

November 2010

Iron Times

The Official Publication of the Carleton Student Engineering Society

BRIEFS

Adventures At SAF 2

The Student Aerospace forum is an annual student oriented conference held usually in Montreal. The trip usually contains amongst other things chaos caused by lack of organization and/or the pandemonium of one or more people.

- Page 2

The Maverick Theory Of Egyptian Concrete

When one imagines the famous Egyptian pyramids at Giza, one typically pictures slaves hauling multi-tonne blocks of stone up giant ramps and carefully assembling them layer by layer.

- Page 4

If We Build It, They Will Come, CURC

The Carleton University Robotics Club (CURC) is a student-run club whose aim is to get students involved in robotics. From novices to experts, anyone with a passion for robotics is more than welcome.

- Page 5

An Ode To Shoe Leather

I like food. Correction, I like good food. However, unlike many students at Carleton, I live in residence and if I wish to eat, my choices are limited to a few locations, mainly the residence cafeteria.

- Page 8

INDEX

EDITORIALS	2
EXEC REPORTS	3
NEWS	4-5
GALLERY	6-7
ENTERTAINMENT	8-10
COMICS & ART	11
LAST WORDS	12

Midterms Are Finally Over



Warning: This newspaper may contain offensive material and should not be read by people who are easily offended. All opinions expressed within The Iron Times are solely those of the writers and contributors, and do not reflect the views of CSES unless indicated otherwise. This paper is jestful and satirical in nature and is not intended to be malicious in any manner.



EDITORIALS

Adventures At SAF 2

Nolan "Pi" Hunder
- AERO IV -

This year's Student Aerospace Forum (SAF) was held at the École Polytechnique in Montreal. SAF is an annual conference where engineering students and research groups can network with industry representatives. Admission is free for students and usually includes accommodations and transportation to and from the conference. Events at SAF usually include presentations from various aerospace companies, an optional aerospace Case Study contest, a mini career fair, a night of fun socializing, factory tours (sometimes), and general chaos caused by lack of organization and/or the pandemonium of one or more people.

This year's SAF was a little different as, for the first time in recent history (if not ever), the number of student participants was capped at 300. Due to this cut-off, many students were unable to attend. In fact, I was the only Carleton student to actually register on time (it turns out another person from Carleton was on the registration list, I'm not sure who they were or whether they made it to Montreal). Due to my being the only Carleton participant, there would be no large CMAS-organized attendee group as there had been in previous years. So, I had to contact the event organizer to find out if transportation and accommodations were still being provided. The first response I received was: "Unfortunately, we no longer take new registration. We have reached our limit number of participants. Thank you for your comprehension." I then sent them another message clarifying that I was already registered (having already received confirmation emails to this effect), writing the message in French to see if that would help. Suddenly the organizers were far more helpful and said they would provide accommodation but not transport. Not as good as last year, but I wasn't complaining.

The next problem I encountered came when I was ordering my bus ticket. When making sure I would arrive in time for the first events, I read the Friday schedule instead of the Thursday schedule. Friday's events started at 9:30 (with a complimentary breakfast at 8:30) and Thursday's started at 1:00 (with a complimentary lunch at 12:00). So I awoke Thursday morning at 4 AM to take a bus at 6:00 and arrive in Montreal at 9:00 (the bus was ½ hour late). I made it to the University by 9:30, earlier than all the volunteers and organizers. By the time they arrived, I was familiar enough with the campus that I could give better directions to attendees than the volunteers could. This was the one major hiccup during the trip that was entirely my fault.

Thankfully once the main organizer got there, he told me where my hotel was so that I could go drop my stuff off. That room was the single best part of the entire trip. In remembrance of last year's accommoda-

tions, described as being in a Gypsy camp, this room was a vast improvement. Last year's "room" (actually a caravan) was half the size of a single dorm and intended for 4 people. This year's room – which I had to myself being the only student from Carleton – was huge. Not including the giant bed (with 3 pillows spaced for 3 people) and the pull-out couch, there was enough room for the 20 other students, who wanted to come, to sleep on the floor and still have personal space. Other room features: the toilet was in a separate room from the shower/bath, neither had locking doors, and the hotel forgot to provide hair conditioner.

Upon my return to Polytech, the conference began. After the opening ceremonies and a presentation from Bombardier came the Aerospace Challenge. This year's challenge was different from previous years' in two respects: first, the contest was mandatory rather than optional. Second, instead of the usual case study (in which participants developed conceptual solutions to industry problems), this year's challenge was a cost benefit design competition. While the premise and format were good, the structure and organization of this challenge left much to be desired.

The challenge was to produce a series of aircraft from a given set of materials (paper, wooden sticks, straws, paper clips, and tape) and test their range and flight consistency. Ideally this challenge would have required teams of 1-3, but we were instead divided into groups of 9. We were required to assign the following positions to the members: Project Manager and Directors of Finance, Sales, Supply, Scheduling, Construction, Internal Affairs, Time Management and Documentation. Notice how none of these positions involve designing the aircraft, a task which comprises 90% of the competition. Therefore these positions were largely meaningless as only two had to sign any documents. All other tasks were performed by all members.

The second problem was time. In a competition like this – ignoring the problem of having 9 wheels on one bike – the sequence of events would normally go something like this:

Step 1 – Assign director positions (5 minutes).

Step 2 – Brainstorm ideas. In groups of 2 – 4 this can be done as a group, but with more people it is best to split up, come up with ideas independently, and then regroup and discuss.

Step 3 – Choose one idea/concept. It should be noted that in this task steps 2 and 3 are often repeated as various ideas are explored (1 hour for both).

Step 4 – Select materials (10 minutes).

Step 5 – Acquire materials and build aircraft (1 hour).

Step 6 – Test and modify as necessary (30 minutes).

Step 7 – Fill out all necessary paperwork (5 minutes). This totals about 3 hours. We were given just 30 minutes, later extended to 45. Imagine trying to get 9 engineers to agree on a design and actually build it in that timeframe. Madness!

Following the competition was the "Jazz Atmosphere," a social gathering in the main atrium where appetizers and wine were served. This was just boring. People were just standing around, talking a little bit, and looking at research posters. This event did not last long as everyone slowly figured out that getting dinner or going to downtown Montreal was a lot more fun.

The next day consisted mainly of presentations. These started at 9:30 and there were 3 presentations at any one time for you to choose from. It was during these presentations that the effects of registrant capping became evident. The first presentation was delivered to a whopping 10 people (including the person sleeping in the corner) while the next four attracted audiences of 30, 20, 30, and 10 respectively once people started waking up from the night before. Finally we all met up for the final presentation and closing ceremonies in the main conference room which still only attracted 71 people (yes I actually counted). The opening ceremonies had a slightly larger audience (~100 people) while the Aerospace challenge participants numbered 10 teams of around 9 people each (~90 people). The reason given for this attendance cap was that the University might not have been able to handle more students.

