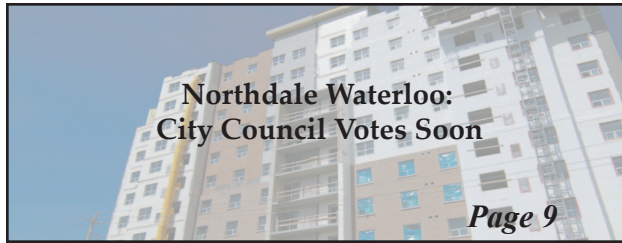


Note: This document is hosted here for archival purposes only. It does not necessarily represent the values of the Iron Warrior or Waterloo Engineering Society in the present day.



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<http://iwarrior.uwaterloo.ca>

PDEng Town Hall Meeting Answers Questions

Renewal Task Force Report Presented by the Dean and Task Force Chair

ANGELO ALAIMO
3A ELECTRICAL

On Thursday May 13, students and faculty converged on MC 2066 for the PDEng Town hall meeting following the release of the PDEng Renewal Task Force's final report which brought "sweeping changes" to Professional Development for Engineering Students.

Dean Sedra, Wayne Parker - Associate Dean, CEPA (Co-op Education and Professional Affairs), and Sasha Avrelina - former B-soc VP Education and Task Force member all spoke to students attending the meeting.

Dean Sedra started off the presentation stating "I have total confidence that this process is going to work out, a lot of good people are involved in this transition process and will make it work" before introducing Wayne Parker to the stage.

Dr. Parker's time on stage mostly was spent talking the next steps for WatPD-Engineering and many details about the planned structure of the program. Major points of his slides touched on the finer details of the program such as planned

See **TOWN HALL** on Page 7



Angelo Alaimo

Dean Sedra answers questions during the PDEng Town Hall Meeting

PDEng Renewal Task Force Report Released

ANISH BHUTANI
3N CHEMICAL

Last October, the PDEng Independent Review from three external reviewers was released to the students. Shortly after the release, Dean Sedra announced the formation of the Task Force, which included CECS, PDEng, Departments, and the student representatives Sasha Avrelina and David Lui. From January until the end of April, the task force met three or more hours a week to discuss how to make improvements.

On May 10th, the final report was released from the Dean's office to the students on and off campus. The 23 page report can be found on the PDEng Renewal website at <http://engineering.uwaterloo.ca/pdengrenewal/>. For those without the time to read through the entire report, all recommendations can be summarized into the immediate changes to the program and long term goals for improving the new program.

The first immediate change is that PDEng will be discontinued and professional development for engineering students will be given by the WatPD-Engineering program. A program with emphasis on engineering specific curriculum delivered by the WatPD office. Throughout the process, the Task Force has been working with the director of WatPD, Judene Pretti, to make sure that the transition from PDEng to WatPD - Engineering is successful.

As the transition phase goes on, the previous Director of the PDEng programme,

Professor MacGregor, has stepped down from the position, and Dr. Dwight Aplevich has taken her place as the PDEng Director until the transition to WatPD-Engineering is complete.

To date, the Academic Director has also been appointed, Dr. Gordon Stuble, who will be overlooking the new WatPD-Engineering programme and acting as the liaison between the Dean's office, WatPD Director, and those working on the Curriculum Committee. The job of the Academic Director will also be to manage course critiques, coordinate new professional development courses, and to handle any extraordinary cases involving engineering students (i.e. course overrides, special accommodations, etc.)

Marking has also gone a drastic, immediate change. The previous method of marking for PDEng involves that you need to show competency on all skills in order to get competent on the assignment. This is being changed to an averaging system, in which a mark from 0 to 4 will be given for each skill, and an average of 2.8 on all skills needs to be obtained in order to pass the assignment. This scheme has retroactively been used for Winter 2010 PDEng courses and will be used in future offerings. WatPD-Engineering will use the WatPD marking scheme which is the same as any other UW course.

Workshops have been removed from PDEng, so instead of doing a workshop, a

See **REPORT** on Page 7

Task Force on PDEng Renewal Update and WatPD-Engineering FAQ

SASHA AVRELINA
PDENG TASK FORCE

Written by Sasha Avrelina as a member of the Task Force, supported by communications of the Dean's Office.

It is great news to state that the task force on the renewal of the PDEng Program has concluded its work, published the final report, and fulfilled its mandate to the full extent. The report of the task force was submitted to the Dean of Engineering, Dr. Adel Sedra, by the deadline on April 30 and then released to students last Monday. The report has recommended sweeping changes to professional development in engineering encompassing phasing out of the current PDEng Program and then replacing it with a completely new program to be called WatPD-Engineering. The new program will go beyond just having a new name, with a new course structure, new course content, new methods of delivery and new organizational structure. The new program will have engineering content and will involve engineering instructors but will take advantage of the delivery methods used by the central WatPD office of the university. The Dean of Engineering has endorsed all of the recommendations of the report and has moved ahead with certain changes already through assigning a new academic director, Dr. Gordon Stuble, an eminent

professor from mechanical and mechatronics engineering. It will still take a lot of effort to ensure that the transition to the new program will happen smoothly, a transition expected to take about a year's time. **In the meantime students will still be required to do all the current PDEng courses and work term reports in order to fulfill degree requirements until a further announcement has been made.**

The contents of the report as well as the memo from the Dean to students can be found on the task force website - <http://www.engineering.uwaterloo.ca/pdengrenewal>. The content was further presented at the town hall meeting that took place on Thursday, May 13 where the Dean and a number of other administrators, including Dr. Wayne Loucks (Associate Dean of Undergraduate Studies), Dr. Wayne Parker (Associate Dean of Co-op Education and Professional Affairs), Dr. Dwight Aplevich (newly appointed director of the current PDEng program), Judene Pretti (Director of WatPD), Dr. Gordon Stuble (Academic Director of WatPD-Engineering), were present to answer student's questions. Transcript of what was discussed, as well as a recording of the meeting, will be available on the task force's website shortly. In the meantime I would like to answer some clarification questions posed by Alex H. Rutter,

See **FAQ** on Page 4

Letter From the Editor

Changes, PDEng, Northdale and Work Term Reports



ANGELO ALAIMO
EDITOR-IN-CHIEF

Welcome back B-Soc! I hope everyone's work term went well this past winter and to another spring term on campus. Spring is definitely my favourite term to be on campus. The lack of snow, people, and consequently, line-ups really make time here more enjoyable than other terms.

To start, I'd like to thank the Spring 2010 *Iron Warrior* staff for their excellent help putting together this issue. Without their writing skills, editing skills, and their drive to put together a newspaper, this issue wouldn't have been possible!

As with most previous EICs many talk about how they became editor in their first editorial. My story begins back in Spring 2008 when I discovered EngSoc had a darkroom.

For those who don't know me, photography has been a huge hobby of mine since I can even remember, and also had taken some courses in high school which involved a dark room. I still had all my old negatives on campus so I looked at possibly of developing some photographs again. I got a hold of the darkroom director which turned out to be the *Iron Warrior* photo editor, Sylvia Wu. Mike Seliske shared the position with Sylvia for the Spring term.

I discovered Mike, Sylvia and I somewhat share the same level of passion for photography and then somehow I convinced myself that I would begin taking photos for the *Iron Warrior* just like them for the Winter 2009 term. In Winter 2009 during Kevin's term as EIC, I really enjoyed working with the paper and hoped one day I would become an editor. Now it really isn't that hard to become an editor. Really. The person taking the editor position each term

generally is one who actually wants the job. During the fall 2009 time, Trevor approached me and asked if I wanted the job, and I accepted - of course on the condition that I actually passed my 2B term. This job is a lot of work, but I figure it'll be rewarding.

If you haven't kept up with the *Iron Warrior* on your co-op term you might notice some very small changes to the paper. First off, this is the Newspaper's 30th anniversary this year. To mark this occasion, we have decided to make The Iron Archives a regular piece in the newspaper.

In this issue, you'll find it on page 5. The Iron Archives delves into the mysterious boxes of old yellowed newspapers in our office which contains almost every issue of the *Iron Warrior* that has been produced. Because we want to make this a year long feature, we try to go back 5, 10, 20, and 25 years into the past around the same time frame of the year.

Also you'll notice I have re-printed one of the old logos from the past, well you probably didn't know it was an old logo, but now you do! The one shown on page 5 is the first ever *Iron Warrior* logo used from 1980 to around the mid-eighties. I

took some time during time during the last co-op term to scan in and re-master some of the old logos, so you'll likely see a couple during the term pop up in the issues granted we have the space.

For this issue, PDEng once again has become a major topic of conversation from the release of the PDEng Renewal Task Force Report. Our goal for this issue was to bring you as much information from the report, the Town Hall Meeting held last week, as well as from the perspective of someone who was involved with the generation of the report.

Going back to the Town Hall Meeting, I am very surprised of the amount of students who actually

came out to the meeting. Given the amount of student resistance to the PDEng program, as well as the amount of students giving feedback to the Task Force, I definitely expected more than those who showed up.

Now, the audio of the meeting was webcast, and the system actually became overloaded and crashed, so it's likely many people didn't bother showing up to ask questions, but just listened instead. Those who did show up, presented excellent questions to the Dean and I'm sure more questions could have been posed to the Dean given more people were present.

Next, I'd like to talk about Northdale. I'm sure some people reading this will ask themselves - what's Northdale? This is exactly why I want to talk about this issue - students are unaware of what's going on.

Northdale is a neighbourhood predominately populated by students bounded by Lester, Columbia, King and University. This is the same place where those new, large, boxy, and in my opinion ugly, apartment buildings are going up as I type this. The city is voting on the future of the neighbourhood on June 7th, and I feel students need to pay attention to what is happening with this issue as it could affect them, and more importantly future generations of students in the near future.

One of my particular issues deals with these apartment buildings where I've noticed rent is generally above \$500 a room. To me, this is about the upper bound of what students pay for rent in the city. Now, if the City of Waterloo votes to continue allowing these large student buildings to be built in Northdale, it'll be interesting to see what affects if any, it has on the cost of room rentals near the University.

By the time City Council votes on this issue and change begins to happen (granted change is allowed), it'll likely be several years down the road so it may not affect many (if any at all) who are reading this today, but I feel students should still pay attention and ensure students' needs/wants are being looked after.

If students who saw the need of having an Engineering Endowment fund, even though they would not benefit from it

didn't act on putting one together, would there be one today helping enrich our educations?

If student representatives a few years ago did not lobby the Faculty for a student design center in Engineering 5, would student teams be moving to E5 in the coming months?

If those who saw an issue with PDEng didn't fight for an independent review or change to the program even though they knew they'd have graduated by the time change was implemented, would we have gotten the same result from the PDEng Renewal Task Force last week?

Now I ask, if current students do not take an interest in this issue, what will be the outcome for future students?

On the topic of work reports, it was announced upon the release of the PDEng Task Force Report that the

number of required work term reports would be reduced from 4 to 3 for new students. Some students actually opposed this change during the Town Hall Meeting based on their experiences with others' writing quality during PDEng 45 which includes a submission of team project.

At this point, I also oppose this change as I feel writing skills are extremely important and the more practice, the better one will likely get at producing coherent text. During the Town Hall Meeting, Dr. Stublely did mention the core courses of WatPD would make students practice their writing more thus taking the place of a work term report but my question is - will it be enough? What is enough?

Everyone is different, and for me, I'm still learning to be a better writer. Looking at my earlier compilations, particularly my first work term report, I know I've greatly improved, but why did I improve?

I improved because I began writing about topics that I liked and was passionate about. When I wanted to write about something, the ideas came much clearer to my head and I could compose an entire idea of several sentences in my head and then place them onto a screen. When writing became this easy for me, I learned where I was making my grammatical mistakes and where I had flow issues.

After writing several pieces, I realized what we're taught in high school English isn't a template for everything, but merely a guide. Write what sounds right, not what fits perfectly into the form you're taught.

I hope I've kept you interested enough in what I had to say to get you to this paragraph. One of my classmates told me he actually reads each editorial so he warned me to do a decent job.

Anyway, I hope you enjoy this issue of the *Iron Warrior* particularly because it's in colour. I also hope this has reached your hands on Wednesday and not late on Thursday as we've switched publishers and I'm hoping all goes well with timely delivery to us on campus. If you have any questions or comments, please let me know at iwarrior@engmail.uwaterloo.ca

Until then.
Angelo

I feel writing skills are extremely important and the more practice, the better one will likely get at producing coherent text... I improved because I began writing about topics that I liked, and was passionate about.

Now I ask, if current students do not take an interest in this issue, what will be the outcome for future students?

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

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

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Letters to the Editor

RE: PDeng Renewal

Dear Editor,

This letter concerns the process of PDeng renewal which has just been completed. It was written before the dramatic events of the past few days. These events have been addressed in a following letter which Iron Warrior has also published.

During the winter term I followed the Task Force recommendations and student responses with interest. While it is true that the PDeng renewal process has been open and receptive to student criticism, I was alarmed at a few things:

The Number of Student Participants

The Task Force indicated that only 400 students responded. PDeng affects 5000. This means that less than 10% participated. How can anyone complain later on if the new version of PDeng is unsatisfactory? Just read below to see some of the things that students should be noticing. The URL for the renewal process feedback is:

<http://www.engineering.uwaterloo.ca/pdengrenewal/home.php>

Interpretation of Positive(+) Student Responses

I notice that the Task Force is keeping a tally of percentage (+), (-) and (Not Rated) responses. There are two very different interpretations of positive (+) responses that are coming out of the written comments:

- *Anything was better than the previous incarnation of this item. It's an improvement. Keep going.* Basically the responder is so happy that The Task Force is headed in the correct direction that he/she is encouraging the committee with a positive response but (unstated but implied) means

that the Task Force should *keep going ... they haven't arrived yet by a long shot.*

- *This improvement is OK and doesn't need any further change.* The responder is completely satisfied and his/her comment should be taken as a vote of 'yes'.

