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Bomber Patio: Come Back...



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FEDS
FEDERATION OF STUDENTS
University of Waterloo

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Emission-Free Hydrogen Vehicle Finishes Top 5 in Competition

GREG MACNEILL
'08 MECHANICAL

For the past four years, the University of Waterloo's Alternative Fuels Team (UWAF) has been participating in Challenge X. There were 17 schools in the competition to turn the Chevrolet Equinox into an alternative fuels vehicle. We were the only Canadian school and we were honoured to represent the talents of our country at this event. We were the first hydrogen fuel-cell series electric-hybrid vehicle to compete in a competition and not only that, but we placed in the top tier amid a group of 16 very-well respected and well-funded American universities.

This year's final competition, which took place from May 12th to May 21st, had us landing close to Newark, NJ and road rallying our vehicle to New York, NY and Baltimore, MD before ending up in Washington, D.C. to finish the four-year journey. We breezed through our safety inspection on the first day and took top place in the tailpipe emissions test as our vehicle only produces pure H₂O water as exhaust.

We also took part in the Autocross challenge and didn't even come in last place despite being the heaviest vehicle in the competition. Team Captain Chris Haliburton certainly left it all on the track – rubber, that is, judging by the amount of tire screeching that accompanied each lap.

We've never put the vehicle through that kind of punishment before so we were very pleased to just be able to drive away afterwards. We also ran drag races against the other vehicles on a quarter-mile strip. A good showing in the acceleration event landed us in the middle of the pack which is very respectable considering the massive



UWAF Captain Chris Haliburton waves at the camera as he drives the team's Hydrogen-fuelled Chevy Equinox across the finish line in Washington, D.C., capping off the four-year Challenge X competition.

weight of the vehicle.

The first road rally was to lead us from New Jersey into downtown New York City. Due to safety reasons, they are not permitted to refuel hydrogen in downtown New York, so it was decided that our vehicle would get a free lift on the flatbed truck to ensure that we'd have enough fuel to participate in the events in New York. We were able to refuel on the outskirts of town and drive back to New Jersey with the rest of the convoy. The first leg went well with only a couple minor hiccups such as a flat tire.

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Members of UWAF pose with Dean of Engineering Dr. Adel Sedra and Cambridge MP Gary Goodyear at a Media Event in Toronto before the competition.

Waterloo Engineering to Host OEC 2010

“Redefining Engineering” Presented as Theme of Province-Wide Competition

YUREE SUNG
1B CHEMICAL

The Ontario Engineering Competition is an annual event that attracts over 200 of the top engineering students from across the province to be tested in the fundamental principles of engineering such as innovation, design, communication and teamwork. The OEC was the brainchild of Diane Neil and the Queen's University Engineering Society in 1980. In less than three decades, the competition has grown from just 56 Ontario participants competing in 3 categories to the launch of three other regional competitions throughout Canada and setting the blueprint for the Canadian Engineering Competition which we held back in March at UW.

Inspired by the 2008 OEC held by the University of McMaster in Hamilton in

February, Waterloo's Junior Design Team B (Stephen Lake, Adli Nureddin, Nick Cosentino, and Yuree Sung) set out their sight in hosting the competition in 2010. In several short weeks, the executive organizing committee gained the support and approval from the school and the local community to propose their bid in front of the OEC Advisory Board on March 15 in Toronto. Impressed by the enthusiasm and innovative ideas that the team brought forth to the table, the OEC Advisory Board granted the honour to the University of Waterloo to host the Ontario Engineering Competition in 2010.

The University of Waterloo has a worldwide reputation as a centre for innovation and advancement of engineering education. The executive committee intends to extend this history of innovation into the central theme of OEC 2010. This theme is

“Redefining Engineering” in which participants aspire to broaden the definition of the profession to include the application of engineering principles in the business world and its impact on society on the whole. Engineering has evolved into a truly multi-faceted profession involving an extensive knowledge and understanding of applied science and having both exception technical and soft skills. Successful engineers of the future must adapt to the fast-paced world of commerce and realize the far-reaching business and societal impacts of their work. We plan to integrate the theme to the competition by introducing a significant marketing/feasibility (business) aspect into the design competitions, and to move new technological advances into the forefront of all competitions.

With developments of the Vision 2010

Strategic Plan, Six Decade Plan and 2010 OEC at Waterloo in the works, it will be quite the exciting time for UW and its engineering department as we ring in the new decade with hopes to strengthen our global reputation and continue to in our efforts in achieving overall excellence in education.

On behalf of the executive committee, I would like to thank all those who have supported us right from the start that includes: EngSoc, the Dean of Engineering, the President of UW, Professor M. Fowler, M.P. of Kitchener-Waterloo. As well I would like to acknowledge the assistance we received from the staff of UW and the CEC 2008 organizers. For further information about OEC 2010 at Waterloo or if you are interested in helping out with organizing the competition, please feel free to contact me at y2sung@uwaterloo.ca.

Letter from the Editor

How I Became EIC



SUNNY NG
EDITOR-IN-CHIEF

This is it, the first issue of the Iron Warrior for the Spring 2008 term, brought to you by yours truly. I've been looking forward to this for a while now and I sincerely hope you enjoy reading it. I'm sure most of you don't know who I am and may not have met me before since I'm one of those E&CE's that switched from A-Soc to B-Soc this term. So, I'm going to use my first editorial to introduce myself with the story of how I became the Editor-In-Chief for IW this term and it would explain why I always joke about how I was suckered into taking on this role.

It all started in January 2008, during the first PubCrawl of the term. I was getting my drink on at the Fox and the Fiddle, and hanging out with my friends. I vaguely remember us singing to Nelly Furtado's "I'm Like A Bird" that was playing in the speakers, but whatever, that's irrelevant. At the time, Engineering Society "B" President Amanda Hoff was going around across the bar, and then from table to table asking about something. I was curious about what that something was, sort of hoping she was asking if anybody was interested in getting a free drink, but I kind of doubted that since everybody said no.

She eventually got to my table and the question came up, "Do any of you want to be the Editor-In-Chief for the Iron Warrior next term?" That's when the conversation went dead silent and everybody started to slowly move away from table as if somebody just spilled something. Clearly, nobody was interested. I was a bit surprised at the time because given the number of contributors IW has had in the past, I thought *someone* would step up and become the EIC. Unfortunately, that was not the case. Amanda explained that they had been having trouble finding someone willing to be the EIC in Fall 2007 for the next B-Soc term. I asked, "So what happens if nobody ends up being EIC?" She answered, "Then we just won't have the Iron Warrior for the term." With the future of CKMS campus radio's future being called into question by the referendum that was coming up, I thought the last thing we needed was another student media being shut down.

I was a bit reluctant, since I barely had any experience with the Iron Warrior. I mean, I've been an avid reader because I always felt the need to have reading material in class for me to stay awake and I have too short of an attention span to finish an entire crossword or a Sudoku puzzle. But at the time, I had yet to actually contribute to the student newspaper. While I do enjoy writing, it was never my forte; one can just reference my work term report marks. I did help out my high school's newspaper by writing and editing, but that was long ago. Another thing was time commitment. I already had other ambitions in mind that I was not about

to drop. This included running my own website and holding four EngSoc directorships, one of which is being the EngSoc Webmaster, that I have been stuck with for the sixth consecutive term now since barely anybody is ever interested in doing it. The most time-consuming and probably the most important one to me was managing the Jazz Band, since long-time director and founder Ally Chan was graduating. Playing in the band itself was already considered a milestone for me as I haven't played music since high school and I haven't played in a band before, let alone a jazz band.

"Alright, I'll do it if you *really* can't find anyone to do it," I told Amanda. Amanda couldn't be any happier and instantly gave me a hug. My friends that were around me thought I was crazy and that I had no idea how much work I would have to do. I also started to question myself if this is something I really want to pursue. I mean I wasn't even drunk at the time since this was only at Fox and the Fiddle, so what the hell was I thinking? I wasn't looking for something to pad my résumé, but at the same time I couldn't stand to see IW fall.

As the news of a possible candidate for the Spring 2008 Editor-In-Chief spread through the PubCrawl crowd, Jaclyn Sharpe and Bahman Hadji, former EICs for Fall 2006 and Spring 2007 respectively, came over and started talking to me about my decision. While they did not deny the massive amount of work this role entails, they were very certain that I would be able to handle it. They also mentioned what a rewarding experience it has been for them and that the hard work was definitely worth it. Most importantly, they had faith that I would be able to do a good job with it. In the end, I was convinced. It was a challenge I was willing to take up, no matter what it meant. For the remainder of the term, I finally became more involved with the Iron Warrior, contributed numerous articles and helped out a couple of times when I had free time. Fast-forward to now, I'm getting ready to pump out my first issue of the Iron Warrior.

So what is the moral of this story? Am I just gloating and portraying myself as a superhero that just saved the day? Okay, perhaps. But that's not what I'm really trying to get at.

Recently I've been inspired by the song "Handlebars" by Flobots which I've been hearing a lot on alternative radio, because I'm such a mainstream whore (amongst whores of other variations, but I won't get into that right now). As mainstream as that song is, it's also one of the few mainstream songs that have such a strong political message. The theme of the song is to demonstrate the power of one. The song starts off with how the protagonist can "ride a bike with no handlebars", leading up to how he can "keep rhythm with no metronome", then how he can "lead a nation with microphone". Towards the ending, the protagonist discusses how the power can be abused as he alludes to how he can "end the planet in a holocaust." I think that people often

underestimate the power and influence of the individual and that is what I'm trying to convey with this editorial. From my example, the fate of a student media landed on the hands of an individual.

With issues like the extension of Reading Week despite split opinions, implementations of PDEng and most recently, IRS, sometimes I can't help but feel that the university administration is out to get us. It's easy to feel that our concerns are falling on deaf ears and to simply give up. Unfortunately, it's a catch-22 situation as it is hard to be represented if you don't speak out.

I've been hearing way too many complaints from people who don't do anything to voice their opinion. It's a wonder why they should be complaining if they didn't care enough to do anything about it. The least you could do is to vote in referenda, EngSoc and Feds elections. If you didn't, then you really shouldn't be complaining that you don't like the implementation of the University bus pass, for example. There is an Engineering Society election towards the end of this term and I urge you to participate. The fact that you're paying \$14 each term to support them and even more to support the Federation of Students, should be enough motivation for you to stay informed.

For this term, I challenge you, the reader to go out get involved and do something, maybe even something a little out of your realm, something you normally wouldn't do. It could be anything. Maybe it's something you've always wanted to do but have been putting off for a while.