According to the event website, SAF 2010 was aimed at "some 300 students from all universities in Quebec." After speaking to the main organizer, I learned that the event was not widely advertised outside of Quebec despite the fact that, according to past years' websites, the event "aims to be an opportunity to gather around Aerospace industry representatives, engineering students from all backgrounds and university research groups"! I think the organizers overlooked the fact that not everyone who registers for an event actually ends up attending, especially if the event is free. The main organizer did admit that, this time last year, he had never even heard of SAF; however it should be noted that this was not the first time Polytech as hosted the event. I will briefly mention the general trend that each year the conference becomes more and more French. I leave the language preference, however, to each University's discretion, as admittedly the vast majority of SAF attendees are from Quebec. I'm hoping that when Sherbrooke hosts SAF next year, they will learn from this year's mistakes. The two most important lessons: don't cap the number of participants and structure the competition properly.



Submissions are welcome from articles to photos, from news to entertainment to opinions, and everything in between. Anyone may send their submissions, complaints, questions and concerns to irontimes@cses.carleton.ca

Thanks to all the writers that contributed.

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From: The Editors <irontimes@cses.carleton.ca>

"An editorial is a piece of writing intended to promote an opinion or perspective." We would like to seriously emphasize this definition (pulled straight from Wikipedia) and reiterate that these opinions belong to their respective author and do not necessarily reflect the opinions of CSES as a whole.

These editorials are meant to voice an opinion and not meant to be malicious. In extension, none of the articles presented in the issue or this publication as a whole is not intended to be malicious in any manner.

The sudden lack of articles is making me cry.

EXEC REPORTS



President

Suzanne "Ducktub" Swaine
- AERO VI -

Hi C-Eng! Congratulations on surviving mid-terms! Hard to believe we're more than halfway done first term already! October was a pretty busy month what with EngFrosh Reunion, the Fall General Meeting, a couple of elections and of course, Halloween. I've mostly been keeping myself busy with general behind the scenes work this month, organizing the engineering jacket sales, the GM, helping out Exec here and there, the usual kind of things. Nothing too exciting, but in this case, it just means that everything is going as planned. I'm looking forward to November, and so should you! Remember to grab your friends and come out to the design competition on November 20th. There is something for everyone and the winners in each category get a FREE trip to the Ontario Engineering Competition where big money is at stake. Later that evening is Whirlwind, which I hope you all have your tickets for. Whirlwind tickets sold out in under two days, so it should be a great night (even if all the guys there have sketchy mustaches...) And one last reminder, as exams approach and you begin getting anxious about exams, remember that CSES has an online Exam Library (exams.engsoc.org), just remember that it can only be accessed from computers on campus. As always, if you have any comments, questions, or suggestions for the society, feel free to drop by our office (2090 Minto) at any time to talk to us!

Cheers! From your loving President.



VP Finance

Jordan "Crack" Briggs
- AERO IV -

What a turn of events. As I write this I'm being chased by what I estimate to be a dozen or more gang members, all of whom seem to be packing 9's which they are unloading in my general direction. Despite common misconceptions, it's actually extremely difficult to type on a laptop while running like hell to avoid a barrage of bullets. But then again, such is the life and times of a backroom bookie. Violent escapades aside, there's been a fair amount going on in the CSES Financial Department. Here is a quick rundown:

- The application for CSES's insurance renewal has been filed with the insurance company, and we should receive the renewed policy within a week or so. The insurance policy for CSES typically runs around \$13,000.00, although the final figure won't be known until the invoice is received, and this will be detailed at the Winter General Meeting.
- The \$25,000 loan that CSES has granted EngFrosh has been paid back in full.
- The CSES Handbooks and Passports have been fully paid for.
- I have chosen a new Treasury Director, Emily LeMay, and a Student Group Funding Director, Maurice Weir. Congratulations to these folks, I think they'll be awesome! I'd also like to thank everyone for all the interest in the directorships... I had a total of seven applications! So much for making the choices easy...
- The Student Group Funding application period for the fall term has come to a close, and we received no less than 21 funding proposals from various societies and projects. The review process is now underway with the help of the newly appointed Student Group Funding Director.

Well that's about it for now, so until next time, I gotta run! (Literally!)



VP Internal

Jamie "Invisible Man" Baressi
- SYSC III -

Hey there everyone! So for those of you who showed up to the FGM thanks for coming out and having your say. Congratulations to our First Year Reps Kristen Jerabek and Eric Escaravage on being elected to council and our new Vice President Social Stephanie Seemel. For those of you getting your rings this month congratulations on graduating and hopefully success finds you in the dark, cruel, scary real world. For those of you not graduating who want to hang out with the new grads head on out to the Honest Lawyer @ 7 PM on the 13th!!!



VP Pubs

Kaitlyn "Topless" Stockermans
- CIVE IV -

Welcome to the busiest month of the semester. I've been working diligently with my senior editor to get this issue out in a timely manner, but once again we were foiled by lack of content. Now with midterm season almost out of the way I can expect a landslide of articles, right? Hello? Are you there? This past month I've been in contact with C U Ads getting the new ad campaign started for the Handbook and working out details of advertisements in the Iron Times. Other than that I've been trying to pass my midterms and attending my office hours and meetings when I can.

Stay tuned for the next installment of...
Flowers: The Silent Killers.



VP Social

Steph "Calamity Jane" Seemel
- SREE III -

Why Hello There!

My name is Stephanie Seemel and I am your newly elected VP Social for this year!! I am so super-stoked for this year and you should be too! There are many excellent events and opportunities coming your way. First off, I will tell you a little bit about myself in case you don't already know who I am. I am the girl bouncing around with the super-long radioactively orange hair, the result of an Engfrosh Spirit experiment gone awry. I was on your oh-so-exciting Flight-suit Committee last year and participated in the Great Northern Concrete Toboggan Race (GNTCR). So now that I've rambled about myself enough, lets talk a little bit about what's coming up this month!

Assuming this article is published in the November issue, the first event to look out for is Yuk Yuk's on November 4th! Get your tickets in Leos! We will also be hosting a special visit from the Mac Engineers on the weekend of the 12th, so come out and say hi! On November 20th you'd better get out your masks and dancing shoes, because you are going to need them at the Semi-formal Masquerade Ball! Lastly, if you have been a volunteer this year, keep your eye out for your appreciation party! All of these events will be announced on Facebook (join the CSES group now!), posters and through the announce email (announce@cse.carleton.ca; email to sign up). Tickets are sold in Leos! Th-Th-Th-Th-th-th-THAT'S ALL FOLKS!

P.S. "What gets wetter and wetter the more it dries?"
(The answer is in the text)



VP Services

Chris "Pretty Boy" Nicol
- AERO IV -

Hello everyone, hope you all survived mid-terms and are pushing through to the end of the semester. Everything is continuing to run smoothly in the Services portfolio. There are lots of student groups and clubs that are applying to use the SGRC. It is great to know that this space is being utilized by the engineering community. If your group needs a place to meet be sure to visit sgrc.engsoc.org to apply for a meeting time. Leonardo's Lounge is functioning well and we are continuously selling out of stock on a weekly basis. Thank you to all the volunteers that have been working to help Leo's function. November is going to be a busy month for the engineering society. I would encourage everyone to check out the posters in Leo's or by the office and find out what's happening as there are plenty of social and academic events taking place. Well that's all for me. Good luck on the rest of the semester!



