimal amount of effort) or screening critiques (a.k.a. free food and an evening of entertainment), please email the course critique directors - Graeme Baer and Raquel Lopez at gdbaer@engmail.uwaterloo.ca or mcrlopez@engmail.uwaterloo.ca respectively. Course critiques are important as professors are ranked and have their pay adjusted based partially on these critiques. As such, please be honest in your critiques, and if you can spare an hour or two to help with the preparations, it would be much appreciated.

Finally, the Vim Street Habitat for Humanity project is currently underway, with more than 80 students participating in the build. This is a truly exciting opportunity for UW Engineering in that many different students are able to participate in a project that directly helps the community while using engineering skills. If you are interested in being involved in future builds run with the help of EngSoc, please e-mail me at asoc_vededu@engmail.uwaterloo.ca.

Anyway, I hope you're having a great term! Don't forget to enjoy the summer!



ENGINEERING SOCIETY EXECUTIVE REPORTS

Budget Finalized

Kristen Farn

VP Finance



Donation proposals were presented to council who voted to allocate the \$1500: EWB \$250; SEDS \$100; CSC \$70; CUBE \$150; GNCTR 2004 \$350; EngFOC \$330; GradComm 2004 \$250.

The Spring 2003 budget was also approved by council and is included in this IW issue. The spring term traditionally has a tight budget because of the lower enrolment numbers. However, reserved funds from the other terms and generated revenue will offset the budgeted deficit. If you have any questions or concerns regarding the budget, please contact me.

FEDS Councillor Report

Lawrence Lam

Engineering FEDS Councillor



On Tuesday June 10, the Students for Palestinian Rights, The Noam Chomsky Fan Club, the Muslim Students' Association, and the Arab Students' Association hosted a lecture entitled "Israel-Palestine: Roots of Conflict, Prospects for Peace". The lecture was given by Norman Finkelstein, a controversial author of books such as "The Holocaust Industry" and "Image and Reality of the Israel-Palestine Conflict". Finkelstein is known to be quite outspoken in favour of Palestine and against Israel. He is often referenced by Holocaust revisionists and anti-semites and, justifiably, his presence at UW raised many concerns, especially from the Jewish community.

Also worrying to many students was the fact that the Internal Funding Committee (IFC) awarded five hundred dollars from the Special Projects Fund to aid in the cost of the lecture. A motion was introduced at the last FEDS Council meeting by Engineering Councillor Peter Mensinga to revoke the IFC funding. A lively debate over the motion took place with many speakers from the JSA voicing their support for the motion. For the record, this motion was defeated and aside from Mensinga, the other Engineering councillors, myself included, voted against the motion. I feel it is obligatory to explain to you why I voted the way I did.

First of all, I don't know much about Finkelstein. Without any information sent to me prior to the meeting, it would be difficult to make a case against him by word of mouth. Members of the JSA tried and spoke in support of revoking funding for the talk because of "hateful" language that

Finkelstein used. They read excerpts from his writings which did in fact sound quite extreme. But perhaps those few phrases were taken out of context. A question was put to the JSA if the Finkelstein had ever been charged with a Hate Crime. That would be pretty good grounds for the move since it would be unconscionable for FEDS to sponsor a convicted hater to speak on campus. But Finkelstein was never convicted with such a hate crime. I do not think he has ever been charged with one either, although he is cited often by convicted anti-semites and holocaust revisionists. It is quite possible that the excerpts taken from his book come from parts where the author used hyperbolic language to make a point. At the time of the meeting, I did not have enough information to vote for a revocation of funding. As far as council was concerned, there was no reason to believe that the IFC acted improperly and so the lecture continued with the funding intact.

The funding did, however, come with strings attached. One of those strings was that a moderator would be appointed to

conduct the question and answer session. Finkelstein rejected the moderator, hence the condition for funding was not met. The IFC met and clarified that when the moderator was rejected, so was the FEDS funding.

The revocation was not because of Finkelstein's behaviour. Finkelstein was a complete jerk at the talk and said a lot of nasty things about people. Whether or not his talk was "hateful" is still being debated but from my point of view, he was mean but not hateful. It is not against the law to be an ass. Strong language tends to surface during any emotional debate, whether it be Dr. Jan Narveson's child-like pouty behaviour in last Fall's abortion debate or Finkelstein's misanthropic namecalling. Had the condition that the appointed moderator not been part of the funding agreement, the funding would not have been revoked. It is fully within the spirit of an academic institution to bring different points of views together and stimulate debate and discussion on any subject from the most mundane to the most controversial. Insofar as we have these academic

institutions and the right to have respectful dialogue, the FEDS will be there to sponsor intellectual growth in the student community. I want to make clear that the decision to fund the talk was not the result of a desire to single out certain segments of the campus unfairly nor was the decision to revoke the funds a cave in to pressure by "special interest groups".

Since the IFC decision I have been in touch with many students to discuss to issue. The decision of the IFC is certainly not final. It is difficult for any student organization to have funding taken away from them because of things out of their control. Apparently the moderator was not rejected by Finkelstein but conditions imposed by the moderator which were unreasonable. At the slightest disagreement the moderator seemed to have taken off despite the MSA's pleas for him to return and moderate. Should this automatically lead to rescinding of the funding for the event? If you have any concerns or questions about anything related to campus issues, don't hesitate to email me at Lawrence@feds.ca.

| Engineering Society A - Spring 2003 Budget | | | |
|--|--------------|--------------|--------------|
| | Income | Expenses | Net |
| Student Fees | 24800 | 0 | 24800 |
| Orifice: | | | |
| Bank Charges | | 30 | -30 |
| Payroll/Maintenance | | 15000 | -15000 |
| Phone | | 800 | -800 |
| Photocopiers/Faxes | | 3200 | -3200 |
| Misc. (cable, fax, post, supplies) | | 1368 | -1368 |
| Executive: | | | |
| Contingency | | 1000 | -1000 |
| President | | 750 | -750 |
| TOOL | | 250 | -250 |
| VP External | | 150 | -150 |
| VP Internal | | 500 | -500 |
| VP Education | | 100 | -100 |
| VP Finance | | 100 | -100 |
| Directorships: | | | |
| Academic Rep. Advisor | | 5 | -5 |
| Arts | | 50 | -50 |
| Athletics | | 300 | -300 |
| B**5 | | 250 | -250 |
| Canada Day | | 400 | -400 |
| Charities | | 50 | -50 |
| Class Rep Advisor | | 100 | -100 |
| Capture the Flag | | 125 | -125 |
| CRO | | 375 | -375 |
| Darkroom | | 325 | -325 |
| Diversity | | 50 | -50 |
| Drama | | 500 | -500 |
| Education Assistant | | 50 | -50 |
| Engineers Without Borders | | 50 | -50 |
| Exchange | | 10 | -10 |
| Faculty Liaison | | 50 | -50 |
| Frontrunners | | 50 | -50 |
| Internal Special Events | | 200 | -200 |
| P**5 | | 600 | -600 |
| POETS | | 600 | -600 |
| POETS Programming | | 350 | -350 |
| Resume Critiques | | 12 | -12 |
| Sanford Fleming Rep. | | 10 | -10 |
| Scholarships | | 3 | -3 |
| Semi-Formal | | 500 | -500 |
| Speaker | | 900 | -900 |
| Tal Eng | | 200 | -200 |
| Task Team | | 10 | -10 |
| TSN | | 100 | -100 |
| Women in Engineering | | 100 | -100 |
| Other: | | | |
| Donations | | 1500 | -1500 |
| Total | 24800 | 31073 | -6273 |

(Revenue will offset deficit)

Election Special

ENGINEERING SOCIETY EXECUTIVE ELECTIONS

A Message from the Chief Returning Officer

Greame Baer

Chief Returning Officer



Nominations closed last Thursday and by now, you've probably noticed a few campaign posters around Engineering. In the end, we had these 8 nominations:

President:

Laura Mooney (3A Systems)
Ryan Walker (3A Chem)

VP Education:

Jonathan Fishbein (2B Software)

VP External:

Nick Lawler (2B Civil)

VP Finance:

Rajat Suri (1B Chem)

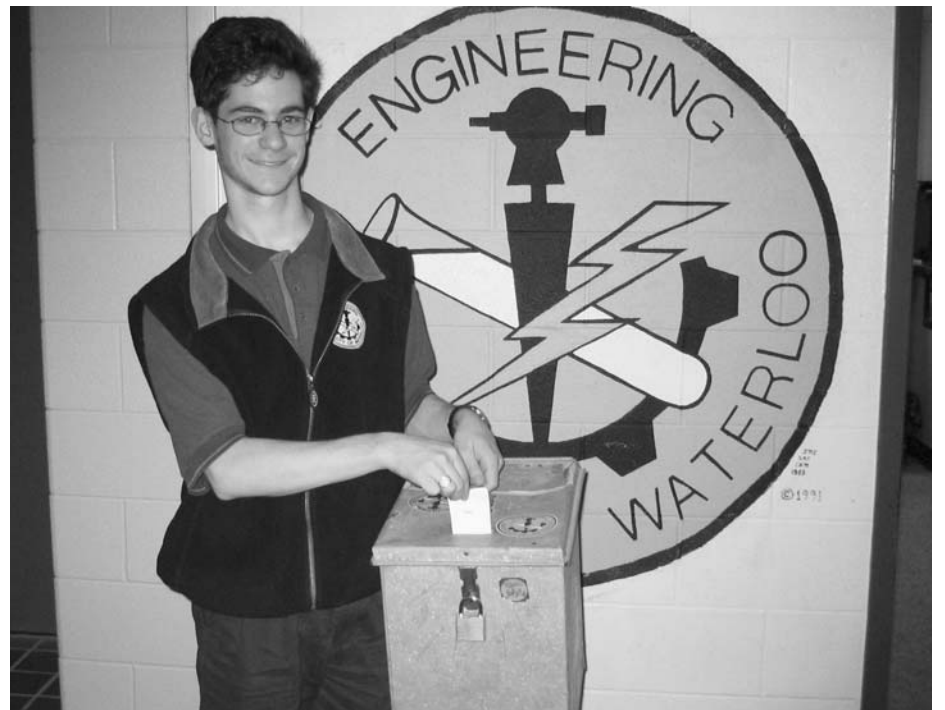
VP Internal:

Kate Kelly (1B Elec)
Dan Sellan (1B Chem)
WEEF:
Mike Henheffer (4A Comp)

Hopefully you've had a chance to meet some of the candidates during class visits, or you will by early next week.

We hope you'll drop by the All Candidates Forum on Tuesday at 11:30 to quiz the candidates on their plans for the next 16 months. Then, come out to vote on Wednesday from 9 AM to 4:30 PM in CPH Foyer or from 11:30 AM to 1:30 PM outside Helix in RCH to select the next President and VP Internal of the Engineering Society.

Editor's Note: Only nominees submitting their platform by the June 28 midnight deadline are printed in this issue.



Arrr! I be vorting!

Ryan Walker

Candidate - President



The President of the engineering society is responsible for coordinating the activities of the society and to act as a liaison with other student societies, admin and the rest of the outside world. I have a great amount of pride in Waterloo engineering and our society. As president I will strive to spread that pride to all of the students here by continuing the tradition of excellence that Waterloo Engineering is known for.

My strong interpersonal skills will be an asset to the society, allowing open dialogue between administration and the stu-

dents. I will be your ambassador to the Dean's office. I am very approachable and enjoy helping out whenever I can. If you have a question or problem I can find you an answer or solution and if I am not sure I know the right people to ask.

My main focus as president will be to support the executive and directors. Without the VPs and directors EngSoc would not exist. Continuing the tradition of excellence at Waterloo is of great importance to me. The best way to do this is to maintain and improve on the services EngSoc currently provides. The services provided by the engineering society include: academic services such as course critiques, social and athletic events, and Charity work. The continued success of these and other services comes from a good group of people and a strong leader.

Vote Ryan Walker and let me be that leader.

Laura Mooney

Candidate - President



For the past 14 months I've been the VP Education, and for the past nine months a member of the Federation Orientation Committee. This term has involved organizing a Habitat for Humanity build and dealing with the Society Used Book Service, among many other projects for EngSoc, Orientation Week, and class. The Engineering Society has been and will continue to be a source of satisfaction for me, in that it provides the opportunity to meet new people, organize events, expand my knowledge of UW, and represent my fellow students. There are many issues faced by the society at the moment, including school spirit, changes to the programs offered within engineering, and so on. However, there are three main areas that I feel are particularly important, which are addressed below.

Improve Services Provided by EngSoc

Many students are aware of our cheap photocopiers and the Exam Bank, but what other services does EngSoc offer? Resume critiques, a fully equipped photographic darkroom, the courtesy phone in E2, and a student lounge (POETS) are just some examples of the many services EngSoc makes available to students. New initiatives, like the online Exam Bank and the Society Used Book Service will continue to be improved upon. Changes to POETS to better meet the needs of all students will be investigated and implemented. The Engineering Society belongs to all Engineering students, and as President of

the society I feel that it would be my responsibility to ensure that the services provided by EngSoc are reflective of the needs of the student population.

Work towards a Sustainable Plan for Tuition Increases

While we all know that tuition increases are inevitable (inflation being what it is and all), the general consensus among students is that the current rate of tuition increase is fast becoming prohibitive for students from low to average income backgrounds. It's important that the students work together with faculty administration to create a plan of reasonable tuition increases that are reflective of economic changes in the short and long term, which would be a key initiative for the upcoming terms.

Continue to Raise the Profile of UWEng

We have a great faculty with some really amazing student-lead initiatives. Engineering student groups, both EngSoc and non-EngSoc related, continue to be a source of pride and recognition for our school. Over the past few terms, significant steps have been taken to showcase these accomplishments, while also raising the profile of the Engineering Society within the university and surrounding community as being professional, dedicated, and supportive. In particular, collaborating with other student societies on campus, including the FEDS, to improve relations between the various groups of student representatives would be a top priority for the terms to come.

So, to sum it all up, I'm willing to continue to work hard on your behalf to make things happen. I look forward to seeing you at the All Candidates forum on July 8, and don't forget to come vote on July 9!

Kate Kelley

Candidate - Vice President Internal



Hi all! My name's Kate Kelly. I'm in 1B elec and I'll try to keep this short and sweet.

Why VPI??? Well, I love being involved in EngSoc, and everything engineering. I've been going to the meetings, even when I wasn't a class rep! I'm very enthusiastic, energetic, and love being involved. I'm a Big for Frosh Week 2003; I'm in the engineering play and played a role in last year's production; I'm POETS security; I'm actually a class rep this semester (yahoo!) and I love submitting comics to the IW (with help from friends

of course).

Why would I be a good VPI? Well, it gives me an excuse to go to all the events I go to anyways! Honestly, I will work my a\$\$ off to make sure that great events continue to run, that even more people attend, and that new ideas are received and implemented. I'm very friendly and approachable, feel free to stop me in the hall, just for a chat or for suggestions! I'm hard-working, dedicated, willing to go the extra mile, and I love working with people.

When I was deciding if I was going to run or not I walked into the CPH foyer, looked up at the POETS balcony and saw "Do you want to take over the world?". Now, like any normal person I automatically thought "Yes. Yes I do". I then noticed it was an ad to run for an EngSoc executive position.... If this isn't a sign, I don't know what is! So, please, on election day, July 9th, empower me!