You're probably thinking, "Well Sunny, not everyone is as insane as you, what can I do instead?" You can start by telling us how much better we are compared to *that other* on-campus publication by e-mailing us at iwarrior@engmail.uwaterloo.ca (just kidding, we don't actually need anyone to point out the obvious - I kid, I kid!). But seriously, whether it's joining a student team (we covered a couple of them this issue), forming a campus rec team, taking up a new hobby, participating in an EngSoc event, organizing a class event, attending cross-campus events, going to a Warrior Weekend, joining a cultural club, talking to an EngSoc or Feds exec (we've covered both parties in this issue) or a student council representative, submitting an article to us, or just send us a letter to let us know how we're doing. As EIC this term, I make it my goal to cover all the bases and discuss issues that appeal to the broad demographic of the student body so you can get more involved. This issue for example, in addition to what I have already mentioned, we have an Anime column and a fashion column, thanks to the wonderful contributors and staff writers of the Iron Warrior. We're even working with the EngSoc P**5 directors this term so you can win P**5 points by finishing our challenging Cryptic Crossword puzzles and trivia. There are many ways to become active. The possibilities are endless and it's all up to you.

THE IRON WARRIOR

The Newspaper of the University of Waterloo Engineering Society

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

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

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

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Send your submissions to iwarrior@engmail.uwaterloo.ca

Comments & suggestions are welcome

Meetings every Monday, 5:30pm in CPH 1323B

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EngSoc Honours 2008 Paul and Paula Plummers

THE IRON WARRIOR NEWS BUREAU

The Engineering Society honoured eight members of the graduating class of 2008 along with one of their former classmates on March 29th at the annual Engineering Graduation Ball by presenting them with the Paul and Paula Plummer Award. Commonly called the P&P Award, it is the most coveted and prestigious award presented by EngSoc and is given to students who have demonstrated an overwhelming commitment and a commendable amount of contribution to the society during their time at Waterloo.

Tyler Gale and Amanda Hoff, Presidents of EngSoc "A" and EngSoc "B" respectively, announced the winners at Grad Ball. The winners from A-Soc were Bahman Hadji, Todd Radigan, Jay Shirliff, and Ruth-Anne Vanderwater, all from Computer Engineering, along with Evan Thor, a former classmate of theirs who withdrew from the program after their 2B term. B-Soc honoured Greg FitzGerald from Mechatronics, René Marchand from Electrical, Evan Murphy from Computer, and Adam Neale from Electrical.

Each of the students was nominated at an EngSoc Council Meeting by one of their peers during either the Fall or Winter terms, and a presentation was made at the following meeting by the nominator outlining the nominee's accomplishments and why he or she deserved the award. Each of the recipients was deserving in his or her own way and made outstanding contributions in different areas affecting EngSoc that convinced the executive to award them the esteemed honour. While each held numerous directorships and



The 2008 Paul and Paula Plummer Award recipients at Grad Ball. From left to right: Evan Thor, Greg FitzGerald, René Marchand, Ruth-Anne Vanderwater, Adam Neale, Todd Radigan, Evan Murphy, Jay Shirliff, Bahman Hadji.

showed a great amount of dedication to the society, they also went beyond and left their mark on the school for years to come.

For A-Soc, Bahman was Editor-in-Chief of The Iron Warrior (Spring 2007) and a Co-Chair of the Graduation Committee. Todd was VP Finance (2006-07) and part of the Engineering Orientation Committee (FOC) as HEADCOM in 2006. Jay ran a campus-wide charity fundraiser, raising over \$20,000 for the Canadian Cancer Society. Ruth-Anne was President (2006-07) and oversaw such initiatives as the successful constitutional amendments of 2007 that defined a relationship with the Waterloo Architecture Students As-

sociation and streamlined the process of amending the constitution. Evan, during his two years at Waterloo, was one of the most active class representatives EngSoc had ever seen and inspired his classmates to get involved.

For B-Soc, Greg was VP External (2006-07) and part of the Engineering Orientation Committee (FOC) as a SuperHuge in 2007. Evan was one of the most active members of EngSoc, having been a SuperHuge on the Engineering Orientation Committee (FOC) in 2006, Co-Chair of the Graduation Committee, and having run for Exec positions twice. René represented Waterloo at the provincial and national levels at several conferences

and through his position as the Canadian Federation of Engineering Students Commissioner for Complementary Education. Adam was VP Internal (2006-2007) and was involved in bringing back the age-old EngSoc tradition of the termly family photo.

While every Waterloo Engineering student can proudly call themselves a plumber after receiving their hardhat during Frosh Week, only a few each year get to be Paul and Paula Plummer. For their efforts, the winners were presented with a plaque and a mug, and their names were engraved on a plaque mounted in the Orifice that lists winners from previous years going back to the early 90s.

New UW Mini Baja Vehicle Unveiled



Last Thursday, WOMBaT (Waterloo Off-road Mini Baja Team) proudly unveiled their new vehicle at the Research & Technology Park along with a rebirth of the previous year's vehicle. The Iron Warrior was able to interview several team members during the event. The team started in 2001 and has spent countless hours designing, competing and improving their vehicles. As of this year, there are two teams: the junior and the senior teams. Both teams will be competing in the upcoming Midwest Competition being held by SAE in mid-June.

The senior team consists of around 13 fourth-year students who started the project last summer, and it was near completion by the end of last August. The team has continued to work on and improve the vehicle since January. The project consisted of a new vehicle which was built with a new frame and air-shock suspension, and a better gear-ratio for improved acceleration. To assist their progress, two different design projects from team members dealt with the suspension of the vehicle.

The vehicle was also lengthened by about 4 inches, but managed to be lighter than the previous vehicle by about 70 pounds. The current vehicle now weighs about 400 pounds, compared to the 478-pound vehicle from the previous competition. Most vehicles that finished in the top ten last year weighed less than 400 pounds, so the senior team hopes the lighter weight will give them an advantage in the competition. The vehicle also features anti-roll for greater manoeuvrability, with safety in mind, as it is extremely important.

The competition is in about two weeks and the team aims to be in the top 25 this time

around. When asked about the greatest challenges the team has faced, Kader El-Fityani, a 2008 Mechanical Engineering graduate, said that getting people to work together was very difficult. Coordination between everyone was very important since a minor change to any part of the vehicle components would affect other parts. The smaller budget compared to other teams in the competition also made this project quite challenging. It was also hard to predict the terrains and loads of the competition site which would greatly affect the design of the vehicle. El-Fityani says the vehicle is 99% complete and competition-ready. It should require only a few more hours of testing.

The junior team started work on its own vehicle since last September. The team of 7 second- and third-year students were working on-and-off the project since last Fall. This team did not build a new vehicle, but instead maintained and made improvements to last year's vehicle for the upcoming competition. This allows the students to gain experience while working with the guidance of fourth-year students. Thus, they will be able to ap-



WOMBaT is gearing up to compete in next month's SAE Mini Baja Midwest Competition. The team unveiled their new vehicle, above, and took it for a few test drives around Research & Technology Park.

ply this experience and knowledge when they need to build their own vehicle next year.

Katherine Olsen, a 3A Mechanical student says that this team provides great experience for what needs to be designed, and is an excellent way to learn the design principles, the manufacturing process and the proper way to make things. Some of the greatest challenges would be the fact that standard parts cannot be used, since these are prototype vehicles. This meant many parts had to be made from

scratch. Improvements to last year's vehicle included a new steering rack, and changes to the distance of braking to comply with this year's new standards. Olsen mentioned that only superficial things are left before the vehicle is ready for competition.

Both teams are always looking for new members. Anyone is welcome and it's a great way to gain experience. For more information, visit their website at: <http://www.eng.uwaterloo.ca/~baja/>

Where in the World is the Bomber Patio?



SPENCER MCEWAN
2B ELECTRICAL

Spring is once again upon us. Amidst the blossoming trees, skimpy clothing and the return of goose droppings all over the sidewalks, there is a large void on our campus. It takes the shape of an ugly, six-metre-deep hole residing next to the Student Life Centre. That hole has replaced Bomber Patio; the patio attached to the Bombshelter Pub in the SLC that has become a staple of summer living for UW students over countless summer terms of years past.

In preparations for the University of Waterloo's brand new Quantum-Nano Centre on the B2 Green, Bomber Patio was disassembled to extend service tunnels from underneath the SLC to the location of the new building. These tunnels will carry heat, water, electricity and other utilities into the new building. The tunnels will be extended a certain length towards the B2 Green, buried, and then connected to the brand new building when the next phase of construction begins. Once the tunnels are finished, the patio will be restored to its former glory. Construction began on the tunnels last fall, and was scheduled to be finished by May for the start of the Spring term. However, as June rolls around, the area still resembles a hole in the ground, and not the patio we all know and love.

Bomber Patio has become a fabled place of enjoyment for Waterloo students past and present. Every summer term, students congregate to enjoy the soft wind and the warm sunshine as they eat and drink. Bomber Patio is the place to hang out with friends, meet new people,

and spend countless hours dreaming up ideas for fourth-year design projects. Bomber Wednesday is amazing with the patio open for business. Some upper-year Engineering students go as far as saying that Bomber Patio is the best part of summer on campus. This being said, we are at a loss so far this term. As the sun shines down on us, and the days of summer term start to pass us by, there is both a hole in the ground, and in our hearts.

Students are not the only ones who are suffering. The Bombshelter's business has also been negatively affected from the construction. Patio-dining is very prevalent in the Kitchener-Waterloo area. A stroll up University Avenue or down King Street will yield countless establishments with patio areas, where people of all ages gather to enjoy food and drink in an outdoor setting. Many students are forgoing the Bomber in search of such venues. The loss of the patio area has also significantly reduced the capacity of the Bombshelter by almost half. With Bomber Patio open, the capacity of the pub is roughly 500 peo-



The Bomber Patio is currently closed for business as construction continues to extend service tunnels from the SLC to Biology 2 to set way for the construction of the Quantum-Nano Centre on the B2 Green. The original schedule had called for the extension to be finished by this month.

ple. The absence of the patio puts capacity at around 250 people, all of whom would be seated inside the pub. In short, the Bomber's business has been hurt on multiple fronts, and the longer construction takes to complete, the more money the pub will lose.

The biggest question on everyone's minds is when our beloved Patio will finally reopen. At this stage in construction, it looks like only time will tell. The original completion date was set for May. At this point in time, the comple-

tion date has been pushed back to June. As this article has been written, the hole is slowly being filled back in. However, with the Quantum-Nano Centre groundbreaking set to happen next month, it is anyone's guess when Bomber Patio will be open for business. For many of us, these next few weeks will be a test of patience. Come back, Bomber Patio. You mean so much more to us than a hole in the ground does.