VP Academic

Josh "Canadian Pie" Coulbeck
- ELEC IV -

Hey guys! I hope midterms didn't bend you over the table too hard; if they did, you've still got time to prepare for finals. I would like to thank everyone who donated a book for the textbook trade; it went really well this semester (we sold 38 text books!). Keep an eye out next semester for another textbook trade. This year for National Engineering Week (NEW), we are hoping to build a Rube Goldberg Machine. If you don't know what that is, I recommend googling it. For those of you still interested becoming involved in NEW, feel free to send me an email at academic@cse.carleton.ca.

Also this month is the design competition, being held on November 20th. If you are not sure what the competition is about, come by the office and ask one of us. You can also read descriptions of different events posted on the bulletin board. Finally, don't forget Movember, an event where some of us engineers will be growing moustaches to raise money for prostate cancer research. If you would like to join us, go to the Movember website and join the Carleton University Engineering team.

Good luck with your year, guys!



VP External

Kevin "Assbeard" Atkins
- AERO II -

Busy times are approaching and you'd better be ready for them! I've heard a few rumours that Carleton Engineers are a most generous and charitable bunch, so you had better not tarnish that image! What with the charity LAN/Console Gaming/Magic Tournament (November 6th-7th; tickets available in Leos) and Movember coming up, how can you help but get into the charitable spirit? What's this? You don't know what Movember is? Okay, fine: I'll tell you. Movember (Formerly November) is the month where Mo-bros and Mo-Sistas grow out that Mo (Moustache/Leg hair moustache) in order to raise awareness and donations for prostate cancer research. So join the Carleton Engineering Movember team on Facebook and the Movember website and start raising money for such a great cause!

Congratulations go to Steph who despite being the brand new exec member was the first person to submit her exec report.



NEWS

Pyramid Schemes: The Maverick Theory of Ancient Egyptian Concrete

Gilles "Nightstalker" Messier
- AERO IV -

Author's Note: I have recently realized that all my History of Engineering articles to date have focused on aerospace-related topics. For this bias I apologize: I am, after all, an Aero myself. So, as a service to Civil and Mech readers, I have decided to stray slightly off the beaten path this month. Enjoy!

When one imagines the construction of the Egyptian pyramids at Giza, one typically pictures vast armies of slaves painstakingly hauling multi-ton stone blocks on wooden sleds up giant ramps, carefully assembling the massive structure block by block, layer by layer. Save for one detail (the Pyramids were not built by slaves: the work – a form of tax levy – was performed by farmers in the agricultural off-season when the Nile flooded the fields), this is the conventional view that has dominated Egyptology for centuries; there is hardly a book about Ancient Egypt that does not contain this image or a variant thereof. Yet despite the apparent orthodoxy of this view, it has always had many glaring problems.

Firstly, it appears unusual that the Egyptians would drag stone blocks using sleds when they possessed the wheel (chariots are often depicted in artwork and several actual examples have been found in tombs). Strangely, however, the wheel is never depicted in industrial uses. And while several paintings show statues being moved via sled, no records of this method being used in pyramid construction survive.

Another suggested transport method is the use of "conveyor belts" of logs as rollers. Calculations have been performed to determine just how many logs this would have taken, based on such factors as the number of stones in the Great Pyramid, the number of logs needed per stone and the average rate of wear for the logs. This number, however, exceeds the total number of trees in Egypt and Lebanon combined! The use of ramps also poses problems, quite aside from the general lack of evidence for their use. Two types of ramps have traditionally been posited: straight and spiral. A straight ramp built at a reasonable gradient for transporting stones would have required for its construction almost as much stone as the pyramid itself! On the other hand, a spiral ramp is very complex to build and would have severely impaired the accuracy with which the pyramids could have been built.

Indeed, this legendary precision is the major achilles heel of the conventional Pyramid-construction view. The Great Pyramid of Khufu is a near-perfect,

level square-based pyramid aligned with the cardinal directions and containing 2.3 Million granite and limestone blocks (totalling 5.9 tons) fitted so closely that it is difficult to fit a piece of paper between them (average error 0.5 mm). Considering that Old Kingdom Egypt (~2500 BC) was still a Bronze-Age society (iron tools would not appear in Egypt for another 1000 years), this precision is incredible. After all, at such a massive scale, a deviation of a fraction of a degree in one block would be amplified down the line and eventually result in a very lop-sided pyramid! Furthermore, recent excavations of the Worker's Camps around the pyramids have revealed the workforce to be much smaller than originally estimated. Thus, it is doubtful that the Pyramids could have been constructed in the established timeframe (~20 years, ending in approximately 2560 BC) using conventional methods. Short of suggesting supernatural or extraterrestrial assistance a la Stargate, the most promising solution to this dilemma appears to be a radical theory posited by French Chemist Joseph Davidovits, who believes that the Pyramid stones were not hewn, but poured.

Davidovits first developed this idea in 1974 after he noticed something odd about the limestone in the Great Pyramid: namely, that it did not match any limestone deposits anywhere in Egypt or neighbouring countries. The blocks' internal structure was not crystalline (characteristic of slow deposition and solidification) but amorphous (glassy) and full of trapped air bubbles, suggesting that they had solidified quickly. Furthermore, rather than being arranged in the layered bands typical of sedimentary stone, the particles in each block were segregated by size, with heavier materials such as fossilized seashells at the bottom. Davidovits, an expert in geochemistry, and the inventor of geopolymers, saw this as evidence that the pyramid's blocks were not natural stone but rather reconsolidated limestone, a form of ancient concrete.

Davidovits believes that the Ancient Egyptians did not have to cut, transport and place large blocks of high-grade limestone. Instead, low-grade limestone was crushed and mixed with water and other chemicals. The resulting slurry could then have been easily carried up the pyramid and poured into wooden forms. Being liquid, the slurry would level itself before setting. Once a block was set, the forms would be removed and re-assembled and the process would begin anew, eventually producing layers upon layers of perfectly-fitting "stone" blocks. This technique would have required fewer workers or skilled craftsmen, less specific min-

eral resources and would have permitted the construction of a very precise structure within a relatively short timeframe. It would also explain why the granite cores of the pyramids show more tool marks and inferior precision compared to the limestone. But was this really the technique used by the ancient Egyptians? Evidence amassed by Davidovits seems to suggest that yes, it was.

Using his knowledge of geopolymerization, Davidovits devised a theoretical recipe for reconsolidated limestone employing ingredients readily available to the ancient Egyptians, namely soda ash (Sodium Carbonate) from burning palm logs and Natron, a mixture of salt and sodium bicarbonate widely used in the mummification process. According to this recipe, limestone (Calcium Carbonate) is first crushed and roasted over a fire to produce quicklime (Calcium Oxide). This would then be dissolved in water and mixed with Natron and soda ash. This mixture undergoes a chemical reaction similar to that of concrete and solidifies within a few hours. Davidovits has successfully demonstrated this procedure many times in the laboratory, producing a product that, when sent to laboratories for blind analysis, has proven almost impossible to distinguish from authentic pyramid stone! Further support for the theory comes from Old Kingdom records which make references to "poured stone" and reveal that Natron was consumed in large quantities and that citizens were encouraged to donate ash from domestic fires for construction projects. Though the inventor of this process (if it was indeed known and used) is unknown, Davidovits believes it to likely be the famous architect Imhotep. In any case, Davidovits's recipe is simple enough to have been discovered by anyone accidentally.

