Iron Times

January 2011

The Official Publication of the Carleton Student Engineering Society

BRIEFS

Academic Fraud or Reference Material

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Audit Oddities

Having heard the uproar on campus over the withholding of CUSA and GSA fees, I decided to grab a copy of this audit for myself. As per usual, I was unsurprised at the folly of our union.

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PEO Conference

The theme of this year's PEO conference was "Engineering - Yours to Discover". This title is a bit misleading since most - if not all - the talks were about what you can do with an engineering degree that isn't engineering or talks about how engineering can open doors towards other programs.

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How to Get Involved in Engineering

This 'how-to' article will hopefully help inform all of you first years on what Carleton Engineering has to offer other than its academic side. This article will help explain how important it is to become involved and how it will make your time here at Carleton more enjoyable.

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Warning: Your photo Is Being Taken

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

Academic Fraud or Reference Material?

Nicole "Nickers" Waldrum
- SOFT IV -

&

Matt "Tank" Cross
- AERO GRAD -

Recently, our household held an interesting debate about the morals of students and the fine line between academic fraud versus referencing. This topic was further brought forward by a professor of mine who mentioned knowledge of a student mafia. Now this student mafia is not the evil entity that one might originally think of. This Mafia is a group of students that gathers and retains assignments, labs, tests and midterms for a select group of students. Many undergraduate students have knowledge of it but few ever speak of it.

This select group of students may never attend a class but still complete that class with an A merely because of previous documents in their possession. The disheartening part is that there seems to be little done to prevent this. The professor previously mentioned, ensures his tests are never repeated, and that only understanding the course material will result in a passing grade. This attitude is limited. While there are many professors who change their assignments and midterms for upper year courses, the core courses have been routinely running the same labs, assignments and midterms since before students completing PhD's even began attending Carleton.

When I first began attending Carleton I was taking a Criminology degree which required taking a first year law course. I had an excellent TA; however, the first thing he stated to us was "I am going to catch 10 of you plagiarizing this year and if by November I haven't, you'd better be extra careful". Despite this warning he caught at least 5 students plagiarizing but I took this warning to heart. The fear of being accused of academic fraud and possibly being expelled from University ensured that I properly documented anything that I referenced.

Plagiarism is more difficult to detect in Engineering because of its inherent collaborative nature. While working with your peers should be highly encouraged, blatantly copying a friend's lab or assignment word for word is plagiarism. Also, acquiring an upper year's lab or assignment and copying it word for word or merely rewording the same sentence is also plagiarism. It is an unacceptable way to get through university, and engineering TAs should be looking for these students. If you can Google it, your TA can Google it. Google is not difficult to use and students will post their labs and assignments online once they are completed.

Beyond this, however, it would be difficult to keep track of all labs and assignments. Over the course of this discussion, the question came up "Why aren't TAs more active in looking for plagiarism?" The answer is they are busy students themselves and do not have the appropriate resources to adequately catch all cases of plagiarism. TAs have their own coursework that needs to be completed including assignments, tests and thesis research. They do not have the time to fully involve themselves in sniffing out plagiarism. Alternatively, there are limited sources that TAs have to compare these labs. If a lab or assignment is word for word the same, it is easy to know, however, it would need to be the same students in the same section. Each Department would need to start retaining copies of all assignments and labs from the students of previous years; this would still require TAs to have time to be able to compare all of these assignments/labs.

One solution would be to create new labs each year. However, this becomes time consuming for professors and there are only so many ways that you can test certain material with the limited laboratory equipment resources. The best solution is for TAs to remain diligent and ensure that blatant plagiarism does not occur. Furthermore, there should be strict guidelines from the professor outlining what could be construed as suspicious for assignments and labs. This would encourage TAs to be more forthcoming with any issues or suspicions they might have regarding students plagiarizing. Open communication between professors and TAs regarding a stance on plagiarism would be beneficial to all students. This would allow them to stand on their own two feet and ensure that they are learning material important to their career. As for using old labs or assignments for reference, it is useful to ensure that you understand the material. Regardless of whether the labs and assignments remain the same you will still understand that material. Therefore, those students that are using reference material will be unaffected by a shift in the current labs and assignments at Carleton.

Lastly, studying from old midterms is always advantageous because it allows you to become familiar with the style in which a particular professor asks questions. Unfortunately, repeated midterms do not ensure that you know the material; it merely ensures that you know how to memorize answers. If students choose to merely memorize answer to previous years midterms because the professors repeat them, there is very bad news for you: you're going to fail the final. Professors are not stupid and they know who attends class and they know who actually knows the material. There will be no sympathy for you attempting to merely edge through the system. In the Systems Department, the solution to this problem is that you must pass the final in order to pass the course. It does not matter what mark you received over the entire term, if you do not pass the final, there is no hope for you passing the course.Students who lend their completed assignments or lab reports to their friends are also putting themselves at risk. Your friend might take your hard work and copy or reword it to submit it themself. When your work gets flagged as a possible case of plagiarism, your best intentions may end in a halved grade, a zero grade, or worse. Then you will find out how much of a friend they really are.

To the students, you are your own ethical control board. You will determine the shape that your academic career takes are Carleton. If you are struggling and need assistance, there are ways to receive help! There are societies with a lot of upper year students that are more than willing to assist you, just reach out to them. There is no reason that you should not be passing, unless you've never attended class, handed in nothing throughout the term and then do not know where to write your final exam.

<u>Plagiarism</u>

- Photocopying your partner's assignment
- Copying from Wikipedia and not citing the source
- Taking an upper year's lab or partner's lab and rewording their work
- Taking anyone's idea and claiming it as your own

<u>Not Plagiarism</u>

- Completing a lab with your partner, discussing concepts and ideas and then writing your own conclusion
- Looking at an upper year's lab to ensure that you understand concepts properly
- Working with people to form concepts and ideas but then writing your own conclusions

Iron Times

The Iron Times is a free publication of the Carleton Student Engineering Society.

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

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Thanks to all the writers that contributed.

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<u>From:</u> 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 with malicious intent. In extension, none of the articles presented in the issue or this publication as a whole is not intended to be malicious is any manner.

I wonder if female firemen put out?

EXEC REPORTS

President

Suzanne "Ducktub" Swaine
- AERO VI -

Happy New Years C-Eng! Hopefully everyone survived exams and are settling into the 2011 Winter term well. The new year will be a busy one with CSES and it promises to be an eventful term. We unfortunately had to say goodbye to our Chair Adrian Bongers as he graduated last term, and so I'd like to congratulate Nolan Hunder on being appointed to the Chair position. Some initiatives I'll be working on this term include having the CSES council attend first aid training, and submitting a proposal to the Dean's office concerning the purchase of defibrillators for the engineering department. Safety first everyone! I will also overseeing a proposal to revamp EngSoc. A new term also means it's time for yet another C-Eng Presidents' Meetings, which I will be hosting around the 4th week of January. The Winter General Meeting is also coming up and all of you should attend! Not only do you get to see all of your lovely Councillors and Exec, you also get to hear what we've been up to last term, mandate us to work even harder this term, and get free pizza! Most importantly we will also be electing a new VP Services, so come on out and have a vote! Lastly, I'd just like to say how great it's been working with our current Exec and Council. We've had a very good year up to this point and I think the Exec especially have been doing really well advancing their portfolios. A few little speedbumps along the way, but I'm proud of our Council and happy with their progress, and I hope you all are too!

VP Social

Steph "Calamity Jane" Seemel
- SREE III -

Welcome back! I hope you all had a delicious Christmas and a scrumptious New Year! I'm gearing up for a wicked sweet second semester and I hope you all share my enthusiasm! Keep your eyes open for my posters and announcements, there are some fun things coming up. We have another Yuk Yuk's this semester and some winter fun! Also, get out volunteering because the winter Volunteer Appreciation Party is gonna be fun. Lastly, "Reflections" the year end formal banquet will be happening in March. This is an expensive event so remember to save some money! Peace, Love and all that Jazz, I hope you have a great semester!