If further student participation is allowed and if students **intend to convey the first interpretation** they should *not* indicate a positive response, but rather a "Not Rated" response. This will prevent the statistics from being skewed to the "positive" side and giving the impression that the item in question needs no further improvement. In other words, the students may very well complain bitterly about the very points for which they gave a (+) because the Task Force did not continue to improve on it.

The Major Problems with the Previous Version of PDeng

The three major problems, I am sorry to say, do not seem to be addressed sufficiently:

1.) **Placing PDeng on the Work term.**

As previously stated so many times in my Iron Warrior editor letters and letters to many others. To an employer, the PDeng program is a huge imposition. Either the students are stealing time during working hours due to the fact that they only have access at the workplace, or they arrive for work exhausted from long hours spent doing PDeng assignments, angry that they have been denied normal rest and recreation time in their after-work environment and angry at the arrogant and unprofessional treatment received at the hands of PDeng staff.

The Task Force **must consider the employers.** Otherwise they will just stop hiring our students and go elsewhere without

ever saying why. It is probably already occurring. Has **anyone** ever polled the employers? Does **anyone** intend to check with them or even **think** about employers?

Much of the material can only be sufficiently covered on campus by practicing professional engineers; for example, engineering failures - the causes, engineering failures - who is responsible, engineering failures - court case outcomes, ethical behaviour etc etc. The present staff is professionally unqualified to deal with this content. They are NOT professional engineers!!!!!!!

2.) **The Length of the Program.** The course can cover everything in one term if we eliminate fancy learning theory and **just teach the necessary material.** What is the mysterious force driving the dragging out of this content?

3.) **Accountability.** Course critiques don't work *even when there are merit pay consequences.* Experience at UofW shows that busy researching professors just don't improve their presentation in response to critiques. In the case of PDeng there aren't even merit pay consequences. To avoid the runaway problems that brought on the Independent Review, **there must be a watchdog committee constantly monitoring students' complaints, marking practices, and the manner of response to students.** This committee must have **teeth.**

Students Have an Avenue of Redress in Policy 33

Policy 33 does not deal just with "Poisoned Environment" issues which have been liberally (and improperly) applied to those who criticized PDeng. Policy 33 also deals with "*undue interference with the work and workplace environment*"

of any member of the UofW community. Policy 33 states that this covers any official off-campus activities which definitely include the coop work terms of our students. While off-campus-employers cannot appeal to the policy, as I was able to do, **all** of our students **can.** The previous incarnation of PDeng did indeed interfere with their work and work environment in a **big** way. The Renewal Task Force must restrain the amount of this interference or PDeng will again be subject to Policy 33 violation complaints.

Interference in the workplace **includes denial of normal rest and recreational time** in the after-work environment of our students. **Everybody** needs rest and recreation to be normal and healthy. There are plenty of pressures from work itself and from getting settled in another environment (including another country, other customs and languages) without PDeng adding to them by requiring unfair amounts of work.

The nice thing about Policy 33 is that its authority comes from outside the Engineering Faculty. Nobody in Engineering with a vested interest in PDeng can interfere with or quash a Policy 33 complaint procedure. If all else fails, students or groups of students who feel that PDeng interference is just too much and downright unfair should use this avenue to protect themselves and force the changes that may very well **not** come out of the renewal process.

Yours truly
Donald A Fraser,
Senior Demonstrator and Head TA
(retired)

RE: PDeng renewal committee and the Dean's message

Dear Editor,

This letter concerns the final report posted yesterday by the PDeng renewal committee and the Dean's message, both posted on the PDeng renewal website.

Finally we got the magnitude of changes needed to restore credibility. It took (shouldn't have taken) a great deal of pressure and an Independent Review (shouldn't have been necessary) to stir up enough awareness to accomplish this.

No better choice could have been made than Professor Gord Stublely, to oversee "WatPD-Engineering", the new handle for PDeng. He is the standard in academic, teaching and ethical excellence at UofW. You can bet your last penny that none of the runaway nonsense of the past PDeng will be tolerated even for one second under his guidance. Good luck to him. He is doing a great service by accepting this post to clean up the PDeng mess and start over. The only word of advice I would offer Professor Stublely is to remember what work terms were like and to take it easy on the students who are often pushed to the limit by their employers who rightfully have first claim to the energy and attention of our co-op students.

In the aftermath of this fiasco, we should stand back and look at the bigger picture. Why did this happen? Why were the students ignored for five years? (Some engineering students left UofW because of PDeng.). Why was it necessary to go outside our UofW Engineering community to obtain an independent review which only confirmed what all of us knew after the first of fifteen terms of hell the students were put through?

I believe the reason lies in the method of management that has invaded many institutions, not just universities. I call it "Formalism". Formalism consists of trying to control human behavior by mak-

ing stacks of rules and policies. Those in charge can then avoid the responsibility of making common sense judgments and then standing behind their judgments with sound reasons. Instead, they can just refer to "Policy 75, page 67, paragraph 4, subsection (ii), sentence 3". Quite frankly, many of these rules and policies violate the rights and freedoms of citizens in a free society and therefore are illegal. Most of the rule-making committees have no training in the law and no concept of how law comes into being with proper opposition, debate and decision by majority vote.

For example, about 10 years ago, somebody up on the 4th floor of CPH decided that the word "beer" could not be used in any advertising of events. To demonstrate the stupidity of eliminating a word in the dictionary, thousands of sheets of paper with the word "BEER" were pasted all over the engineering buildings and in every stairwell and on top of every urinal. Advertising still proliferated with pictures of full beer glasses with a nice head replacing the word "beer". You CANNOT control human behavior with a bunch of stupid rules and blind adherence to same. We all acknowledge the need for rules such as speed limits for simple, well defined circumstances, but most human circumstances require the sound judgment of competent, honest, WISE overseers. With these competent people in charge, we can then use "guidelines" instead of rules. The previously mentioned idiotic "beer" rule could then be replaced by a common sense guideline such as "No advertising of events should include the encouragement of drinking to excess which endangers the health and safety of the participants or members of the surrounding community." This then allows the use of the word "beer" in a responsible ad and eliminates the use of any word or phrase promoting unhealthy behavior. A violation then requires a sound judgment by a responsible, wise overseer to interpret the violation in

light of the guideline.

What happened in the past 5 years was that those in charge failed to properly oversee PDeng because of the belief that rules and policies would replace the need to keep a close reign on those running PDeng. There were students on the steering committee and the senate and in Eng Soc so how could anything go wrong? Of course these students were raising hell about PDeng but they were simply outvoted or ignored. The PDeng staff should have been told after one term, "Shape up or ship out! No engineering student should be treated this way!!!" "Policyism", a branch of Formalism, was used against anybody (including me) who complained too vigorously about PDeng. Policyism is the use of existing policies to threaten and scare off proper debate. For example, Policy 33 is designed to protect members of the UofW community against threats to their well being by those in positions of power. Instead its reference to creating a poisoned environment was used to threaten those who rightfully objected to PDeng and whose objections were fully vindicated by the Independent Review!!! The irony is that they (the PDeng ers) didn't read further to the portion of Policy 33 which refers to undue interference in the workplace environment of members of the UofW community. This certainly applies to interference in the work-

place of co-op students on their work term by PDeng itself.

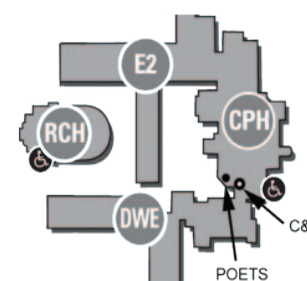
In conclusion, we must return to sound, common sense guidelines administered by wise, honest, competent people in charge and get rid of rule mongering, agenda driven, functionary bureaucrats who drive us all crazy and waste the precious creative energy of the fertile minds of our engineering community.

Yours truly
Donald A Fraser,
Senior Demonstrator and Head TA
(retired)

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

ENGINEERING SOCIETY



WatPD: What You Should Know

Misconceptions about PDEng, Work Term Reports and other "Sweeping Changes" Clarified

FAQ from Page 1

current VP-Education of the Engineering Society, in order to clear up any misconceptions about the new WatPD-Engineering program before they start. If you wish to ask Alex further questions please contact him at bsoc_vpedu@engmail.uwaterloo.ca and you can reach me at aavrelin@engmail.uwaterloo.ca.

Answers to FAQ by Alex H. Rutter

So, is this just a name change?

The new program is far beyond just a name change. There are a number of reasons for this:

- **New course structure** has been proposed which involved two engineering-specific core courses to ensure all students have the basic skills followed by three electives to pick from a range of WatPD courses and engineering-specific electives to be developed in the future. This would allow students to better tailor the program to their needs.

- **New content** will be developed for all courses with input of the curriculum committee consisting of a faculty member from each of the engineering departments and programs. The actual content will be developed by experts in each of the course areas and those experts will be selected through a request for proposal (RFP) process. This will ensure that the content is appropriate, applicable and interesting.

- **New methods of delivery** that would involve the central WatPD office of the university. This will allow the program to leverage best delivery techniques at the university available from the Centre of Extended Learning (CEL). The marking scheme will also follow the one currently in use with the WatPD office which is based on percentages with a pass level of 50%.

The whole report sounds great but it is all about recommendations – will those recommendations actually be implemented?

The Dean of Engineering has endorsed all of the recommendations. They have further been accepted in principle from university's senior administration. At this point, newly appointed academic director of WatPD-Engineering and the director of WatPD also endorse the recommendations and will try their best to implement them; however, they cannot fully predict what will actually happen and if some of the recommendations will turn out to be impossible during the process of implementation. All of the changes will also require approval from certain governing bodies at the university. Short answer is – most likely but certain things may be tweaked along the way.

Do I have to do PDEng in the mean time?

At this point nothing from the report has been implemented with the exception of the short-term changes to the current PDEng

courses and establishment of the curriculum committee for the WatPD-Engineering program. **Therefore it is extremely important to continue doing your current PDEng courses and to hand in all of the work term reports before a further announcement has been made.**

What is the time-line for implementation?

The goal is to have the first WatPD-Engineering core course to be developed by winter 2011 term right in time for the incoming class of 2015 to take the course. Having said that, the students currently in PDEng will be allowed to take WatPD electives and newly developed WatPD-Engineering electives (once they become available) if they completed PDENG25 and as soon as this change has been approved by respective governing bodies. This time-line is not set in stone as of now but the change should occur as soon as possible – stay tuned for updates.

The time-line for the first course to be developed is 8 months – why couldn't this course be offered next term in 4 months?

There are two key reasons for this:

- The course will require approval from certain governing bodies within the university and that usually takes much longer than 8 months – so this timeline is in fact short

- The course content needs to be properly developed by the instructor and then the centre of extended learning (CEL). Centre of Extended Learning usually takes about 8 month to complete their part if the content is already ready. So once again, given the content is not ready yet, this is a short timeline.

So then given that the time-line is so short – will the new courses be of good quality?

When WatPD was formed, their staff was able to develop a course in the period of 8 months and it turned out to be quite good. The newly appointed academic director of WatPD-Engineering has a certain vision for what a good course will be like and if that vision is not met by January 1, 2011 the course will not go ahead and PDENG15 will be offered instead. Furthermore he is looking into getting high school students from grade 12 to test the course.

What is the new content going to look like?

The Curriculum Committee will be responsible for creating the RFPs, which will be tendered to professors and professionals for creation of content. All of the content will then be incorporated into audio, narrated power points and/or video lectures by the centre of extended learning. The option of simply reading the content will be available.

The time to complete the course is being lowered to 20-25 hours and the course will also have more instruction – will there be time to really learn anything and to practice certain skills? Is the bar just being lowered?

The bar is not being lowered – absolutely not. The courses will just be more efficient with greater focus on a few of the key concepts. There will be more emphasis on instruction – the point is to teach students practical, professional skills and give them opportunity to practice and apply them. The time spent doing the assessments will be decreased but those assessments will also be geared in order to have students demonstrate a few key skills and understand the key concepts. Overall, the courses will be designed to achieve a greater result in less time and perhaps the bar will be pushed even higher; however, the courses will not be expected to take more than the 20-25 hour guideline for 75% of the students.

Is engineering going to maintain presence in WatPD-Engineering or will engineering students be just like all other WatPD students?

Once again – absolutely not; there are a number of measures put in place to avoid this. The Curriculum Committee, along with the academic director will design the engineering specific core courses and engineering specific electives. Over that time, they will also ensure that the content is well maintained in those courses. Engineering instructors, and whenever possible engineering markers, will be present in those courses. Moreover, the Curriculum Committee, along with the academic director, will have input into WatPD operations and will handle any special requests of engineering students including any special course sequences, accommodations, etc. Finally the WatPD director, Judene Pretti, is very open to ensuring that engineering students have a good experience with courses offered through WatPD operations. So far all of the courses offered by WatPD operations have received very positive reviews from the students that were enrolled in the courses.