Despite this considerable body of evidence, however, Davidovits has faced stiff resistance from the Egyptology community. It appears, as Davidovits puts it, that so many "careers and egos" have been built on the traditional "Masonry" view over hundreds of years that few Egyptologists are willing to consider such a revolutionary idea. Even Zahi Hawass, the Egyptian Director of Antiquities, has dismissed Davidovits's theory as "idiotic and insulting." All new and radical ideas must contend with the firmly entrenched orthodoxy, however, and only time will tell if Davidovits's theory will stand the test of time. If it does however, then we can surely credit the Ancient Egyptians with a great deal more sophistication than previously thought possible.

Activated Sludge Experiments: Collection from Aerobic Digester

Bryan "Pull-Out" Koehler
- ENVE IV -

1) Collect the $t < 0$ shit sample from the 15 L shit bucket located on the floor. Mix the shit in the shit bucket thoroughly before sampling. Collect some shit from the shit bucket with the 250 mL beaker. Move the shit to the clear 250 mL shit bottle. A shit volume of around 100 mL is required.

2) Collect all other shit samples directly from the reactor valve. Pour them into the clear 250 mL shit bottles. Collect approximately 10 mL of shit and return it to the reactor before each sample of shit is taken. This is the dead space in the reactor valve. Transfer approxi-

mately 150 mL of reactor shit into the shit bottle (i.e. collect half a bottle of shit).

3) Shake the shit bottle and immediately transfer the shit as required according to the shit sampling schedule:

- two 20 mL graduated cylinders, approximately 20 mL for each solids analysis
- imperative -> shit must be homogeneous
- record actual shit volume.

- 30 mL beaker (20 mL of shit for CODSOL analysis)

- 50 mL beaker (30 mL of shit for pH measurement)

Source

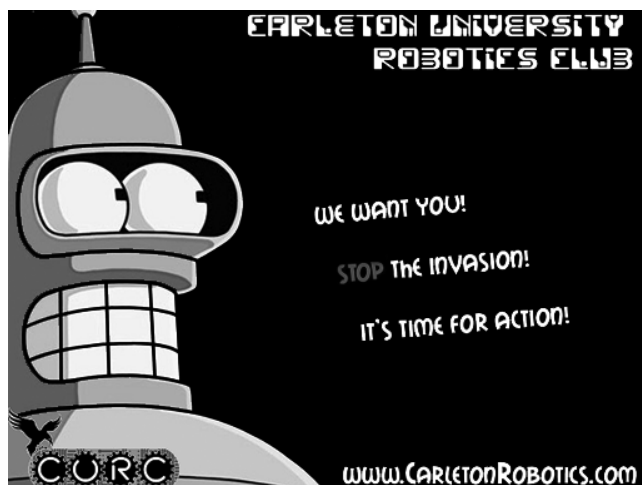
Adapted from:
ENVE 4005 laboratory procedure, Activated Sludge Experiment, Carleton University, 1125 Colonel by Dr, Ottawa, ON

If we build it, they will come, CURC

Lubna Rasheed
- SYSC III -

&

Davy Zou
- ELEC IV -



The Carleton University Robotics Club (CURC) is a student-run club whose aim it to get students involved in robotics. From novices to experts, anyone with a passion for robotics is more than welcome to join. Members can choose to work on both long and short term robotics projects throughout the school year. Additionally, the club also organizes various workshops, competitions, and social events for its members. Here is a summary of all the current club activities:

CanSat

CanSat is an annual competition hosted by NASA. A team of students design and build a rocket payload to be launched to 1000m as per specifications. It must then transmit telemetry back to a base station and land without breaking the egg it's carrying. This year, the CANSAT group at Carleton will attempt to build their satellite and go to Texas to compete worldwide against other teams.

3Pi Maze Solving Robotics Competition

This is a team competition composed of 2 - 4 members per team. Each team is given a 3Pi robot to program in order to follow a line or solve a maze by determining the optimum path to traverse the maze. The final competition will be held on November 30th, this year. Come on out and check out all the robots in action!

Quadcopter

This year the club is organizing a long-term project, the Quadcopter project. This project will give our members the opportunity to gain a more in-depth understanding of designing and building a complete robotics system. The Quadcopter project will allow students to design and build a four-rotor helicopter flight system that will involve I/O sensor programming, microcontrollers and embedded software development. This project is open to students from all streams and programs to work together as a team and solve problems, like they would in a real world situation. The result of this multidisciplinary project will be a radio-controller Quadcopter design and prototype that will have the capability to broadcast live high definition video from an on-board camera.

Club Events:

General Body Meeting – Nov 2 (tentatively, watch out for posters)
3Pi Line following competition – Nov 30
Quadcopter Project meetings – Saturday afternoons
Robots workshop by Mr. Nagui (again, check our website)
Social Events – (TBD – check our website for more details)

For more information, please visit www.carletonrobotics.com

CSCE Announcements

Greg “Bubblicious” Harrington
- CIVE III -



physicist best known for his method for determining displacements in a linear-elastic system based on the partial derivatives of strain energy. (All you civils will know why this is important). This event will be held November 9th, and the exact time and location are TBD. Watch for posters. (Note: I hope this issue comes out before November 9th)

Small Bridge Competition – Carleton will be hosting the Small Bridge Competition this year. Bridge assembly is November 13th, and bridge crushing is November 19th. Teams may consist of a minimum of 4 members, and a maximum of 6 members. All participants must be current student or staff members of either Carleton University or University of Ottawa. Registration fees are 5\$ for each of the participants who are not members of CSCE, and free for CSCE members. All teams must be registered by Thursday, November 11th, 2010. (Note: I hope this issue comes out before November 11th).

Tunnel Painting - The CSCE Carleton Chapter is looking into possibly doing a tunnel painting this year, so if you are interested, email us! carleton.csce@gmail.com Put “tunnel painting” in the subject line.

T-Shirt Design Competition - CSCE Carleton is accepting submissions for its annual T-Shirt Design Competition! So if you have a sweet design that describes civil and/or environmental engineers at Carleton, don't hesitate to enter it! Submissions are due by November 30th. So again, send them in to carleton.csce@gmail.com. (And again, I reaaaalllllllllllllllllyyyy hope this issue comes out before November 30th, or else that's just pathetic.)

CSCE Carleton Website - Our website has been updated, so check it out for any event details and announcements we may have (<http://csce.engsoc.org>).

Editor's Note: If CSCE was a real society then it would have its own publication and its corresponding exec member would actually have a job to do. That exec member could then learn just what it takes to actually create a periodic publication.

Hey everybody, your lovable CSCE Carleton Chapter has some wonderful announcements for you! Enjoy!