Nick Lawler

Acclaimed - Vice President External



Waterloo Engineering is the best Engineering program in the country, bar

none. It's the job of the VPX to represent EngSoc, and in turn, you the students to the rest of the country. My name is Nick Lawler, and I am running for the position of VPX.

I'm currently in 2B Civil Engineering. I have the energy and great ideas to tell everyone that this program is truly the best. Since coming to Waterloo I have been a frosh leader once, and will be a

Huge in September. I have organized great events such as Canada Day 2003, and the Iron Ring Wing Ding. I have also participated in almost every Mudbowl (even off-stream), Explorations, 3 on 3 Basketball, the Santa Claus Parade, and the Bus Push.

With the world getting smaller and smaller everyday it's important that the EngSoc stays connected to all that is going on in the field of engineering, both profes-

sionally and academically. This is why a person like me is required to fill the position. Someone with passion, who cares about the direction of the program and the engineering field in general. Whether it be attending conferences, or sitting on committees within the university, I promise to always represent you, the students of Waterloo Engineering with the passion and integrity that you deserve.

ENGINEERING SOCIETY EXECUTIVE ELECTIONS

Rajat Suri**Acclaimed -
Vice President
Finance**

Ok, ok, so I'd like to be your next VP-Finance. There, I've said it. You all know the truth now... all I ask is to leave my family alone. They had no part in it, I swear!

But before you decide on my means of execution, at least let me state my motives! (And it'd be a lot easier to do that if you'd take that rope off my neck. And take me

off this chair. In that order.)

Mmm, thanks. Anyways where was I? Ahh, my reasons. Well it doesn't take a wizard to figure this one out – it was all about the money. That's right, I want to be VP Finance for the moolah. No not for any that I'd be getting (although 'tips' will be greatly appreciated) but for all that I'd be controlling. You see, engineering students cough up \$14 of their valuable funds every term to EngSoc. Now it's a common myth that all of this money goes to funding the free food at Iron Warrior meetings, but I can assure you that is not the case. Actually it goes straight into the President's pocket, to be used for the all-important nutritional supplement of crack.

Kidding, kidding! Take those electrodes off my chest please! No, no, the money really goes to funding events and activities for you, Bart Engineer. Everything from club activities to the paper you're reading right now is or was funded by EngSoc. This is why you need an incredibly organized and trustworthy person like me to run it. (I left out good-looking but that helps too. Trust me.)

Do I have experience you ask me? Sure I do! You think I'd risk my neck on a capital offence without any experience? I am currently your Finance Director, which is actually more of an Assistant to the VP-Finance position. This has given me the chance to learn more about the ins and outs

of the finances of EngSoc and I've been able to ask Kristen Farn (the current VP) about the finer points of handling finances. Not only that, I am a former Athletics Director and have many other directorships under my belt, especially this term.

In conclusion, don't kill me for thinking I'd make a good VP Finance. I value money enough to know how important this post is – I am not running for it on a whim. And plus, my Excel skills are legendary. I've been known to wield many a spreadsheet to destroy evil chemical engineering problems. They don't call me Sir Copy-and-Paste-a-Lot for nothing!

So please vote for me as your VP Finance! I guarantee I won't disappoint!

Jonathan Fishbein**Acclaimed -
Vice President
Education**

Greetings my fellow engineering students! My name is Jonathan Fishbein and I want to be your VP Education. You may ask, why am I qualified for such a position? Well, aside from being the Editor-in-Chief of this fine publication you're reading now, I am also the VP Services and Development of the Engineering Student

Societies' Council of Ontario, or ESSCO as they're commonly known. My role in ESSCO requires me to research and gather relevant issues for engineering and present them to engineering schools. This gives me the knowledge to understand the issues surrounding engineering tuition increases. My position with ESSCO allows me to talk-the-talk about the engineering education issues; I want to be EngSoc VP Education so I can walk-the-walk with these issues. I want to bring these issues home to UW so that our EngSoc can represent our educational needs to the faculty.

One engineering education issue that should be on the forefront of our EngSoc

radar is our increasing tuition here at Waterloo. One thing that I would like to see is a percentage breakdown of where the faculty is spending our tuition. This is something that the Dean of Engineering at Queen's has implemented successfully and there is no reason that the same cannot be done at Waterloo. If we are better informed about where the faculty is spending our tuition, we may be able to provide some constructive criticism, or god forbid maybe even support further tuition increases. There is nothing wrong with a student population that is informed about how their tuition dollars are being spent, and I want to see this happen at Waterloo.

One other education issue I would like to undertake is to work with the faculty to create basic teaching workshops for new Teaching Assistants teaching engineering courses. All too frequently are we told that to be professional engineers we not only have to have technical skills but also soft skills, such as presentation skills. It is rather hypocritical of the faculty to tell the students that they need to have above average presentation skills when the faculty hires some TAs that can barely present the material for engineering courses. Basic teaching workshops for newly hired TAs can only benefit our engineering education.

Michael Henheffer**Acclaimed -
WEEF Director**

For those of you who do not know me, let me tell you a little bit about myself. I am currently in 4A computer engineering and have been involved in WEEF since my 1A term. I have had many different roles in WEEF including class representative,

assistant director, and a position on the Board of Directors.

Now, I'd like to take this opportunity to give a very brief introduction of what I would like to accomplish during my term as WEEF director. I plan to continue the great work that Marc Joly and Denis Viens have done to improve the internal operations of WEEF. I also want to combat the increasing refund rates by further educating the student population on what WEEF does for them. I want to increase the visibility of WEEF even more so students know exactly what their money is going

towards. These are just a few of the things I would like to accomplish in my term as director. I have many more ideas that I will discuss at a later time.

Due to the fact that I get my ring in 228 days(or less depending on when you are reading this), I will only be able to serve 8 months of the normal 16 month term. This means there will be a vacancy at WEEF director after our next term. I will be looking to get younger students involved in WEEF as assistant directors in hopes that they can use it as a stepping stone to replace me as director after I graduate.

This will allow a person to 'learn the ropes' while Marc and myself are still around so they have the knowledge necessary to ensure WEEF's success continues.

Finally, I would like to thank Marc Joly for the great work that he has done, and is doing, as WEEF director. Marc had big shoes to fill when he replaced Mark Cessana as WEEF director and I am pleased to say that he did a great job living up to the expectations. I only hope that I can now do the same.

Thanks for reading and remember, "WEEF is Good!"



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

CONGRATULATIONS TO

Sarah Ehrhardt, Systems Design Engineering

Winner of the 2003 John Fisher Leadership Award

Reminder - Debates

DATE July 7, 8, 9
TIME 11:30 – 1:00
PLACE E2 - 3324

Finals: Friday, July 11
Noon
E2-3324

Interview

Interview with Dean Chaudhuri

Jonathan Fishbein

2B Software

Editor-in-Chief



Jeff Henry

4A Computer

Assistant Editor


What were some of your motivations for originally accepting the Dean of Engineering Position?

When I accepted and let my name stand, we had to submit some documents to the committee to say what we wanted to do. First of all, I didn't want to do the job; but a lot of colleagues said I need to do the job. At that time, if you recall I started in 1998, we had just gone through that special early retirement plan. A lot of our senior people, experienced people were ultimately gone, so out of 170 faculty members we lost 36 of them. All of a sudden, I became the old man of the faculty. I accepted the job and my challenge at that time was to rebuild the faculty and get it back to where we need to be. The remarkable thing is that after that big retirement, which we were all very sad to see, the last five years we have recovered very nicely. I think that the faculty, the students and the staff have all responded to the concern of the quality of our undergraduate education. Now, you will see we have added Software Engineering and Mechatronics Engineering. We got some very good faculty members and research earnings in the last five years. My job was to step in and do my share in carrying the load for the faculty at a very critical time and I had a lot of fun doing it. That was my motivation.

Do you feel that you accomplished all the goals that you set out for yourself?