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The John Fisher Award for Leadership is made to a graduating student who has shown outstanding leadership throughout the student's academic career in activities that relate to Engineering Education. These leadership contributions can be associated with the Engineering Society, the Departments, the Faculty, the Sandford Fleming Foundation, and with other activities with a professional orientation.

The award consists of a certificate, a citation and an honorarium of \$1,500. Funding for this award comes from the engineering student contributions and depends on them for continuation.

**E2-3336, Extension 84008, sff@engmail.uwaterloo.ca
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New Feds Execs Discuss Up and Coming Plans



SUNNY NG
4A COMPUTER

On May 1, 2008, the new Federation of Students (Feds) executives that were voted-in by UW undergraduate students back in February took office. I had the pleasure to chat with the four executives who were kind enough to take time off their busy schedule to reflect on the previous exec team, discuss on-going initiatives, and reveal future plans. The 2008-2009 team consists of President Justin Williams, VP-Administration & Finance Del Pereira, VP-Internal Andrew Falcao and VP-Education Andres Fuentes.

The new Feds executives may find it challenging to live up to the predecessors' reputations because of the many praises received by the previous exec team. Feds' businesses were an example of that. Federation Xpress, the Bombshelter Pub, and Federation Hall have seen improvement in a number of areas. VP-Internal Falcao brought up the Feds' Services Review conducted last term, which was a report that re-examined how the Feds Services such as GLOW, Women's Centre, Food Bank can better serve the students. He said that there were many great suggestions and issues that were brought up with that.

Although VP-A&F Pereira did not deny that there were some "early hiccups," he was quite pleased with the implementation of the Universal Transit Pass (UPASS). Pereira mentioned, "When I first came here, I didn't really understand as all the other schools have them." He also talked about the great improvement with the Student Health and Dental Plans as they are expecting a surplus this year.

When asked about what could have been improved last term, Pereira – who is the only member serving a second year on the team – thought that they were being too ambitious. One example of a plan that never took off was the census, which was supposed to obtain feedback and suggestions on students' needs. He mentions that, while the idea was excellent, it would be difficult to implement. He estimates that

it would take a year of planning to come up with quality questions.

Williams pointed out that even though the Feds Gala had a good start, "From being at the event, the actual honouring of the actual people being honoured wasn't fully done." He explained that the idea and the initiative of honouring leadership on campus with such a grand event were great; the implementation, however, could have been better.

Since the execs have been in office for nearly a month now, we touched upon on-going initiatives from each member. VP-Education Fuentes wants Engineering students to know that he is currently looking into the issue of Differential Fees. This is an investigation of the difference in fees when a student from a regulated program takes an unregulated course, such as an Engineering student taking an Arts course. He plans to bring up this concern with the ministry in addition to talking with the administration. He also hopes to work with Engineering students on resolving this issue. Aside from that, Fuentes is looking into making post-secondary education more accessible to Aboriginal students, attending meetings with the Co-op Student Council, and working on JobMine 2.

Falcao is implementing changes such as creating procedures and better structures for Feds' Services as suggested by the Feds' Services Review. He also mentioned that he is currently organizing with GLOW, transportation for UW students to attend Pride Week in Toronto for \$10. Falcao guarantees that it will be fabulous.

Pereira is busy with Health and Dental Plans and drafting a budget for the fiscal year. He is also looking at renovations, including ideas for the former Aussies space in the basement of the Student Life Centre. There is also a new Halal food outlet in the SLC, Curry Up. The business is going very well, helped in part by the traffic within the SLC. They are still working out the kinks to explore which dishes are doing well and to make sure popular options are available, such as making it possible to have Butter Chicken with Na'an. They are planning a big launch for the outlet in September.

Williams is starting a review on Ori-

entation Week to ensure that it is serving its purpose and is also looking to improve sustainability with Feds' operations. He is also looking into further improving the website. When asked about what changes we can expect to see on the website, he mentioned the possibility of an anti-calendar for course/professor-reviews, housing listing/reviews and volunteer opportunities. The latter two ideas could also end up being a joint initiative with Wilfrid Laurier University.

Williams would also like to advertise the recent changes made to the UPASS to all students. It was determined that it was unfeasible to implement a card-swiping system on Grand River Transit buses. As a result, a different deal has been negotiated so that the UPASS can now be used during co-op terms as well. Since the difference in the fees between the previous deal and the new deal is less than the administration fee taken to implement the card-swiping system, the UPASS will actually now cost less to students.

"Right now, we feel that [the Writing Clinic and the ELPE] don't fully meet the needs of students. The ELPE is more of an inconvenience..."

Looking forward to the future, each exec member talks about long-term goals. Fuentes would like to review the Writing Clinic and the ELPE. "Right now, we feel that they don't fully meet the needs of students. The ELPE is more of an inconvenience for students than something helpful. And, those that need help with writing are often left waiting for another term." He also hopes to review teaching quality of the university with the Ontario Undergraduate Student Alliance, review OSAP, and survey the needs of Teaching Assistants and students.

In addition to administrative duties with the Health Plan and the businesses, and renovating the now-vacant Aussies space, Pereira is planning another major renovation. He believes that a solution to Fed Hall is a facelift, Pereira explained. "Let's face it: the building was built in the 80's." He plans to hire a consulting firm

to come up with several plans on what they can do with the space.

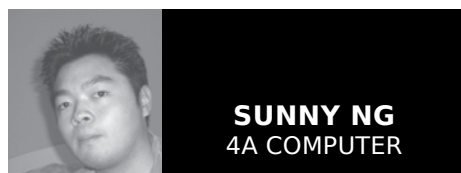
Pereira would like to bring back the Special Events Coordinator position to organize more cross-campus events like concerts. He would also like to bring in more under-aged programming. Pereira is thinking of using the former Aussies location to cater student societies' CnD's since Feds already provides catering service to Federation Xpress, but he would have to explore the business model before this can happen.

Falcao plans to focus on communication with building a community on-campus and off-campus. He would like to strengthen Committee of Presidents (COPS) by having regular meetings and visit society presidents on a weekly basis. He said, "If we just pool all our resources and all our people together, we can get a lot more done." He would also like to break down the perception of "Feds elitism" as suggested in his election campaign, by presenting the Federation of Students for what it is, an organization that represents the students.

Williams would like to increase student involvement with the organization. He hopes to accomplish that by engaging first year students during Orientation Week, and even before they come to Waterloo. As well, he would like to work at the university-level to fulfill the needs and services of students at satellite campuses.

Lastly, I asked the execs how they intend to increase exposure amongst Engineering students. Pereira says that they find it challenging because while they are always there, UW has an "autonomous culture" where each student group, such as Engineering students, can function on their own. Unless this culture changes, it would be difficult to reach out to students all over the campus. However, both Williams and he agreed that with the recent renovation, the new Feds office looks much more inviting. Williams joked, "It also made the first day in office more grand, with the double doors." Fuentes concluded, "We're always here, if you have any suggestions, we're really good with e-mails or phone calls. We try to be in the office as much as possible. Any student can just walk in and talk to us."

Engineering Jazz Band Starts Up Again



SUNNY NG
4A COMPUTER

The Engineering Jazz Band – With Respect to Time has just finished up another fantastic term with a bang. The termly end-of-term charity concert was held at Hagey Hall for the first time on April 8, 2008. The show was hosted by '08 Mechatronics Engineering graduate, Matt Colautti who pumped out one cheesy joke after another. The event attracted around 200 attendees and helped raised hundreds of dollars for the Waterloo Region Food Bank and the Waterloo Chapter of Engineers Without Borders. The band would like to thank everyone who attended this event.

It's been a fun and busy term, as the band played at various events all over the campus including March Break Open House, Warrior Weekend, and the Arts Gala Formal. Additionally, the band had the opportunity to travel to the University of Toronto to play with their engineering stage bands. The band would like to thank its founder and director Ally Chan, '08 Chemical Engineering graduate for performing the administrative duties and making this band possible. The band would also like to extend its thanks to the Engineering Society

and the Federation of Students for their generous support.

With Respect to Time is back at it again this term, as band members both old and new have already gotten together and started rehearsing a new set of songs. The band plans to perform at various campus events this term including Canada Day, Student Life 101 and EngPlay. Of course, the band will be having its termly charity concert towards the end of the term. The band is still looking for new members,

namely tenor saxophone players, bassists, guitarists and vocalists. If you are interested, be sure to send an e-mail to info@engjazzband.com. Lastly, for the latest scoop on WRTT, be sure to check out their website at www.engjazzband.com.

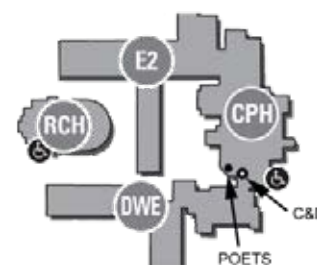


With Respect to Time
at Winter 2008 End-of-Term Charity Concert.

MORE THAN JUST COFFEE & DONUTS

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

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



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

ENGINEERING SOCIETY



ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



AMANDA HOFF
PRESIDENT

With less than 4 months remaining in my term, my focus in office must switch to tying up loose ends and preparing for my successor to take the reins. My primary goal for this term (as mentioned last term) is to strengthen the resources and information available for transition. Over the past term as I have been working closely with my A-Soc counterpart, Tyler (living together, eating together, attending meetings together, road tripping to Ohio together,...), I have had an opportunity to expand this goal from simply writing "EngSoc Presidency for Dummies" documents. It now includes organizing and streamlining existing documentation and supplies (not the least of which is contained in "Josh's problem", the 4-drawer filing cabinet in the Orifice), ensuring that important documentation is easily identifiable and readily available, and establishing precedents for regular staff meetings and consistent communication with the Dean of Engineering Office. I intend to take full

advantage of the fact that Tyler is present for the next couple of months to get as much of this taken care of as possible, as this is a very difficult feat to accomplish without feedback from those who are off-stream from us.

Of course, I will not be neglecting my Spring term duties along the way. Planning for Joint Council is well underway, and we have a jam-packed weekend full of awesome for you all. More details for that will be released in the near future.

I will also be supporting Tyler in continuing the new website project and creating a Policy Manual for EngSoc, and regular updates will be made on our progress throughout the term.

Following the staff performance appraisals last term, Tyler and I are also working on establishing better ways to manage the needs and responsibilities of our staff members.

Once again, I am looking forward to an exciting term and I welcome your questions or feedback!

And now, the rest of my report written has been written in the format of a mad lib for your reading pleasure. In case you don't know how a mad lib works, before you read the rest of the report, fill in the

following list of words. Then, insert your words in the same order onto the appropriate blanks in my report - and enjoy! My solutions are given on the right, if you're not feeling very creative...