Meet and Greet - The Meet and Greet was a great success. Thanks to all who came out.

Membership Forms - Membership forms and fees are due by November 10th as we need to send these to the national society (Note: I hope this issue came out before November 10th). After that, people can still sign up to be members but not at the national level. Our Carleton CSCE membership cards will be available shortly for pickup in the CSES office. You will also receive a national membership card in the mail sometime after the forms are submitted.

Castigliano's Birthday - Civils and Enviros get together to celebrate Carlo Alberto Castigliano's Birthday. On the date of the celebration we read homemade poems in Castigliano's honour (or dedicated to Engineering in General), have cake, and have a drink to one of the most important contributors to engineering.

Castigliano was an Italian mathematician and

CCR: They're giving away money, sign up!

Suzanne “Ducktub” Swaine
- AERO VI -

The Co-Curricular Record (CCR) is a new initiative of Carleton's that started last year. For those of you who haven't heard about it, it's essentially another type of transcript, that chronicles your volunteer involvement rather than your academic prowess. Any volunteer activity you get involved in on campus that takes 5 hours or more per term is eligible for recognition on your CCR. You can sign up for it by going through Carleton Central and clicking on myCo-Curricular Record under Student Support Services. Unfortunately for the older students around, it's not retroactive so any involvement you've completed in the past won't show up, but that's not a reason you shouldn't still sign up! There are several benefits and incentives to signing up:

1. Free Money!

Add a position to your CCR by December 1st and you'll automatically be entered in a draw to win money on your campus card! The draw will take place next term.

2. More Free Money!

For me this time! Add a position by December 1st to your CCR and CSES will be entered in another draw, this time for 500\$ towards the society! Right

now, CSES is the most involved group on campus according to the CCR, which means that if you all sign up to have your volunteer positions recognized (even Leo's counts!) then we've got a pretty good shot at winning the 500\$. Think of all the fun you could have at the General Meeting writing motions to spend the money... Also, a reminder to all the other student group heads that this doesn't just apply to CSES. Encourage the members of your student group to register with the CCR, and your group will also be entered in the draw!

3. It looks really good attached to a resume.

The CCR is a great way to track your involvement to make sure you don't forget about anything you've gotten involved with, and it saves space on your resume too! Not only does it look much more official to hand in to a potential employer, but by having the CCR, you no longer need to include your involvement at Carleton on your resume, freeing up valuable space describing all your other awesome skills.

So, if you were an EngFrosh Facil, Head, or Planning, if you volunteer at Leo's, if you've helped plan an event or done anything else around CSES, SIGN UP NOW!!! Free money is at stake, what are you waiting for?



Classes and studying would be him charging it, the exam would be him discharging it.



ENTERTAINMENT

An Ode to Shoe Leather Or Yet Another Review Of The Residence Cafeteria

Lasia "Orange Lemur" Kretzel
- JOUR IV -

I like food. Correction, I like good food. However, unlike many students at Carleton, I live in residence and if I wish to eat, my choices are limited to a few locations, mainly the residence cafeteria.

Now I know what you're thinking, the caf at Carleton is certainly a lot better than many other university cafs and we are fortunate to have it in buffet style. And you would be right! But I believe that if you are going to do something, you might as well do it right, especially when you're a business. I could also just cancel my meal plan, make my own food and avoid the caf all together. But this goes out to all those first years who don't have that option. All the first years (and anyone living in a building besides Frontenac or Leeds) have to have a minimum of five meals per week and over \$200 in flex dollars. If you are going to force us to eat at your monopoly of food locations, at least put some effort into the food. I now offer my critique of the cafeteria. My goal is not to name names or point fingers but to point to overall incompetencies I have noticed over my many years of eating in the caf.

Pan Asia: located in the heart of the caf, this large grill hosts a variety of meals ranging from quesadillas to fried rice. But what it is most known for is the stir fry. Students can select from available vegetables and meats to create a custom stir fry made right in front of you. However, the stir fry is a very popular location and to compensate for this, some employees have decided to compromise cook time for line efficiency. Multiple times I was served cold noodles and vegetables. Sure the meat was medium rare like I like it, but it does not make up for the fact that everything is cold. If you are even going to bother cooking something, please, make sure it's warm before you serve it. I would gladly wait the extra two or three minutes to ensure my food is cooked thoroughly. In addition, watch your meat. I love the fresh meat being used now as opposed to the frozen pre cooked chunks from years past but make sure it doesn't go bad sitting outside. If it's already brown, that does not mean that the ambient temperature cooked it.

The Comfort Zone: located on the left side of the large grill, the comfort zone offers students some of that good ol' fashioned home cookin'. If by home cooking you mean the meal your crazy A.D.D. Aunty Sally makes for her cats. Now that's a bit harsh but I have a bone to pick with the comfort zone, particularly with the meat. Occasionally beef roast is served in the caf, and I am a big fan of sweet juicy beef. But all too often

I am served something that compares to charcoal hard enough to cut diamonds and fatty enough to give you a good layer of winter blubber served by a disgruntled employee my friends and I have lovingly dubbed Angry Meat Man. Oh beef roast, shall I compare thee to a leather shoe? Now, I do enjoy the wider variety of fresh root veggies and I think they are a wonderful addition. Just go easy on the butter or whatever you put on them. I find it fills you up in all the wrong ways (first double entendre that was actually intended).

Raven's Grill: Once again, we have a problem with the beef. This applies to every bit of beef cooked in the caf: Why is everyone well done? I know you need to thoroughly cook chicken and pork but beef is one of those wonderful meats that you can cook to taste. All beef here, however, is cooked to a crisp and once again more closely resembles something I would tie to my feet with laces than put in my mouth. Give me juices! Once again, I will wait for a piece of beef if it means having a better food experience. Also, please stop putting the vegetarians on the meat stations. How do you expect them to know how to cook something that they themselves have chosen not to eat? But once again, happy to see some fresh meat going on the grill.

Mediterranean/aka Pizza bar: Worst... pizza... ever. Without a doubt this pizza is the worst I have had in my life.... and I've worked at pizza places. It's not so much the toppings (although the dessert pizzas are WTF) but the method of cooking. I remember when they used to spray the pizzas with industrial pam. I haven't seen it so far which has improved the taste but the pizzas are still goopy and over all undercooked. Once again, I realize the caf is pressed for time so I do give them credit for at least trying to pump out pizzas as quickly as possible but once again, quality has suffered at the hands of quantity.

On the Rye: Not much to say.... make your own sandwich, always has ridiculously long lines so I don't go there very often. Students, just make sure you speak clearly and loudly or they will screw up your order. But at least everything is fresh and it's like Subway.

Produce Bar: It's veggies... I eat them too.... Not much to say on this one either. They have a wide assortment of veggies but perhaps they could rotate some more often. I enjoy the cold salads on hot days and the cottage cheese. All and all, the hardest station to screw up on. Plus we could all use a good salad once in a while.

Vegan Bar: I'm not vegan or vegetarian as you can tell so I don't always go to this station but I have yet another metaphorical bone to gnaw, this time with the veggies in general. Why is the caf suddenly primarily vegetarian? Vegetarians make up probably less than five per cent of the total caf users yet nearly 75 per cent of all meals are vegetarian.