VP Academic

Josh "Canadian Pie" Coulbeck
- ELEC IV -

Hey guys hope you all had a nice break over the holidays and that exams went well. I would like remind everyone about the textbook trade happening from the 10th to the 28th, it went very well last semester so if you have any old books you don't want anymore come by the CSES office and put them up for sale. If you don't want to pay the ridiculous prices at the books store stop by and see what books we have first. Next month we will be running Interface and we are still looking for upper year students to help out. This event will help students learn what is going on in the industry and network. Later this semester we will be running our own National Engineering Week (NEW), we are hoping to do a Rube Goldberg Machine. If you don't know what that is, I recommend google-ing it. For those of you who are interested in getting involved with NEW or interface feel free to send me an email at academic@cses.carleton.ca.

VP Internal

Jamie "Invisible Man" Baressi
- SYSC III -

Hey C-Eng! Hope you had a great holiday break and that you're rested and ready to demolish your second semester. You grads must be itching to be finishing up and moving on! On that note, the form for ordering your Pewter Mugs will be going up on the CSES web page soon! There will be more info sent out using the announce list. Just a warning there will be a deposit on them to make sure you pick them up!

The Winter General Meeting (WGM) is coming up soon too, on the 18th of this month to be exact, there will be a lot of things going on; policy approvals, giving you guys an update on what we've been up to, and electing your new Vice President Services. If you are planning on running for the position at the WGM make sure your know what the position entails and having some familiarity with the portfolio is an absolute must. If you have questions email Suzanne at president@cses.carleton.ca or me at internal@cses.carleton.ca . Until next month CSES keep pushing through IT'S ALMOST SUMMER (and by almost I mean in like 3 months)!

VP External

Kevin "Assbeard" Atkins
- AERO II -

Over the week of January 2nd-January 8th, the Canadian Federation of Engineering Students (CFES) had their annual general meeting known as Congress. This event was held in St. John's Newfoundland with 190 of the brightest engineers from across Canada. Carleton University sent 8 students to this event, 6 as delegates and 2 as officers of the CFES. At this meeting, the officers of the CFES for the 2011-2012 term were selected. Three positions are to be held by Carleton engineering students including Rob Stalker as National Councillor, Brigitte Babin as Official Languages Commissioner and myself, Kevin Atkins as National Capital Liaison. Great things are expected from this year's CFES Officer team, stay tuned for their next Congress in the Yukon!

In other news, this terms CSES Charity LAN/Consoles/Magic Tournament will be held at the end of February/early March. Keep an eye out for posters and tickets in Leo's to help support the Children's Hospital of Eastern Ontario!

VP Pubs

Kaitlyn "Topless" Stockermans
- CIVE IV -

Welcome to 2011! I hope no one has broken their resolutions quite yet. I've resolved to produce another great edition of the Iron Times and voila! Finito! Some other things I've been working on include updating the website, getting ads to run in the next issue and generally being awesome. With the money generated from the advertisements I hope to buy a couple of larger/better newsracks to distrubute the Iron Times, Job Postings and Engineering Dimensions in the current and soon-to-current engineering buildings. I've also been gearing up for the much anticipated WGM and of course attending office hours and meetings.

Stay tuned for the next issue of Lightbulbs: fighting for justice.

VP Finance

Jordan "Crack" Briggs
- AERO IV -

It's a New Year…and we're rich! I've only just landed back in Ottawa from Freddy a short time ago, unpacked my laptop and a bottle of Crown Royal and immediately got to work writing this long overdue executive report. It's a brand new year already, and that's cool because hopefully by the time you read this, I will have ALL of my grades back from the exams I wrote last year. I have most of them, save for that one particular course taught by a certain nameless professor, which may or may not be MAAE 3300 Fluids II with Professor Gaydos. Anyways, grievances aside, there have been a lot of things accomplished since you last heard from me, which was either at the Fall General Meeting or in my last exec report. Remember how there was a bunch of stuff that I talked about doing? Well, a lot of it has been done. Here is a brief recap of what has happened financially since October 2010.

- Student Group Funding for the Fall term was allocated and approved by council in the council meeting November 2nd. A special thanks goes out to my SGF Director, Maurice Weir for his help with this process.
- CSES's insurance policy has been renewed with Marsh Insurance.
- Student Fees collected on behalf of CSES have been remitted and we have deposited the first cheque for 75% of the total fees. The total amount collected from CSES student fees this year was $100,200.98. We will get the remainder of the money in March.
- The cashable Guaranteed Investment Certificate (GIC) that CSES is mandated to have has been re-established with Scotiabank. The $25,000 that was loaned to EngFrosh from the GIC this summer has been repaid and replaced into the GIC.
- A new and improved Student Group Funding (SGF) application form will be finished by the time you read this and will be available for the start of the Winter term SGF application January. An information session about SGF will be scheduled and held within the next two weeks.
- The application period for the Winter round of SGF will commence on Monday, January 17th and close on Friday, February 11th.

Other than the above tasks, I've been actively working to keep the books in order and make sure that expenses have been paid. This has been made a lot easier with the help of my Treasury Director, so if you see Emily LeMay in the hallway, give her a high five. Trust me, there's nothing scarier than a bunch of people begging for money and then having to tell them to wait another week. Except maybe me when I get hungry… Anyways, I hope that Carleton Central has been kind to everyone in the grades, and let's all try and get this 2011 thing off to a good start. As for those New Year's resolutions; if you are still adhering to it by the time you read this, then I commend you. You deserve a cookie. Also, the Winter General Meeting is coming up real soon, January 18th to be exact. I am going to be there, and I am going to look friggin' sharp.

VP Services

Unknown Shadowy Figure
- Undisclosed -

After the mysterious disappearance of the previous VP Services, the position has been temporarily commandered by an unspecified being. Your only chance to return command of the CSES services is January 18th, at the Winter General Meeting in AT 101.

The "Unknown Shadowy Figure" doesn`t wear pants either.

NEWS

Audit Oddities

Evan Heyes
- MECH IV -

Having heard the uproar on campus over the withholding of CUSA and GSA fees, I decided to grab a copy of this audit for myself. As per usual, I was unsurprised at the folly of our union.

After obtaining the audit, I began to look through it and there were a number of strange things which came out of doing so. Although none are outright damning to the CUSA administration it does lend credence to the university administration's concerns. Let me state that if anyone has read my articles in the Iron Times, it will come as no surprise that I did indeed go looking for these oddities. What can I say I am a distrusting soul.

Firstly let us look at the freely available budget and the glaring hole therein. It does not take a Nobel Laureate in Economics to find out that Oliver's eats almost 10% of our fees a year. Just under $200 000, out of a budget of just under $2 000 000.

This cost needs to be justified. Hearsay tells me that because Rooster's makes a profit, Oliver's is allowed to run a deficit. Can someone explain this logic? Instead of reducing our fees as they so loudly shout, they use a profitable business to fund one which is not.

Now to dive into the real meat of the issue, the audit, and the wonderful strangeness therein.

Let us first look at the Foot Patrol, a volunteer service provided by CUSA. Let us dissect that for a moment. Volunteer: a person who works for an organization without being paid. Provided by CUSA: all funds required by the organization come from CUSA. Now here comes the odd part, Foot Patrol somehow comes out making CUSA an average over the last two years of $40,000 a year. What almost by definition should be losing money, is bringing in a significant amount of cash. This strikes me as somewhat similar to a perpetual motion machine.

The next oddity is that "Front Office Services" makes $400 000 a year. Now having seen this office, I cannot fathom how they are making this kind of money, that is 20% of CUSA's income. The strange thing is that between last year and this one, it has spiked from $150 000.

