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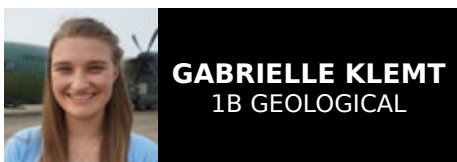


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The 101 About the Fire in Fort McMurray



DarrenRD via Wikimedia Commons



People flee taking nothing but the clothes on their backs, leaving behind the place they once called home, the sky filled with smoke and ash. This is not a scene you expect to hear about one of Canada's most notoriously well-off cities; looking at the images it seems like something from an apocalypse movie. The sky is literally a mass of smoke and flames. Cars line up by the hundreds to leave while the sides of the roads burn.

At this point, it's likely that you've heard about Fort McMurray. Just three weeks ago, most people equated Fort Mac to a hub in the oil industry. Flash forward to now and it's estimated about 19,280 houses have

been damaged. Whole neighbourhoods are now literally smoking foundations. The size of the blaze, which as of May 17 was 355,000 hectares, can be roughly equated to 60 percent of the size of P.E.I.

The fire has consumed huge sections of Fort McMurray and surrounding suburbs, displacing some 90,000 people. Now, the blaze has moved on to an oilsands camp north of the city. All workers were evacuated safely though, and no one was injured. The death toll of this fire remains at two indirect deaths; tragically, the daughter of a deputy police chief and her cousin were killed when their vehicle collided with a tractor trailer as they were fleeing the fire.

The unpredictable nature of forest fires makes them incredibly difficult to fight. It was thought initially that the fire would never reach the town of Fort Mac and that residents wouldn't have to evacuate at all. Un-

fortunately, all the elements were in place to create a truly unruly fire which managed to cross both the Athabasca and Hangingstone rivers, spreading north and through the city.

Meteorology is an incredibly important factor to any fire, and the conditions at the time the fire started were a recipe for disaster. The morning of the fire there was an inversion, a condition where warmer air is trapped above cooler air, trapping down the smoke. Later the inversion reversed, fanning the smoke and flames. The humidity also dropped while the temperature rose in a phenomenon called the Crossover, ideal for a fire. All this added to the winds which blew the flames north towards the city and on.

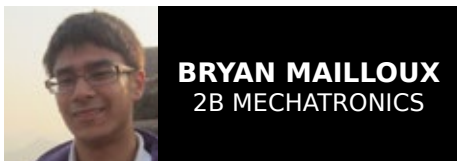
Alberta had been experiencing a dry period and the underbrush in the forests is very susceptible to fire. Not to mention the actual types of nearby trees (spruce and aspens) are

contributing factors; the needles of the pines and spruce blowing easily in the wind, carrying the fire far afield. Even as planes and helicopters try to douse slow-burning forest fires from the air, the wind carries embers further away, starting fires elsewhere. Many of the neighbourhood fires started when roofs were ignited by airborne fire.

Three weeks in, the fire is still burning and fire-fighting efforts are hindered by poor air quality, hot temperatures, and a lack of rainfall in the area. Now it is also a matter of housing the displaced people and starting to look towards a future of rebuilding and the associated costs. Insurance losses alone are estimated to be around \$9 billion.

Aid has been pouring in from around the world and the province has been working to provide relief for displaced people. The nation is now just hoping that no one else is hurt and that it all ends soon.

Professor Carol Hulls Wins National Teaching Award



Carol Hulls, a professor in the Mechanical and Mechatronics Engineering department here at UWaterloo, has recently won the 2016 Society for Teaching and Learning in Higher Education (STLHE)'s Brightspace Innovation Award in Teaching and Learning. This award, with its rather long and intimidating name, is awarded to instructors who develop "innovative approaches that promote student-centred teaching and learning."

Innovative approaches are certainly Professor Hulls' specialty. For one, she is one of the founders of the Engineering IDEAs Clinic, an initiative that aims to have undergraduate engineering students learn about real-life engineering applications. This is done through hands-on activities, such as an engine dissection

(something I did in first year that I have fond memories of), which allows students to see how the concepts they are learning in the classroom are applied to real engineering problems. Professor Hulls is also an advocate for experiential learning in the classroom, integrating open-ended projects into 1A course deliverables to have students thinking like engineers, starting from their first term on campus.

While Professor Hulls certainly deserves this award, I think it's also important to highlight how amazing she is at teaching. I've had the privilege of having Professor Hulls teach two of my courses: GENE 121 (which should be titled "Programming for people who may or may not have programmed before"), and this term, MTE 203 (Advanced Calculus). For both courses, she has always expressed a desire to really see her students understand the material that is presented in lectures, and I feel like the projects she assigns her students are great ways to reinforce that in-class learning. For instance, in GENE

121 for Mechatronics students, students are required to choose a task and to build a Lego robot to perform this task; I remember that after every lab, she was always happy to stay for a while afterwards to address each group's robot problems, or just to discuss robots or programming in general.