As far as WatPD electives are concerned, the task force, the Dean, the Chairs and Associate Deans of Engineering, as well as the newly appointed academic director, believe that engineering students will have

the benefit of learning those concepts (such as team work, leadership, conflict resolution) in addition to the engineering specific curriculum. It is also believed that those concepts will enrich the skills possessed by engineers and will help them in the workplace.

Will there be mentor positions offered through WatPD for engineering students?

Of course there will be. Director of WatPD is really looking forward to having engineering students on board as a part of their team to mentor students taking WatPD-Engineering courses.

What will the marking scheme be like for WatPD-Engineering?

As of now, the marking scheme for WatPD courses is just the same in any other University of Waterloo course: numerical averaging with a pass level of 50%. This marking scheme would most likely be applied to new WatPD-Engineering courses, but this would be up to the Curriculum Committee.

For the current PDEng courses, the marking scheme has been revised to include numerical averaging given the rubrics used in those courses and the pass level is set at 70%. This marking scheme will only apply to the current PDEng courses as they remain in place for another year or so.

I'm currently in a difficult position for completing PDEng before my graduation date. What should I do?

You should schedule to meet with the current PDEng director, Dr. Dwight Aplevich, in order to discuss a possible plan for you to complete the program. The plan could include a combination of courses taken on the work term and academic terms, as well as more than one course per term. However all of those arrangements will be discussed on a one on one basis.

At this point if you have any further questions or input into new courses – please do not hesitate to contact us.

Sincere thanks to the Task Force and the Dean of Engineering for all their hard work!

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Thumbs Up/Thumbs Down



Thumbs Up to the Town Hall Meeting



Thumbs Down to CIF being ridiculously packed

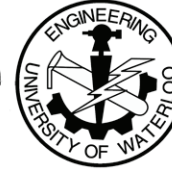


Thumbs Up to free food and swag at employer information sessions



Thumbs Up to co-op on campus

IRON WARRIOR



A FORUM FOR ENGINEERING CONCEPTS June 1984

The Iron Archives

QEMF, Co-op Economy Woes, Goose Attacks, and Jobmine Retirement.



LISA LIU
3A ENVIRONMENTAL

Spring 1982 - May 27, 1982

Mark Liddy reported on the Quality of Education Maintenance Fund (QEMF). QEMF was proposed in February of 1982 as a response to declining quality of education and reduction of government funding for colleges and universities.

"The QEMF, if approved, will consist of a mandatory fee imposed upon and controlled by the engineering students at UW. It is proposed that an initial contribution of \$50 per term be levied.

The funds collected would be used in three main areas, equipment, TA's, and building fund. A total of approximately 2 million dollars was required to repair old and purchase new equipment. A part of the fund would be used to hire TA's to provide additional aid to students particularly for the first year. Finally a small portion of the fund could represent student contribution to new capital projects.

The QEMF would be governed by a committee controlled by the engineering students of UW. The committee would report and be accountable to each Engineering Society Council. During the S'85 and F'85 terms an additional referendum could be held to decide on the continuation of the QEMF."

The QEMF proposal marked the inception of what we now know as the WEEF.

Spring 1991 Issue 1 - May 17, 1991

Jonathan Seet reported on the last major economical recession with familiar messages. "Co-op students have been advised to stay with the jobs they held in previous terms and endure any temporary heartache. The placement figures were especially discouraging for the summer term and will probably continue with similar trends for subsequent terms.

This spring term, there are approximately 450 co-ops who are unemployed. About one-half of these are engineering students. It is traditionally more challenging to find a job in the spring term, where employers can easily hire cheap labour without paying for a full-time position. The continent-wide economic recession means that some employers have no choice but to lay off large percentages of its force. Co-ops are usually the first to go and the last to be hired. Some companies believe they are doing these students a favour by hiring them in the first place. In economic hard times, they don't feel generous or obliged to do favours for these students.

Lower year students feel the crunch the most as they simply lack the practical experience found in more senior students. In addition to a continual search for jobs and settling for labour jobs, the article also recommends students switch streams to avoid the job crunch.

Field coordinators believe that the spring term has been as bad, if not worse, than the last recession of the early 1980s in terms of placement. Even though the fall term is traditionally the easiest placement term, coordinators still warn: "Stick with what you've got."

Spring 2001 Issue 7 - May 18, 2001

Alex Matan, 3A Electrical & Arts, reported a rogue goose attacks. "As early as 8:25am on 8 May, a male Canadian goose was attacking anyone walking along the path along DWE immediately outside the Enviro Eng fourth-year study room. People on foot were considered intruders and were chased and hissed at. Those on bicycles or carrying open umbrellas were taken to be large predators and swooped upon and goosed with ferocity.

A woman tried to pass through the goose's security zone in her bicycle at low speed and took a hit to the shoulder as the goose flew at her. She was knocked off her bike and into the wall of the DWE, but she apparently suffered no injuries. One man who suffered an aerial goosing attempted to punch at the bird, but it is unknown if he was successful in repelling the attack, or if he simply ran out of the security zone and the bird left him alone.

Two campus police officers arrived at 8:35am and chased the goose by outstretching their arms and clapping loudly, presumably pretending to be more dominant, longer-necked geese. A nesting female was later discovered on the roof of the fourth-year room. In the afternoon the male goose was observed patrolling the security zone on the ground and perched from the roof of the fourth-year room, but contained its aggression to hissing.

Campus police were contacted by telephone on 10 May to determine if any particular goose pacification procedure was in place at UW. The officer who answered the phone stated: "We just kind of wing it."

Spring 2007 Issue 6 - May 23, 2007

Ali Damalipour of 3A Geological Engineering reported Jobmine was expected to be retired in 2009-2010. "In the pre-JobMine era, Waterloo co-op students had limited computer tools to use as a part of the employment process. This changed with JobMine in 2004. JobMine was supposed to be a one-stop shop for students and employers alike. It promised to streamline and facilitate the workings of the co-op employment process. While better than the old paper method, it received a cold welcome from students in part due to its lack in ease of use, frequent service interruptions, and the less-than-ideal matching algorithm it used to rank job seekers and prospective employers.

Instead of purchasing solutions from corporations or using a vendor-supplied toolkit with limited functionality, the university is looking inward for home-grown talent to make life easier for students and employers. As a result of a 2006 report reviewing the co-op process, the university is building a whole new system that is custom-made to address the unique needs of the CECS process.

Projected to be live in 2 years, the new system will be able to handle the capacity of 5000 students in the co-op selection process per term. The idea of the new system is to improve the information-sharing between students and employers and improve the type of information shared. It will not be just about posting a resume, but also about what's in the resume. At the end of the day, it's to help students find the best employers and to help the employers identify the best candidates to interview."



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ENGINEERING DEBATE COMPETITION

CASH PRIZES

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11:30 am—1 pm, EIT 3141

JUNE 4
Noon, Finals outside POETS

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ENGINEERING SOCIETY EXECUTIVE REPORTS

Presidential Report



SCOTT RANKIN
PRESIDENT

It has been many dark and ominous years since those dreadful events that occurred that faithful day at Aunt Ethel's brothel. The gurgling noises made by Aunt Ethel still ring deeply in my mind, the sight, the horror, it was terrible, she loved those Oreos - it was just too soon for her.

I found myself a blackened, gloomy looking log cabin; the walls coated with thin sheet of infested moss, green the colour of envy. The table I sit at is poorly constructed and termite ridden, it shakes and wobbles as I am brooding, the table is stained with blood Oreos and my tears. I love you so much, why has it come to this. I stand up and move towards the stuffed lynx, it must have been a majestic creature when it lived, danced and frolicked with the other animals and unicorns; its fur is now soaked in blood, what has happened here. I shamble pass the piles of Oreos towards the door, barely able to lift leg after leg. Thighs burning, calves ready to give out, I reach the door and fall through it.

The scene in front of me is indescribable, wall to wall appliances, clothing, food, and other goods and services. What is this place? It's so wonderful, anything I possibly want is here and the prices, so low? This store is magnificent. I slip into the frozen food aisle, and the sight I see is terrible and frightening, a giant vicious pot belly pig. Its jagged teeth stained with flesh grin at me, the look in its eyes are obvious, he is hungry, maybe this was the cause of the disaster in the log cabin.

In this split second I reflect, what has happened since Aunt Ethel has died, how have I come to this, how did I get here? Was it the man in grey suit that did this to me? I am so confused.

I run, run faster than I ever have before, I can taste my sweat on my tongue, I am so out of breath I can taste blood. I plough through the cashier who screams, and dive through the revolving door, scrapping my knees and look up at the sign. The glowing sign in the night sky, it reads,

Walmart

-Smokey the Bandit

PS: EngSoc is Good.

VP External Report



KEVIN LING
VP EXTERNAL

Hi everyone, welcome back to campus. There's been quite a bit of excitement in the External world over the last four months so I'll start off with a quick summary of what I've been up to.

At the start of January, Scott and I went to glamorous Hamilton for the Canadian Federation of Engineering Students annual Congress meeting. We met with executives from engineering student societies from all over Canada and learned a lot about how things are run at different universities. That gave us a chance to see what works and what doesn't work so hopefully we've learned lots that

we can take back and better serve our own EngSoc. Then back in February, I attended the Engineering Student Societies Council of Ontario's (ESSCO) First Year Integration Conference along with Myles Tan and Vlad Katkov.

As for new business, there are two things that I want to announce right now. The Waterloo Engineering Competition (WEC) will be coming up this term. WEC is still in the planning stages right now, but there will be an announcement made shortly about when it will be held. Also, I am currently looking for delegates for the ESSCO Annual General Meeting. As of this writing, the applications should be due on the night of publication, but if I'm feeling nice I might extend it by a day or two. We'll see. Just check the front page for the EngSoc website for more details and how to apply.

VP Finance Report



MINA LABIB
VP FINANCE

Howdy Do EngSoc-erinos,
And welcome to Spring term 2010. This is my first (and only - L) term as your acting VP-Finance, after which the infamous Jon Warren will take charge. Nonetheless, I will be doing my best to be effective in the short time I have.

One of my plans this term will be to revamp novelties. Jon and I have been looking into new products and changing the presentation of the store. Hopefully, these changes will attract more people into the store and increase sales.

As for budgets, I will have hopefully received all of your proposals by the time this article is published, and will be working hard on accom-

modating everyone's requests. Spring term is usually the one with the lowest budget, so it might be a bit hard to accommodate the bigger items, but let's worry about that when we get to it.

Last week, I attended a teleconference between the VPFs of ESSCO. Interestingly enough, UW dominated the conference with 3 VPFs (Jon, myself and Marc from Asoc) as well as Alessia who is ESSCO VP-Services. The other attendees were the VPFs of UWindsor and UofT. I am proud to say that we seem to have the smoothest running society financially, and I would like to thank Mary Bland for this, as this is, in no small part, due to the great work she does for us.

In conclusion, I would like to say that roses are red and violets are blue, and for heaven's sake, budgets are due.

Adios Amigos,
Mina

VP Education Report



ALEX HOGEVEEN RUTTER
VP EDUCATION

Alex here, looking forward to working with you all over the next 12 months to do everything we can to improve the quality of UW Engineering.

The PDEng Renewal Task Force was a success and has already implemented changes, including a percentage-based marking scheme. I'm not going to dwell on the past, but info is available at <http://www.engineering.uwaterloo.ca/pdengrenewal/home.php>, askthedean@engmail.uwaterloo.ca, and elsewhere in this fine paper.

The curriculum committee (with three student members) is looking forward to designing a revamped curriculum, which will then be available for profs to bid on to create. If you have great profs who you think might be capable of writing/designing these courses please let them, myself, or the new director, Gordon

Stublely know. Also, if you have any ideas or comments about what should be in the new curriculum, please let us know as well. In the interim, KEEP DOING PD ENG and WORK TERM REPORTS. Please don't not graduate and then blame us for not warning you.

Also, I am working with Co-op to ameliorate the job situation. Try and encourage former employers, professors, family members and other members of your network to hire co-op students. Most importantly, be willing to accept jobs outside your desired geographical location, and be willing to compromise on other factors (a low-paying job is better than no job). You can always email me (or find me in the Orifice) if you have ideas about how to improve co-op.

Also, don't forget to take advantage of CECS's services to help you in your job search, including finding jobs outside of Jobmine.

Finally, if there are any university policies you would likely to address, or workshops you would like to see run, let me or your class rep know and we'll do our best. Cheers!

VP Internal Report



PETER KELLY
VP INTERNAL

Hey Engsoc,

First let me apologize for Scott's report, he was off his meds again, and gets... "creative".

So here's what's happening:

May 25th

Rockband Competition

POETS

May 26th

EngSoc Meeting #2

CPH 3607

May 27th

Enginuity

June 5th

2012/2013 Wonderland Trip

June 9th

EngSoc Meeting #3

CPH 3607

June 10th

Genius Bowl

This is just a quick overview, if you would like more information on anything EngSoc related please email me a bsoc.vpint@gmail.com or checkout www.engsoc.ca

I hope everyone is having a good term so far, here is a poem about cheese:

There's nothing quite like a piece of cheese to nibble upon for pleasure and ease.

No matter the time or state of mind greater joy than cheese you'll never find.

Served on a cracker or a soft piece of bread a morceau de fromage will please your head.

Roquefort, camembert, brie or blue served with fruit or in a fondue.