These are the most glaring oddities, but there are others, and I encourage all the screamers out there to pick up a copy for themselves and examine the wildly fluctuating finances of our union before blowing the whistle on the administration.

I will admit the administration is not entirely in the right on this. They should not have withheld the fees; they should have not collected them.We paid the fees, grudgingly in some cases, to our student union. If the student union does not have them they should be applied back against our fees for next semester.

And Now For Something Completely Different

Suzanne "Ducktub" Swaine
- AERO VI -

To some first years and second years (and even some upper years), this question may sound completely ridiculous, but… Do you ever get sick of going out with the same people every weekend, drinking too much at a house party, and crashing on a sketchy couch over and over? Or maybe you're just not a big drinker and you're tired of hanging out with drunkies?

I attended my fair share of house parties throughout my first few years at Carleton. In first year, I loved my new found freedom. In second year, I didn't dare miss a house party or social event. By third year, it was still fun going out, but I was starting to get bored of house parties being the only time I saw friends outside of school. I didn't really know what else to do though, and sure Ottawa offers a lot to do but what else could I afford to do without a car and on my very limited budget?

That's when I discovered the Live Rush program. I had heard about it in first year but never taken advantage of it. It's a program offered by the National Arts Centre (located downtown between Parliament and the Rideau Centre) allowing students to purchase *any*available tickets in the house for just $12 instead of the usual $40-90!

I've taken advantage of the program several times to see orchestra shows, a ballet, even an opera (which they subtitle, so you actually know what's going on… who knew?) and I've never been disappointed yet. Last term a group of my friends and I even got box tickets and enjoyed the best seats in the house. If we had bought the tickets normally, it would have cost $750 for the group of us (unreasonable!!!) but with the Live Rush program it cost us under $75 for all 6 of us! On top of opera, orchestra, and dance, they also offer theatre shows in both French and English, choirs/singers, jazz concerts, and even the occasional comedy show. Going to a show is also an excuse to get dressed up (if that's your idea of fun), though it's not necessary. Some people wear jeans and sneakers, others wear cocktail dresses and suits.

It only takes 2 minutes to sign up for the program; all you need is your student number and an email address to sign up online at www.liverush.ca. There are two small catches to the Live Rush program, the tickets only become available the day before the show, so if it's a really popular show and sells out ahead of time, you're out of luck. Also, you can only buy 2 tickets at a time, so if you want to go with a group, you have to make sure they sign up and buy their own tickets.

I really recommend this program though because it's something interesting and different to do if you have a free afternoon or evening, a fantastic idea for a date or a night out with friends, and at just $12 a ticket, it's more than affordable for pretty much anyone.

Worried About Your Future Career Path?

Natalie Linklater
- ENVE GRAD -

If you're wondering where future environmentally-friendly career paths may lead, then you might want to check out The Career Panel for the Young Environmental Professional that is being hosted by SEEDS on Wednesday January 26th from 7pm to 8:30pm in ME 3124.

The career panel will be composed of five individuals working in environmental-related fields such as sustainable energy, carbon sequestration, pollution control, environmental policy, etc. This panel will give students a chance to ask questions, seek advice and to get a sense of the current job market from both new graduates and seasoned veterans. Matt Novada, a confirmed panellist and 2008 graduate of environmental engineering at Carleton, is currently working on a live carbon capture project out of St Marys, Ontario. "We're not just sequestering [carbon], we are actually growing fuel with pollution" says Novada who is happy to make the trip to Ottawa to share his experience with current students.

The panel is being hosted by SEEDS, which is the acronym for The Society of Environmental Engineering, Development, management and Science. The club was founded just over a year ago with the intention of hosting professional, academic and social events that would bring together students from different fields studying environmental subjects. SEEDS is open to both graduate and undergraduate students. Since it is a relatively new club, there are lots of opportunities to get involved. For more information, visit www.seedsottawa.wordpress.com.

Career Panel for The Young Environmental Professional

Date: Wednesday, January 26, 2011
Time: 7 p.m. to 8:30 p.m.
Location: Mackenzie Building, Room 3124

**** Light refreshments will be served. ****

A solitary creature, the firetruck stalks it prey... I guess the Ambulances will just have to wait.

Professional Engineers of Ontario Conference

Luis "Crash" Lopez
- SYSC V -

The theme of this years PEO conference was "Engineering - Yours to Discover". This title is a bit misleading since most - if not all - the talks were about what you can do with an engineering degree that isn't engineering or talks about how engineering can open doors towards other programs. On Friday night we had the first talk of the conference; it was presented by Drew Dudley, president of one of Canada's biggest leadership development programs. He told us these stories about him going on a train and running into people who told him motivational stories. Overall the talk wasn't too educational per say. If you have been to a motivational or leadership lecture before then you've seen it all before. Do your best, plan ahead, and all that. The biggest problem I had with this talk was that dinner wouldn't be served until he finished his talk so it might have felt longer than it actually was.

On Saturday, we started with Manoj Choudhary, the president of PEO. He is this very polite and nice man who gave our engineering society money. Apparently Carleton won this random draw with PEO so our society got a few hundred dollars. On the downside, he misspelled Carleton twice in his slides, both with different spelling mistakes. He talked to us about the responsibilities and perks of being a professional engineer. To become a P. Eng, you need to have a few years of experience in your field of engineering and pass this silly test. If you have done work that isn't in your field but its close enough (from electrical to software for example) then you basically have to present how your work was similar to what you got your B. Eng in however they are very accommodating within reason. The silly test is this ethic and public responsibility evaluation and you get a study manual so really it is more of a mechanism to prove that you know the rules of PEO and what you should do under most ethical dilemmas.

Being a Professional engineer has a few perks. You are now allowed to place P. Eng in your business cards and get bragging rights. Also there are the financial incentives; most companies will pay you more if you are a P. Eng. The difficulty with PEO is that engineering is given self regulation privileges and it is PEO's job to do that regulation. As a P. Eng, you agree to put yourself under the authority of PEO and you really need to watch what you are saying since now you are personally accountable for your engineering decisions. If you are not completely confident that something in the project you are developing is up to PEO and your standards then you better not approve it or you might get sued.

The second presentation by Vernon Kee was a bit lighter hearted. Vernon discovered his love of engineering by tinkering with his paintball marker. Vernon "Asian Tiger" Kee won over 8 provincial and national awards for engineering competitions and got 1st place in some Ontario engineering competition. This guy was an excellent engineer and he decided to quit engineering to go teach. We learned how being an engineer makes you a better teacher because you have a higher math and science background than most teachers.

Furthermore, getting a pay cut from engineer to teacher usually means you are serious about your job. Teachers though have excellent perks apparently. Probably higher quality of life than engineers; they get a lot of vacation days, only have to work a very limited number of hours, and it is near impossible for one to lose their job. Of course, the problem comes in getting an engineering job since everybody wants one and there are so few vacancies every year. The key here seems to be who you know and not what you know.

Vernon told us about his life and his career choices. If you haven't figured it out yet, Vernon is Asian and therefore has Asian parents. His parents were happy that he was in engineering cause asian parents like their kids to be engineers or doctors, his words, not mine. When he decided to become a teacher, his parents decided to stop talking to him for 2 years. He explained to us how there is a cultural difference between how work is viewed between our generation and the older generations. In the old generation, it went go to school go to university get a job and then retire. It was pretty linear for most people. Now, it's go to school go to university, get a job, and then get more university, and then get a new job, and loop like this for a while, and then retire. There is now a huge growth of new job choices so re-educating ourselves every few years to be more work flexible, is becoming the norm. Finally, Vernon told us about how teacher's unions are like gangs full of incompetents who do just enough to scrape by, and also how he believes that while math is useful now and then in engineering, its primary purpose in the undergrad degree is to weed out the least capable or motivated people.