I don't set lofty goals. Everyday you want to survive and keep over the water's heights. I did want to have two things done. One was to have an extremely strong undergraduate education culture. We have a strong research and graduate culture, but it's nowhere near our strength and our reputation for undergraduate culture. That was the challenge I had. I think we met that very nicely. We have a lot of stress. You see all these buildings, and you know that if we tripled the research dollars with no spaces added this would become like a refugee camp, we are going ahead and moving along getting some new space. I have not achieved everything, but the economy is bad and nobody gives you money for bricks and mortar, but it's coming. We will have a lot more space. As far of keeping ourselves ahead of others, that's a very big challenge. In terms of co-op jobs and in terms of creating new programs that are relevant. I think I was able to stay ahead and not get into any trouble. I'm stepping down knowing that you should quit while you're ahead, before the system catches up with you. I think I have finished most of the things that I had started to do.

You mentioned the early retirement program and you wanted to build up the faculty. What initiatives have you
undertook to attract new engineering professors to the university?

First of all, I kept a very open door policy for the assistant professors. They were a little intimidated to come in to my office, but then they realized "Oh, he's one of us." I had a lot of one-on-ones with young professors and helped them directly. Chairs do not mind me discussing various things. A lot of people I have helped with research, workload and stress. Students have given us some flexibility with tuition fees. It's a burden for the students, but the fact is that it comes to the faculty and the faculty has the ability to help these young professors grow and stay competitive in the market. Differential Tuition fee has taken some pressure off in looking after the undergraduate programs, and that allowed me to use our resources to help these young professors and reduce their teaching load a bit so they can focus on the quality of their teaching.

I've done that and also I think that I've built relationships with alumni who were not very heavily connected to us. I work very hard to bring alumni, as it's called, home. I think that this alumni group is colourful and very big-hearted. I think that they have responded very well. That's how I have achieved some of those rebuilding goals. In the future, the time is changing and we have to take care of our own destiny. We can't depend on public coffers and public tax-payers money for everything. Support from the private sector and alumni become very important. Our alumni are very strong ambassadors for us. My challenge was to make sure they get connected to us and from the feedback I get, I think that they do feel they are getting connected to Waterloo Engineering very well. The Student and Alumni connection I think is a fantastic one. I didn't realize how much students and alumni are alike. I facilitated that connection and I am very proud of that one.

In your previous answer, you mentioned the raising cost of tuition. Hypothetically, where do you think the faculty would be if tuition had never been deregulated?

That's a very good question and I have to give a very clear answer to it. So if you look at '96-'97, the net cutback was 7.5%. That created the special early retirement plan. That created a chaos here. Now let's

see how much cutbacks we have done in '98-'03. To take 3.5%, plus 2%, plus another 2% and plus 1% before that, adds up to another 8.5% cutback. So, 7.5% created that chaos, and it's been followed by another 8.5% cutback. Altogether a 16% cutback. The last 8.5% cutback has not had any effect on us in terms of doing what we do. Nobody had to close anything; no facilities had to be closed. We did not have to make the class size horrendously big, we did not have to shut down labs and we did not have to layoff faculty members. How did we do that? Through the Differential Tuition Fee. If you take the differential tuition fee away from us, there is a total 16% cutback and you could only imagine where we would have been. To be honest with you, if this was not there, the good people in this faculty would be long gone. It's not the question of closing things, but rather retaining good people. Good people have one lifetime to contribute, they don't want to hang around where they don't have opportunities. The biggest credit goes to students for carrying that load; I will give them that credit. The burden of maintaining the quality of education has shifted from the tax-payers to the students. If that burden was not acceptable to the students, they did not see that they were getting value for the burden they are carrying. I can tell you respective of our labs and facilities, I would seriously doubt that the high caliber faculty that continue to be working in this faculty would be here now.

Here is a little bit of an easier question for you. How would you rank the student extra-curricular involvement of engineering students?

I must say that I'm a little bit of a Jock myself. I had a long career of very strong athletics. I have always felt that studying and extra-curricular activities go hand-in-hand. They actually feed off each other. As you know I've tried to enhance that culture and encourage students to do all sorts of extra-curricular activities. This is very, very important to me. Getting high marks is not the end of the story, it's just the beginning. What you do beyond your marks is what defines you as different from others. I'm very proud to see that some of the interuniversity athletics' top athletes are engineers. I keep telling my faculty and dean colleagues that engineers carry this team and engineers carry that

team. I get genuine pride from it. I see students doing musicals. We started that engineering drama and everybody laughed. Now everyone looks forward to it. I strongly believe in helping others. I support all the charity work that you do, as well as Engineers Without Borders. I'm really, really very happy the way our students are really applying themselves in all spheres of life. This is what makes us different. Take the Iron Warrior for example. All my fellow deans read it and the quality of writing and the quality of thought that goes into it is turning it into a premier newspaper. There is a lighter side to it, yet it is making serious commentary. I know across Ontario, deans of engineering are reading the Iron Warrior. It is absolutely important to do extra-curricular activities. Don't think that you are great because you do very well in your studies. If you do nothing but studying, it's easy to get high marks. When I used to teach Civil Engineering I had two of the top CIU basketball players as my students. They did not know my stance on extra-curricular activities and very sheepishly approached me to move a midterm to the evening. I asked them why, and they explained their situation to me. I then asked what else they needed from me so they could do both. I like to tell the faculty this too, to help students to be well-rounded. I believe being well-rounded is very important. There are scholarships now in First Year Engineering for students who are coming in who have strong extra-curricular achievements while having good marks. Leadership comes from well-rounded abilities. We have serious musicians, artists and designers here in engineering.

What significant tasks remain for the incoming Dean?

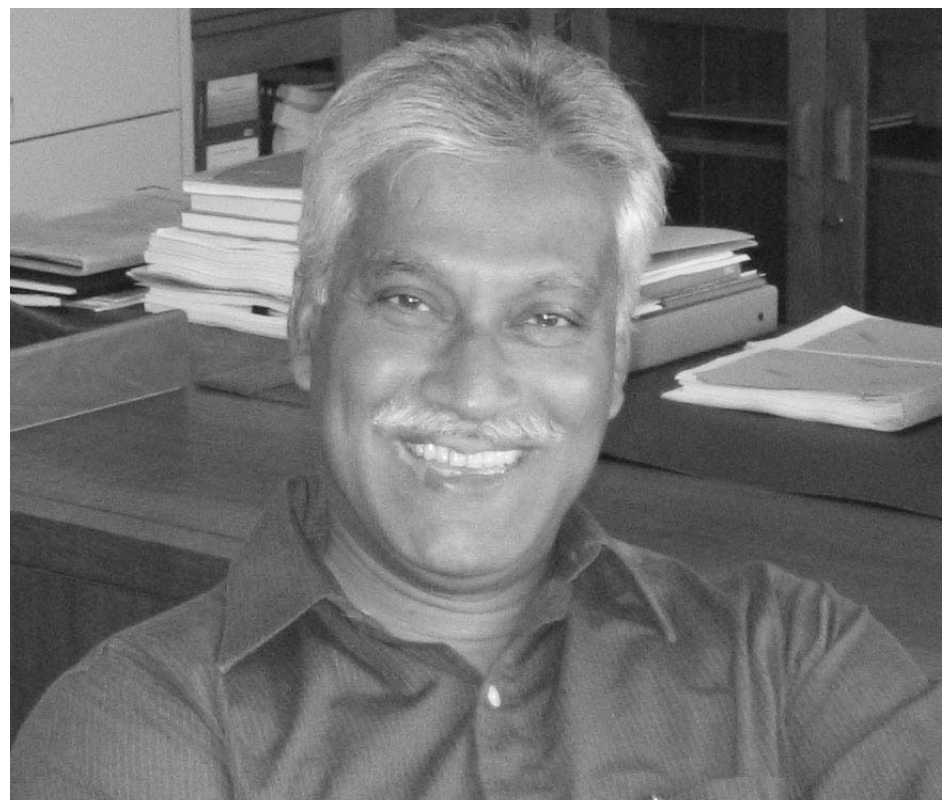
Not 'remain', because there are no end to these tasks. We have a very strong momentum going forward, as I mentioned to you earlier. We have maintained our excellence in undergraduate education. We are really cranking up the gears on research and graduate education. The new dean comes with a lot of worldly experience and collective leadership experience. As we gather this momentum, to have him as the dean is very fortunate for us. He will not only carry that momentum that we built, but I think he will push it even farther. We are going places. His arrival here is very timely. He is a friend of mine. I know him very well. I think he has a great deal to offer us and we have a great deal to offer him, and he knows it. It's a perfect match. Hang on to your hats.