Pasta Bar: Not much to complain on the side of the pasta and veggies themselves. Everything is fresh and prepared very efficiently (and it's hot!) but I know many people would love to see the occasional meat sauce option. Yes we can always go to the prepared pasta next to the pizzas but it is neither custom made nor consistently meat-eater friendly. I loved the meat lasagna. Please make again!

Sushi Bar: Health risks... yadda yadda.... lead poisoning... yadda yadda.... red tide... yadda yadda... JUST PUT SOME FISH IN THE SUSHI ONCE AND A WHILE! I know sushi can be made vegetarian but really... your add is very misleading. It shows crab and salmon meat yet what the caf serves is no more than glorified rice and cucumber. I'd love to see some salmon. Cool idea, poor execution.

Kettle Classics: Wide variety of soups to suit a wide variety of taste. They range from cream of leek to chicken noodle and even watercress. Good job on the fresh soups but why is it everything with "cream of" in front of it seems to taste the same?

Boulangerie: fancy talk for Dessert Bar, the Boulangerie is one of the things I look forward to most in my meal to satisfy my insatiable sweet tooth. Whether it be fruit, jell-o(TM) or some of that wonderful wonderful cheesecake students are really given a treat. However, my sole complaint comes in the form of something white and milky. No not that.... The Whipped Cream. Whipped cream is just that, cream that is whipped, light and fluffy. Not white industrial cement garnish. We could all stand to lose a couple pounds so maybe we could just leave off the whipped cream. Saves a few dollars and I don't waste food!

Now, I understand I am one voice with limited weight so I'd like to know what other students think of the caf. My opinions can only be drawn from my own experiences so please, give feedback loop a call and let me know. Or write your own rebuttal in the next edition and either praise me for the god I am or burn me like a pathetic insect beneath your magnifying glass.

Many a Shout, Yet only One Vote

Evan Heyes
- MECH IV -

Our wonderful editor keeps asking me for these rants, so here we go again.

As the front page of the Charlatan recently pointed out to even the most casual observers, there was recently a mayoral debate, and an election for the city of Ottawa. Well having no intention to miss the featherweight mudslinging championships I decided to attend.

When I arrived, the comments from the candidates were the usual bull: speak for three minutes

and say precisely nothing. After question period started, however I nearly burst into tears, for whenever a candidate was asked a question he responded with "I will..."

At that point warning klaxons sounded for me, but the rest of the audience seemed just as oblivious as they had been before hand.

Are there not many people on the council? Doesn't each one, including the mayor, get only one vote? It may be the engineer in me but if the following

inequality occurs:

$(\text{Mayor} + x) < y$ where x and y are numbers of councilors.

The vote still falls flat on its face. Sure there may be times when the mayor could be the swing vote, but the same could be said for any councilor, If too many councilors disagree with him "I will" suddenly becomes, "I wish." Admittedly it is the right number of letters but both are four letter words and best be avoided.

We put the concrete slab in the curing room because it keeps the moisture levels in the slab high.

Revenge Served Hot

Andrew "Rocksteady" Campbell
- EARTH V -

So if any of you read the last issue of the Iron Times you may have noticed the article named "Top 5 Reasons Not To Give Andrew Campbell Pie". Well I am here to give my reasons on why I deserve an apple pie, as well as a excellent recipe on how to make one (I think she wrote the article because she doesn't know how to make a pie).

Well let's first start talking about the reasons she gave on why I don't deserve one. I do NOT have too many patches on my flightsuit. Your flightsuit is supposed to be personalized to you so that's what I did. If you know me, you know when I do something, I over do it. When I was flightsuit committee, we did more events than anyone has ever done and when I do GNCTR tech ex, I do the same thing. This year I am building a plane that has propellers and a smoke machine, motorcycles, a skull fountain, and a tattoo parlor. So excuse number #5 = FAIL.

George is a nice guy and his food is really good (trust me...his breakfast is amazing). Even though he does only work at Staples, he has more important things to do than cook me food, like finding a real job before he gets deported. So unless she wants George deported, excuse #4 = FAIL.

So your birthday is on Pi Day. Well that means you should be able to make some epic pie. It's in your blood and if everyone gave you pie, you would have too many and get fat. Also the pies would go bad. So excuse #3 = FAIL.

Yes I might have asked her to paint me a mural for GNCTR but if she didn't do it then she would not have been on the team. So in reality she did it to be on the team and not a favour to me. I also warned her about the large house that was being placed in front of it and told her that it didn't need to be very detailed. Also I quote "A certain person may or may not have painted....etc", so she may not have painted it for me and just told me she did. There was other people up in the room where it was being painted so, excuse #2 = FAIL.

So her final excuse includes math, I'm not sure if she thinks that now I'm in Earth Science that I forget 4 years of engineering math, but I don't. She states that $Alexa(\text{bakes pie}) = Andrew(\text{consumes pie})$ is not equal. In reality it is. The ratio of baking a pie to consuming a pie is about 3:1 I believe. The effort to bake a pie is about 3 times as hard as eating a whole pie to yourself. Now we need to ratio out Alexa to Andrew. Well in my mind I would place this ratio out to 1:3. I am 3 times more of a person than Alexa because I am first of all twice her in weight. So where does the other 1 times come from. I'm an upper year, her facil (one of her favourites I believe she said) and also her elder. So taking

those into consideration the equation in numerical values come out to $1 \times 3 = 3 \times 1$ and to my knowledge that simplifies to $3=3$ which if I am not mistaken, is equal. So therefore excuse #1 = FAIL.

My reason on why Alexa deserves to make me an apple pie: she lost a bet and the consequence was to make me an apple pie. If I just asked her to make me a pie and she said no, that would be cool and I would just forget about all of this. But a bet is a bet missy and when you lose you need to pay up. So like I stated above, I think she wrote this article because she doesn't know how to make a pie so here is a recipe for an apple pie to help you on your way to fulfilling your debt to me.

Ingredient for Pie shell:

- 1.5 cups of flour
- 0.5 teaspoons of salt
- 0.5 cups of shortening (Crisco)
- 3 tablespoons of ice cold water

Directions:

First mix in the flour and salt and then cut in shortening until mealy. Then add the ice cold water and mix until it barely holds together. Chill in fridge for one hour and then roll the mix between 2 sheets of wax paper.

Ingredients for the Filling:

- 4 cups of sliced apples
- 1 cup of brown sugar
- 3 tablespoons of lemon juice
- 1 teaspoon of vanilla
- 0.5 teaspoon cinnamon
- 1.5 teaspoons of instant tapioca
- Pinch of salt
- 4 tablespoons of butter or margarine

Directions:

Mix all the ingredients into a large bowl and place into unbaked pie shell. Roll out the pie crust and cut into strips. Lay over the filling in a lattice pattern

Cooking Directions:

Bake the pie at 350F for about 1 hour or until bubbly and browned just right. Rotate after 30 minutes to ensure even cooking.

I believe these directions are very simple to follow and seeing how this pie was due about 1 year ago, I am expecting it very soon please. Until next time, keep your sticks on the ice C-ENG.