The next talk was presented by the organizing committee of the event. The highpoint of this workshop was that we got to meet this Indian guy from McMaster who was born and raised in Scotland. Hearing a Scottish accent from an Indian is very entertaining, almost like something from Team Fortress 2. In this workshop, the delegates from different universities discussed wide topics and how their universities handled them. It served as a forum to exchange ideas and suggestions between the different delegations.

The next talk was about Governance and Public Policy and it was presented by Helena Jaczek. She is this nice old lady that reminds me of what someone's grandmother would look like if she decided to become a provincial MP. She gave us this long talk about water opportunities and The Water Conservation Act and how engineering affects it. The story here is that the province wanted to handle some water conservation projects. Some members of the government went with a private group of engineers who had the technical skills to do it. There were problems because the government employed engineers didn't want the new kids playing in what they considered to be their territory and the opposition does its job and tries to oppose anything the ruling government proposes. The moral, you could have perpetual motion energy generating machine and it would still take years to go through all the bureaucracy. Half of this presentation felt like the school house rock video of how a bill becomes a law.

Jason Anderson, a professor of UofT, gave us a talk about graduate studies and research. First, what do you need to get into a graduate program? You need good marks in your last few years of undergrad and a few good recommendation letters. It will usually come down to the recommendation letters. The professor who you would be doing your grad studies under wants the best person for the job so those recommendation letters better say you are the second coming of engineering. Grad studies can usually be completed in 2 years but P.H tends to take longer. The reason PHDs take longer is that they require a more meaningful contribution to your field of study than Grad studies and coming up with a creative idea usually takes longer.

Our next speaker was Jonathan Dogterom with a presentation about engineering in entrepreneurialship. We saw how Canada and the United States are no longer an industrial economy (China won that race a while back) but are now an innovation economy. That is to say, we don't make more stuff but we come out with new stuff to make. It was interesting how he pointed out the struggle between engineering responsibility and corporate responsibility. Engineering responsibility is to the public so in that sense, developing a device that harms the environment would be irresponsible. Corporate responsibility is about the profits so letting something like the environment interfere with making profits would be irresponsible unless it's beneficial for the company in a public relationship sense (which would lead to increased profits). An engineer needs to find a balance between these two based on their convictions and risk assessments.

To close that evening, we had a talk about microfinance by a group of artsies with good intentions. Microfinance is a way to help people in need in third world countries by lending them capital for them to develop local industries. Unlike charity, this is a loan with zero interest at a personal level. Every needed person has a profile through a website so you can assess how much of a risk it is to lend them money and what they want the money for. You can even post on facebook that you gave them money so you can brag about it later. It was a very interesting presentation subject wise though the delivery left something to be desired. One of the speakers managed to get the crowd against him by the end of the presentation through his tone and misuse of words (insults). Most amusing point of the presentation was when the speaker almost started a fight with one of the delegates.

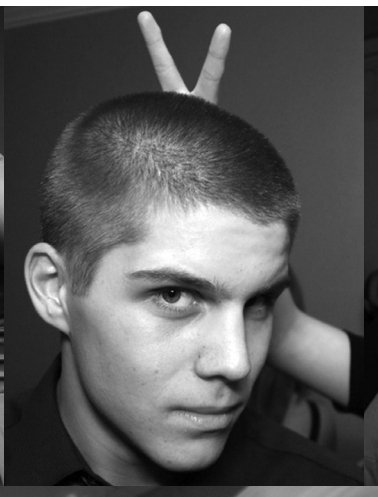
We had our last presentations on Sunday. We started with Ron Shimony. A native of Israel who made a lot of money in America through questionable means (leadership seminars he claims) and by breaching the conditions of his immigration papers. This speaker was one of those "yes, you can" sort. He basically told us that we need to better ourselves and make time for it. The man was a great car salesman but his message lacked meat. Oh and you could buy his book for like 20 dollars after his presentation. He reminded me of that guy from the last season of Dexter.

Finally, a couple of PEO people presented again about what PEO does in more detail. PEO regulates engineering in Ontario and some students and professionals see them as villains of sorts. In reality PEO functions as a professional condom to protect the womb of the general public from the phallus that is engineering. As a condom, PEO might make you feel uncomfortable and it seems like a waste of time to apply it at first but in reality it brings one peace of mind and some protection against problems that may arise by sorting through legal actions started by the general public.

PEO handles all the complaints brought against engineers so that you don't have to. If they are a legitimate complaint, then the engineer will be brought in and an inquiry or investigation may take place but most complaints do not require the engineer being brought in. We were reminded to not take complaints personally and to evaluate the worth of our time. If you decide to take a controversial project that is going to have People complaining and you using up a lot of your time having to dealing with them, you might want to charge more for your time.

We must remember though that PEO is there to defend the public and not engineers. We were recommended to invest in a good lawyer or P.R. Group. Good lawyers are like attack dogs, they cost money but when you need them and let them do their thing, the results are hilarious. OSPE has lawyers on retainer in case you, as an engineer, need them for engineering and non prostitute related incidents. To conclude, not surprisingly, 90% of controversies and complaints fall under Civil and Mechanical engineering.

GALLERY












So who is Miss Little Red Riding Hood anyway?

Also, why is there always a naked guy?

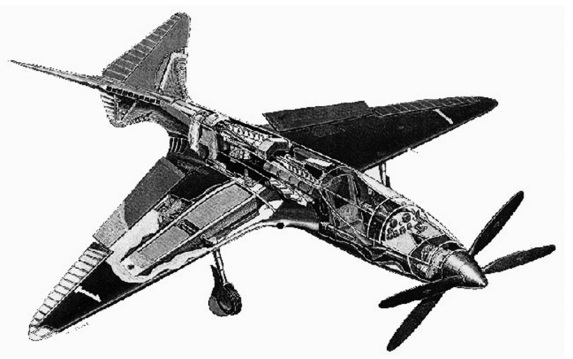
ENTERTAINMENT

The Bugatti Model 100: The Fastest Plane that Never Flew

Gilles "Nightstalker" Messier
- AERO IV -

Ettore Bugatti (1881-1946) is a legendary name in the world of motor racing. The Italian designer's engines and famous dark blue race cars swept racing circuits throughout the first 30 years of the 20th century. His name and company's legendary reputation survive (in name only) to this day in the form of the Bugatti Veyron, one of the fastest, most powerful production cars ever built. One nearly forgotten aspect of Bugatti's life is that he once dabbled in the field of aircraft design. Though it never flew, the result of this endeavour – the Model 100 – is one of the most astonishingly ahead-of-its-time aircraft ever designed. Had if flown, it is estimated that this remarkable raceplane would have been the fastest propeller-driven aircraft ever built.

The Bugatti Model 100 was designed to compete in the 1939 German Coupe Deutsche de la Meurthe air race. At the time, Germany possessed the fastest, most advanced aircraft in the world while France lagged behind in the field of aircraft design. The French Air Force, desperate to acquire modern warplanes, offered a 1.8 Million Franc reward for a French aircraft that could beat the contemporary 440 mph airspeed record (this was later raised to 463.92 mph and 469.22 mph after the German Heinkel He-100 and Messerschmitt Me-209, respectively, beat the old record). Bugatti, who had moved to France in the 1920's and had developed strong nationalistic feelings, vowed to beat the German record and win the Coupe Deutsche for France. He hired Belgian aircraft designer Louis de Monge and set up shop on the second floor of a Paris furniture factory.