Noun: _____	Past Tense Verb: _____
Past Tense Verb: _____	Faculty at UW: _____
Adjective: _____	Adjective: _____
Number: _____	Verb ending in "ing": _____
Verb ending in "ing": _____	Verb ending in "ing": _____
Noun: _____	Adjective: _____
Preposition: _____	Name: _____
Pronoun: _____	Verb: _____
Plural Noun: _____	Noun: _____
Past Tense Verb: _____	Verb: _____
Noun: _____	Direction: _____
Vowel: _____	Verb ending in "ing": _____

AMANDA'S MAD LIB SOLUTIONS

Computer, switched, delighted, 2, coming, work, under, us, amendments, presented, information, e, brought, Engineering, new, looking, using, Internal, Sunny Ng, do, office, up, running

VPED Report



PATT GILLIS
VP EDUCATION

Hope everybody had a great work term and you're all excited for the greatest summer term of all time!!!

To get right down to business one of my main goals for this term is to continue to work with the new Engineering Co-op Working Group (CWG) to establish a consistent set of standards to help regulate the evaluation of Engineering Co-op Work terms. The 3 primary goals of the CWG have been defined as the following: to set an appropriate standard for the handling of Work Term Reports to help create consistency across all departments; to determine terms of reference and specifications for a successful work term; and to define a charter for the co-op process, a brief statement of the goals of co-op and the responsibilities of employers, students, and the university toward meeting the stated goals.

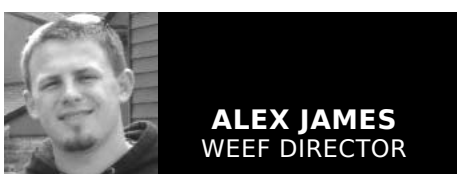
My second goal is to build on progress made throughout last term towards the establishment of the Academic Services Coordinator directorship and the building up of recent submissions to the Exam Bank and the Outstanding Work Term Report Centre. Although there was an increase in submissions to the Exam Bank last term there is still room for improvement. I plan to open discussions with the

faculty and the various departments regarding the possibility of approaching professors directly for Exam Bank Submissions with solutions. Last term I failed to actively recruit individuals with Outstanding Work Term Reports for the online bank, however this term, after speaking with the new Academic Services Coordinator, I feel we have a plan in place to increase awareness and hopefully submissions to the database.

Finally it is my goal to inform the Engineering student body of the findings of the PDEng Independent Review that was completed last term. Although it is my understanding at this time that the full report will not be released to the general student population, I will ensure that students are made aware of at least a summary of the report as well as the PDEng Department's plans to address any conclusions or recommendations that were made from the review. To that effect I also plan to continue to work with the PDEng Rep Advisors and the PDEng Steering committee to make sure student concerns are brought forward to the committee and addressed.

With all that being said, I'm excited for another great term. After meeting with all of my directors and determining our plans for the coming term I can honestly say I have full confidence that the term should go off without a hitch, and I think almost every student in Engineering should be able to find at least one thing to be excited about for the Spring 2008 term!

WEEF Director Report



ALEX JAMES
WEEF DIRECTOR

I hope that everyone's term has gotten off to a great start. The WEEF return period is now over, and I would like to thank all of my wonderful WEEF assistants for helping me out. Now that returns are out of the way, it's time to begin talking about proposals. The proposal period will be from June 2nd to July 4th. I'm aiming to get a large amount of proposals this term to ensure the efficient allocation of WEEF funding. You can find instructions on what kind of things you can get WEEF to fund

and how to submit a proposal from the website. Speaking of the website, my assistants and I are in the process of updating the outdated content on it.

I am also in the process of ensuring that every class has a WEEF rep. If your class doesn't have one, please let me know ASAP, or I will be contacting you in the near future.

Lastly, I have been given the honour to speak at the groundbreaking event on June 5th for the new Engineering V building towards which WEEF is contributing 1 million dollars!

If anyone has any questions regarding my report, or WEEF in general, do not hesitate to send me an e-mail weef@engmail.uwaterloo.ca.

First of all, welcome to the Electrical and (**noun**) Engineering students who just (**past tense verb**) over from A-Soc. We are (**adjective**) to have you with us for the next (**number**) terms. For all of you who are just (**verb ending in -ing**) back after your (**noun**) term, welcome back! I can't wait to get this term (**preposition**) way and see the exciting events the directors have planned for (**pronoun**)!

For everyone who was around and voted on the constitutional (**plural noun**) that the Iron Warrior put forward last Fall, it was (**past tense verb**) on A-Soc and eventually voted down. That means that the motion fails for both Societies. If you would like more (**noun**) on why it failed, feel free to send me an (**vowel**)-mail, and I will gladly discuss it with you.

Last term also (**past tense verb**) with it some new and exciting changes for the (**UW Faculty**) Society. The Orifice got five brand (**adjective**) computers for Directors and Exec members to use - so if you're (**verb ending in "ing"**) for somewhere to get started on your directorships this term, stop on by and take a look! If you are (**verb ending in "ing"**) your own laptop, however, please refrain from stretching power cords between desks, as this is a major safety hazard!

Another change that came about last term was a change in the A-Soc Executive. Lee-Anne Belcourt, Vice President Internal, is going on exchange next term, so her position opened up in a by-election.

Sarah Scarf (2A Electrical) was ratified as the new A-Soc VP (**adjective**), so be sure to welcome her in at Joint Council this summer!

Thanks in no small part to the hard work of this term's IW Editor-in-Chief, (**name**), EngSoc was able to release a Beta version of our new website last term! You can view this exciting new site at <http://engsoc.uwaterloo.ca/beta>. There's lots more left to (**verb**), though, so if you're interested in helping out, please e-mail myself or Tyler Gale. You can reach both of us at eng_prez@engmail.uwaterloo.ca.

Also, EngSoc has a new liaison with the Dean of Engineering (**noun**). Robin Jardin was hired last term as the Student Relations Officer for the Dean's Office, and will be working with EngSoc as well as with any students who are looking for funding, event support, and other opportunities through the Dean's Office.

And for my final point this week, I just wanted to give everyone a heads (**direction**) that our reign of terror is coming to an end this term and all five of our Exec positions will be up for election later this term. If you think you might be interested in (**verb ending in "ing"**) for any of these positions, please don't hesitate to come and talk to us to find out more!

All in all, it's a very rewarding experience and I would do it again in a heart beat, but it is time for me to think about graduating and letting go... who will be next?

VPX Report



ERICA WAUGH
VP EXTERNAL

Hey y'all, welcome to summer term!! I hope everyone had a great co-op. This article will be devoted to a bit of an accountability update. Last term some of my goals included maintaining relationships with ESSCO and CFES, and having a successful group of directors. I feel that I have done well in these respects.

ESSCO Relationship:

- Attended all ESSCO Conferences and Teleconferences
- Delivered all ESSCO PowerPoint Presentations in Fall 2007
- Gave ESSCO updates at all EngSoc meetings

CFES Relationship:

- Attended all CFES Conferences and stayed in close contact with CFES Ontario Ambassador
- Organized CFES ESSV (This did not happen but it was due to a last minute cancellation)
- Forwarded all CFES material onto EngSoc in a timely manner

Support Directors

- Emailed directors during co-op to get them started on their organization material
- Stayed in close contact with directors throughout the term

- This term I have met with or been in touch with all my directors to ensure all of their planning is rolling out smoothly
- I plan to attend or volunteer with all of my directors for their events

Maintain Professional Image of EngSoc outside of University

- Read all material prior to attending to conference
- Abide by code-of-conduct at conferences

- Only one conference this summer, I will be attending and will maintain professionalism on behalf of Waterloo EngSoc

These are just some of my goals that I have accomplished, I fully intend on pursuing all of these this summer. I will gauge my success based on the success of my directors and the success of the conferences I have attended.

Have a great term and please feel free to email me regarding anything I have written here or any other VP-External related questions!

VPF Report



CHRIS JAMIESON
VP FINANCE

So in my time as exec, so far I have learned a great many things but I think the two biggest things are most evident in my work... well okay not work, but lack of work in some areas. First of all, you will never have the amount of time you think you will. Be careful of how much work you take on. Second of all, things take way longer than you think.

The unfortunate part is that those were just excuses for my failures in the end. I quite simply didn't finish the POS or planning document as I expected I would. That is not to say however, that I did nothing. In fact they are very close.

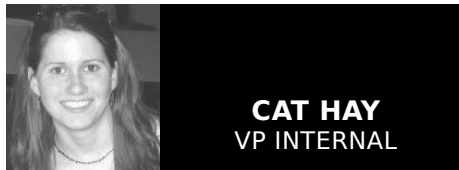
Over the next month or so we will be going through the process of adding our

inventory information into the database which will serve both the POS and the on-line implementation. Along with this we will be putting the system through some final verification testing. I would like to thank Emily Ecker and her models for taking pictures of all the items we have. Additionally, I have Jarek, one of the Finance Directors assisting me in this.

The business planning has turned out to be a much larger endeavour than I anticipated as it involves university regulations, required capital, and collaboration with A-Soc. Luckily, like the POS, I have a Finance Director, Han, helping me out with it. We have some big ideas which we want to work on before we reveal them.

As for the direct finances of the society, the budget will be approved by council on Wednesday May 28th (the day this paper arrives) and will be appearing in the next issue. Donation proposals are being accepted until June 2nd.

VPI Report



CAT HAY
VP INTERNAL

Welcome back to campus! We've wasted no time in getting the term started this spring. Read on for more info about the events we've done, what's coming up, and my goals for the term as your VPI.

Swanky Successes

- In the second week of classes we had an awesome turnout at our B**5 Big Bad B-Soc Bowling Bonanza! (Stay tuned for prize announcements at the next EngSoc meeting.)

- This week started out with Genius Bowl and Wheelchair Basketball.

Feeling out of the loop? Check out our weekly calendar outside the EngSoc office or subscribe to our online Google calendar ((search for "Engineering Society B").