- Peter

WEEF Director Report



GRAHAM STONEBRIDGE
WEEF DIRECTOR

She only turns twenty once, but she always parties twice.

That's right, folks - The Waterloo Engineering Endowment Fund turns 20 this year! To mark this occasion WEEF is holding two birthday celebrations during 2010 to share our love and appreciation for both engineering societies.

A-Society threw their edition of the WEEF party on the 22nd of March. There were t-shirts, buttons, cake and merriment. B-Society is holding the spring celebrations this month. Mark your calendars: CPH foyer, May 20th, 10am to 3:30pm. We hope you enjoy!

In other news, the WEEF return period is now open. If you would like to get a refund for your \$75 donation, follow the link at www.weef.uwaterloo.ca. The deadline for returns is May 21st at 11:59pm. If you are looking to seek funding this term, visit the WEEF website and look for proposal forms. The deadline for proposals is not yet set, but will likely be mid-June.

We hope you like our giant yellow banners in CPH Foyer - they list every item that WEEF has financed with your continued support. Thanks to everyone who has donated to WEEF over the last two decades!

Finally, I would like to mention that the WEEF board of directors will be meeting this month to establish spending limits for the next fiscal year. If you have any concerns, please email me at weef@uwaterloo.ca.

Next EngSoc Meeting

May 26, 5:30 P.M.

CPH-3607

'Sweeping Changes' Coming as Early as Winter 2011

TOWN HALL from Page 1

courses for WatPD-Engineering, the academic oversight committees, the program objectives, and also how current students would transfer to the new program. Current students in the program would finish up to PDEng 25 and then complete their program requirements from the electives available from WatPD or soon to be developed WatPD-Engineering electives.

Sasha Avrelina was the last on stage to speak about the Task Force process. Avrelina spoke about the Student Experience with regard to the process, near-term changes, and the future before passing the mic back to the Dean for a presentation conclusion.

After Dean Sedra concluded the presentation, the floor was opened to questions from the audience. Questions, directed to Dean Sedra who moderated the Q&A period, were answered by the Dean himself. Recently appointed Academic Director Dr. Gordon Stublely, Dr. Wayne Parker, Associate Dean CEPA and Chair of the Task Force, and the Director of WatPD, Judene Pretti.

One question from audience member stated that many people have contact with

first years and future students and asked what they have been told regarding the PDEng situation and what current students should tell them. This was of particular importance since many students generally hear about PDEng and the associated negativity regarding the program which could affect their decision to come to Waterloo. Nevertheless, Dr. Stublely told the audience, that speakers at You@Waterloo Day will be putting together something to inform students in large groups on the changes as well as references to PDEng will be removed from the admissions packages.

Also, many questions came up regarding the selection of the three WatPD-Engineering courses to be taken after the two core courses. Some confusion came up with people questioning if they have three courses which they are forced to take like PDEng or if they had a choice of several courses. The responses from faculty did indicate students will be able to choose between the many WatPD courses already offered or even new WatPD-Engineering courses that might be developed specially for engineering students with an engineering focus. Furthermore, some students in

the audience indicated that they may want to take a WatPD-Engineering course that interested them on the final co-op term even if they had fully completed the PDEng program, and by the sound of the response of the Dean Sedra and Pretti, those who wish to complete a course on their last work term may be able to do so.

Also, the Dean acknowledged the time line to create the new WatPD-Engineering core courses for students is very ambitious. A question came up asking what contingency is in place if a high quality course is not ready in time for Winter 2011 - the Dean replied that PDEng 15 would then be taught instead.

Interestingly, on the topic of WatPD-Engineering curriculum testing, Dr. Stublely mentioned high school students in grade 12 will be recruited to test the new WatPD-Engineering core curriculum and not current engineering students to see how new people without prior knowledge of the material react. Even though current students would not likely get to try the material before given to next year's new students, Stublely did state student representatives do sit on the Curriculum Committee and would be able to provide

feedback.

Near the end of the meeting, some confusion arose on the subject of Work Term Reports. One of the recommendations in the Task Force report was to reduce the number of work terms from 4 to 3. This gave some members of the audience the idea that since they had completed three work term reports already, their final one wouldn't need to be submitted. Also, some first year students on co-op questioned if they would need to submit their first work term report based on this recommendation. Wayne Loucks, Associate Dean for Undergraduate Studies cleared the confusion by stating, "There is no change to the calendar, the degree requirements are as they are. If you don't hand in a work report when you're supposed to hand in a work report, it'll go into your fail count."

The final question of the night was about the WatPD-Engineering curriculum committee and their existence after the curriculum has been created. Dean Sedra replied by stating "this will be an on-going committee operation."

For recordings and slides from the PDEng town hall meeting, check out the PDEng Renewal Task Force Page.

WatPD-Engineering: Out With the Old, In With the New

REPORT from Page 1

second resubmission will be available for each major assignment, which will be due within the first two weeks of the following academic term. This will allow for students to discuss with their mentors problems with the assignment in person.

The first long term goal is to change the PDEng curriculum from five core courses that everyone has to take to two core courses that focus on practical skills for the workplace that engineering students

will need. The remaining three courses will be elective courses depending on student goals, such as project management, contract negotiation, and preparing for the professional practice exam. Right now, the change in the curriculum needs to be approved by senate, and will ideally be completed for the class of '15, while the change to elective courses may start for the '12, '13 or '14 class, depending on when changes get approved.

Another long term goal involved the cre-

ation of a committee which is now called the "Curriculum Committee" with representation from all departments that will review all course content and make changes as needed. This committee, which has already been created, will work on ensuring content is more instruction based and will deal with the complaints of course material from students. The committee will look to also ensure assignments are not completely relied on by work term experience, with more consideration given to students with

unique work terms, and different types of media that can be used for teaching purposes than just from PDFs.

Overall, many changes are going to be going through with the PDEng programme. For those who are on co-op right now, you will see a big change from the previous term on how the courses will be run. For those who are still doing courses, look out for when the major changes, like the switch to two core courses and three elective courses, are made.



LEATHER JACKET DAY

Wednesday, May 26
10:00 am to 3:00 pm
South Campus Hall



Save **\$60** on Leather Jacket Day.

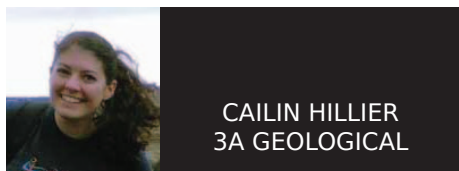


south campus hall
waterloostore.uwaterloo.ca

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After the Fire: The Future of Mel's Diner

The Iron Warrior sat down with owner Jerry Smith to talk about the future of the restaurant



CAILIN HILLIER
3A GEOLOGICAL

I think everyone was shocked to hear about, or witness firsthand, the fire that engulfed the Campus Court Plaza on April 22, 2010. For those of us returning to campus from co-op for the S10 term, the fenced off parking lot was all that remained. The fire started in the early hours of the morning and although firefighters worked tirelessly to contain the flames, significant damage occurred. In the blaze, businesses including Mel's Diner, Mr. Sushi, Tabu, University Vision Centre and Sugar Mountain were completely consumed. It is now known that the fire was electrical and the point of origin was the DJ booth at Tabu. Much of this is already known to the UW students currently in town; however I wanted to know more. What is to become of our beloved Mel's?

Upon speaking with the owner of Mel's Diner, Jerry Smith, it has become clear that Mel's will return, but when this will happen is not yet certain. In its current location, Mel's would take approximately a year to reopen. Finding out information from the city about starting construction efforts has been described as a "hurry up and wait" process by Jerry due to all of the red tape and permit applications required. It may even take as long as three months to start digging and begin to rebuild.

Naturally, Jerry has contemplated alternative locations to start a new Mel's Diner. About a week before the fire, the HMV currently located in the plaza was select-



Angelo Alaimo

The checkered tile floor is all that currently remains of Mel's after the April 22nd Fire

ed as the location for a new Burger King, opening there soon. This would have been an ideal location for Mel's, but very unfortunate timing has removed this possibility. Jerry said that if Mel's were to move, it would probably be farther from the UW campus, hindering student access. Overall, this process looks as though it will be a long one and definite plans are still unclear.

However, in all of this loss, it's important to remember all of the fond memories

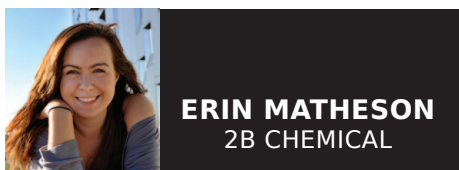
we have of Mel's Diner. Mel's opened in 1995 and was an immediate success among the student crowd, as well as Waterloo residents. When asked about his fondest memories of Mel's, Jerry recalled the many instances of 3am outbursts of the song "Sweet Caroline" and how nonstop the diner was over its 15 year run. Jerry also commented on how rewarding it was to work with University of Waterloo. Specifically, Jerry and his wife happily provided

a free breakfast for thousands of first year AHS and Environment Faculty students and leaders during frosh week over the past ten years.

Mel's Diner has certainly been an integral part of many students' university careers and will be greatly missed. Jerry would like to "thank everyone in the community for their support" and that he will be seeing us again soon. And so now we all wait for the triumphant return of Mel's.

CFES Renegotiates Agreement with bonding

Delegates meet with Germany's national technology and engineering student organization



ERIN MATHESON
2B CHEMICAL

This past week, four brave CFES representatives (Atilla Hertel, Balaz Hertel, Erin Matheson and Samantha Pinto) traveled to Dortmund, Germany for bonding Camp 2010. Camp, also known as bonding's Annual General Meeting offered some insight into the current operations of German engineering students, as well as a glimpse of the sights, sounds, and carbonated taste of the German culture.

Firstly, who are these bonding people and what do they want from us? Similar to CFES, bonding is a national engineering and technology student organization in Germany that was first established in 1988. The focus of bonding is to offer development and improvement opportunities for its members and provide connections to industry. Unlike CFES, one must actively become a member of bonding, and can do so by joining one of the 11 local groups that make up the organization. Each group acts similarly to our very own EngSoc by providing its members with most of the services that bonding is known for. What bonding does better than any other organization of its kind is job fairs, as each local group puts on one per year. Each group brings in between 60 and 260 companies over the course of 3 days, allowing for both bonding members as well as their surrounding community to search for internships and full-time jobs related to their field of study. Groups also put on local company visits, soft skill training

sessions by both the group as well as company representatives, and formal dinners with companies. Since 2000, bonding as a whole has also developed its own internal training system, which offers workshops on soft skills such as project management and discussion facilitation, and bonding European Workshops (bEW's) which are complimentary education courses that are very similar to CFES CE courses.

The first part of Camp this year was the International Summit between CFES and bonding. This meeting was meant to serve both as a forum for sharing ideas, and as an opportunity to renew the cooperation agreement between these two groups which expired at CFES Congress earlier this year. bonding and CFES have been working together in varying capacities since their first contact with each other at the Board of European Students of Technology (BEST) General Assembly in Stockholm back in 2000, and this agreement was originally written as a formal, documented representation of this relationship. The spirit of the agreement is "to learn and develop from each other by sharing information and expertise on both national and local levels for the benefit of our members," and the agreement goes on to define this in more formal terms. It states that two CFES delegates shall attend Camp every year as well as a bonding Presidents Meeting, and that two bonding delegates shall attend Congress as well as the Canadian Engineering Competition. It goes on to define collaboration in areas such as job fairs, career support, complimentary education courses, competitions, member training, as well as the sharing of information stored in each respective organ-



Erin Matheson, Atilla Hertel, Balaz Hertel, and Samantha Pinto traveled to Germany to represent CFES at bonding camp 2010.

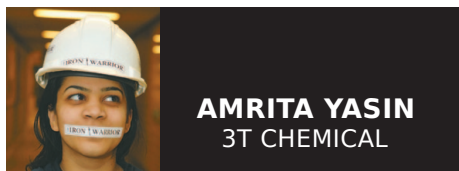
ization's online database. Additional clauses were added to this revision to address some frustrations which were raised during the meeting, including language barrier issues, communication to the other organizations general members, as well as addressing how to approach new collaborative projects between the two groups. Following the cancellation of the International Engineering Competition (IEC) in December of last year, a clarification was made that such projects would require their own written agreement, so that should the project fail, the status of the original agreement would not be jeopardized. The revision of the agreement was completed, and will be approved by both organizations by the end of the year.

The remainder of the week was bonding's annual 'Camp', which was almost like

Congress, but in the wilderness, and with truckloads of beer. Literally. Workshops and the elections of their new Presidents and Ambassadors were accompanied with theme parties, bonding's famous 'Rally', as well as a regional evening where each group brought food and drinks native to their part of Germany, all of which made for an unforgettable week. Although this was the first year where more than two delegates were sent to camp, this is the start of a trend that is most likely to continue in the future, not only for Camp, but for other bonding events as well. I'd highly recommend for anyone to attend any of bonding's events or conferences if given the chance, as it's a guaranteed unforgettable way to truly see what 'German Engineering' is all about.

Northdale Neighbourhood: Visions for Change

Neighbourhood debate goes to final city council showdown June 7



AMRITA YASIN
3T CHEMICAL

Enrollment at University of Waterloo has been increasing every year and things are no different at Wilfrid Laurier University either. This has inevitably resulted in an increase in student occupancy of the areas adjacent to the universities such as Keats Way, Uptown Waterloo and primarily Northdale. Northdale which roughly lies between Uptown Waterloo and the Research and Technology Park has been a topic of much debate recently. This area, due to its location between the two universities is desirable by a very large population of students and is dominated by students particularly since the City of Waterloo allowed licensing of rental units in this area.