You mentioned the Iron Warrior, the lighter side of the Iron Warrior that gets covered and I know that...

I love LowRider.

If there was one question you could ask LowRider what would it be?

I would like to ask LowRider how the heck we get the provincial government - Queen's Park - to understand the long-term needs of society as seen through a good post-secondary education system. If LowRider can come up with a good answer, I'm going out for lunch with LowRider. We have to get a good answer, and everybody has to say that's a good answer, I'm going to buy him lunch...or her lunch. I don't know who's behind LowRider! It's a good, good column. I like it.



Outgoing Dean Sujeet Chaudhuri

Gutter Balls

Chris Hamm and Trevor Parker
4A Civil

While Team Domination won the A*5 bowling tournament on Monday (June 23), proving that playing with big black balls is right up their alley, it was what the teams were wearing that stole the spotlight.

Teams from around the world competed in the one-day event formerly known as the B**5 Tournament. Fashion was the flavour of this year's tournament with some teams coming clothed, while others deciding to hold their balls and bang their pins in slightly less constricting attire, nothing.

Throughout the night, the undressed Hedonist team tried to get leied by the Hawaiian team. Outfitted in some Hawaiian shirts from Ben Wilkinson's wardrobe (or someone else who still thinks it's 1995), the Hawaiian's lack of creativity caused no one to question why no great inventions ever come from the Pacific state. Despite their lack of ingenuity, the Hawaiian's were not the worst dressed team of the night. That distinction goes to the Ballerinas of Death.

Speaking of the Ballerinas, bowling alley attendant and local wise ass, Sid Rigotoni quipped, "Did they put on costumes or just wake up and come? I mean is that a homeless man with a tutu?" While unimpressed by some costumes, Rigotoni was very impressed by the team of 23 to 30 year-old frosh that contended for the A**5 crown. "Although they seem to be a less-than-unstoppable force, they were still a juggernaut, to be reckoned

with," he said before being hit in the head by this reporter.

In other team uniforms, it appeared that ComESutra put in a team, but it turned out that it was some MACIV nerds in costume (although by their scores, you'd guess they like playing from behind). The nerds almost had an array of bowling balls thrown at them because they wouldn't stop their "SOH-CAH-TOA" cheer.

While fashion controlled the spotlight for most of the night, the old adage that looks don't matter proved to be true as Team Domination (aka Crocket, Tubbs, and the rest of the Miami Vice Squad) won. Once again, it was done without challenge.

The championship was celebrated with a trip to Waterloo's finest establishment, the Silver Spur, where everybody kicked there hammered bar up a notch while singing Karaoke and rehashing scenes from The Big Lebowski.

Beau Gaudreau, a member of Team Domination summed up the night well by saying, "It was an ugly spare, but it was the end of the night and I was drunk. So I picked her up." In a drunken slur, he yelled, "Okay, let's start drinking," just before passing out.

The Final scores are shown below:

| | |
|--------------------------------|------|
| Team Domination (4A Civil) | 2183 |
| Team Hedonism (2B Civil) | 1811 |
| The Nerds (4A Civil) | 1683 |
| Frosh Team (4A Civil) | 1605 |
| Hawaii 5-0 (Random Girls) | 1565 |
| Ballerinas of Death (4A Civil) | 1487 |

Puppy Dog Eyes... Who Can Resist?

Trevor Parker
4A Civil

After hiding out last fall term, Wheelchair Basketball is back once again. I thought I'd start this article with a tale of my very first time...with Wheelchair Basketball.

She appeared out of no where, smelling softly of white roses. Not too strong, not too sweet, but just right. A gentle breeze rushed by, throwing her long beautiful crimson hair to and fro.

Alas she spoke, "Hey there."

What? Was it my doing that brought this goddess before me? After I took a quick glance to my left, and then to my right, I noticed that most of my fellow colleagues were too busy playing Slime Volleyball to notice what maiden stood in their presence.

"You talking to me, Red?" I replied, and followed with a quick Fonz flip of my leather jacket collar, trying not to crack my voice the entire time.

She presented me with a gift and inquired, "What are you doing next Sunday?"

Woah! Is this for real? Did I shower this morning? Yes. Okay, am I wearing new cologne? Yes, that must be it. I had recently purchased some cologne from the Engineering Novelty shop, and decided to test it out that morning.

"Nothing, who wants to know?" I said. Man, I was so cool.

"Oh, you want to play wheelchair bas-

ketball? I've got Ben and Roscoe to sign up, but we need more people".

I quickly awoke from my dream state-of-mind only to realize that it was the ever persuasive EngSoc President Leanne Whiteley talking to me (well, she wasn't EngSoc President at the time, but whatever). The gift she had presented me with quickly became unraveled only to expose a Pledge Sheet. "Your team needs \$50 in pledges to play."

And that's about it. I had never played wheelchair basketball before, or even rode in a wheelchair for that matter. To tell you the truth, I don't even like basketball. I didn't even know what I was signing up for at the time, except to help out a good cause. But in the end, I had a great time. I think the best part was that there was nobody to jump in your face and block your shots. Which was good, because I have absolutely no vertical. The amount of physical exertion required was also pretty minimal, which meant I could keep my beer gut!

This term's Wheelchair Basketball Tournament will take place on July 13th, sign-up sheets for teams of 4 will appear in the Orifice soon. Last term when I played, there were no female teams out there, so I'd like to make a special invitation to have a team change that this term!

Playing was a lot of fun, and I encourage anyone to give it a shot. All proceeds from the tournament go directly to the Participation House Brantford, which provides support for anybody who is physically challenged to achieve their dreams.

GNCTR Dunk Tank Day and a BBQ

Trevor Parker
4A Civil

As some of you may be aware, the MACIV Plumb Bobs (Civil 2004) class holds a barbeque every Thursday (tell your friends) to help raise funds for the Great Northern Concrete Toboggan Race (GNCTR).

A few patio bricks between RCH and the Physics building are the foundation for some very delectable entrees cooked by some of the World's Finest. Unfortunately we don't have a canopy, so in the event of rain, our wiener-pulled wagon relocates outside of the C&D for some serious pricing competition. Most items are priced so low that we're not sure how we make a profit:

Hamburgers,
Veggie Burgers, Sausages:
\$2.00
Hot Dogs:
\$1.50
Cheese:
\$0.25
Pop:
\$1.00
NEW Jumbo Freezies:
\$0.75

The '04 team has to raise approximately \$17,000 to bring the sled to Ottawa for the race this coming February.

On Thursday, July 10th the concrete toboggan team will be setting up a dunk

tank outside of POET'S patio from 11:30am to 4:00pm. Victims of this tank will include your favourite professors, some engineering executives, those oh-so-loveable '04 Civils, as well as some FEDS executives who found the time out of their busy lives to join us (feel free to vent your frustrations over the shut down of our beloved Bomber and Fed Hall).

Free lunch will be given to any student or professor who sits in our dunk tank for one half-hour (as well as those coveted P**5 points). All engineering students are welcome to volunteer to support our team by emailing me at tparker@engmail.uwaterloo.ca.