Jubilant Just-around-the-corner Events

Some of the fantastic events we have coming up in the next two weeks include:

- Enginuity's "A Totally Tubular Task" (May 29 @ 11:30-12:30 CPH Foyer)

- Flying Circus SCAVENGER HUNT (May 30-31)

- Bandwars (May 31)

- World Environment Day (June 5)

- Skydiving (June 7-8)

Gotta-love'em Goals

1. Visit on-stream classes to discuss the role of EngSoc as a representative of the student body & explain the services we provide

- Current status: visited all first year classes during first two weeks of lectures

- Next steps: 2A, 2B, 3A classes

2. Enhance knowledge sharing about EngSoc events

- Current status: prepared detailed descriptions for all EngSoc events, including: event description, date, time, location, cost, age/student/transportation restrictions, contact info for appropriate VP and directors (available at the front desk of the Orifice)

- Next steps: work with whiteboard director to complete giant felt calendar of events (to be located in CPH foyer)

3. Work with Class Rep Advisor to support EngSoc class reps

- Current status: first class rep workshop held May 13, summary of council meeting minutes sent to all class reps

- Next steps: develop biweekly/monthly workshops on topics requested at first meeting

4. Improve regularity of event calendar throughout term

- Current status: All internal events are spread out throughout the term to avoid "crunch week" in July when most students are already busy with course work

- Next steps: Work with directors to ensure necessary timelines are met throughout term

5. Improve executive transition materials

- Current status: developed comprehensive transition document outlining the roles and responsibilities of VPI, term timelines, copies of all forms, detailed descriptions of directorships from a VPI perspective (including previously granted budget values), and a start-of-term checklist

- Next steps: review/organize existing files on exec drive

How to Win with P**5

SASHA AVRELINE, PETER KELLY, & SYLVIA WU
P**5 DIRECTORS

Greetings! Your Spring 2008 P**5 Directors--Sasha Avreline, Peter Kelly, and Sylvia Wu--would like to welcome you back to school with 3 huge high fives and a ridiculous amount of cash to be won!

What cash you ask? The class that accumulates the most P**5 points will receive a prize of \$500! The runner-up class wins \$300 and the class that comes in 3rd gets \$150! This could be the start of a class trust fund, or be blown away at Molly's in one night... the possibilities are endless!

P**5 (pronounced P to the Fifth) stands for Paul and Paula Plummer Participation Points. You can win P**5 points by doing virtually anything: attending an EngSoc meeting, helping out with EngPlay, sending photos and articles to the Iron Warrior, buying shirts at Novelties on laundry day, etc. Again, the possibilities are endless! To see a complete list of point sources and the constantly-updated ranking list, visit <http://engsoc.uwaterloo.ca/www/p5.php>

The P**5 coupon will be the main way to submit points for your class. You get these at certain events (such as MOT), and they can be deposited into the Sexy Box, which is either present at the event or in the Orifice. It is highly recommended that your class elects a P**5 Rep to keep track of miscellaneous points, such

as varsity participation. These points can be emailed to bsoc_p5@engmail.uwaterloo.ca. Any questions can also be sent to this address.

We will be holding bi-weekly contests this term, prizes are of course P**5 points! The contest to kick start the term is: **Best Story from the Work Term**. Send in your class's best story (or stories) from the Winter 2008 work term for 1000 points each. The winning class will be announced at the next EngSoc meeting (June 11), and it will receive an additional outrageous bonus!

We also have a term-long contest: **BEST VIRAL VIDEO**. It must be filed and produced by your class. The result will be announced at EOT.

Rules for participating in the P**5 race:

- Do not cheat. Your class will lose the amount of points that you try to cheat for.

- Do not vandalize the Sexy Box.

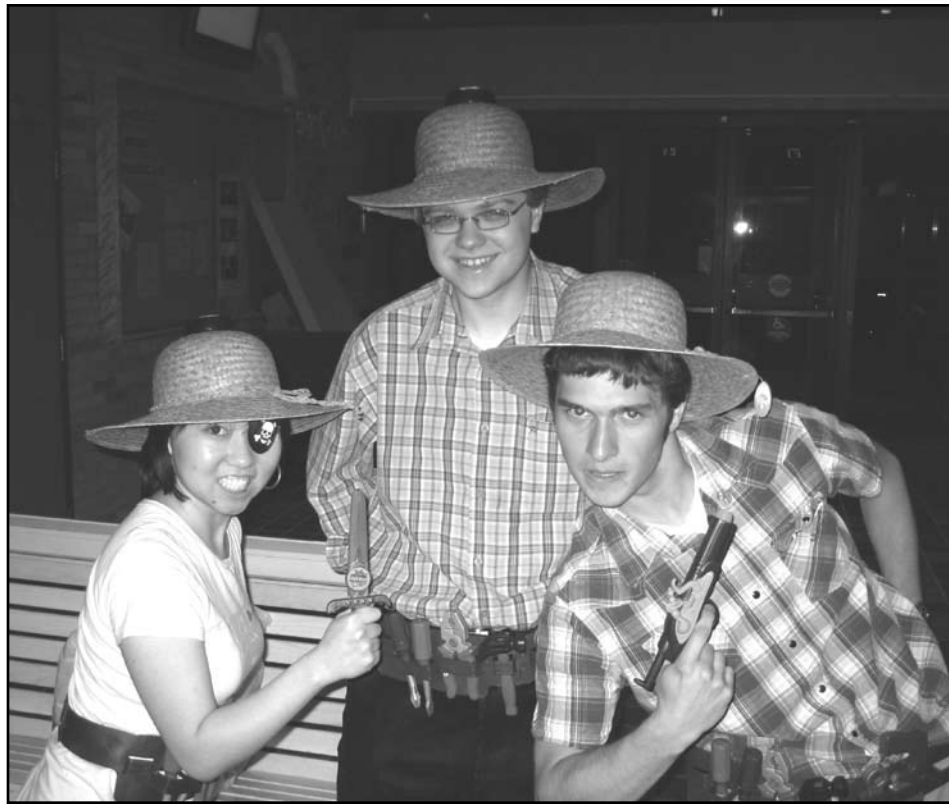
- Do indicate your name and class on each coupon and at every event registration. If we cannot identify you, we will not award points.

The main change to this term's P**5 rules are:

- Points for class parties are now awarded according to the percentage of classmates in attendance.

- BONUS Points will be awarded to the class (not in top 5) with the greatest jump in rankings each month.

Have fun battling for cash!



Your P**5 Directors: Sylvia Wu, Sasha Avreline & Peter Kelly. Look out for them at an EngSoc event near you to win some cash prizes!

Big Bad B-Soc Bowling Bonanza Makes a Comeback



ANNA LAFOYIANNIS
3A ENVIRONMENTAL

On May 15, 2008 a bowling competition of immense proportions was held. With creative names such as Sex Panther, Car Ramrod and DUSHED (Drink UnSuspecting Small House of Erica Dry), it was clear the competition would be fierce. Despite any tomfoolery and/or BEVERage-affected antics that may have occurred, the Big Bad Bowling Bonanza was a tough contest.

The first game was pretty calm. Most players tried to take the time to home

their bowling skills and help each other out. For one player, a very successful trick was aiming through the legs of another player. By game two, the players were confident and ready to play some aggressive bowling. Not only did they improve their own game, but learned the value in bringing down their opponents' games.

The night had to come to an end when Waterloo Lanes decided to kick out these ruckus engineers (or "close" as they called it). The scores were tallied and the winner was decided. It was close, but with the help of bowling extraordinaire Patt Gillis, team DUSHED was declared the winner.



Erica Waugh and Cat Hay represented the B-Soc Exec in fine form.

Social Entrepreneurship Boot Camp



KEVIN LING
1B ELECTRICAL

After the success of their 2007 Waterloo Conference on Social Entrepreneurship, the Laurel Centre for Social Entrepreneurship has come back to Waterloo to help more young minds achieve their goals. Their first three-day event, which was organized in just a month and half, saw over 200 participants from all around the globe. This time around, the Laurel Centre ran an intensive three-day boot-camp from May 12 to May 14. The event was opened to anyone who wanted to gain more knowledge and develop the skills necessary to become an up-and-coming social entrepreneur, including members of the general public.

"Social Entrepreneurship combines the passion of a social mission with the discipline, innovations and knowledge of traditional business fields," according to Laurel Centre's Director of Communications, Suzanne Gardner.

The Laurel Centre's goal is to provide individuals, who have ideas for social change, with the business skills they need to get something started. They help individuals who are looking to start non-profit organizations or businesses which promote sustainability, social justice, or aim to solve other social problems.

The event was not aimed towards a specific field or major and the 30 participants came from a variety of backgrounds including: Economics, Computer Engineering, Psychology, Mathematics, and Speech Communication. Participants in the boot camp attended workshops, presentations,

and collaboration sessions from day-to-night for three days.

Gardner said, "The intimate nature of this event... allowed the attendees to gain a hands-on learning experience on how to improve their ideas for social change by employing traditional business skills."

The participants also received insightful lectures on sponsorship, generating revenue, marketing, and working with the media. Guest speakers included Bob Copeland (Associate VP-Development, Office of Development at UW), John Baker (CEO, Aperio Inc.), Alan Quarry (CEO, Quarry Integrated Communications), and Christian Aagaard (Deputy City Editor, The Record). The event gave participants the chance to get individually-tailored advice from people with experience in entrepreneurship.

Overall the response from the participants was very positive. The Laurel Centre plans to "host even more successful boot camp events in the future", said Gardner.

Following up on the success of their last Waterloo Conference on Social Entrepreneurship, the Laurel Centre's next planned initiative is the Second Annual Waterloo Conference on Social Entrepreneurship.

This year's coming event will take place in November 2008 and it will focus on the areas of health leadership, education, and international development.

More information about the organization can be found on their website at <http://www.laurelcentre.ca>.

Maplesoft Celebrates 20 Years



BRYAN SACHDEVA
4A COMPUTER

If you're in ECE or you simply like having your computer solve integrals for you, then you've undoubtedly heard of a nifty piece of software called "Maple". On April 17th, Maplesoft, the creators of this famed product, celebrated its 20th anniversary of being a corporation. The anniversary couldn't come at a better time, with the company experiencing incredible growth. To quote previous media coverage of the milestone, "this year also marks a significant growth period, with revenues from the commercial sector, a focus area for the last five years, rising by 95%" (Maplesoft, 2008). But what does that mean for us as engineering students? To be honest, I'm really not sure. Sunny, our fabulous editor-in-chief (and my boss), asked me to dig up some information for you. So here goes...

When thinking about Maplesoft, there is one person that comes to mind that you might know. If you've had to take a Data Structures and Algorithms course or you know the term "n-p completeness" then you most certainly know the man who taught it to you, Mr. Douglas Wilhelm

Harder (or just Harder if you're talking to your friends). If you didn't know already, Harder worked for Maplesoft and worked on Maple itself. In his opinion, "[Maplesoft] is a really fun company to work at. They have a gym now, too." When asked what the most fun part about working at Maplesoft is, he replied, "The people and the projects, in that order".