The increasing student population has resulted in complaints from the permanent residents over the years including and not limited to public drinking, littering, excessive noise, violence and damage to property. Such complaints mainly originate from the area bounded by King Street, Columbia Street, Lester and University Avenue which has gained the reputation of being a “student ghetto”. This reputation is further preventing families and the tech-savvy employees from moving into Northdale.

In order to address the issues of providing safe, affordable and close to campus housing to students and to lessen the hostile attitudes of the residents towards students UW conducted the “Student Accommodation Study” (SAS) in 2004. As a result of the study, a long term plan for the development of student housing in the neighbourhoods adjacent to the universities was drafted. The Universities Neighbourhoods Plan, as it is called, encourages more apartment development in “Nodes and Corridors” near the universities and also discourages further conversion in low residential neighbourhoods by limiting the number of lodging houses, accessory apartments and duplexes, in order to maintain the low density residential neighbourhoods.

Waterloo residents are not satisfied with the approach that the City is taking and some residents from Northdale Residents Association and the rest of the city have proposed a different plan under the banner Help Urbanize the Ghetto in Waterloo - HUG Waterloo. HUG Waterloo wants a mixed neighbourhood in Northdale which would be no longer dominated by students.

It suggests a “green” solution and requires restructuring of the entire Northdale area to convert it to a sustainable urban living area with parks, and lots of trails and sidewalks - a potential car free neighbourhood. The residential units will be five and six storey condominium buildings having one or two bedroom units, with shops, services, cafes and restaurants occupying the ground floor. HUG believes the current situation of the Northdale is a blot on the City of Waterloo, one of the most intelligent communities

in the world with two universities and a well-reputed high-tech sector.

These two plans, the one in place currently as of the release of UNP and the proposal by HUG Waterloo are being officially considered by the City of Waterloo. A City Council meeting is to be held on June 7, 2010 where the City will hear a presentation from the City of Waterloo Development Services and Protective Services staff regarding the merits and demerits of the two proposals, lessons learned from the SAS in relation to Northdale and tools and resources available to the City to implement either or both of the plans.

According to Bradley Moggach, President of FEDS (Federation of Students), both plans fail to address the actual issues. He commented, “The major issues are creating a long-lasting sustainable solution that allows for affordable housing, a safe and secure environment, and addresses the needs of all stakeholders (including students). [Unfortunately] Student friendly plan isn’t being implemented by either proposal.” Moggach further went on to say that the UW Administration is of the same thought as it realizes that the root issues are not being tackled by either of the proposals; consultations have taken place between UW and Laurier adminis-

“Although there are positive elements contained within both plans, there are significant drawbacks for students.” - Bradley Moggach, FEDS President

Vision A	Vision B
Maintain low rise, low density character of interior of the neighbourhood.	Allow intensification and mixed uses within the neighbourhood.
Encourage intensification and mix of land uses in the edges of the neighbourhood in the designated Nodes and Corridors.	Have diversification of households including longer and shorter term residents.
Encourage a range of households including longer and shorter term residents.	Require “world class” design and environmentally friendly design
Encourage high quality urban design where intensification occurs.	Support a car-free neighbourhood

trations and the student societies and a viable solution requires a very involved role from the stakeholders too.

Moggach further explained, “Although there are positive elements contained within both plans, there are significant drawbacks for students. The City’s Vision Plan, the one currently being utilized, essentially develops the nodes and corridors of the neighbourhood, attempting to move students to the outside of the neighbourhood. We encourage our students to live close to campus in a safe and secure environment and the current developments do not support student needs. Many of the new developments being built are high

density, large unit buildings, far from amenities. The HUG Waterloo Plan is not a viable and sustainable solution for students because there are concerns about housing costs significantly rising and potentially becoming unaffordable for students. The HUG Waterloo Plan was proposed by a minority of residents in the area and does not reflect the needs and concerns of all stakeholders, specifically students.” Moggach stressed that UW has considerable different demographics and student needs due to its co-operative education system and that needs to be taken into account for a sustainable solution.

When asked about the student opinion on these two plans, Moggach commented that student opinion is difficult to gauge just by what is presented to the students. The solution by HUG Waterloo is labeled a green solution which students will agree with without understanding the full ramifications. The students who live in the neighbourhood know what the issues are but they are not aware of the sensitivity of the current situation. They do not realize that the issue is coming to the Council, and the resources that are available. Co-op students from UW do not even live long enough in the neighbourhood to understand the fundamental issues. Although students form the major proportion of the stakeholders in this matter and FEDS is emphasizing involvement from all stakeholders it’s surprising that no formal initiative has been taken by FEDS and the UW Administration for that matter, to spread awareness about this issue among the student body at large or obtain their input.

A representative from FEDS will be making a presentation at the City Council meeting on June 7th. When asked about the content of the presentation, the FEDS President said that FEDS would work with the Bylaws, Policies and Procedures Committee (BP&P) to construct a policy which notes the lack of support for either plan, outlines what students needs are and the lack of consultation that has been done to date. Furthermore, BP&P will be encouraged to write a policy regarding future developments in neighbourhoods with a significant student population.

Both FEDS and HUG Waterloo agree that it is fundamentally not a students-versus-residents issue as the media is portraying it. A sustainable solution that caters to the need of all stakeholders will involve extensive consultation. As students it is our duty to be aware of what is happening and take active part in determining the future of our University neighbourhood.



Angelo Alaimo

Student residences like this one on Lester St. continue to rise in Northdale

POINT VS. COUNTERPOINT

POINT

Should students be allowed to lecture an entire course?

COUNTERPOINT

Preamble: This term, the ENVE 330 Field Sampling and Techniques course overhauled its teaching style. In order to “give students a chance to develop presentation skills,” the class’s lectures are now entirely peer-taught. The students were split into 9 groups, and each group was assigned a topic about which they will prepare and present a 3-hour lecture. This is to be done for the remaining 9 weeks of lectures.

TREVOR JENKINS
 2B MANAGEMENT

When I first heard of the new trial of student-lectures for ENVE 330, I was intrigued by how students were being given a unique and innovative method to learn. What I was shocked to find was how much opposition the Iron Warrior staff had to it, and apparently the students undergoing this trial project. This trial offers a unique opportunity for students to develop communication skills, organization skills, and developing the ability to simplify complex ideas for anyone to understand.

Communication skills are constantly touted for their importance in engineering, despite the fact that a good number of those among us are really lacking in that department. Failure to communicate in a simple and easy way can lead to dire consequences—both professional and personal. Not being able to do the “sales pitch” for a new product or solution to a potential client can mean losing a big contract, which will severely limit your growth in a company.

Being aware of how you say a particular piece of information is also critical as something simple can be taken two very different ways. For instance, the phrase “when dealing with flowers, you can never use too much water” can be taken too very different ways. The first interpretation could be “plenty of water is required for flowers”, while the second would be “too much water is dangerous for flowers”. These two very different interpretations arose from the same phrase. While when dealing with flowers people generally know they require water but not to over water them, the same cannot be said for how much water a new patient requires when using a new drug, or how much water may be required for cooling a new material down.

These sorts of communication skills are something that you don’t learn by reading a book or sitting in a lecture. These require you to get up in front of people and start practicing, and using their feedback to revise your presentation skills in order to ensure that the flow and material are logical and easy to follow. By allowing students to give lectures and receiving feedback, individuals

will know what they did well, what went wrong, and what they liked from seeing other people present. Practice makes perfect. We all know why our favourite professors kept our attention, and why others are able to solve insomnia when they get to the front of room. Getting the experience and making mistakes is the only way to know what you can develop any major skillset.

Student-led lectures are also a great way to help develop organization skills. Having to learn the material and understand it, make a lesson plan and then practice it is a key skill that many underestimate. It’s obvious when someone gives a presentation that is poorly prepared and obviously did it at the last minute— or worst— when they borrow someone else’s slides and seem to be seeing the material for the first time when the slide comes up. Being able to effectively manage your time to make sure you can get everything done is a huge undertaking, but also a great learning experience.

Finally, the opportunity to teach new material forces individuals to figure out how to best describe complex systems in layman’s terms. Technical individuals— especially engineers— have the habit of talking over the heads of their audience. Being surrounded by people who are generally “smart” means that we get stuck in the habit of expecting others to know all the basic principles of engineering to understand. No normal person does. Therefore, talking engineering goes WAY over their heads. For people who end up working on highly technical teams this isn’t usually an issue. For engineers who end up at public information sessions to defend their recommendations (most likely civils and enviros), doing this could have disastrous consequences. Getting the chance to get in front of a class and making the complex jargon from the textbook into something that’s understandable is a skill that has huge potential power.

From the outside, the student-led lectures proposal is a progressive step forward in engineering education. The potential is there for the students involved to greatly develop their organization, time management and communication skills. Whether or not that actually happens is anyone’s best guess...

HOBYUNG LEE
 2B MANAGEMENT

Two weeks into the semester, hearing that the remainder of an engineering course will be taught completely by students had me laughing. Of course, it had to be a joke right? I mean, we the students don’t pay six grand a semester to be taught completely by our fellow peers right?

Yaaaaaa-no.

As mentioned above, the ENVE 330 Field Sampling and Techniques course was overhauled such that students will be teaching the course for the rest of the semester. This is done to develop the presentation skills for the students.

As human beings, let alone engineers, it’s absolutely essential to develop proper communication and speaking abilities. We design stuff, and we have to then communicate this stuff to the people who will make this stuff. If we can’t properly get our ideas from our heads to our mouths then to people’s ears, we’ll end up with the engineering equivalent of Tiger’s apology speech: an utterly, epically huge fail. We need to be able to communicate, I get that, but at the expense of an entire semester? That’s just bologna. And I hate bologna.

Let’s start with the most glaringly huge redflag: Money. I don’t know exactly what the average tuition is for an engineering student here at UW, but for this Spring semester, I paid \$5900. For arguments sake, let’s just assume that the average tuition cost is \$5900. Now, lets look at the number of courses a student here will take. I’m taking five, so once again lets say for the sake of our argument that everyone else does too. Now, bear with me here, but if I do some heavy calculations, utilize some MATLAB skills... carry the one... find the determinant... That comes down to about \$1180 per course. What if I was an international student? It would then probably be somewhere in the \$346,532 per course range. If I was a student in that course, I would

be livid. Stupid livid. I’d be Heidi Montag livid after she realized that nobody liked her new face. We are not paying that much money to be taught by fellow undergraduate students.

Let’s say I’m the kind of person who comes from a background where money just spews out of my tushy. What’s \$1180? Fine. If anybody is going to tell me that the quality of teaching is going to be better because the student-teacher can better relate to the kids, you’re smoking some of that devil’s cabbage. Teaching is not easy. Try having enough information to cover a 50 minute lecture let alone a THREE hour one. It’s tough stuff. It comes from practice. How many of us have had some brutal profs? More so than the good ones right? And the profs probably have some more experience than a group of engineering students. Because of the fact that there will be a new student group ever lecture, there will be zero consistency. It’s going to be all over the place and it will have no flow.

The argument that this course is easy, and that this course can get away with an entire semesters worth of student-teachers begs the question: what academic merit does this class have? What is it doing in our curriculum? What does it say about the credentials of the contents of the course if it can get away with NINE weeks of nothing but student-teachers? I know that not every course has to be brutally hard, but what does it say about our curriculum if there exists a course that’s so non-chalant, so shallow in substance that it can be taught with no greater knowledge of the subject itself? The last time there was a course so weak we had designated an entire task force to overhaul the bloody thing.

Look, communication and presentation skills are absolutely vital for anybody who wishes to do well in their careers, both academic and professional, but to devote what amounts to basically an entire semester of this student-teacher lectures comes at the expense of the other crucial aspect of our careers: The academics.

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.

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CUTC 2010 Hosted in Toronto

Strong Waterloo team helps showcase innovative technology



ALEX HOGEVEEN RUTTER
3A ELECTRICAL

2010 marked another successful year for the Canadian Undergraduate Conference, a gathering of technology-oriented students from British Columbia to Quebec. Originally founded 10 years ago by a (former) Waterloo undergraduate, Jonathan Kwan, Waterloo continued its strong presence in organizing the successful event. Much thanks to Keith Peiris, Ivan Law, Uzair Chutani and Steven Chen, and all of nanotechnology engineering for their efforts.

A keynote from Hadi Mahabi, Vice-President of Xerox Research Canada, kicked off the conference. His speech gave a poignant reminder of the importance of primary research, especially in the wake of Bell Labs, while reminding us that in today's world, primary research must have the end goal of commercialization in mind.

Another keynote, Naweed Syed of the University of Calgary, introduced some truly novel technology that allowed researchers to control the movements of chickens, frogs and other animals through chips implanted in their nervous systems and connected wirelessly to researchers' computers. The technology was truly marvellous, and Dr. Syed discussed the ethical implications of a world in which this technology could be used Terminator-style to merge the worlds of computation and biology.

A third keynote, Bill Buxton, of Microsoft Research, discussed the importance of multi-disciplinarian teams and individuals. He talked about "T-shaped" individuals,



Courtesy: CUTC

Attendees of CUTC 2010 listen to a lecture at Ryerson University in Toronto, Ontario

with a firm pillar of expertise, supporting a broad knowledge of a variety of fields. With a bachelor's degree in music himself, he was a great lesson that an engineering degree is meaningless without backing by creativity, hard work and a broad view of technical problems.