Diversifying CSES

Suzanne "Ducktub" Swaine
- AERO VI -

One of my campaign promises when I ran for the position of President was that I would work to reach out to a more diverse group of students. Right now, the core group of students who get involved with CSES is a great one, very involved and passionate about Carleton Engineering. It is admittedly also a fairly small and select group of people and at first glance it is easy to see almost no international students get involved! So what can we do to draw more students in? I worked closely with last year's President, Rob Stalker, and we tried brainstorming ideas:

1. Celebrate different cultural holidays

This one can be difficult as CSES tries to remain religiously and politically neutral, but that doesn't mean our hands are tied completely. We could celebrate Chinese New Year for example. Admittedly, this is something I would need help with, to learn about the different celebrations and how best CSES could partake, so if you or any of your friends have ideas about cultural holidays or events, please drop by the office or email me!

2. EngWear

Carleton's Engineering program has the highest percentage of international students of any program on campus, which means there is a wide range of non-English languages spoken. Once or twice in the past, when printing t-shirts or other clothing items to be sold in Leo's, the logos have been printed in different languages. How cool would it be to have a shirt that says Carleton Engineering in Japanese? Or Russian? Or Arabic? We are always more than happy to receive ideas for EngWear so if you speak another language and would like to see it on EngWear, feel free to drop off the design at the CSES office.

3. A Multicultural Gala/Potluck/Variety Show

Later this year, in February, if I have enough interest in the idea, I would like to start up an event celebrating the diversity in Carleton Engineering. I'm hoping for it to be an evening event involving food and entertainment. A potluck could be held so everyone could bring a dish representing their country (or even just a country whose food they find delicious!) and try a little of everyone else's.

After dinner, I would love to see a sort of variety show with student performers volunteering to share their cultural skills, whether it be singing, dancing, playing music, sharing stories, or anything else. There is also the possibility of inviting a guest speaker to the event, and I've had a few suggestions already. The key to this project is student interest. If you would like to help make this happen, please contact me! I don't mind if you're a first year or a master's student I would love to work with you to make this happen.

4. ????

Got a better idea? Let me know! I want to work to make sure that 2010-2011 is the year where CSES reaches out and proves it's relevancy to a whole new group of students. There are 3000 engineering students at Carleton, why should only 200 of them benefit from, or enjoy, our services and events? Please email me, visit the office, or even stop me in the hallways, if you have any ideas about how to engage a wider range of students, or would like to help with any of the initiatives.

I want to hear from you as the student body: How can CSES become more relevant to a wider range of students? Comment est-ce que la société des étudiants ingénieurs Carleton peut-elle devenir plus diversifiée?

Calling All Rocketeers

Gilles "Nightstalker" Messier
- AERO IV -

"Once ze rockets are up, who cares where zey come down? Zat's not my department!" says Wehrner Von Braun."

-Tom Lehrer, "Wehrner Von Braun," 1965

Do you like space? Do you like rockets? Do you like fire, noise and explosions? Yes? Well, then join the Carleton Hybrid Rocket Research Project (CHRRP): we can offer all of these and more (well, hopefully not the explosions!). CHRRP is a new student-run engineering group I am organizing with the goal of developing and refining hybrid rocket engines, a relatively new technology that is simple (believe me: I built such an engine out of scrap parts in my base-

ment!) and promises to be the cornerstone of affordable commercial spaceflight. Our goals for 2010-2011 are to design, build and test-fire a prototype engine that we can use for future research. Long term goals include building and launching a hybrid-powered rocket.

So, if you want to be a part of real Carleton history (and not the fake Carleton history in Brent Cameron's October article), or just want to impress girls (or boys) by saying "why yes, I am a rocket scientist," contact me at gmessier@connect.carleton.ca or carletonhrrp@gmail.com. Join CHRRP! Join the Future!

Author's Note: There, I finally wrote something that doesn't rival War and Peace in length! Satisfied?

Words To Find

- | | |
|-----------------------|------------------|
| Madonna | Ben Wilson |
| Eric Bana | Ice-T |
| Daniel Craig | Johnny Depp |
| Tom Welling | Paul Walker |
| Michelle Trachtenberg | Eliza Dushku |
| Audrey Hepburn | Jeri Ryan |
| Marilyn Monroe | Helen Hunt |
| Nicholas Cage | Joan Rivers |
| Uma Thurman | Colin Farrell |
| Alexa Vega | Jared Leto |
| Paul Newman | Robert Downey Jr |
| Robert Redford | Tom Hanks |
| George Takei | Ziyi Zhang |
| Halle Berry | Julia Roberts |
| John Wayne | Megan Fox |
| Farah Fawcett | Sean Connery |
| John Cho | Mila Kunis |
| Kal Penn | Liv Tyler |
| Hugh Jackman | Rod Stewart |
| Jude Law | Christian Bale |
| Claire Danes | Chris Tucker |
| Bill Pullman | Jet Li |
| Brad Pitt | Jackie Chan |
| Angelina Jolie | Sting |
| Alexis Bledel | Jason Statham |
| Christina Ricci | Clooney |

Wordsearch

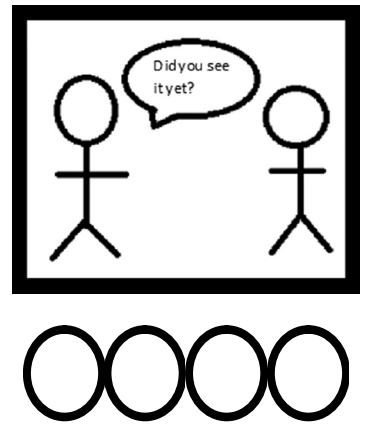
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Choosing a Costume

There are ___ occasions in which ___ might
(indefinite adjective) (person)
 choose to wear a _____. Some require them, some
(clothing)
 suggest them, ___ some simply allow them.
(coordinating conjunction)
 Choosing the ___ costume can often be a _____ task.
(level of appropriateness) (level of difficulty)
 To _____, what kind of costume do you _____ to wear?
(verb) (verb)
 Sexy, _____, Historically Accurate, or _____ shear
(type of costume) (adverb)
 awesomeness. Next thing to _____ is how much
(type of thought, verb)
 _____ to invest. Are you going to _____ one completely
(plural noun) (design method, verb)
 from scratch? Or go to a _____ and buy one off the
(place)
 _____. If from scratch, what do you have to _____ with?
(noun) (verb)
 If buying, how much _____ are you willing to spend?
(form of currency)
 Another _____ to _____ is practical. When going to
(noun) (verb)
 _____ in costume, some are quite difficult to _____ in.
(social event) (activity usually done with the opposite sex)
 Getting _____ and _____ them can also be a challenge.
(preposition) (preposition)
 Another consideration: _____ costumes consist of only
(indefinite quantity)
 clothes, and some require _____. Props also make a
(something put on your face)
 costume fun, not required, but certainly worth _____.
(method of investigation, noun)
 Whether it's a _____, _____, or _____,
(weapon) (scientific instrument) (exotic animal)
 they are great _____ pieces. If you want to
(exchange of information)
 stand out, try _____ a little more _____. The
(verb ending in ing) (adjective)
 trick to _____ this is the details, and make sure you _____
(method of accomplishment, verb) (verb)
 the required _____. And make sure you have an
(noun)
 end vision to _____ towards. If not, then I _____
(verb) (verb)
 choosing something _____. Make it unique but still
(adjective)
 recognizable, uses both _____ and _____, has a
(product marketed primarily for women) (article of clothing)
 _____, and does not have a \$3 off the _____ equivalent.
(example of a prop) (storage location)

Word Scramble

USXHTAE		○					
AALRDIM		○					
BCAARK		○					
ICKCL						○	



WTF Of The Month



- This sign was spotted outside a church in Calgary. Upon being shown it, 3 things came to mind:
1. At least walking with you gets me away from church.
 2. Who knew that AIDS was an advertising gimmick?
 3. I guess this is what happens when sex education teaches people not to use condoms.