Bugatti and de Monge's aircraft was a radical and revolutionary design, far in advance of any aircraft then in production. It featured a sleek, teardrop-shaped fuselage with forward-swept wings and an unusual Y-tail. The airframe was of lightweight wooden "sandwich" construction with a tulipwood frame covered with carved balsa and blue-doped cotton fabric. Beneath the streamlined, faired canopy, the pilot sat in a near-reclining position as in the modern F-16 Falcon. The aircraft was powered by a pair of Bugatti 50B straight-8 engines with lightweight magnesium blocks, canted to fit one behind the other in the rear fuselage. A driveshaft from each engine passed forward beneath the pilot's elbows and met in a reduction gearbox in the nose, driving twin contra-rotating propellers (Ratier metal ground-adjustable type). The cooling and air-intake system for the engines was ingeniously simple: air entered through slots in the Y-tail and was passed forward to feed and cool the engines. Waste air was then expelled into a low-pressure area near the wing trailing edge. The pressure differential between the inlet and outlet meant that no fans or blowers were required.

Perhaps the most ingenious of the Model 100's many innovations was its automatic flap-setting system. A complex system measured manifold pressure, airspeed and other parameters and adjusted the split flaps (and opened and closed the landing gear) accordingly. For example, at low manifold pressure and zero airspeed, the flaps would set themselves for takeoff. The pilot could also dial between six pre-selected flap settings: Takeoff, Cruise, High-Speed Dash, Descent, Landing and Rollout. Control surface trim was accomplished without tabs using threaded control pushrods: a crank in the cockpit could be used to lengthen or shorten the pushrods, adjusting the trim incidence of the control surfaces. The main landing gear covers were angled slightly to produce lift so that upon takeoff, the airflow would raise the gear automatically. The Y-tail (which preceded modern usage –ie. the Beech Bonanza – by decades) and its mechanical control mixing box were awarded a French patent in 1939.

Despite missing the September 1939 deadline for the Coupe Deutsche, Bugatti and de Monge continued work on the Model 100. The French Air Force had awarded them a contract to produce an armed fighter version (designated the Model 110P) once the prototype racer was completed. World events, however, would dictate that the hyper-advanced Model 100 would never fly. In 1940, the German Army invaded France before Bugatti and de Monge could put the finishing touches on their aircraft. As the Wehrmacht marched on Paris, Bugatti moved the aircraft to a barn on his estate in Ermenoville. There it remained until Bugatti's death in 1946. After switching hands for several years, the aircraft was sold in 1970 to American automobile enthusiast Ray Jones, who removed the engines to install them in vintage Bugatti racecars. In 1996, the airframe was finally acquired and restored by the EAA Airventure Museum in Oshkosh, Wisconsin. The aircraft – minus engines – remains there to this day.

Bugatti and de Monge predicted that the Model 100 would have been able to attain a speed of 500-550 mph, making it the fastest propeller-driven aircraft ever built (faster than the current record holder, the Tupolev Tu-95 Bear, at 541.23 mph). Until a flying replica is built and tested, however, we will never know.

Bugatti Model 100 Specifications	
Maximum Takeoff Weight	2086 lb
Wingspan	27 ft
Length	25 ft 5 in
Height	7 ft 4 in
Wing Area	2222.7 ft^2
Wing Loading	13.9 lb/ft^2
Power Loading	3.44 lb/hp
Maximum Speed (Predicted)	500-550 mph
Landing Speed (Predicted)	130 km/hr

How to Get Involved in Engineering

Andrew "Rocksteady" Campbell
- ERTH V -

This 'how-to' article will hopefully help inform all of you first years on what Carleton Engineering has to offer other than its academic side. This article will help explain how important it is to become involved and how it will make your time here at Carleton more enjoyable. I'd first like to say, I've done my fair share of getting involved and have dipped my hand in almost every possible thing I could. There are many different ways to get involved in engineering such as department societies, CSES, Leonardo's Lounge, EngFrosh, engineering competitions, Flightsuit's events, conferences and intramurals. The best way to do this I guess is to go through each one and explain why it's kickass.

Department societies are one of the best things to get involved with. These are places you can go and the room will be filled with upper years who have taken all the courses you are taking right now. These people will have past tests, midterms, exams, and old assignments/labs (that you do not copy word for word because that's plagiarism). They can also help you with any questions that you may have and this is one of the best ways to make your life here in engineering much easier. Let's face it, you are in engineering; the hardest program this school has to offer, with the most work and class hours. We are probably one of the only degrees in which you must complete so many class and lab hours in order to achieve a credit. When I went to change my program to Earth Sciences, the councilor told me that I've done engineering for 4 years so any other degree will be a walk in the park. Coming from him, it has to mean something. These societies can also make your year a little bit cheaper by having discounts on printing and lab manuals. Some even have a textbook library where you can borrow books for a bit. I do suggest finding your society and becoming a member. Many societies also have their own social events which may get you a stamp in your passport. These events include movie nights, Battle Royale, and meet and greets. I became a member of CMAS back in the day and it was well worth it in the end and I wish I had been more involved with CMAS.

Since CSES encompasses the entire faculty of engineering, I'll leave it to the end. Leo's will become your best friend when you move out of residence. This is because us upper years can't just mosey back to our rooms in between classes so Leo's becomes our home. This is also a great way to meet people and it gives the same benefits as a society. There are upper years to help you with classes and assignments. Low prices on food to help you same that extra money for a wonderful weekend full of studying how a fluid travels down a pipe and how too much of one liquid may affect its chamber. The best thing is to volunteer for a shift at Leo's and work your ass off. Leo's is only as good as its volunteers and its managers but those guys usually have experience and are good at their jobs. Being a volunteer at Leo's has it rewards because you get appreciated at Fall/Winter VAP and possibly win the award for Volunteer of the Year or better yet…Outstanding Achievement in Leo's Bumming. I've won both, that skilled and that lazy. Even though the Volunteer of the year gets you way more appreciated in terms of drink/food tickets, being a Leo's bum is a true talent. Becoming Volunteer of the Year also increases your chances of becoming a volunteer manager the next year.

Hopefully most of you participated in EngFrosh this year. That is your first step towards becoming involved in engineering. This is where you meet your friends that you will have for the next 4 years of your life and possibly more. There are still people here from my frosh year 5 years ago, and we still party together and bring up good memories of frosh week. This is one week when you get to give back to the school and help first years get settled down in Carleton. Your facils, heads, planning, spirit are not just random engineers that do nothing all year long until Engfrosh. These are the people that create our engineering society and make your lives fun. Make sure you watch for Facil interviews around the beginning of February.

"Orientation week is a dry event" is in bold letters because it's crap.

RANT!!!!

Mike Turnbull
- ELEC IV -

Over my last few years at Carleton, I've made numerous observations about how to improve the overall student experience, such as finding all the best places to have a good quickie. But by far my most significant observations concern those around me... specifically the people who never fail to piss me off. Many of these people seem to fall into distinct categories. Now I know that I am no angel – I probably annoy many people as well – but nevertheless, here is a nice little list of my (least) favourite people commonly found around campus:

The Parking Space

If you've ever taken a bus in your university career, then chances are you've run into one of these gems. Picture this: you're standing at the bus stop for a good 15 minutes, running late, you're shivering because it's freezing out, and the bus is late. Your day isn't getting off to a very good start. Then your bus crests the horizon and you feel your spirits lift; your day starts looking up. You bust out your bus pass/tickets/change and step up to the curb, only to have the bus just blow right past as if the bus driver didn't see you (or the 5 people standing beside you).

To add insult to injury, you catch a fleeting glimpse inside this apparently "full" bus as it flies past and can't help but notice that there's a ton of room at the back. Standing at the edge of this gap is some dude with all the room in the world. You and those around you all growl out a collective "Fuck" and shake your heads. Ladies and gentlemen, you've just encountered a Parking Space.

Why Parking Space? Because these people are like those assholes in parking lots who take up two parking spots so nobody scratches their expensive Corolla. These guys take up more room than necessary, screwing others over in the process. Just like that douche on the bus.