The conference also featured three competitions: the Google Case Challenge, Dayforce Coding Challenge and Rim Infratag. The Google Case Challenge was designed to solve Google's perennial problem of failing to monetize its projects,

and featured judges from Google itself.

The Dayforce coding challenge pitted students against one another in a timed solution of 30 coding problems. Congratulations to Jonathan Ng, Ali Ahmed, and Michael Kwan - University of Waterloo students who managed to finish third, despite pitting themselves against much larger teams (including the 6-man team of winners).

Finally, RIM infratag, a high technology scavenger hunt involving barcode scan technology was a neat application of tech-

nology which clearly left this Luddite reporter and his ordinary phone in the dust.

Overall, it was an excellent experience, and I would recommend Waterloo students consider attending next year's CUTC and similar conferences, as they are truly an excellent opportunity to develop "real" skills, learn about technology and network with other students from across Canada. Check out the engsoc Calendar, or talk to Kevin Ling, VP External (bsoc_ypext@engmail.uwaterloo.ca) for more info about engineering conferences and events.

ALEXANDRA COLLINS
2B MANAGEMENT

In the past I have associated the word 'remix' with the destruction of a good song. Frequent "REEEEemix" obnoxiously shouted through the intro, rapping over the best parts of the songs or painful scratching caused me to never deviate from the original track.

My disdain for remixes changed last spring when I became a fan of the British electro-pop duo La Roux. At the same time as their first single, "In For The Kill"

was gaining popularity, Dubstep producer, Skream, released a stripped back remix of the song with a new, resounding drum line. Skream's remix helped launch La Roux into chart topping success in the UK while completely shattering my stigma surrounding remixes.

I began to find more remixes of my favourite songs from DJs like Chase and Status, A-Trak, Caspa, and Doorly who have masterfully mixed songs in to dark Dubstep anthems or raving dance tunes. By following these DJs and their remixes I have discovered new exciting artists and

different genres of music.

Websites like rcrdl.com have the largest selection of the best remixes while also showcasing the next big thing in music. This availability and the growing popularity of these DJs have meant that many new artists are gaining a massive Internet fan base before their singles are even released.

Here is my essential remix playlist featuring some exciting new artists.

1. **In For the Kill (Skream's Let's Get Ravey Mix)** - La Roux
2. **Animal (Fake Blood Remix)** - Miike Snow

3. **Fader (The Knocks Remix)** - Temper Trap

4. **You Got the Love (The XX Remix)** - Florence and the Machine

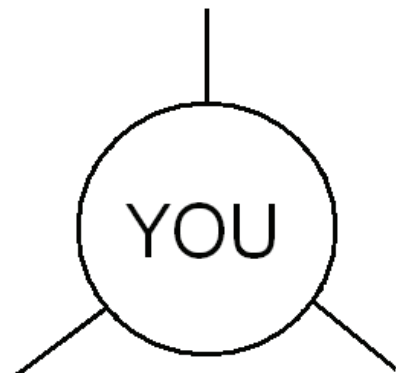
5. **Heads Will Roll (A-Trak Remix)** - Yeah Yeah Yeahs

6. **I Am Not A Robot (Doorly Remix)** - Marina and the Diamonds

7. **Heartbeat (Chase & Status We Just Bought a Guitar Remix)** - Nneka

8. **Right Hand Hi (Caspa Remix)** - Kid Sister

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Gulf of Mexico Oil Spill Inspires Change



JON MARTIN
2B CIVIL

The British Petroleum oil spill in the Gulf of Mexico has filled the news recently, on the local level as well as the international. Laws are being questioned, government agencies rethought, and public opinions being changed. When the horrible event is behind us, hopefully some positive change can come from it.

The biggest impact that is currently being felt in the industrial-political field is the ban of oil drilling in the United States and Canada. Soon after the original explosions and fire consumed the Deepwater Horizon drilling platform, US president Barack Obama put a hold on all future drilling projects. This

shutdown was accompanied by mandatory inspections of all existing platforms. One of the biggest problems that has led to the current tragedy has been the failure of safety mechanisms. The BP drilling rig was outfitted with fail-safe valves to cut off the flow of oil in the event of an accident or equipment failure, unfortunately it failed as well, leading to the continued disaster.

Changes to future drilling operations have also occurred in Canada, particularly in the east. The oil rich areas around George's Banks, the valuable fishing area split between Canada and the United States, have been given even stronger protection against drilling. The government of Nova Scotia passed a bill extending the ban on oil drilling in Georges Bank from 2012 to 2015.

In addition, the US ban mentioned previously protects the US portion of the area until 2017. The oil spill appears to be forcing politicians to realize the dangers posed by oil drilling, and recognize the valuable ocean environments that support us as well as the natural ecosystem.

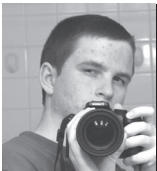
The most intangible change is to the public opinion of offshore oil drilling, which has definitely come across as the villain over the past month.

The United States will also be seeing changes in the way its federal agency overseeing oil drilling. The current agency is responsible for monitoring and regulating the oil industry, as well as collecting royalties from the same companies. For a long time this set-up has drawn criticism from US lawmakers and environmental groups for the high potential for bribery. While it seems obvious now that having one agency responsible for regulating and fining oil companies

while simultaneously tasked with keeping the flow of oil into the country and the royalty fees steady, the oil spill has now brought this oversight to light. U.S. Interior Secretary Ken Salazar has stated that the current agency will be split into two separate agencies, one responsible for monitoring and regulating, and the other for leasing and collecting royalties.

The most intangible change is to the public opinion of offshore oil drilling, which has definitely come across as the villain over the past month. People, and politicians have laid the blame for the accident on British Petroleum, who has blamed Transocean Ltd (the owner of the drilling platform), who has blamed Halliburton Co, the one who was operating the platform. As company executives point the finger at each other in an attempt to save face and stock value, the public opinion on offshore oil continues to get blacker.

While You Were Out: Winter on Campus



MICHAEL SELISKE
2N COMPUTER

If you didn't already know you are on Society 'B' and while most of you (except for some of the ECE students) were away on co-op, Society 'A' was hitting the books on campus and I am going to attempt to make you relive their experiences through this article.

A notable omission from the regular group of students roaming the halls this term are the class of 2010, who graduated last term. IRS is a big part of the winter term and this year the date was moved back to its original February time slot instead of the late March date the previous year. Only a few drinking in public tickets were

issued and to my knowledge nothing major occurred on the Friday that IRS was celebrated on campus. The fourth years enjoyed their rings for the rest of the term, and touched the Tool at every opportunity.

This winter marked the end of another executive term which means a new executive needed to be elected. Only VP Finance and WEEF were contested with the others running unopposed. Your new 'A' Soc executive are Tim Bandura (President), Marc Tan (VP Finance), Leah Allen (VP External), Sean Walsh (VP Internal), Eric Cousineau (VP Education) and Praveen Arichandran (WEEF). Speaking of WEEF, it has been in existence for 20 years as of March 2010 and every expenditure they have ever made is listed on the big yellow banners which were erected in the CPH foyer for WEEF's birthday celebrations. The founder of WEEF made an appearance

at the birthday celebrations and cake and t-shirts were given out to students. Stay tuned for this term's birthday celebrations.

Another event which only happens once per year which means once every two years for each society, is the annual Bus Push in support of the Canadian Cancer Society. This year \$5000 were raised by pulling a bus from campus to downtown Kitchener. Engplay was a little bit different last term, where a general outline was given to the actors and the rest was more or less improv. Mina and Andrea did a great job and the sometimes over excited Saturday night crowd was very well behaved.

The POETS managers had a few new things up their sleeves with a special Wednesday, green beer St. Patrick's day celebrations as well as a Super Bowl party on Super Bowl Sunday where POETS was also licensed.

The rest of Ontario interacted a lot with Waterloo last term with such events as ESCO Hockey and FYIC which provided an excellent opportunity to show other Ontario schools how awesome we are. A major event which happened in the halls of Waterloo was the Ontario Engineering Competition (OEC 2010) which has been in the planning stages for around two years and was executed with only a few minor hiccups by a very dedicated team of volunteers.

Many of the events from last term can be seen on the new EngSoc YouTube channel with the username "UWENGSOC". You can also see Engplay from last term as well as old frosh week videos and the EOT video made by Anish Buttani.

It's now up to 'B' Soc to make my next while you were out article awesome.

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It's the Most Wonderful Time of the Year

Tips to start your running routine



**KIRSTEN
HOEDLMOSER**
4A CHEMICAL

No, it's not the winter holidays where you get to go home and sleep 15 hours a day. It's not reading week.

It's not Orientation Week (even though that ranks pretty high on the list of All Things Wonderful).

It's the start of spring! The days are getting longer, the grass is growing, the weather is getting warmer, and gone are the days of ice, snow, and Seasonal Affective Disorder. Spring is the perfect time to make a positive change.

As university students, and in particular engineering students, we're regularly subjected to a variety of tortures: problem sets, late nights, midterms, crappy food because you have no time to get to the store when studying for midterms (or maybe because you still live in V1), and all sorts of self-confidence issues that are a result from the beating we take in our courses. Since it's now spring, and there's no time like the present to make a change, I'm going to suggest a way for you to beat these engineering blues.

The answer to all your problems: a good workout. More specifically, running.

No, seriously.

Full disclosure: I'm a little biased towards running. I absolutely love it, and I go slightly crazy when I miss a run. I've been running for a few years, and fairly seriously over the last 12 months. Back in first year I never thought I'd ever see myself enjoying this. I'm by no means fast or particularly talented, but that hasn't stopped me from hitting the pavement with enthusiasm every time I go out for a run. Running has helped me relieve my stress, improve my self-confidence, and introduce me to scores of amazing and positive people. If you're 100% positive that running isn't for you, that's okay. Read on! The rest of this article may still help you get pointed in the right direction with an activity that's more your speed. That said, I'm still going to try to convince you to give running a try.

I might have an idea of what's going through your mind upon reading my suggestion of taking up running. You may be thinking that there's no way you could run even 500 metres, that you'll look stupid if you give it a try, that you're just not built for running, that you've heard what it can do to your knees, or that it's just boring as heck. A lot of people have these thoughts before they take up running – I know I did. To you I say: sit tight, and let me convince you otherwise.

- First, the science-y stuff in brief: physical activity **relieves stress**. Running has been shown to be one of the best activities for **burning calories**. It's been proven that

high-impact exercises like running **increase your bone density**. Most recently, studies have shown that regular running actually **protects your knees**, rather than gradually wearing them out. Ergo: there is no reason not to try it. You have nothing to lose, and so much to gain.

- Ever hear of the **runner's high**? It's awesome. Everyone should experience it at some point.

- **Everyone has to start somewhere**. Absolutely everyone can run. It doesn't matter what your body type is, or how active you were as a kid and teenager.

- All you need to start running is an **open mind**, a **willingness to give something new a try**, a bit of **dedication**, and a **desire to do something good for yourself**. Sometimes you might need a friend to tell you not to get discouraged. I'd be glad to be that person if you need encouragement!

- Running introduces you to so many **wonderful people and places**. The first thing I do on a co-op in a new city is join a running group, because you meet about 20 friendly, open, and welcoming people right away. Plus, there's no better way to get newly acquainted, or better acquainted, with a city than by exploring it on foot.

Hopefully those few points dispelled any misconceptions or doubts you had about giving this a shot. If you're wondering how to get started, there's not a whole lot else you need to know. That's the beauty of running: you can do it any time, any place, and you don't need fancy or expensive equipment to do it. Here's how to get started:

- **Make sure you're healthy!** Talk to your doctor if you need to.

- **Wear proper footwear!** This is so important. Wearing the wrong type of shoe can result in aches and pains, or even injuries, and you probably don't want that experience. The best thing to do is to go to a specialty running store and have them take a look at your feet. They do it for free! They'll be able to look at the motion of your feet and ankles as you walk and run and recommend the best shoes for you. Two great stores in the KW area are Runner's Choice and The Running Room.

- If you've found the right shoe for you but it's too expensive in-store, don't get discouraged. Check to see if they have the same model at a department store, look on Amazon (yes, Amazon), or check runningwarehouse.com. You can also ask the clerk if they have an older model of the same shoe on clearance, or if there's a similar shoe that's less expensive.

- **You don't need fancy brand-name clothes to enjoy running**. All you need is to be comfortable. That can mean a cotton t-shirt and basketball shorts, or it can mean split shorts and a technical tee. All you need to remember is the 10 C rule: dress as if it's 10 C warmer outside than it actually is, and this will help you stay fairly comfortable

without overheating or freezing.

- **Ladies: wear a good sports bra**. Unwanted bouncing can make running so uncomfortable. You can find them cheap at Winners or a department store, but be sure that it provides the support you need for a high impact activity like running. Specialty running stores will also be able to provide you with the right fit.

- **Make sure you wear sunscreen!** Skin cancer is bad. No one wants that. Don't forget your lips, so wear a lip balm with sun protection.

- **Be well hydrated**. If you drink water throughout the day and run in the afternoon or evening, you should be just fine. If you run in the morning, wake up a little earlier than you planned to just in case you need to down some water before you head out.