When thinking of math software, most people would think of either Maple or Matlab. To the layperson, these would both be math tools. But, they are fundamentally differing products. Harder explains that, "Basically, Maple recognizes variables without values as a placeholder, or 'symbol' which could take on different values. [...] You can't do this in Matlab or C++ because every symbol must have a value associated with it. [...] Thus, in Matlab, if you wanted to solve [a] differential equation [then] you would have to use Euler's method, while with Maple, you type [it] in". But, with all its computing power, I wonder if Maple can solve the integral of e^{x^2} .

If this talk of Math software interests you, or you're simply looking for a fun place to work, you might want to consider Maplesoft for a co-op term. Harder draws from his experience to give us these useful tips when considering working at Maplesoft:

"There are a number of co-op positions at Maplesoft, so some are appropriate for first or second year students and others would be great for fourth-year students. Maple does do a lot of research and innovative tools, but there can be a steep learning curve. The GUI group may be better for ECE students but there may be interesting things in the Math group. I don't think the Kernel group does much. Marketing can also be a lot of fun at Maple."

Happy Birthday Maplesoft!



Sandford Fleming Foundation

Professionalism.
Leadership.
Communication.

There's more to an engineering education than engineering.

Sandford Fleming Foundation Debates

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

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

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

Refreshments will be served at the finals.
Everyone is welcome!

Emergency Loan Funds

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

Student Travel Grants

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

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

UWAFI Places Fourth Overall in Challenge X

EQUINOX COVOY IN D.C. Continued from Page 1

Our vehicle was also showcased along with the other teams at Tavern on the Green in Central Park where the media was to come and test out the vehicles around a 1.8 mile track through the park. We had quite a showing with a significant line up of people waiting to try the only fuel-cell series electric-hybrid vehicle in the competition.

We then prepared for a long rally from New York to Baltimore. Unlike the other teams in the competition who have all taken numerous road-trips with their vehicles, ours has only strayed off of Ring Road or North Campus a handful of times, and those times were typically just for dynamic testing or for the competition in previous years. Unfortunately, hydrogen refuelling stations were few and far between which means that our adventures were always limited to day-trips. This is the first time that we've actually tested the Equinox in real life situations, hence the air of concern as we prepared for departure.

Even more troubling was the fact that it was raining. At last year's competition we discovered that rain inside the engine bay could cause problems if all of our wiring or electrical components were not properly waterproofed. Since that time we've done considerable work to counter these problems but again, testing at highway speeds has been non-existent.

We completed the rally with our two co-team captains, Chris Haliburton and Charles Hua, driving for 6+ hours. Making it to Baltimore was a huge confidence builder for us as we have never driven that far before or through such bad weather. We completed the rally by driving to Washington, D.C.

In Washington, D.C., we had the pleasure of visiting the Canadian Embassy. The Canadian Embassy is the only embassy located between Capitol Hill and the White House. We were met by Minister Kevin O'Shea who took our Equinox out for a spin. We even got a sur-

prise visit from the Canadian ambassador to the US, the Honourable Michael Wilson, who was very interested in the vehicle and posed for several pictures.

Awards were handed out later that evening and UWAFI faired quite well taking away 3rd place in the National Instruments Award for Phil Lockhart's presentation about his graphical user interface programming which is the brain behind our in-console touchscreen. We received 3rd place in the MathWorks-sponsored award for Charles Hua's presentation on our use of MatLab in the vehicle design 1st place for Media Relations, as well as 1st place overall for Outreach. Some of the other key successes were gold medals for emissions, well to wheels petroleum energy use, control strategy presentation and the AVL drive. Most importantly however was the announcement that UWAFI placed 4th overall for the entire competition!

The finish line event on the last day of Challenge X took place right beside the US Department of Energy building. The convoy of Equinoxes arrived, paraded and were parked on display for the media to see all 17 completed cars of competition. The top three overall teams were announced by Ambassador Wilson, Beth Lowry (GM VP of Environment & Energy) and the US Secretary of Energy Samuel Bodman. Third place went to Ohio State University, second place went to the University of Wisconsin Madison, and finally first prize to Mississippi State University all of whom had built biodiesel electric-hybrids. All of the top three used the same 1.9L GM diesel engine and applied different control strategies to manage the power draw between the turbo or supercharged engine and the battery pack as well as employed different methods of cleaning-up the exhaust. Mississippi State was actually able to increase the fuel economy by 38% and even beat the stock vehicles' quarter-mile time, which goes to show you the kind of improvements that can be made with existing technology and where we could be in



UWAFI's Challenge X vehicle at the Maryland Science Center.

just a few short years.

After the Challenge X wrapped-up we went across the street to where they were announcing the accepted entrants to the next challenge – Ecocar. Ecocar is another competition similar to Challenge X, but the vehicle will now be the Saturn Vue with differences in rules and criteria. After the announcement it was con-

firmed that Waterloo would no longer be the sole Canadian representation as the University of Victoria and the Ontario Institute of Technology in Oshawa would also be competing.

So here's to the future and the exciting innovative technologies to come. Stay tuned for the developments with Ecocar.

Open Bar: The New Trend in Campus Recruitment



MICHAEL SELISKE
1B COMPUTER

The University of Waterloo is famous for their high tech and engineering students and grads, it's sometimes known as the MIT of the north. This distinction makes it obvious that companies from all over the world want co-op and graduate students working for them. How do they get people to become excited about their company? Well this issue is open to debate as some companies play it low-key and have a lunch time session with free lunch and pamphlets. Some companies play it up a little bit and have a fancier lunch and a free giveaway or two, as well as some free swag available. Some offer free dinner with multiple raffles and bikini-clad recruitment officers, okay maybe not the bikini part but many companies spend a great deal of money trying to get you, the students of the University of Waterloo to work for them.

This past week had a double header of high-tech hip companies offering free beer and a promise of great opportunities. First up was the Nuvation presentation on Wednesday offering good food and free beer as well as a draw for an Asus Eee PC. In talking to the President and CEO Michael Worry (UW Electrical Class of '97 and the genius who persuaded Mary Bland to come to Engineering from Math), I gained perspective on what these companies expect to gain from these recruitment events. "We want people to come away from this presentation thinking that we are the Engineering SWAT team, any tough challenge we will take it in stride." In listening to questions after the presentation it was clear that many people had never heard of the company and are now intrigued and

excited about them. When questioned about the open bar, he said that food and beer are always a good way to persuade people to come. He said it wasn't for the company image, just a good way to persuade people into showing up. A large number of people came up after and introduced themselves and when asked about whether a face-to-face meeting improves your chances of getting a job he said, "Sure, but make sure you let me know by throwing a little comment in the email." The open bar was taken advantage of, but most people did not seem to notice it as much as the amazing presentation, one attendee mentioned that "it blew [his] mind".

The very next day was the termly event put on by Sandvine at the Bomber with a slightly different atmosphere to be had. In talking to head of recruiting Dan Williams, and co-founder/VP-Engineering Brad Slim, it was apparent immediately that they didn't believe in going over the company finances or doing very technical presentations about the company because the best way to learn about a company is to chat with the people who work there. "People are our biggest assets, and although technical skills and making money is important, people are always our top priority." These events started a few years ago when they wanted to answer the question "Sandvine who?" and what a better way to do it than beer and food. When asked about what kind of an image they are trying to portray, "We work hard, we play hard; and that it's not an idea, it's a belief system. People need to love what they do and we try and provide that atmosphere." They believe that if they have a boring recruitment event, the company will come off as boring and they don't want that, "I want to have fun too."

Amongst the food and beer, there was

also a great deal of information exchange and career/job hunting going on as well. This year all attendees were required to bring a resume and when asked if they will actually be looked at Mr. Williams said, "Absolutely, we will have all of these [résumés] looked at by tomorrow morning and people we are interested in will be getting calls or e-mails from us letting them know we are interested and encourage them to apply." The event in general is a win-win for all who were involved as the employees got to have some fun and talk to eager young students and the students got to network and have some fun while doing it.

Both events despite having an advertised open bar were slightly different atmospheres but both seemed to work in that company's fa-



vour. One event tried to portray their amazing technical knowledge and amazing accomplishments, where the other wanted to show how fun it was to work there. Judging from reactions by attendees, both companies accomplished what they set out to do.



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POINT VS. COUNTERPOINT

POINT

COUNTERPOINT

Should Students Rely on
CECS to Find a Co-op Job?
BRYAN SACHDEVA
4A COMPUTER

Though many of you may not think of Waterloo as the most exhilarating city in Canada, there is good reason for you being here. Undoubtedly, you chose to come to UW not for its promise of scintillating social life, but rather for the benefits it would afford you in terms of your career. And what exactly are those benefits? Reputation, academics, and most importantly job experience. The question before you, however, is whether or not to reap these benefits through JobMine and CECS. Put simply, the status quo is that most students do use JobMine, and for good reasons.

First and foremost, you should be using JobMine and CECS because you pay so much for it. Your co-op fee is there for you to have access to industry-leading companies that are looking to hire. You're paying for the privilege and the reputation. CECS at the University of Waterloo is one of (if not the) best co-op offering in the country. It makes no sense for you, a mere student, to think that you have the ability to do better than this well-established system.

The very concept of JobMine should be reason enough for you. The fact is that employers registered with CECS are looking to hire. They have positions available and actually want students to fill them.

If you've ever tried to knock on the door of a company outside of JobMine, you'll know that you have to do the convincing to get them to want to hire you. JobMine employers are already convinced, all you have to do is sell yourself.

If you're reading or have read the counterpoint article, you may have been given the impression that this is "babying" us, something along the lines of giving a man (or woman) a fish rather than teaching him (or her) to fish. But the analogy here is more like: give a man (or woman) a fish and then he (or she) will know what fish tastes like. The key is to get you the job experience and a feel for the industry you're in. This brings us to the third and final reason for going through JobMine, gaining industry knowledge and a good feel for different positions.

As the counterpoint article suggests, you can try to figure this out yourself and get stuck with whatever handout you can get your hands on. Or, you can interview with several employers and get to know your industry. That way, when you do graduate, you'll have interview skills as well as knowledge of what to expect in terms of employers and what they're looking for.

To sum up, everyone is already using JobMine for good reasons and you should too. While looking for a job in the real world is not quite this easy, securing the job takes serious industry knowledge and experience. Getting these tools is exactly what you pay for.


AKANKSHA VYAS
1B COMPUTER

Your years at university are said to be the most fun years of your entire life. Some say it's because of all the newly-acquired freedom, or it may be because most of us are finally old enough to drink. I, however, feel it is because they are the last years of your life when you can afford to be irresponsible; messed-up eating habits, lack of sleep and many more mistakes that are crucial in each of our lives. Beyond the math and crazy physics, the most important lesson we learn in university is the ability to survive in the world that awaits us after graduation. We learn how to support ourselves in a world where there are no parents, and the most essential part of survival is finding employment and earning a living.