The Salmon

Ah, the salmon; such a noble and delicious creature. Also, some of the most annoying people you will ever come across. By now I'm sure you have had the pleasure of negotiating the giant UniCentre staircase. Or maybe you've taken the O-Train. If you've taken part in either of the things listed above, then I can GUARANTEE that you've crossed paths with a salmon or two.

These are the people with absolutely no concept of "flow". Like spawning salmon, they head upstream against the current. If you're in a crowd of people pouring off the O-Train, they are trying to get on. If your class just ended, throngs of them begin invading the room before you've had the chance to exit. And you have to wait for all 63 of them to enter the class before the path is clear and you can finally leave.

Finally, if you're walking down the "down" side of the main staircase, these people play by British road rules and walk straight up. On the wrong side. In the one place on campus that contains the MOST congested traffic. Just like those clueless people who are far too important to let others get by before they try to squeeze past. Nope, the laws of common courtesy (and common sense) apparently don't apply. Makes me wish that a Grizzly bear could come and snatch up these salmon as they swim upstream, the way nature intended.

The Roadblock

Roadblocks are much like the Salmon on campus, except a different kind of annoying. Rather than interfere with the flow of things by going the exact opposite direction of it, Roadblocks would much rather just stop it altogether. These people are the cutoff valves to our pipes, the corks to our bottles, and the source of untold rage. They stop dead in their tracks wherever it is the least convenient.

That's right folks: roadblocks are the ones who, in the high-traffic areas all over campus, go: "Hey man, I haven't seen you in a while. Let's just stop right here in the middle of the main staircase and catch up for a minute or two." And let's not forget the "I'm just gonna stop right here in the middle of everything to fire off a text message." Gotta love those. Makes me wanna Sparta Kick these morons down the stairs to get things moving again.

I am a terrible multi-tasker, but even I have mastered a feat that seems beyond these people: I can text while walking! Now I don't mean to boast, but judging from the majority of the student body, I belong to a sickeningly small minority. Some of these people can't even talk on their phones without slamming on the brakes and causing a major traffic jam.

And no, none of this is restricted to the UniCentre and Arts Buildings - as I'm sure some of you are thinking. Many of YOU Engineers are guilty of this crime against common sense. The Mackenzie building has narrow hallways and lots of corners: not exactly an ideal place to stop and discuss your midterm or exchange notes. That's what Leo's and McCoy's are for!

I know we're only human and prone to stupid mistakes every now and again, but these people continue to annoy us time and time again. I urge you not to pull any punches and start calling these people out when they commit these offenses. Maybe then an Offensive Tackle won't be needed to clear the hallways.

And, pretty please, if you happen to catch me in the hallway blocking the flow, or walking on the wrong side of the street so to speak, feel free to berate me without mercy. If I'm that guy taking up all the room on the bus, then call me an asshole and tell me to move outta the way. Because hey, if you can't practice what you preach, then you're just a whiny douchebag.

AERO D Seating

Nolan "Pi" Hunder
- AERO IV -

Sometimes referred to as the "Space Cadets," the 4th year Aerospace Stream D students are definitely a tight bunch. There are only 11 of us, and we have several classes that we are the only ones taking. Because of this, should one of us miss a class, everyone will notice and question them as soon as they are found.

One advantage of having such small numbers was our ability to organize. Apart from the group outings in celebration of finishing exams and projects, and plans for creating our own company, for a period of time we had designed a new seating plan for each lecture in Spacecraft Design II and arranged ourselves in it by the time the professor had shown up.

This began with the epiphany that all of us could fit in the very back row of our lecture room in 3269 ME. Upon doing so we later realized that to any person passing by the classroom, they would not be able to see us and it would appear as though our professor was lecturing to an empty classroom. Several people even poked their heads in the room to see if anyone was actually here.

It was afterwards decided that we should have a new seating arrangement for every class. After a series of chevrons, lines, and a ring in celebration of our prof getting married, we decided to spell out his name over the course of the next several lectures. Below can be seen the photos taken each day at the beginning of class.

In addition to this I'd like to present my completely biased listing of the top 10 unsourced quotations heard in an AERO D class.

10. "He may be right, and I may be wrong, which would be very unusual..."

9. "If you understand the RC circuit, you under stand all of electronics."

8. "Mac is a waste of money."

7. "I'm not starting the lecture until I get my tea."

6. "I get away with it cause I got a british accent."

5. "No tea causes unrealistic conditions no sane person would ever work under."

4. "You need to go into industry and say 'You're stupid because Professor Ellery said so.'"

3. "Quite often the client doesn't know fuck all and needs to be educated."

2. "Intellecturally superior beings should be able to jump the line."

1. "Scientists are like little children, they get very excited over things that reality doesn't like."

Apparently Professor Ellery can be deported at any time.

Mad Libs

Twas the _____ before _____, when all
(unit of time) (holiday)
through the _____, not a _____ was _____
(type of building) (life form) (verb -ing)
not even a _____. The _____ were hung by the
(something that squeaks) (something worn on your feet)
_____, with care, in hopes that _____ soon
(something made of bricks) (celebrity)
would be there. The _____ were nestled all snug in
(class of people)
their ___, while visions of ____ danced in their ____.
(hiding place) (something bad for your teeth) (body part)
And mamma in her '_____, and I in my_____
(article of clothing) (something worn on your head)
had just _____ for a long winter's ___, When
(activity often done in bed, past tense) (noun rhyming with gap)
out on the ____ there arose such a _____, I sprang
(decorative section of landscape) (disturbance)
from the ___ to see what was the _____. Away to the
(noun) (noun)
_____ I ____ like a flash, Tore open the _____ an
(destination) (method of travel) (noun)
_____ the sash. When, what to my _____ eyes
(noun) (verb -ing)
should appear, but a _____ sleigh, and eight tiny
(adjective)
_____. With a little old _____, so lively and ____,
(animal found in the arctic) (occupation/position) (adjective)
I knew in a _____ it must be _____. As _____
(unit of time) (celebrity) (objects to be cleared from yards)
that before the wild _____ fly, When they meet with
(weather phenomenon)
an obstacle, ____ to the sky. And then, in a twinkling,
(verb)
I heard on the ____ The _____ and _____ of each
(location in a building) (verb -ing) (verb -ing)
little ____. As I drew in my hand, and was __ around,
(body part) (motion ending with ing)
down the chimney _____ came with a bound. He
(celebrity)
_____ not a ____, but went straight to his __,
(verb) (noun) (activity)
and filled all the _____, then _____ with a jerk.
(article of clothing, plural) (past tense verb)
And laying his finger _____ of his ____, and giving a
(preposition) (body part)
___, up the chimney he rose. He sprang to his _____,
(gesture) (vehicle)
to his ____ gave a whistle, and away they all ___ like
(type of group of individuals) (method of travel, past tense verb)
the down of a thistle. But I heard him _____, ere he
(form of vocalization, verb)
drove out of sight, HAPPY _____ TO _____,
(day of the year) (subset of a group)
AND TO ALL A ____-NIGHT!
(adjective)

Word Search: Find The Prime Ministers

L	A	U	R	I	E	R	D	T	H	O	M
O	T	T	U	R	N	E	R	B	A	K	E
C	T	H	D	G	L	T	S	E	R	R	C
A	N	O	S	R	A	E	P	N	P	E	H
T	M	M	E	I	G	H	E	N	E	K	R
E	E	P	A	M	M	Y	D	E	R	A	E
C	G	S	F	C	N	E	E	T	B	B	H
L	N	O	G	N	D	N	I	T	O	N	G
A	E	N	R	T	N	O	Z	Q	W	E	C
R	I	N	E	T	E	R	N	U	E	F	A
K	T	A	P	O	D	L	E	A	L	E	M
A	E	W	P	B	R	U	K	E	L	I	P
W	R	E	U	B	O	M	C	D	F	D	B
E	H	T	T	O	B	B	A	U	E	O	E
T	C	N	I	T	R	A	M	R	S	D	L
S	T	L	A	U	R	E	N	T	O	O	L