- **Be safe!** If you're running at night, wear something reflective. Running in all black can feel pretty badass, but if a car doesn't see you in the dark, I promise you that you won't be feeling awesome for very long. A dead ninja is not a useful ninja. Wear something reflective, or even better, run with an LED light clipped to your clothing somewhere. It's also a good idea to run in the direction facing oncoming traffic, so that you can see cars coming your way.

- **Make sure you carry ID with you**, and let someone know where you're going and how long you plan to be out for.

- **Listen to your body**. Be aware of what a "good hurt" is and what a "bad hurt" is. Good hurt: muscle aches after a run. Bad hurt: pain that feels like it's on a tendon or a bone. Good hurt: burning lungs. Bad hurt: sunburn.

- **Aim for 4 times per week to start**. If you're a beginner, it's best to ease into a new

routine. Aiming for 4 runs per week, or a run every other day, is a great starting point. The distance and duration is completely up to you, and will depend on your current fitness level. If your body cooperates after 2 weeks, you can go from there. Remember: you know your body best, and you know what it can take in terms of speed and distance.

That's basically all you need to know! It's that easy.

If you feel like you want the support of a group to help you get started with running, want to meet new people, or just don't want to run alone, EngSoc has started a **running club called Accelerated Masses**. It's a relaxed, friendly, encouraging and supportive group that can be enjoyed by beginners and more hardcore runners alike. We meet on Mondays at 6 pm and Saturdays at 11 am on the POETS patio. Bring your friends! There will be three pace groups: one for beginners which will follow a run/walk pattern for about 20 to 30 minutes, an intermediate

group which will do runs up to 8 km, and an advanced group which will cover distances over 8 km. The plan for each meeting and workout will be flexible depending on what people want to do. All the groups will have opportunities to try running drills, including intervals and hill repeats, as the term goes on. If you have any more questions about the running club, or on getting started with running, email your questions to acceleratedmasses@gmail.com.

I hope this has convinced you to give running a try! It really is amazing in so many ways, and I'm sure it will open doors for you. Good luck, and run happy.

Next IW issue: All you need is 30 days



IW RECOMMENDS

ANGELO ALAIMO
3A ELECTRICAL

Website:

Running Map
www.runningmap.com

Well Everyone, if you have looked outside recently, you will likely agree with me Summer brings some awesome weather, so instead of waiting for CIF's fancy, but busy new treadmills, one can now head outside for their jogging needs! Although the out-

side has lovely moving scenery, it doesn't provide you with the lovely data such as distance and elevation that a treadmill can. A lovely tool you can use to track, measure, and save your routes is runningmap.com! Simply put in your postal code, and click on the map to begin plotting your route. It also works great for cycling and hiking routes too.

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Learn about the MBA application process and what it takes to prepare a successful application

June 10, 5:30-7:00
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The Great Gizmodo Gaffe, and How Apple Made Them Pay



**BHAVYA
KASHYAP**
STAFF WRITER

On April 26, 2010, San Mateo police forced their way into the home of Jason Chen, a blogger for the Gawker Media owned tech blog Gizmodo, breaking down his front door and confiscating assorted electronics in the process. It was deemed by the county that his personal effects were suspected of being used in committing a felony.

While this entire episode may have come across as unforeseen to most common-folk, those who follow day-to-day tech news were probably not entirely surprised. The story goes that a beer-loving Apple engineer (pfft, of course he loves beer) Gray Powell had, in his liquored up haze, abandoned his poor 4G iPhone prototype at a Redwood City bar, leaving it feeling alone, fat, and tipsy off German ale. Somewhere along its pathetic and inebriated journey to find its ex, the iPhone was found and sold for \$5000 to Mr. Chen, who, having fondled it lovingly into the wee hours of the morning, posted his encounter on the internet. As expected, there was an uproar, and Apple fanboys everywhere were a-tizzy with rage and sorrow. Apple politely asked for its return, which Gizmodo relented by providing them with Jason's address. The aforementioned hilarity still ensued.

Now, a lot of things were handled very badly on both ends. Gizmodo may have very well felt that they had the

right to keep and discuss the iPhone after having forked over physical money for it. They did put in a meager effort in order to find the right party to return it to, but the Apple store representative they contacted actually rejected their claim that they were in possession of the device. Overlooking the fact that they publicly humiliated Powell and generally mocked Apple for the new crack in their security, on the surface, they are almost in the right. California law, however, states that the acquisition of any item when the original owner is known is seen as theft;

when the item exceeds \$400 in value, the charge becomes grand theft. This particular law was laid down in 1872 and, unfortunately for Gizmodo, is the reason why it alone was accused of committing a crime. Tech site Engadget also indulged in posting pictures of the unreleased device; the difference was that they chose neither to acquire the device nor to reveal their source. Apple's real concern, in the end, was that their property was no longer in their hands, and they went to great lengths to do something about it.

The question to be asked here is really: what was Gizmodo thinking?! Did they not realize that Apple's wrath would be swift and ceaseless?

The Gawker media sites are a rare breed of blog whose authors are full-fledged e-journalists; posting on these sites is their full-time job. They subsequently lack the anonymity that the authors of sites such as The Boy Genius Report, whose almost sole purpose is to disclose leaked information, do. The legal people at Gawker Media eventually resurfaced with an argument that the tech blog was merely serving as a source, implying that Jason's purchase of the item fell under his "journalistic duties". Shield laws have already been instated in California to protect the rights of reporters and journalists, citing that such people may not be judged in contempt for refusing to disclose any unpublished information obtained or prepared for communication to the public (Article I, section 2, subdivision (b) of the California Constitution).

Apple inevitably got its vengeance, but its reaction, too, is not without qualms. The officers that stormed into Jason Chen's, it is to be mentioned, were not regular law enforcement. Instead, they were part of a specialty task force titled R.E.A.C.T: Rapid Enforcement Allied Computer Team- a multi-national "hi-tech" police squad that just happens to have Apple on its steering committee; other members on this committee include software giants Microsoft and Adobe, as

well as Symantec Corp and Cisco Systems. The employment of this particular group of individuals to pursue this investigation has garnered Apple a significant amount of negative criticism, especially given that they raided and continued to search Chen's home without his presence, and did so despite some general cooperation from Gizmodo.

The four computers and two servers taken from Chen's residence currently lie untouched in the dusty depths of a case

locker while Gawker and Apple battle it out over their respective rights. From a legal standpoint, the entire debacle has been a travesty on both ends, and there is a lot yet to be done. Among the

scariest questions that have arisen from the assessment of these events is: will this happen again? Journalists will be journalists, and sometimes they will be unscrupulous when it is felt that they have information that is worth knowing. Jason Chen was in the wrong here, but it is always unsettling when the home of someone in the media is rummaged through by these sorts of external groups. Who is not to say this will not begin to happen over other items, like code or even knowledge in itself? What if other such corporations choose to employ their own privately funded squadrons? The Waterloo community knows the presence of many a large and famous organization, and while most may find it implausible that they would search out every young, nubile co-op who ever broke his NDA to impress his classmates, the fact that an Apple facilitated raid of this magnitude could not be imagined even a few years ago is a telling sign.

The outcome of this skirmish will end up being important not only to those who reside in the Silicon Valley area, but to many of us, as future engineers, who plan on joining this field. Sadly, the only thing that we as spectators can do for now is sit back and watch the way this all pans out.

Journalists will be journalists, and sometimes they will be unscrupulous when it is felt that they have information that is worth knowing.

What if other such corporations choose to employ their own privately funded squadrons?

Your 5th Sense Power of Smell



**CHAD
SEXINGTON**
45
MANGENEERING

Helloooo Sexy Readers!

Long time no see, Welcome Back! I missed you all, I hope you missed me just as much. It's been a long road for the Chad these past few terms. Busy as a bumble-chad (kind of like a bumblebee, but with more chad). Luckily, I've had time recently to stop and smell the roses when they can be detected above the overwhelming odor of springtime Waterloo.

The power of smell is a wondrous thing. The musky allure of a mighty man, the sumptuous scent of a sensuous lady, the gentle wafting of a cinnamon twist on the carnival air, and the rugged nasal assault of diesel fuel can all create a range of emotions and feelings in a person. Even though there are some smells that make you want to reap a cornfield in anger, many more create and evoke fantastical smellmories. Without further adieu, I give you:

Chad Sexington's Top 5 Scintiallting Scent Sensations:

Ladies, if you want to catch a catch, try adding one of these smells to your perfume collections (kidding of course).

Lumber

A real man likes real man-smells, and there isn't a lot more manly in this world than hefty trees hewn down to size. A good chuck of cedar, aged oak, or a mighty maple, freshly sawn and still warm to the touch is better than flapjacks on a frosty February Friday. Often times you can find me wandering the lumber yards taking in the smells of "nature" just to remember my old life as a lumberjack.

Pie

Any kind will do, but pumpkin is best. There's something mystical about happening upon a window sill with a fresh baked pie on it. I just can't help but think this is what angels smell like. (This sentence is a scratch and sniff).

Bacon

Do I need to explain more? You can wrap it, you can dice it, you can slice it, you can bake it, just don't take it from me. If you're making this in the vicinity of a human being who eats meat, you better be ready to share. BLT means Bacon Loves Tummies, mine especially. Who hasn't woken up to this breakfast smell and heard their stomach rumble?

Rain

If you hang around in the outdoors as much as a lumberjack, you start to notice an odd change in the wind right before it rains. There's a smell you might describe as "impending wetness". That's the one that gets you every time. Smell that, and you'll be reaching for your umbrella. If only they could put that one into air fresheners, I'd be a loyal customer.

Fire

No, I'm not a pyromaniac, but the smell of fire and woodsmoke brings memories of camping to the fore. Marshmallows, ghost stories, the way that dead pine branches snap, crackle and pop in the heat; it's a regular bonanza of burning boughs. This is one smell that lingers, especially if you're the person that the campfire seems to love sending all its smoke to. You know it's you. Don't pretend like it isn't.

So, if you're in the mood for a smell sensation, try one of the above. I promise, you'll be smell-satisfied or your money back*.

Until next time,
Stay Sexy.
*Not a guarantee

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The Brew Man Group: Organic Wiesen Edel-Weisse



DAN ARMSTRONG
3T MECHANICAL
NEIL PARTRIDGE
3T CHEMICAL

Spring is in the air, dearest Brew Man Group readers. The trees have blossomed. Waterloo's grass has returned to its perfect hue of crap-stained green. Short-shorts have started showing up in some of the best and worst situations imaginable. Glee has inexplicably taken over popular culture (sorry, but we fail to see the artistic merit or entertainment value in a group of stereotyped adolescents kickin' it to All the Single Ladies). But most importantly, Dan and Neil's glasses are filled with a liquid that has less than 8.4% alcohol. Have we turned into pussies? Don't be silly. It's because in the spring and summer months, it is one's duty to sit and drink beer on a deck (or dock, if available) for hours on end, withstand scorching heat, look really cool in sunglasses, kick some ass at Frisbee, and somehow maintain sufficient sobriety to barbecue the best damn burger you've ever tasted. An 11% imperial stout is not exactly conducive to such activities. So at this time of year, we beer lovers reach for something more refreshing and slightly less intoxicating. There are several options available, but as far as we're concerned, few things are better than a cloudy, cool hefeweizen on a hot summer day.

Neil - Ah yeah, it's that time of year again, the first issue of this term; probably filled with the most soulless jeering you've heard since grade school (or maybe grad school in Dan's case).

Anyway, let's get the point; weizen beers. Weizen, translating directly to wheat, takes on the form of a pale-cloudy beer due to a large portion of (you guessed it) wheat in the grist (that's the term for the grains used in brewing), weizen beers have a long history

beginning in Munich, Bavaria. During the 15th century, the noble family of Degenberger produced and regulated all brews using weizen. These cheeky bastards kept all the rights to themselves; not allowing other upstarts any leeway. Fast-forward a little later, and the Degenberger monopoly has ended, only to be replaced by a long series of duke ownerships. However during this period (approximately 1600), the first weizen-only brewery was constructed in Munich; a large step forward considering that traditional barley was always a competitor. In fact, the competition was so intense as to cause a major decline in wheat beer popularity in the late 18th century. For these reasons, the would-be ducal monopoly on weizen beers was officially abolished in 1872, opening the opportunity for Georg Schneider to open the first publicly owned weizen brewery.

Dan - The hefeweizen we're contemplating today is the Organic Wiesen Edel-Weisse, a seasonal addition at the LCBO for this year's warmer months. This one comes to us from the German brewery G. Schneider & Sohn to which Neil previously alluded. The brewery has remained in the same family since it began in 1872. It seems Georg Schneider VI currently has control, but G.S.VII is now 15 years old and I'm sure is being groomed for the job (possibly in his high-school beer brewing course... yes, Germany actually has that). The brewery began in Munich, though they later picked up ducal brew-houses in Kelheim and Straubing. The Munich brewery was destroyed in WWII bombings (if only we knew what we were doing...), moving all production to Kelheim in 1944, where

it remains today.

Schneider's entire line-up consists of wheat beers, currently ranging from a non-alcoholic hefeweizen ("hefe" denotes an unfiltered product with yeast), to the 12% Aventinus Weizen-Eisbock which was covered in a previous Brew Man Group issue. The Edel-Weisse is a fairly typical hefeweizen, but has been brewed with cascade hops (commonly found in American pale ales), giving it a unique component. Recent projects for G. Schneider & Sohn include a collaboration with renowned Brooklyn Brewery in New York City that yielded Hopfen-Weisse, a very hoppy 8.3% hefeweizen that packs in a ton of flavour (and will be available at the LCBO later this summer). Neil said he's already pitching a tent for that one... not sure if it's outside the LCBO warehouse or in his cutoff jean shorts.