Of course, we'll be barbequing on the 10th to satisfy your hunger pangs. All proceeds from this event will support the Concrete Toboggan Team.

The GNCTR is an annual competition held between universities across Canada and the United States with participants predominantly composed of engineers. By building a 300-pound toboggan made primarily out of concrete and stacking it with an additional 1,000 pounds of dead weight ('04 Civils), this competition sparks ingenuity by awarding points for best design, fastest times, highest stopping acceleration, costumes, and spirit.

In 2002, the University of Waterloo took home first place in this competition, and the 2004 team hopes to continue UW's reputation as the leaders of tomorrow by winning the next competition. We can only accomplish this with your support!



The new Concrete Toboggan Team Logo



Concrete Toboggan Team Members doing what they do Best

Community

UW Students Close to Harnessing Solar Energy on Campus

Press Release STEP

The sun is shining on University of Waterloo engineering students, not just because it's summer's, but also because renewable energy technologies harnessing solar energy are booming in our community.

The Solar Technology Education Project (STEP), a student-led group from the University of Waterloo, is pushing ahead to achieve its goal of installing a photovoltaic (PV) solar array on campus.

"Our goal is to use this solar array as a full scale demonstration project to raise awareness about renewable energies and climate change," says Jeff DeLoyde, a fourth-year environmental engineering student at UW and STEP's director. "We're proof that anyone with a dream and passion to see that dream come to life can make it happen."

The STEP team is only one small step away from realizing its dreams. Members have already spent over a year successfully fundraising their target of \$25,000.

The money was generously donated by 17 sponsors. Within UW, sponsors include the departments of mechanical, civil, and electrical engineering, the dean of engineering, the Waterloo Engineering Endowment Fund (WEEF), EngSoc, the department of geography, the Waterloo Environmental Studies Endowment Fund

(WESEF), and the Waterloo Public Interest Research Group (WPIRG). Sponsors from outside UW include the City of Waterloo, the City of Cambridge, ARISE Technologies Corporation, Ontario Power Generation, Toyota, Stantec Consulting Ltd., Union Gas, Conestoga Rovers and Associates, and JKL Micro Distribution.

The multi-disciplinary STEP team is made up of more than 20 volunteer students and professors from mechanical, civil, environmental, and electrical engineering, in addition to volunteers from the faculty of environmental studies.

STEP has now launched its design phase. "We're pursuing an aggressive schedule to design this 36-panel solar array and get it up on the roof of Fed Hall by August," said Chris Hadlock, a fourth-year mechanical engineering student and leader of STEP's design team.

The photovoltaic panels, provided by local solar energy company ARISE Technologies Corporation, will be mounted on Federation Hall, a central building on the UW campus and the largest student-run pub in North America.

"This will be the first student-designed solar array on a university campus in Canada," Hadlock said.

The solar array will be 2 kilowatts (kW) in size and produce about 2,500 kilowatt hours (kWh) a year of clean, free electricity. "This is enough power to meet two-thirds of the electricity needs of an

energy efficient home," said David Elzinga of ARISE.

The electricity produced will be "grid-tied" to the university's utility grid using a cutting-edge process called net-metering.

Instead of storing power in batteries, as would be the case in a remote cottage setting, the electricity produced by the solar array will be continuously fed into the university's utility grid and used where it is needed. In this way, the energy is always being used to its full capacity.

Annually, the solar array will prevent over 1,200 kg of CO₂ from polluting the air by eliminating the need to produce that energy using traditional methods such as fossil fuels.

Such emission-free electricity is important in Waterloo Region, since this area has been dubiously recognized as having some of the poorest air quality in Canada, according to the Citizen's Advisory Committee on Air Quality for Waterloo Region.

STEP hopes that its community-based approach to cleaner air and climate change awareness will inspire others to take action.

Indeed, STEP sees this PV solar array as one of many renewable energy projects on campus and in the community.

Already, Community Renewable Energy Works (CREW), a local non-profit organization, has taken the lead in exploring the potential for solar, wind, and micro-hydro projects in Waterloo Region.

And there's more. The City of Waterloo has committed \$30,000 to the development and installation of a PV solar array on City Hall.

"This innovative pilot project will show that the municipal government is taking a lead role in providing clean air solutions," says Ron Ormson, environmental coordinator for the City of Waterloo. Another local initiative earning national praise is the partnership between Cook Homes and ARISE to build Canada's first solar neighbourhood. The neighbourhood of 10 to 15 homes will be located in the Eastbridge area of Waterloo.

The model home, located at the corner of Woolwich Place and University Avenue East, now is complete and available for public viewing. The homes are equipped with a 3.2 kW PV solar array and are built to energy efficient R2000 standards.

That will cost the homeowner a premium of about \$20,000, which is less than half the cost of the solar array, thanks to federal government support of the project.

"As photovoltaics become mainstream and the demand for this elegant technology increases, prices will continue to drop and homeowners will benefit," said Elzinga.

Projects undertaken by STEP, CREW, the City of Waterloo, Cook Homes, and ARISE are helping make renewable energies mainstream in our neighbourhoods. "We are taking steps towards a sustainable future," DeLoyde said.



Mirko Hroch Memorial Service

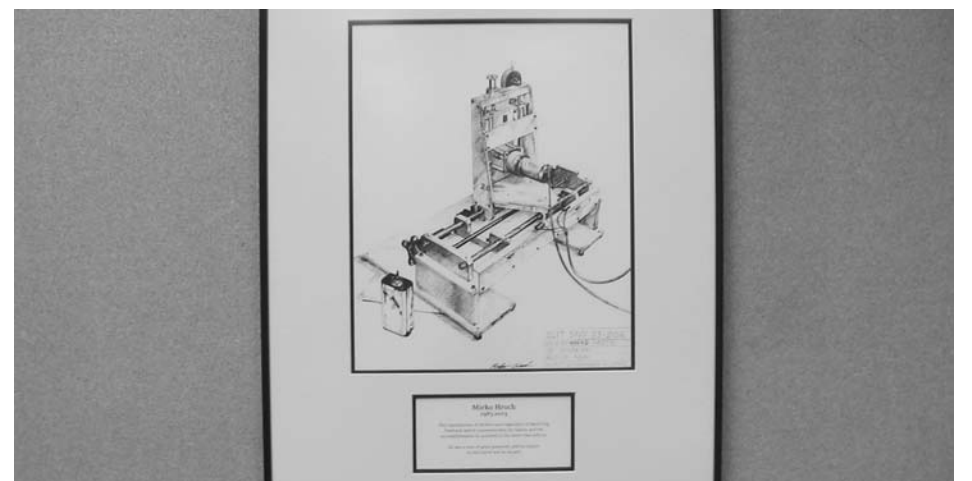
Leanne Whiteley

President



On Monday, June 23, 2003, there was a Memorial Service held for Mirko Hroch. The service took place in the Seigfried Hall at St. Jeromes. The ceremony was hosted by Josh Bruce and Minister Paul Ellingham and attended by family, friends, faculty, as well as, counselling services. During the service, many of Mirko's

friends shared some of their experiences with Mirko. After the Memorial Service, a short presentation was made in the WEEF lab. During the presentation, a plaque was revealed under the "ME 100 Pick of the Week". The plaque, shown in the photo below, is a one of Mirko's ME 100 free-hand sketches. Remarkably, the original drawing was created without the aid of a ruler or any type of straight edge. The plaque is to serve as an inspiration to others and as a reminder of how Mirko touched so many lives. If you would like to donate money to the Mirko Hroch Scholarship fund, please contact one of the Engineering Society Office at ext. 2323.