1891.06.16 – 1892.11.24
1930.08.07 – 1935.10.22
1911.10.10 – 1917.10.11/
1917.10.12 – 1920.07.09
1894.12.21 – 1896.04.27
1993.06.25 – 1993.11.03
1993.11.04 – 2003.12.11
1979.06.04 – 1980.03.02
1957.06.21 – 1963.04.21
2006.02.06 – current
1935.10.23 – 1948.11.14/
1921.12.29 – 1926.06.28/
1926.09.25 – 1930.08.06
1896.07.11 – 1911.10.06
1878.10.17 – 1891.06.06/
1867.07.01 – 1873.11.05
1873.11.07 – 1878.10.08
2003.12.12 – 2006.02.05
1926.06.29 – 1926.09.24/
1920.07.10 – 1921.12.28
1984.09.17 – 1993.06.24
1963.04.22 – 1968.04.19
1948.11.15 – 1957.06.20
1892.12.05 – 1894.12.12
1980.03.03 – 1984.06.29/
1968.04.20 – 1979.06.03
1896.05.01 – 1896.07.08
1984.06.30 – 1984.09.16

Prime Minister Trivia Facts

- 9 were Liberals.
- 13 were Conservatives.
- 13 were born in Canada (post confederation).
- 3 were born in Nova Scotia pre confederation.
- 0 were born in Nova Scotia post confederation.
- 7 are still alive.
- 7 never won an election of their own.
- 7 never lead the opposition.

WTF Of The Month

This latest WTF of the month was spotted at The Royal Buffet during all you can eat chinese food. This "Do Not Touch" sign can be seen above the door at the entrance, what it makes it interesting was that it was about 10 ft in the air. After all the 6' 4" members present could not reach it, we resorted to standing upon each others shoulders. It should be noted that had that sign not been there, we would not have had the urge to touch it.

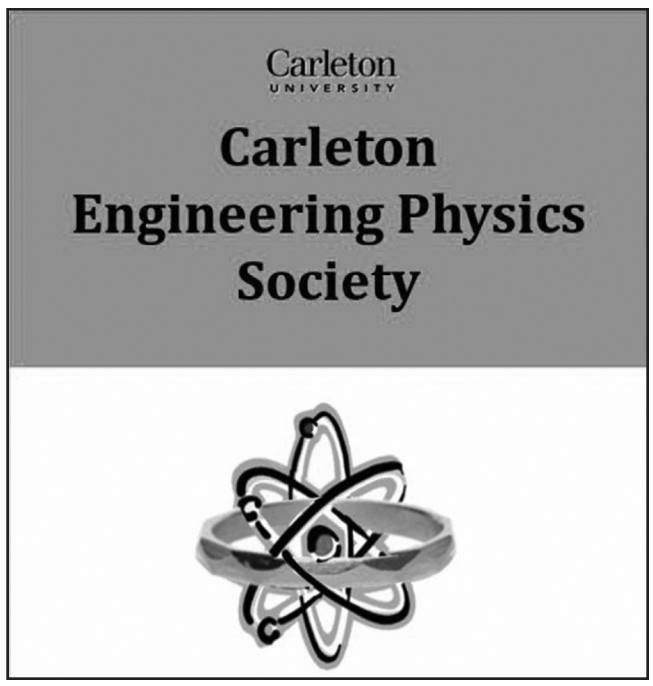
Things to know about Eng. Phys. Students

Evan "Vomit Sausage" Whitworth
- ENG PHYS III -

1. We exist; Owen Marsh and Seb Coloma aren't the only two in the whole school (however the sighting of an elusive 3rd or 4th year is rarer than a Shiny Pokémon inside a double rainbow).
2. PHYS 1004 sucks but PHYS 1002 sucks more (ex: ELEC 3105 linear motor question on a test last week was the same as one as I saw IN FIRST YEAR :|).
3. ??? (no profit: too much time spent in Herzberg).
4. When we see Schrodinger's Cat jokes/comics we laugh…then curl into the fetal position due to a Vietnam style flashback caused by a quantum midterm (OH GOD IT'S EVERY WHERE BUT NOWHERE AT THE SAME TIME!).
5. Eng Phys = ELEC – science electives + quantum mechanics /Millikan's experiment *insert another 'Nam flashback*
6. Don't ask us to help you with your physics homework; we'll probably disregard ours for a break (unless you give the appropriate pay ment of a cookie/back scratch… we LOVE our back scratches).
7. I swear we exist (I'm super serial here).
8. We all deserve apple pies.
9. There's an Eng Phys society (CEPS) *cough* no mention in the handbook *cough*. The so ciety is open to everyone and we have wicked awesome/nerdy events (…that exist). If you want to know more find Seb Coloma and punch him in the kidneys cuz he doesn't do the dishes often enough.
10. Yes we get all the jokes on The Big Bang The ory (and if we don't it's likely we wasted 3 hours after the episode looking up it/other related junk after on Wikipedia)

Editor`s Note:

11. You guys have an article published in the Iron Times, not many other societies can say that.



Writers STILL Wanted

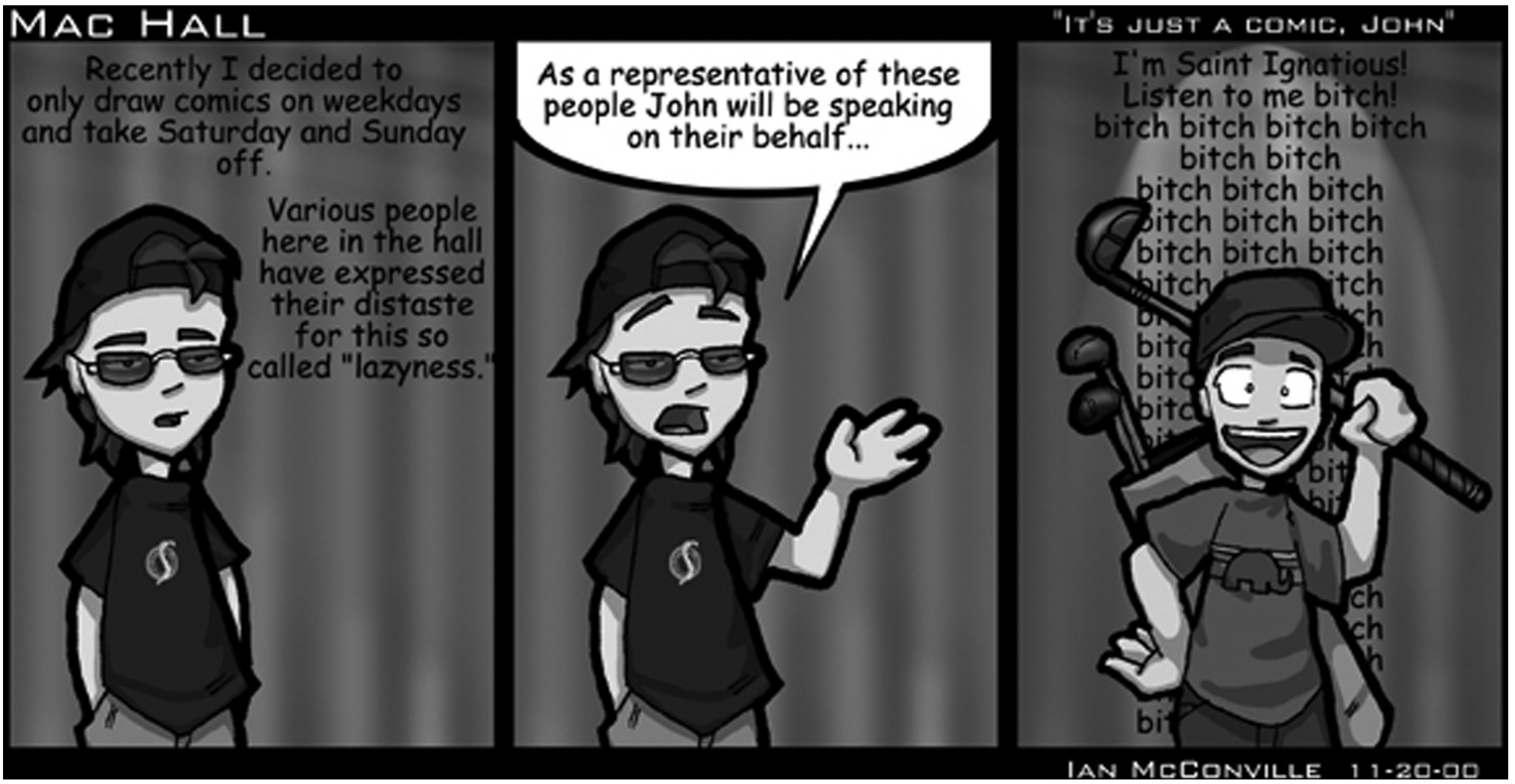
The Iron Times is the Carleton Student Engineering Society's monthly newspaper. Again, it is the SOCIETY's paper, and by extension YOUR paper. To allow us to keep pumping out great issues we need stuff to publish. Articles, photos, comics, anything. If you don't know what to write about, email us and we'll give some suggestions. Here are some right now, interview a prof, draw a comic, go out to an engineering event (as if you needed a reason to) and write about what happened, comment on something going on in the outside world, review a game/movie/book/play/location/inferior school media, etc. The next article submission date is January 27th; writing us an article makes for a great easy New Year's resolution. We once had a 28 page issue, so far we're averaging 12. Without your submissions nothing gets published, so get on that, we don't want to make Kaitlyn cry.