Neil - Most hefeweizens are produced using a 1:2 or 2:3 blend of wheat to awesome (OK, two row barley), a classic triple decoction method (a process of stepped heating during mashing), and a German yeast with low flocculation (WTF is that, right?). The resulting brew typically yields a result similar, but not identical to the Organic Wiesen Edel-Weisse. To put it short and simple, my first thoughts were, "Aw, now this is one dynamic weizen!"

The orange hue is atypical for sure, however the traditional characteristics show through on the nose; the aromas of yeast, clove and banana. These are carried though on first taste, however perhaps the mouth-feel is a tad bit more heavy than most other lighter weizen beers. By no means is this a deterrent, in fact, I think this is really how a hefeweizen should have tasted in the first place. F'ing de-



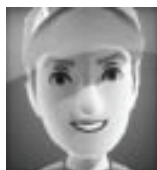
lightful, and don't you dare think otherwise (I might send you a mean email, or something like that). For those of you who are tired of those generic, mass-marketed, bland summer beers (you know, the ones advertised by the Big Three), why not have a little German to accompany you on that dockside Muskoka chair? Of course, a little German Fraulein would be ideal and very plausible for most of us, but Dan will most likely have to suffer (again) in solitude with several bottles of weizen beer. [4/5]

Dan: Thanks to Neil for bringing flocculation levels to my concern, that was definitely the missing link in my understanding of beer and life in general. Whatever. Beer time. This one pours into my hefeweizen glass (it's tall and hourglass shaped, which yes, does mean I find it sexually attractive) as a cloudy, bubbly, beige-orange brew topped with a thick white head. Cloves are the first thing that jump out at your nostrils, but are quickly backed up with a hint of lemon/lime citrus. The first sip reveals some bubblegum flavours that my nose wasn't able to pick up, coupled with the aforementioned clove, a touch of mint, and finished off with a pleasant citrus hop bitterness. This is all complimented by the perfect amount of carbonation and a smooth, full texture. Seriously, great beer. Many hefeweizens are a little unbalanced towards the sweet side, but the addition of cascade hops in this one addresses that issue perfectly, resulting in one of the most refreshing hefe's I've had to date. If my dock had a mini-fridge it would be at least half full of this. I almost wish this thing weren't 6.2% alcohol; I might have to stop after five bottles. Ok, six. [4.5/5]

Recommended for consumption if you like: Schneider-Weisse, Hacker-Pschorr, Paulaner, Weihenstephaner, Muskoka Hefeweiss

Props to hops // Dan and Neil

Future of Gaming: Times of Change



JON MARTIN
OBI JON1138

Wow, back to another term of classes, assignments and exams. I hope everyone has had a good first two weeks back – and gotten in some gaming before the work starts piling up. For this article I'm going to be talking about new technology coming to movies and video games, as well as some other interesting gaming tech that could be around the corner.

3D movies have exploded in the last two years, with lots of computer generated (CG) and a few live action movies getting the 3D treatment for the big screen. But now there is 3D for the small screen as well. Many of the big TV companies have released their own 3D TVs, with common prices in the \$3000-\$4000 range. The most incredible pricing is for the glasses required to view the image properly, a pair of glasses costs around \$500 – bundled with Monsters Vs. Aliens, one of the two 3D movies currently available. Obviously 3D TV has a long way to go before it can become a real contender in the TV market, lowering prices and increasing the number of movies available for 3D viewing. As for converting older movies to 3D, the technology is there, if not the desire. Many studios have expressed their intention to make their new movies in 3D, rather than spending resources on old movies. Of course CG movies like the Disney/Pixar movies are good examples of existing movies that could be re-released in 3D with less effort than a live action. For live action movies the existing film must be processed to create an artificial left and right view,

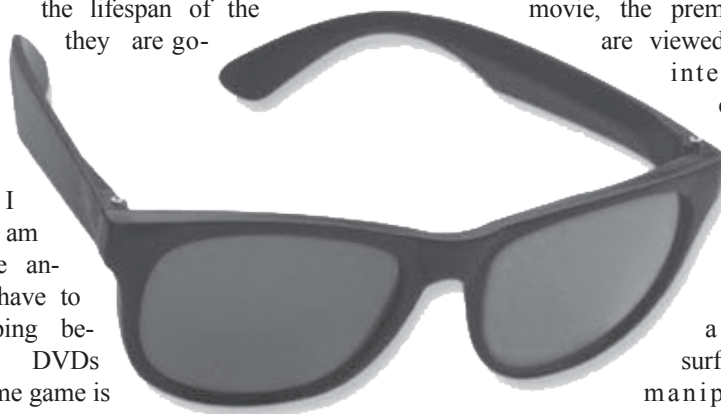
where as the original CG material could be re-rendered maintaining the 3D fidelity instead of creating a standard 2D image. Already some CG movies have been re-released in 3D; Toy Story and Toy Story 2 were re-released in theaters in 3D for a short time to promote Toy Story 3 (yay).

Now I know all this talk about 3D TVs isn't directly related to gaming, but it could be. While the Sony PS3 will be getting firmware upgrades in the near future to enable the playback of 3D movies, none of the other systems have this capability looming on the horizon. After the death of HD-DVD rumours started of a Blu-ray player for the Xbox 360, but these have been continually shot down by Microsoft. If Microsoft wants to extend the lifespan of the Xbox 360 they are going to have to keep up with the growing size of games. I personally am going to be annoyed if I have to keep swapping between five DVDs while the same game is available on one Blu-ray on PS3. OK, getting off topic. Video game creators are also interested in the potential integration of 3D into video games. Having that monster really jump out at you would be incredible, totally immers-

ing you in the game world. Of course this would mean a much larger game – as with existing games the entire world must be rendered and detailed from every angle, not just the angle shown in a movie. Whether this technology will overload the capacity of Blu-ray has yet to be determined.

I mentioned some interesting technology of the future, but first we have to go to the past. Remember the movie Minority Report, with Tom Cruise? It was a sci-fi movie set in the future where murder has been entirely eradicated thanks to the premonitions of three people. Knowing that somebody is going to commit murder allows the 'pre-crime' unit to arrest the person as well as saving the victim's life. In the movie, the premonitions are viewed on an interactive computer interface, projected onto a glass surface and manipulated using a language of hand gestures. In the years since this movie came out there has been talk about how that technology would be the next step in computers – entirely replacing the mouse. Well, it turns out the tech in the movie wasn't im-

For live action movies the existing film must be processed to create an artificial left and right view, where as the original CG material could be re-rendered maintaining the 3D fidelity instead of creating a standard 2D image.



aginary, it was based on designs and prototypes by John Underkoffler, who has been working on actually building that kind of control system.

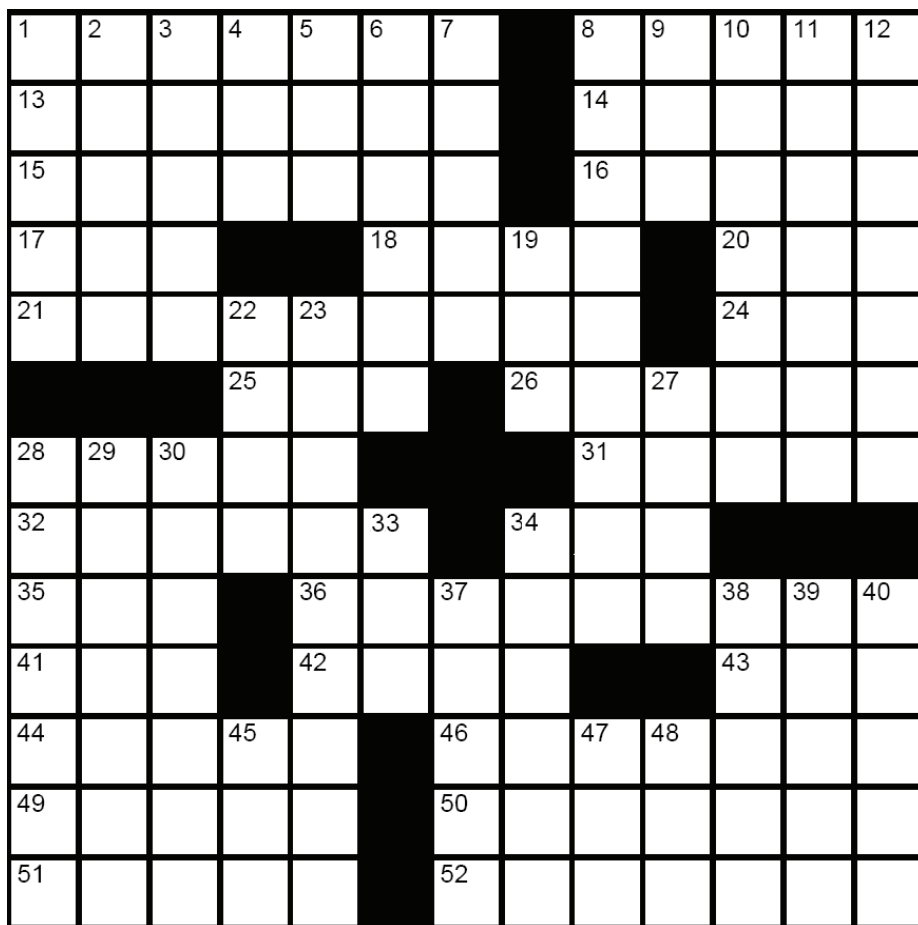
Imagine that system working on a computer or gaming system, the most obvious medium to utilize that comes to my mind is the Microsoft Project Natal system. Using the same kind of gesture controls looks like it could be a reality in the near future.

Now, to some news. PS3 owners are probably aware that firmware upgrades are rendering the support of the Linux operating system a thing of the past. While regular consumers have mixed reactions, some saying "Who cares?" and others even launching class-actions lawsuits against Sony, it seems the military is the most worried. The US Navy runs a supercomputer consisting of a few thousand PS3s linked together – running Linux. While the machines are not connected on-line and therefore will not be forced to update, there is always the potential for a failure, especially when you have a few thousand PS3s in a single room spaced a few inches apart. Any new system, purchased to replace a broken one would be incapable of running Linux, and therefore useless for the super computer.

On our own campus, a new gaming club has started up. The EngSoc Video Game League is going to be run as a casual place to discuss gaming and compete in your favourite games. Join the facebook group "EngSoc Video Game League" and put down the games you want to play. Possibilities include leader board competitions, inter-class/year competitions; start your own team in your favourite game, system link as well as hand-held gaming. This club is still in the formative stages, so voice your opinions and let's see what happens.

The Iron Crossword

ANGELO ALAIMO
3A ELECTRICAL



Just the Beginning

BHAVYA KASHYAP
STAFF WRITER



Across

1. Name of several unrelated things.
8. Avian chatterbox
13. Plural of 2 Down
14. Of or like a feeble old woman
15. An odd piece of thing.
16. Cotton fabric with smooth finish
17. A shootout is used to break this
18. Past tense of tear
20. A kitchen sink has one of these
21. 17th century british dance form
24. Oculus
25. Black gold
26. Keeps track of game score
28. African American Hairstyle (pl.)
31. Cougar, South American
32. Grew fond of (2 words)
34. Domesticated Animal
35. "___ bad!"
36. Engineering does this to you
41. Santa's helper
42. Central approach to a high alter

Down

43. Deception
44. Gauge
46. Georgia neighbour
49. Utah's 3rd Largest City
50. Watered down
51. To keyboard in
52. Female emperor

Down

1. Loyal or pledged faithfulness
2. AM/FM device
3. Cow Milk dispenser
4. Game with matchsticks
5. Female Deer
6. Type of Soup; Masoor

7. To impede or prohibit by estoppel.
8. Opposite of female screw (2 words)
9. "Gimme ___!" (start of an Iowa State cheer)
10. Water Holder
11. To reduce the intensity of; relieve:
12. Slang for weeping tile
19. Student housing abbreviation
22. Breakfast area
23. Piston to Connecting Rod (2 words)
27. Statement of fact or a promise
28. to try
29. Tom
30. Top of roof
33. Egg cells
34. Before completion (shortened)
37. Circumvent
38. Carry away, in a way
39. Green lemons
40. Honey wine (pl.)
45. "The Three Faces of ___"
47. Swiss mountain
48. Seed vessel having hooks or prickles

profQuotes

"Practice throwing your rock hammer point first into a tree so you know what to do when a bear comes to get you." - Frape, Earth 232

"I have a joke about EIT, Where are the dinosaurs - Upstairs or Downstairs?" - Ramahi, ECE 370

"There are three TA's, Na'el, Babak, and the third one is missing.. but we'll find him." - Ramahi, ECE 370

THE IRON INQUISITION

Thoughts on the Task Force on PDeng Renewal Report?

Cailin Hillier, 3A Geological



Akash Vaswani
1B Mechatronics
"I hope it doesn't become the same thing."



Caitlin Ho
4A Mechanical
"WatPD sounds like a police force"



Kirsten Hoedlmoeser
4A Chemical
"It's about time, and Sasha is awesome!"



Peter Kelly
4A Civil
"I just finished PDEng 55....."



Kornel Niedziela
1B Mechatronics
"We'll see what happens."