Mirko Hroch Memorial Plaque in the WEEF Lab

Stars and Stripes Forever

André Beltempo



2B Mechanical

Well, I'm going to do it. There's a can of worms lying on the desk and I'm going to twist off the cap and open it up. Today, I've chosen a special topic, focusing on our dear neighbours (spelled OU) to the South, the United States of America

Historically, the U.S. seems to have somehow got a horseshoe stuck up its ass. I mean most nations have been around for a couple thousand years, but for the mere 230 odd that the U.S. has been around, they somehow managed to become the big kid on the block while toppling such former heavyweights as the British, Spanish, Russian, German and Japanese empires. At the same time, they managed to kick off the industrial revolution, invent airplanes, and become the richest country in the world while doing it. Even worse, they have sustained only two major setbacks in their rise to the top, and even these were arguably less traumatic than the constant wars of the British or the massive loss of lives suffered by the Spanish, German, Japanese or Russian empires, all of whom have been around much longer than these relative newcomers.

So what were these two setbacks? Pearl Harbour? The War of 1812? (With the whole burning of the White House thing) WWI? No. The deepest wounds to a country are those that directly threaten its

security, those that threaten to directly disrupt the lives of the citizens going about their daily lives. The Cold War did so, but the consequences of open nuclear war with the (former) U.S.S.R. were too mind boggling to really comprehend, and it never happened anyway. Think of it this way: during every war the U.S. fought in during the XXth Century, the war was 'over there', and only the soldiers ever had to face the music. Europe, Asia, Africa and South America may have been fought over and savaged, but North America was providentially never touched. This allowed the Americans to come out of wars unscathed, barring the loss of their soldiers. When considering that of the estimated 100 million killed in wars during the XXth Century, roughly 30-40 million were 'soldiers', the other 60-70 million came out of the populations of their respective areas, and for every person killed, houses were destroyed, fields were razed, and cities were leveled, one can understand how lucky the

Americans have been. Only two events touched them directly: The famous U.S. Civil War, occurring on American soil, and in which more Americans were killed than both World Wars put together, and you guessed it, the terror attacks of September 11th.

Before anyone goes dismissing Sept 11th, as inconsequential, citing the relatively small numbers killed, and pointing to the much more gruesome statistics in the 'rest of the world', one must understand, that the U.S. national psyche was hurt far more by September 11th than any event in the entire XXth Century. I'm serious. The attacks set the precedent that the big bad world 'out there', the one that the

U.S. had been fastidiously (and successfully) defending itself against for hundreds of years. It came as a surprise that the badass world finally came in and smacked them hard. And suddenly that badass world that we all read about in the papers, but cannot conceive of, was suddenly on their doorsteps, and blatantly obvious every time someone looked at the forever changed skyline of New York City.

Suddenly, all those Hollywood Armageddon flicks left a sour taste that scared the bajeezus out of them. They did what the United States would do in a situation like that. They got their ultra cool, high tech toys and smacked the country that supported the people who hit them. For 10 years, the world had been complaining to the U.N. about the atrocities of the Taliban regime, and immediately after the U.S. toppled them, they complained that the U.S. had somehow made the country worse. Both action and inaction are damnable when you're the biggest guy on the block, because how could you let that happen, and when you do something about it, who are you to presume to involve yourself in someone else's business? Then there's Iraq. Again, the world was complaining that that the imposed embargo was slowly bleeding the country to death. Again, the U.S. used their high tech toys, and again, the world complained before, during and after the 'war'.

I do not envy the United States. They are simultaneously reviled and respected, for what they have and can do, and what they don't do and can't do. When you are as large as they are, any action, even inaction, damns you. They're either not helping as much as they could or should in

country X, or they're interfering too much in country Y, or they shouldn't be bombing A when they could be feeding B. It's quite the situation.

I think Canadians are actually still in a pre-Sept 11th mental state. It still couldn't happen to us, because who wants to hurt Canada, right? Oh sure, they might go through us to hit the U.S., but no one would really want to hurt us, right? And this lets us make fun of the Americans fighting the rest of the world, while we sit in our covered grandstand, happily spectating while we argue about whether the menu should be in English or French. We still view it as a there problem, and not a here problem. I pray that we as Canadians will never need to change that mentality, for if we do, we would not be able to react as the U.S. The best we could do would amount to a meek "Please don't do that again, eh?"

But mark my words, Sept 11th hurt the U.S. far more than the destruction of two buildings and the loss of thousands of Americans, and it will have repercussions in U.S. foreign policy for the rest of the XXIst century. That's right, Bush or no-Bush, the Americans are taking a hard look at the rest of the world, and deciding, really deciding who to smack next. And if there's no one right away, then wait five years, because their entire defense policy of 'passively' keeping the danger at arms' length went right out the window when those towers came down. That means what they were doing the last 200 years is not enough to protect them, so now they're going to have to hit first. They may tire of this, but until they do, the place is going to be really jumping.

Stay Tuned.

"The deepest wounds to a country are ... those that threaten to directly disrupt the lives of the citizens going about their daily lives."

"When you are as large as the US, any action, even inaction, damns you."

the Iron Inquisition

Jason Griese, 4A Computer

"What has been Dean Chaudhuri's greatest accomplishment?"



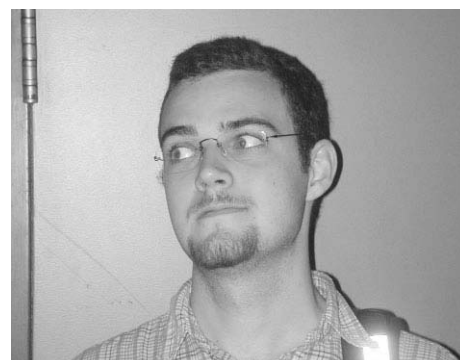
"Projects that require all-nighters."
Alan McLaughlin - 4A Comp



"The Class of 2004."
Kristina Hotz - 4A Comp



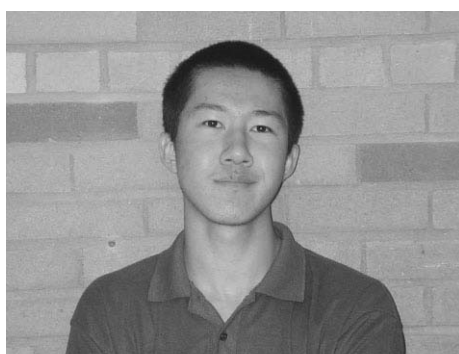
"Cheering on Chicken Wing Races."
Maria Simoes - 4A Comp



"Cheeseballs."
Matt Borland - 2B Mech



"He didn't have to repeat a term."
Matt Harper - 2B Comp



"I know his name."
Kevin Xu - 1B Elec



"Letting me into Engineering."
Jason Griese - 4A Comp



"Wednesday at Mongolian."
Robin Wilson & Illan Kramer - 4A Elec

The Heir of Ardun: Part 3

Mike Moffet
Guest Writer

23 day of the 4th cycle of the moon

"It has been over nearly two winters since my escape from the dungeons of the Ardun palace, and the horrors contained within. The strange elf known as Bruen has returned home for reinforcements, while I continue to train the peasants recruited from Borgh's tyranny. But alas, soon my hand will be forced. For spies have reported things that may force fate to choose a path for all of these men, as well as I...which is why I leave this record behind me. For if I fail, perhaps you can continue on in my stead.

It all started with the coming of the monstrosity you know as Borgh. Disguised as a caring human being, it is a twisted and sick monster that thirsts for chaos and destruction. Lying his way into my father's confidence, he quickly subdued anyone who posed a threat: including me. I will not go into the details of why I was a threat, but I was enough of a danger as to abduct me, and take me to the dungeons where he did his work. No, work sounds to humane, he took me to where he created monsters such as himself, where innocent men were transformed into hideous beasts to do his bidding. Such a fate he deemed suitable for me. Each man

that was taken was strapped to a table, as wicked magic went to work, stripping the flesh from the bones: leaving nothing but the skeletal remains. If this wasn't enough, he then animated them as mindless slaves!