Each recipient of the Brightspace Innovation Award receives \$2,200 for registration and travel to attend the Brightspace FUSION and STLHE annual conferences, and a two year membership to STLHE. Professor Hulls' contributions to student-centred learning, as well as her research in real-time sensor fusion, make her a valuable member of the Engineering faculty. She is an especially great mentor to much of the undergraduate community. I know many of my peers are very thankful to have had her introduce them to programming in 1A, and we all wish her the best of luck with her research in experiential learning (even if we are the guinea pigs!)



University of Waterloo

Professor Carol Hulls

VP Student Life Candidates

SABRINA HUSTON AND CHELSEA VANDERMEER VP STUDENT LIFE CANDIDATES

Hello engineers, we're Sabrina and Chelsea, and we are running for your co-Vice Presidents of Student Life! Look at your schedule, now back to us. Sadly, we are not in your schedule. You have too much class and too many assignments! Look down; back up; where are you? You're still in class because you're a great student. What's in your hand? Back at me. We have them, all of the events, outings, activities, socials, charity outreach, free food, and free friends that you love.

TIFFANY CHANG VP STUDENT LIFE CANDIDATE

Hi everyone! My name is Tiffany Chang, and I am running for VP Student Life of the Engineering Society.

As the current Student Services Commissioner, I'm collaborating with our technical workshop directors to ensure that they run successful events. My first co-op was with the Engineering Outreach Office, so I would love to get EngSoc more involved with the community outreach that Waterloo Engineering already has in place. Besides Days at The MUSEUM, it would be awesome to see some of us mentoring

THERESA DECOLA VP STUDENT LIFE CANDIDATE

Hello! My name is Theresa, I am in my 1B term of Computer Engineering, and I would love to be your VP Student Life! In the past, I have been my class's EngSoc rep, and I represented the University of

Both of us have been directors for several terms and have experience running, planning, and executing fun events for you. Sabrina is also currently Student Life Commissioner and is well-prepared to attack your boredom woes! Chelsea is a super keyholder and attends all PO-ETS events, so she enthusiastically sets up, cleans up, and makes sure that everyone has a great time! We are experienced when tackling details such as booking, budget, and scheduling; so you don't have to worry about a thing.

For real, having a balance between school and fun is important for everyone. Meeting new people, trying new things, and making friends integrates your engi-

neering experience with energy and creative outlets that improve your academic outlook. We promise to have a diverse selection of events, such as nights for board games, video games, movies, music, art, Frisbee, laser quest, or even just hanging out... with benefits! Benefits being snacks. And we are going to keep you informed with posters, announcements, Facebook, and MySpace, to make sure you don't miss out. We are open to all ideas and will fight for you to have more fun than you already do, with other engineers who understand the struggle of eternal class, JobMine and geese.

Anything is possible if we become your Vice-Presidents of Student Life!

of the resources that EngSoc provides to help them adapt. If my ideas have piqued your interest, you can read my full platform and profile at <http://bit.do/tchangforvpsl>. If elected as VP Student Life, I would strive to make EngSoc the go-to place where engineering students seek help or have fun. Thank you so much for having taken the time to read my #MeToWE vision. I hope that I will have your support once the polls open. If you have any questions, feel free to email me at tiffanyhchang@gmail.com; or if you see me on campus, stop and ask—I will be more than happy to answer them.

Waterloo at the First Year Integration Conference. I am Currently on both the Council Review Committee, as well as the Leadership Award Committee. Beyond my involvement with EngSoc, I have had a lot of experience planning large events and workshops. In high school, I organized my school's Relay for Life event

for over 100 individuals. I was also one of Microsoft's YouthSpark advocates and had the opportunity to put together and present computer science and coding workshops for youth. If I were elected to be VP Student Life, I would love to work with you to create more of the events and workshops that people want to attend. While maintaining the current number of AutoCAD and programming-based workshops, I want to expand the number of workshops that focus on chemical, environmental, civil, and geological engineering topics, so that there is a more equal representation of all programs within the workshops. I also want to take feedback from students in all types of engineering to ensure that the events and workshops being put on are interesting and relevant. In conclusion, I love organizing events, I'm super enthusiastic, and I would love to be your VP Student Life!

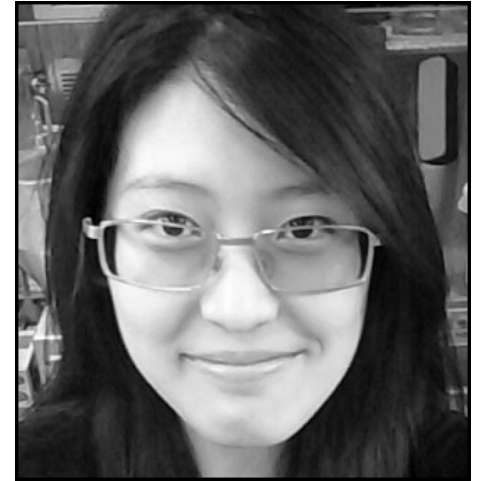
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Sabrina Huston and Chelsea Vandermeer, VP Student Life Candidates



Tiffany Chang, VP Student Life Candidate



Theresa DeCola, VP Student Life Candidate

better understand what WEEF provides them in labs, classrooms and student design teams.