If the Iron Times stopped publishing I think I'd be more likely to cry than Kaitlyn.

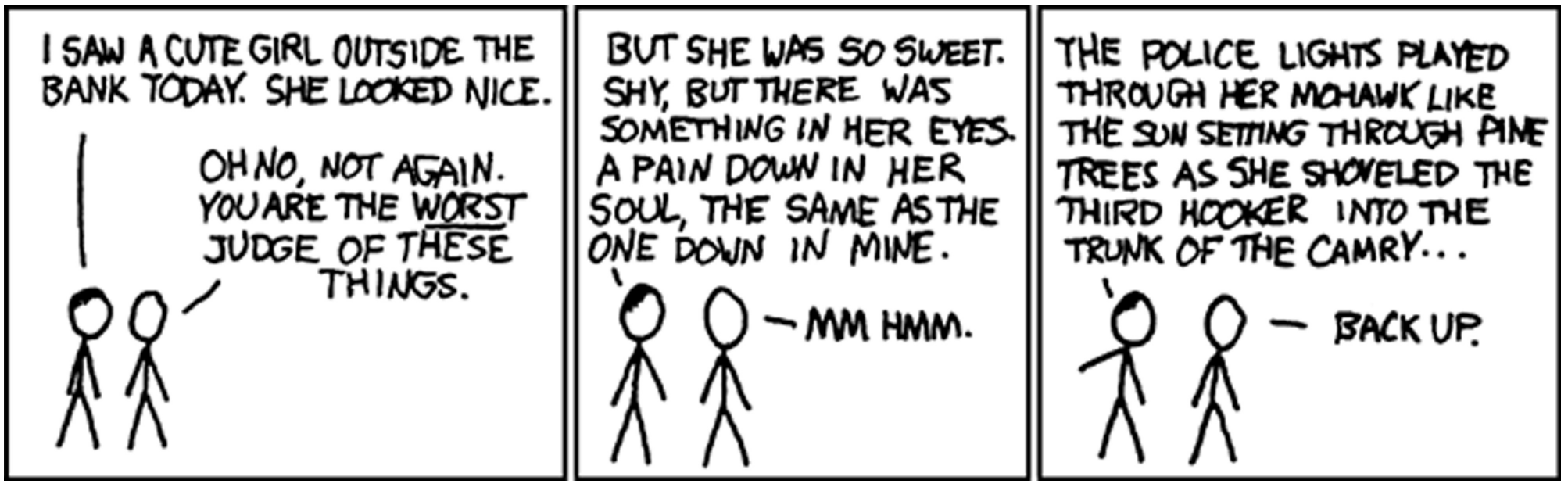
COMICS & ART

Circles, Squares, Hearts, and Minds http://cshandm.smackjeeves.com/

Mac Hall http://www.machall.com/



xkcd http://www.xkcd.com/



P.S. to certain unnamed people, articles longer than 1500 words have a tendancy to scare away people by blinding them with text.

LAST WORDS

Uses For The Charlatan

- Substitute for scrap paper that is going to be thrown out when filming a movie scene.
- Stuff in wet shoes overnight to dry and deodorize them.
- Rolled into shape as a dust pan.
- Made into knee pads for times when you are on your knees.
- Scrunch some up, put some grease on it, and attach it to the end of a stick to make a torch.
- Shred and stuff in vases to help support fresh flowers.
- Lining waste baskets.
- ~~You can read it.~~

FEEDBACK LOOP

```
for statement = 1 to n
```

I hear we can't liscence Leo's because the women's washroom is too far away by 1 meter. the obvious solution is this: no women allowed.

```
next statement
```

Bloody hell I'm a woman!

```
next statement
```

A correction needs to be made as last months WTF of the month was taken in Ottawa, not Calgary.

```
next statement
```

herp derp durrrrr

```
next statement
```

Let's hop on the good foot and do the bad thing

```
next statement
```

Emergency distinction: If your car stolen, that is not an emergency. If you're locked in the trunk when it's stolen, that is an emergency.

```
next statement
```

The alien mothership is in orbit here. If we can hit that bullseye, the rest of the dominoes will fall like a house of cards. Checkmate.

```
next statement
```

Overheard from the Rocket Design Group:
"You`re supposed to design the part that my part slides into and I`m supposed to design the part that slides into your part right?"

```
next statement
```

These are my thinking pants

```
next statement
```

I've got a boner for concrete!

```
end
```

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

Sleeper of the Month

Sleeper of the month goes to Mr. Thomas Bujaki. On this momentous occasion, he had just finished a long night of laser quest, and eng-love with McMaster, and still managed to show up for the Small Bridge Building event. Naturally tired out, he was found unable to continue on a few occasions and taking a quick break for a nap. Unbeknownst to him, a small red moustache was applied during this time. For the rest of the day, his team members made sure that no one told him about this and he only learned of it right at the end of the competition. In honour of this, he has now received the callsign "Sleeping Beauty."

* 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.

Upcoming Events - January

26	27	28	29	30	31	1 New Year's
2 Ancestry Day	3 Tamaseseri Festival	4 Luna 1 reaches lunar orbit	5 National Bird Day	6 Telegraph is first successfully tested.	7 Distaff Day	8 **Kim Jong-un's Birthday**
9 First Flight of the Avro Lancaster	10 Sir John A. MacDonald's Birthday	11 Herschel discovers Titania	12 Deep Impact is first Launched	13 Galileo discovers Ganymede	14 Feast of the Ass	15 **Head Interviews**
16 National Religious Freedom Day	17 Ben Franklin's Birthday	18 **Winter General Meeting**	19 Edgar Allan Poe's Birthday	20 L. A. Thompson patents Roller Coaster	21 National Hug Day	22 Apple Macintosh is introduced
23 Bounty Day	24 Assassination of Caligula	25 Burns Supper	26 **GNCTR**	27 Holocaust Remembrance Day	28 Data Privacy Day	29 First Publishing of The Raven
30 School Day of Non-violence and Peace	31 World Leprosy Day	1	2	3	4	5