Co-operative education is an educational model that formally integrates academic studies with relevant work experience. It gives us hands-on experience in our chosen-fields, allowing us to practically apply what we learn in class. But more importantly, it teaches us how to look for employment and being able to earn a living is the point of the five years we spend here, is it not?

Though being a wonderful system that allows students to conveniently look for jobs without overburdening them greatly, the CECS system disillusions students to believe that getting a job is actually that easy. The world after graduation does not have a JobMine. Apart from the few who stick to university placements for the rest of their lives, the rest need to learn how to find jobs for themselves. How to approach companies, sell ourselves on the strength of our skills, and make contacts. We need to make

a place for ourselves in the industry - not for or through our universities but for ourselves. Going through JobMine does not equip us with any of the skills we require to survive in the corporate world.

JobMine restricts us to the system. This can be disadvantageous to us in numerous ways. Not everyone's perfect. Some of us have excellent work-term evaluations but awful grades. Others may end up in jobs they do not particularly like and have evaluations that are not that good, in spite of absolutely outstanding grades. Life is about presenting yourself in the best way you can without being dishonest to anyone. JobMine forces us to stick to the system, which can compromise our futures in the respective companies we apply to. Some students, mainly in artistic fields may want to submit portfolios of their work to prospective employers. In today's world, portfolios can play a great role in convincing employers of our credibility. Most importantly, in the real world we have the option of declining an offer if we do not want a job. This insures that we do not get stuck in a job we don't like. JobMine doesn't allow this, which can, in numerous cases, land us jobs we don't like, or keep us back from a dream job. Thus, in spite of being a very good system, going outside JobMine to find a job may be better for students today.

The "point" article would have you believe that JobMine is the only place where employers actually want to hire students, and that is untrue. Job fairs are a good place to look for employment outside JobMine. Many top companies have a separate section for aspiring interns. Despite what the "point" article may have you believe, industries today are very open to hiring students, and we should embrace the opportunity and make a place for ourselves in the industry.

Editor's Note:

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

Sexist Comments in University of Ottawa
Engineering Newspaper Unacceptable
LOUIS DESGROSSEILLIERS
'08 CHEMICAL

It's an often-ignored truth about engineering as a profession in Canada, but some engineers and engineering students still think that it is right to propagate sexism, hatred, and even violence. A recent article (now withdrawn, thankfully) published by the University of Ottawa Engineering Students' Society's newspaper, called Oral Otis, thought it amusing to publish a mock sex advice column relating to anal sex and pedophilia in the sense of rape using aggressive and graphic language. Rob Arntfield, vice-president of social affairs for the Engineering Student Society, remarked on an online CBC article on the topic that the column was meant to be funny, but he also confirmed that the column had received a flood of complaints and that the issue had to be pulled from the campus stands.

The column was strongly criticized by Prof. Kathryn Trevenen of women's studies at U of Ottawa as being in bad taste and demeaning towards women. She paraphrased that, "They basically say, 'Don't let her get away. This isn't over until you say it is,'" as an analogy to rape. And this is where it gets even worse. Instead of realizing the mistake and apologizing for said 'humorous' jokes, Mr Arntfield denied the real impact and implications of the column. In defence of the outright derogatory nature of the column, he stated that "[Engineers] have taken a lot of flak for being engineers," such as jokes implying that engineers don't often interact with women or 'get laid'. He even went so far as to say, "I believe that

when we take this sort of thing in stride and that sexual harassment, if we dish out a little bit of our own, who's to say who's more right?" Rob, you couldn't be any more wrong!

The use of language, and even worse actions, to elevate yourself over others is exactly what feminism aims to abolish, for women and men alike. People, including engineers, may criticize feminists, but that is most often without understanding the *real* issues, and merely dismissing them as 'man-hating dykes' - pardon my use of this despicable term. In my books, I see fighting for equality and the abolition of exploitative or sexist institutions and behaviours as a *good thing!*

The issue that remains in engineering is that demeaning comments and jokes toward female engineers like the one printed in Oral Otis are tolerated and treated merely as comedy that pushes the limit. Women are the target of comments that objectify their bodies and engineering campuses are no exception to that. To dismiss female membership in engineering by saying that all engineers get flak and 'sexual harassment' on the pretence of never getting attention from women is bringing us back to the dark ages of gender relations and assuming that we are all men! Engineering is not a petty little men's club where we dish out trash on women and feel it right to joke about violence and sexual aggression.

The Editor-in-Chief of the Oral Otis, Zac Brunet, has outright rejected said column and published an apology in its place, so let's change our perspective like he has and move on from our dark past and perhaps even embrace change and feminism in engineering.



WHEN: FRIDAY MAY 30 – SATURDAY MAY 31
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Include: Team Name, Number of People & Contact Name

ARTS & ENTERTAINMENT

Faux Pas PrevENGtion



BRYAN SACHDEVA
4A COMPUTER
ERICA WAUGH
4A CIVIL

As students, we often forget that we are going to be professionals someday. As a result, we tend to fall short in the fashion department. We look around engineering and we see sweatpants, ripped jeans, and (*shudder*) crocs. Come on guys, have we lost respect for ourselves, our profs, and our peers? We may just see these people as our friends but they may be a valuable connection in the future. Please guys – put some effort into your look, it is not difficult. Dressing well is a great and easy way to boost your self-confidence. Having a personal style makes you unique and helps to attract positive attention. These ideas may appear shallow but taking time to look presentable shows self-respect and respect for others. Spending a few extra minutes in the morning can do wonders and requires minimal effort. In time it will become second nature. Here are a few simple ideas to help you on your way to fashion triumph.

Simple steps for Girls: So ladies... I realize there are only a few of us but let's show these boys that we can still hang on to our femininity while being intelligent and professional. First things first, showering. Showering every day is necessary, washing your hair every day is not. Shampoo dries your hair out so if your hair can handle it, shampoo every other day. Conditioner makes your hair soft and manageable; you don't have to use it every time you shower but a couple of times a week is recommended. If you have shorter hair, washing it every day will make it easier to style. Also consider purchasing shampoo and conditioner for your specific hair type. Herbal Essences has a new line that caters to many different hair types (frizzy, coloured, thin, and curly).

Next, wash your face... with face wash. Keeping your skin clear makes you look cleaner and healthier. I recommend Nivea 3-step system, available for dry and normal skin. Please pay attention to use Face Cream on your face and not hand or body cream, the skin on your face is much more sensitive than all your other parts. Stick the wash in the shower and you are good to go.

After this comes make-up. Many girls are afraid of make-up and just refuse to wear it. There are fears of break-outs or allergic reactions. Well girls, there have been innovations since the 60's. There are also many lines of hypo-allergenic make-up (Clinique is a popular choice). A simple place to start is with mascara, it brightens up your face and it doesn't even look like you're wearing make-up! In addition, evening your complexion with a light cover-up will brighten up your face. For an easy alternative, consider a tinted moisturizer, it adds some colour and smoothes your skin out nicely. A few other simple things to consider are keeping your finger nails tidy, short and clean. It's easy and for god's sake – QUIT BITING YOUR NAILS, it's gross and unattractive. Also, it is summer and so sandals will be out – keep your toes nice and trimmed, if you're feeling adventurous toss on some nice polish. Everything I have mentioned requires very little time and it should not interrupt your morning routine very much. None of this is very hard to do and it's a great way to get out of that fashion gutter and into the bright lights of style success!

Simple steps for Boys: Gentlemen, style and personal hygiene deserve your attention. Developing good habits in these ways doesn't make you less of a man or girly. Thinking it does is a rude and offensive excuse that you might be tempted to use, but shouldn't. Who defines what looks good? Not me. But most people have a general sense of what looks appealing. That's the key: appeal; the quality of drawing positive attention. If you're convinced for now, then here are some general tips:

Personal grooming is not as much of a chore as you might think. Your gut intuition might lead you to think like Patt Gillis, "I use shampoo and conditioner, yes. But I don't use a 'product' for my face". If you can relate to that sentiment then you deserve congratulations for making it passed the first hurdle. Showering is an important step to take. The male body does not produce pleasant smells, and you know it. Taking a quick shower can help. My recommendation is to take a shower daily, preferably in the morning so you can start the day fresh. Showering, and doing everything I'm about to mention will only take you about 5 to 10 minutes.

Bar soap is not your friend. Studies have continually shown that it dries out your skin. Instead, opt for a body wash. (Hint: look for the word 'moisturizing'). Now, I'm not saying you need to go so far as to use a loofah (those textured sponges), but body wash instead of soap is an easy change.

You wouldn't use water as windshield-washer fluid (you could, but everybody knows that's bad). By the same logic, soap is not meant to go on your hair. Shampoo is specifically designed to clean your hair, while conditioner is designed to restore moisture and nutrients. Avoid shopping by smell. I highly recommend Head & Shoulder's new line of separate shampoos and conditioners. 2-in-1's do not work as well as you might hope. As Nicholas "Hollywood" Hayduk points out, "the very concept is analogous to putting gravy on your dessert and eating it first". The two steps need to be separate for them to work.

Acne is God's way of punishing people who think themselves too cool to use a product. People like touching soft skin, it's a fact. To get that kind of skin, you need to use something to help clear out the dirt that accumulates from pollution, dead skin, and being an engineering student. I recommend Neutrogena's daily exfoliating scrub for your face. It tingles so you know it is working. After your shower, use a daily facial moisturizer.

Finally, you will want to keep your facial hair under control. If you have a beard of some sort, keep it tidy, this also goes for the scruffy look. Using shaving gel followed by aftershave makes shaving very painless and keeps the hair away longer. For the hair on top of your head, the new "in" products are wax and pomade. Just a dab and quick playing with your hair is all you need. I do not recommend gels or mousses since they weigh down your hair and typically need a lot to work well. If you don't want slick hair, then try Fructis' "Surf Hair" texturizing crème. Now comes your eyebrows... the rule-of-thumb that aestheticians use is to make a line from your nose to the outer corner of your eye. They say that your eyebrows shouldn't go past that line. Don't be afraid of tweezers and make sure you have two distinct eyebrows.

We hope you enjoyed our tips and give them a try. If you have any questions about this article or any other fashion crises you are faced with please feel free to email us for advice! Stay tuned for our next article when we give some tips on updating your wardrobe, everyday style, and fashion do's and don'ts.