Currently, there is a construction worker sitting on box of explosives next to my building.

COMICS & ART

Wasted Talent

www.wastedtalent.ca



inspired by Hooch :D

Abtruse Goose

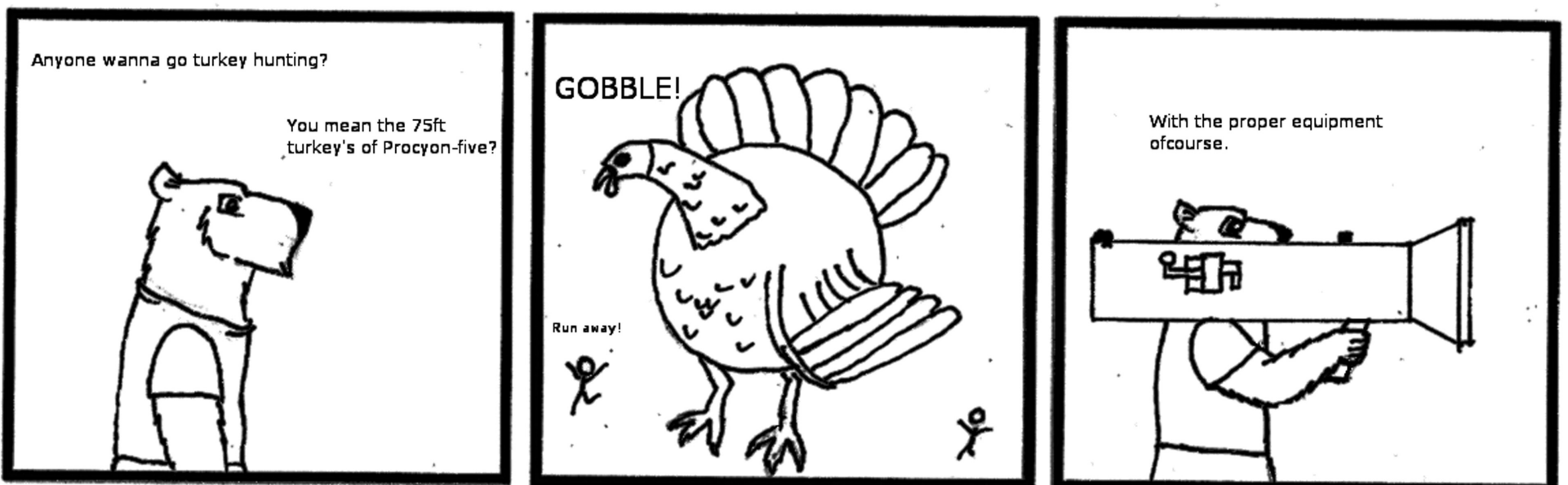
<http://abstrusegoose.com/>



全多灣

Circles, Squares, Hearts, and Minds

<http://cshandm.smackjeeves.com>



This will be a good week.

LAST WORDS

Uses For The Charlatan

- Apparently you can try to hand them out when you run out of candy to trick or treaters, however less than 1 in 50 will take it.
- Making a costume depicting a broke arts student.
- Lay some down as a mat when spray painting.
- Place some underneath the cracks in doors to stop the cold air from coming in.
- Pile some underneath the wobbly chairs in the cafeteria. (There are still a pile of chairs that wobble there that haven't been repaired/replaced since I was in first year).
- Spread several sheets out in your garden between rows to discourage weed growth.
- Put some under car wheels when stuck in snow, mud or sand.
- You can read it.

Sleeper of the Month



Sleeper of the month for the month of October goes to James Sutherland. Like many before him, James is making use of the CMAS couches for cat naps in between classes and 3901 assignments. On this day while he slept, a quick poll was taken in the office whether or not he should be sharpied. It was then decided that rather than sharpie him, objects should be piled upon him. Seen here is a roll of paper towel and large sheet of cardboard. The next item placed would have been the CMAS stapler, however due to the overwhelming awesomeness of the stapler's presence, James was awakened before the photo could be taken. Congratulations James.

* Sleeper of the month is entirely consensual and submission based. All people appearing in this section have given prior consent and have been informed in advance that their picture will appear here.

FEEDBACK LOOP

for statement = 1 to n

You know what works really well at getting out stains? Scissors.

next statement

Alcohol the cause of, and solution to, all of life's problems.

next statement

I could write an article but I'd rather just submit 20 of these.

next statement

Fun fact: there is a 3D model of Renfrew house in Google Earth.

next statement

I do normally get that look. It is usually around the time I start filling the bathtub with ice.

next statement

Me fail English? That impossible!

next statement

You know, I rather like this God fellow. Very theatrical, you know. Pestilence here, a plague there. Omnipotence ... gotta get me some of that

next statement

I don't drink, I don't do drugs, and I don't have sex, but I will snort a line of bacon given half a chance.

next statement

I'm a hypocrite... A hungry, hungry, hypocrite.

end

Want to say something? Post to the loop at:
irontimes.engsoc.org

Upcoming Events - Movember

31	1	2	3	4	5	6
	World Vegan Day	El Dia de los Muertos	Culture Day	<u>Yuk Yuk's</u>	Guy Fawkes Day	<u>Pink T-Shirt Event</u>
7	8	9	10	11	12	13
<u>Battle Royale</u>	World Urbanism Day	<u>Castigliano's birthday</u>	Mārtiņi	Day of No Historical Significance	<u>ENG LOVE Laserquest</u>	<u>Ring Day Small Bridge</u>
	<u>All</u>	<u>You</u>	<u>Can</u>	<u>Eat</u>	<u>Week</u>	
14	15	16	17	18	19	20
World Diabetes Day	America Recycles Day	Icelandic Language Day	International Students' Day	International Philosophy Day	International Men's Day	<u>Whirlwind</u>
21	22	23	24	25	26	27
World Television Day	<u>Passport</u>	<u>Stamping</u>	Evolution Day	<u>VAP</u>	Formation of the NHL Anniversary	Beginning of the Crusades
28	29	30	1	2	3	4
Founding of The Royal Society	Anniversary of PONG being released	Cities For Life Day				

Watch out for the next



Iron Times

December