Determined at once that such a fate would not befall me, I spent the next few hours concocting a scheme to escape. Oh the irony of life...for as I was dreaming of ways to make my escape the answer was right in front of me! As the man came to unshackle me when it was my turn, I collapsed into a faint. Obviously annoyed, the guard lowered me onto the floor, and began to kick some sense into me, and this is when I struck. Seeing I wasn't coming around, His attention went to another man down here to come help him. Seizing my opportunity, I quickly punched him where it would hurt the most. Collapsing him, I quickly sprang up and made a dash for it through several guards. That run was long, and every corner was fraught with peril real or imagined, but eventually I was able to escape the palace grounds and into the surrounding forests.

Realizing at once that Borgh must be stopped, I did the unthinkable. I returned to Ardun's royal palace, and under the mask of a noble I began searching out the remnants of those still loyal to my king. We were few in number, but full of determination, and so we began thinking of ways we could hinder Borgh. One of the

men knew of a caravan that Borgh had sent for, and so we decided to raid it, hoping to get supplies for our efforts. Soon we found out that the "goods" Borgh was transporting were no lower than elven slaves! Once I subdued the initial hatred for the elven race amongst my men, I realized this was an opportunity like no other! With the support of the elves, we might actually stand a chance against Borgh and his minions, and so it was settled. We would free the slaves at once.

We arrived on the path of the slave drivers soon, and I ordered my archers into the surrounding trees with orders to shoot anyone in the caravan not shackled or chained. I took the rest of my men, armed with swords and shields, into the woods further up. Within hours, the party was upon us, and the arrows started flying and soon almost a score of the slavers were slain. The archers began falling back further into the woods, as my men and I charged the remaining ones before they could reorganize. We caught them unaware and killed them to the single man. Releasing them at once, one of the elves taller than the rest stepped forward, and offered his hand in friendship. I took his hand, not realizing I was starting a bond that would affect the rest of my life.

Bruen was the name of that elf, and the remaining border patrol (for that is who these elves were) joined our cause against

Borgh. Relating his tale of skeletons and glowing red eyes, I immediately made the connection at once. Surely fate was at work with our meeting, for the purpose of Borgh's army suddenly became clear! I related my half of the story, for surely both our tales are now considered halves of the same whole, and his wit was as quick as mine in making the connection. Immediately, Bruen decided to return to the elven kingdom, and warn the king, hoping to get reinforcements. No sooner had he left, that some spies I had sent to the palace returned with dire news. Borgh had plans to murder his father, and take control of the throne for good! I must stop him before it is too late, with or without Bruen's help. The peasants we've recruited have been learning swiftly, so let us hope that they know enough to survive...and pray the gods help us towards victory."

Editor's Note: The Heir of Ardun is a 5-part short story written by Mike Moffet. The Iron Warrior will be publishing one of the 5 parts sequentially in each of our 5 issues. Be sure to check the next issue of the Iron Warrior for the continuation of the story.

Music Reviews with DJ Strangehold

DJ Strangehold
3A Environmental

Electric Six - Fire - 4 out of 5 stars

Now, I don't listen to disco. Never have, never will. But along comes one of those rare tracks that transcends certain music genres that make the hairs on your arm stand up and yell, "Hey! This disco-metal shit is awesome!" And that's exactly what Electric Six (formerly The Wildbunch) have done. With their outstanding disco-ish debut single, "Danger! High Voltage!", featuring a cameo from none other than Jack "Mr. White Stripes" White, this album goes on to show what the hype from the Detroit rock scene is all about. Staying true to their punk roots, Electric Six warps a tongue-in-cheek, misogynistic record that transcends metal, disco, funk and garage rock sounds into a record they can call their own. Although on the short side (39 minutes long), this album packs enough punch to make me want to hit the play button over and over again. If you like the MC5 eating the Archies for breakfast, then you'll love this

album too.

Notable Songs - I'm the Bomb, Danger! High Voltage, Naked Pictures (Of Your Mother)

Sam Roberts - We Were Born In A Flame - 4 out of 5 stars

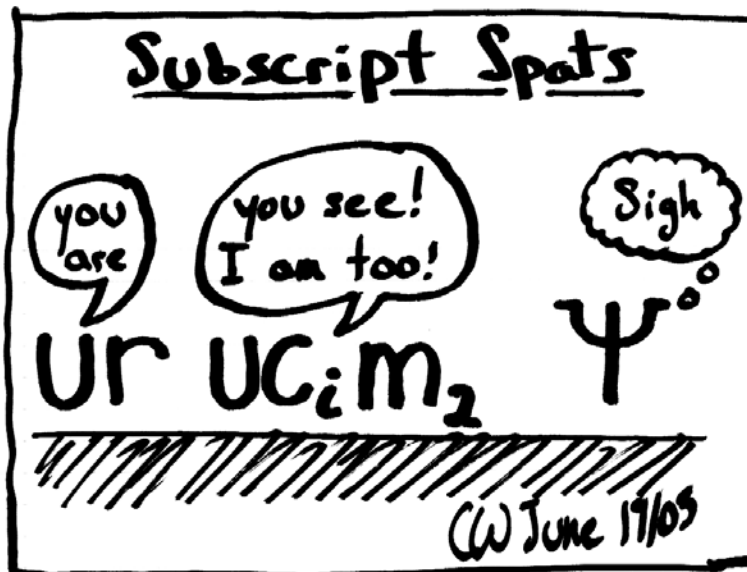
Oh, how Canada loves its homegrown stars. Unless you've been living under a rock for the past year, you'd have definitely heard of Sam Roberts and his infectious brand of rock that is winning the hearts (and wallets) of fans across the country, me being one of them. His debut release, the Inhuman Condition EP (2002), gave us Brother Down and Don't Walk Away Eileen, two songs which I bet you're humming in your head as you read this. With that said, Roberts had the pressure on to deliver more of the same with his debut LP, and does it spectacularly. With 3 songs from his EP re-recorded on WWBIAF, Roberts continues to blend his indie-lovin', Canadian rock sound to an audience who only craves more. Songs like Taj Mahal and Dead End flow through the album, telling tales of long-lost love and broken hearts, only to be accompanied

with the pseudo-political The Canadian Dream. Montreal-born Roberts even felt ballsy enough to record a song in French, a sweet love song about, yes, a broken heart. Sure, the theme of the album is pretty evident (at least from this review), but Sam Roberts has definitely released an album full of pop hooks that can only

showcase more to come from this young man.

Notable Songs - Taj Mahal, Where Have all the Good People Gone? Every Part of Me

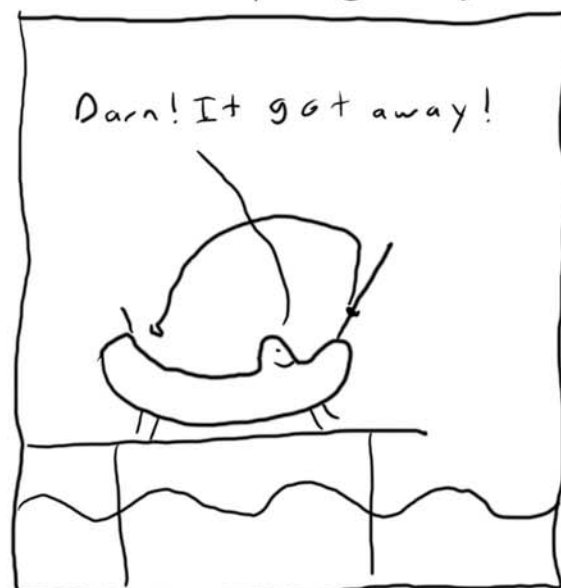
You can hear DJ Strangehold, Monday nights @ 12 midnight on 100.3 CKMS FM Radio Waterloo.



Mutant Dog Goes Fishing



<http://mutantdog.dyndns.org>



Ryan Bayne © 2003