Love you bitches, Erica & Bryan.

profQuotes

"I always have trouble keeping it up in the morning"

- Collin Roberts (when the boards would not stay up), MATH 119

"Actually that's an interesting calculation, think of the amount of genetic information in one of them, I wonder what the bandwidth of an ejaculation is."

- Paul Ward, ECE 454

Spring 2008 Anime Snapshot

IVAN WONG
1B MECHATRONICS

We're currently halfway through the spring 2008 anime season. If you haven't picked which series to follow yet this season, this is the place to look!

Note: This article contains some minor spoilers.



Series: Code Geass: Hangyaku no Lelouch R2

Genre: Mecha

Producer: Sunrise

Episodes: 25

Fansub Groups: Chihiro, gg, Eclipse

Relations: Code Geass: Hangyaku no Lelouch (prequel)

OP/ED song: O2, Shiwase Neiro

Code Geass is definitely the highlight of the spring 2008 season. Most of us have been dying to see the second season since last year when Sunrise decided to screw with our minds by splitting the series in half. After about nine months of waiting, the second season has arrived and lived up to most people's expectations. Like most other second seasons of anime series, R2 has two notable changes: more fan service and power-ups. But Sunrise may have gone overboard a bit with the Guren, a red mecha. It's received a pair of wings, a long distance instant-kill, and for those of us who watch Chihiro Fansubs, an AOE stun. This is the anime to follow for anyone that likes mechatronics.

Similar anime that started this season: Macross Frontier

Series: Da Capo II Second Season (DC II SS)

Genre: Harem, Comedy

Producer: CIRCUS

Episodes: 13

Fansub Groups: Chihiro

Relations: Da Capo, Da Capo Second Season, Da Capo II (all prequels)

OP/ED song: Sakura Kimi ni Emu, Yasashisa wa Ame no Yōni

High school girls in mini-skirts, fabulous artwork, mini-skirts, tear jerking story,

mini-skirts, child-saving super robot, and mini-skirts were the selling points of the last Da Capo season. Okay, maybe there weren't that many mini-skirts, but it was definitely the reciprocal of our engineering male-to-female ratio. Unlike other harem series though, the DC series doesn't use fan service as their selling point. In fact, there's probably a lot more fan service in R2 than DC II SS. What drives watchers to stick to the DC series is the tear-jerking story line. The main story focuses on a boy in third year middle school (grade 9) and his relationships between his classmates as well as his two "sisters".

Similar anime that started this season: none to my knowledge



Series: Special A

Genre: Shoujo, Comedy

Producer: Gonzo

Episodes: 13

Fansub Groups: BakaWolf-m.3.3.w

Relations: None, unless you count the manga by the same title

OP/ED song: Special Days, Hidamari no Gate

We can't forget about the ladies in engineering. We get the same fabulous artwork and a great story like Da Capo except this series is intended for a female audience. This series follows a girl, Hikari, who attends an elite high school for one purpose only: to beat her childhood friend, Kei... at anything. When Hikari was a child, she was undefeated at pro-wrestling until one day when she was easily defeated by Kei. Ever since that day, she has vowed to beat Kei at anything, but to this day, Hikari has not succeeded even once. She always ends up being ranked number two, leaving Kei in first place. While Kei consistently teases Hikari for being in second place and pretends to think very little of her, he is actually quite moved by Hikari's undying spirit and eventually develops feelings for her.

Similar anime that started this season: Itazura na Kiss

Delusion

AAREET KRSNA
1B NANOTECHNOLOGY

My soul is dark and lonely,
And I have a sullen mind.
My lungs are dry with chalk,
The charcoal of the land.

My legs give way to fate,
And my finger fires the gun,
My quarry falls upon me,
Somebody's teenage son.

My clothes are weeping dry,
And I have but one last breath,
My arms are weak with fatigue,
Yet steady is my hand.

My head hits the ground
And I hear a soft crack,
My eyes whiten, then die,
My little war is won.

My eyes stay strong with virtue,
And my conscience rings of peace,
My blood boils with anger,
At the countenance of creed.

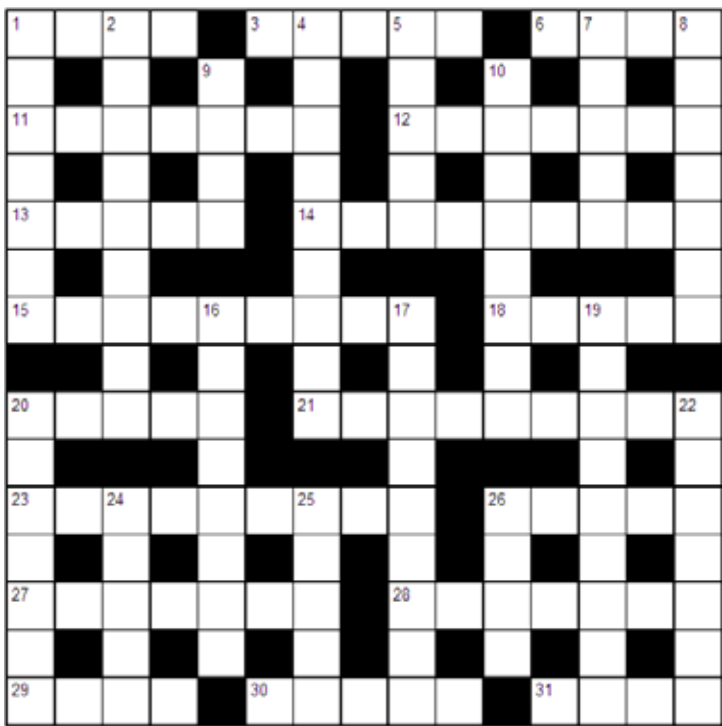
Fourteen days I lay there,
Solemnly in peace,
Until my friends came for me,
One limb less for each.

My life flashes by me,
And I remember not,
My happiness or my love
But the wars I have fought.

When I woke next morning,
The radios chattered,
Our big war was won,
Blind, deaf and paralyzed,
My life has just begun.

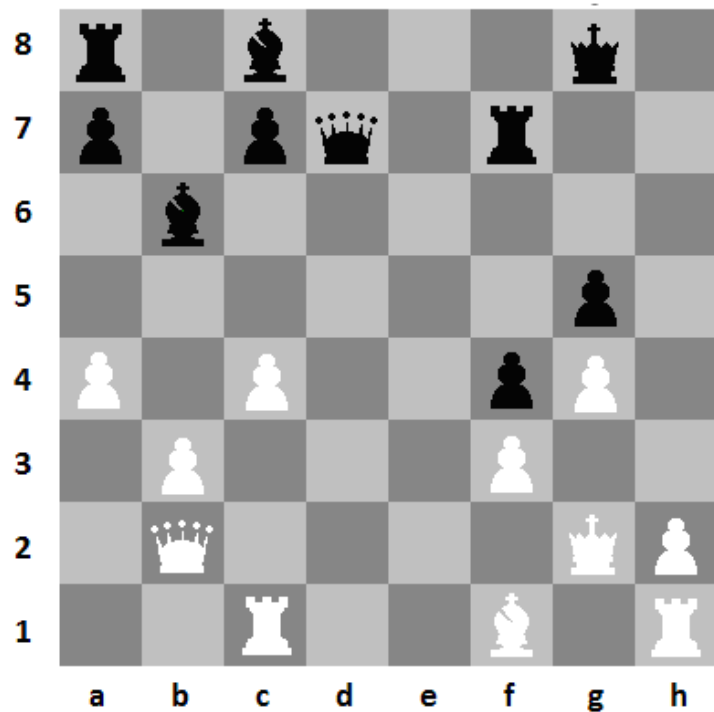
The Iron Cryptic Crossword

ROB GRAHAM
4A COMPUTER



Chess

ROB GRAHAM
4A COMPUTER



Black mates in three. **Hint:** Force this issue.

Crossword Clues

Across

- 1 Pace was rearranged like Superman's apparel
- 3 The winner surrounded a vowel
- 6 Firstly, geese never anticipate winter
- 11 Part of a scorpion eerily walking
- 12 Initially, I made a good impression; never emotional
- 13 Combining parts of a gentleman to make a representative
- 14 Winter except ending being picked off
- 15 Sounds like understood joined with part of stable edema
- 18 Content rearranged limes
- 20 Fir strain conceals foremost
- 21 To start, some elephants never stop eating. Luckily, elephants seek solitude
- 22 Sugary joining has part a medium
- 26 Teacher and students categorize
- 27 Mars' ingredient scrambled Howard's start and created a place to chill
- 28 Starting Orion, sacrifice ended it, producing an aperture
- 29 Eat this by initially removing price
- 30 Beam or joist scrambled rusts
- 31 Pit or bulb reverses dees

Down

- 1 Crunch team leader
- 2 University teacher rearranged spoofers with Rudolph's beginning
- 4 Beginning with hearing instrument, containing many straight entities concluding with the start of Saturday
- 5 Japanese lunch ends along with when this starts
- 7 Sounds blend eosin
- 8 Sparring while the swealter is modified
- 9 Slight damage from the end of Neptune's stick
- 10 Outdoor sport hidden by goal across entrance
- 16 Cleansing space as lavatory
- 17 Combining a threat, starting ousted
- 19 Concluding a biter while removing visual from not being lazy
- 20 A big accomplishment with that girl over there
- 22 Freeze mashed sendups
- 24 Scare grinding pain along with what sounds like salty water
- 25 First off, a character that Oliver resembles
- 26 Financial organizing icon

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

Photo of the Every-Other-Week Contest



Yes, you can also win P**5 points winning the caption contest!

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Be sure to put "Photo Caption Contest" as the subject, and include your name, program and term.

Arisen

RAFEE AMEEN
4A MECHANICAL

Seen in a fever dream,
a vicious mirage;
a cruel, captivating hymn,
arisen in fire, in napalm,
in the shattering of atoms.

And my, what sharp,
kohl-dark eyes you have
and what scorn they whisper
even when you smile.

Vicious, captivating mirage:
hurt me, and I'll hurt you back
(promise, promise, promise).

Just let me drown in the desert.
In fire, in napalm, in between
the shattering of atoms.
In the sharp, kohl-dark eyes
Just the once.

THE IRON INQUISITION

Michael Seliske, 1B Computer

What do you think about companies that hold open bar recruitment events?



Kiri Neufeglise
3T Chemical
"They are the definition of The Man."



Dustin Verhoeve
3A Electrical
"Amazing."



Mark Barrington Little
2N Computer
"It shows the company is hip and still fun, they remember what it was like to be a student."



Sarah Patterson
Western Engineering
"I'd like to see their Christmas party before I sign a contract."



Andrea Lam
3B Architecture
"Where do I sign up?"