WEEF is here to "benefit undergraduate engineering education", and I believe that its impact in this area is an important facet of being a Waterloo Engineering student. Vote for me to continue this tradition of excellence while striving to improve and streamline the processes.



Jordan Nickel, WEEF Director Candidate


WEEF Director Candidates

JORDAN NICKEL WEEF DIRECTOR CANDIDATE

Hello Everyone, my name is Jordan Nickel, and I'm a 3A Mechanical. I am running for the position of WEEF Director for B-stream. I have been involved with EngSoc since my 1B term as a class rep, as well as involvement with several student design teams. I want to run for this position because I have seen the extraordinary impact WEEF has had on student teams and engineering labs.

I want to help contribute to the continuing impact of WEEF. I also want to reinstate the annual general meetings held by WEEF. I want to do this in order to facilitate communication between engineering students and WEEF, so they can make their voices heard. Another thing I am interested in pursuing is updating and improving the website in order to better communicate where funds are being allocated, how to apply for funding, who WEEF is, and streamlining online proposal submissions. I would also like to increase the visibility of WEEF's contributions, so that the students can


P.Eng. THE LICENCE TO
engineer in Ontario



To practise as a professional engineer in Ontario,
you must be licensed by Professional Engineers Ontario.
It's the law.

**Take your professional career
into your own hands.**

For information on licensing—and how the PEO Student Membership (SMP)
and Engineering Intern Training (EIT) programs can help you get there—
visit www.peo.on.ca or www.engineeringstudents.peo.on.ca

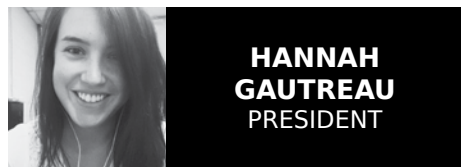


Professional Engineers
Ontario

...regulating the profession
...serving the public

Aaaand We're Back! (Part 1)

President's Update



For those of you I have not met yet, my name is Hannah Gautreau, and I am your Engineering Society President this summer. I am in my 4A term of Management Engineering, and I'm so happy to be back on campus! My executive team and I are wrapping up our terms in office, and we want to make this summer amazing!

This term will be very exciting! The biggest thing that will be happening is the election of a new executive team. Last year at our Joint Annual General Meeting (JAGM), we passed a motion to adopt a new executive structure, and this is the first team that will be working with it! The new roles are President, VP Student Life, VP Academic, VP Communications, and VP Operations and Finance. For more information on these roles, you can check out our governing documents or the Executive Review Committee report on the website! We are in the middle of campaigning, so make sure to take the time to talk to the candidates and read about their platforms.

Leadership Award

Make sure to apply for the Engineering Society Leadership Excellence Award! This is a \$1000 award given out every term to a student who has demonstrated exceptional leadership and improvement to engineering student life. You can find the criteria for this award on the Student Awards and Financial Aid website, and you can hand in your application to the EngSoc Office (CPH 3607) or email it to awards@engsoc.uwaterloo.ca.

Council Review Committee

I have been spending the last nine months working with the Council Review Committee to evaluate the effectiveness of our Council. This was mandated at last year's JAGM, and we will be proposing our changes at this year's JAGM. Check out the website to review the proposed changes, and make sure to attend JAGM on June 26th at 11 am to voice your opinion and to vote on these changes.

First Council Meeting

We had our first council meeting on Wednesday May 11th. Deanna Priori and Brian Schwan came to introduce themselves on behalf of the new Federation of Students Executive Team. Council passed the termly operating budget, as well as a number of policy changes. With these new changes, people who are planning to go on exchange can now run for executive positions in pairs, which will let a lot more great candidates run for exec positions.

Council also mandated the executive to push the faculty to improve course selection, to actively push the University to improve mental health services on campus, to investigate the implications of the new ranking system, and to take an official stance against increasing international student tuition.

For more information about council meetings, make sure to check the EngSoc website, and subscribe to the mailing list! If you have any questions about our council meetings please contact executive.b@engsoc.uwaterloo.ca and we would be more than happy to answer your questions. The next meeting will be held on Wednesday, May 25th at 5:30 in CPH 3607.

If you have any questions, or you just want to say hi, I am (almost) always in the EngSoc office and would love to chat!

Aaaand We're Back! (Part 2)

VP Education Update



Hey everyone and welcome back! I've been super busy this co-op term working on co-op things!

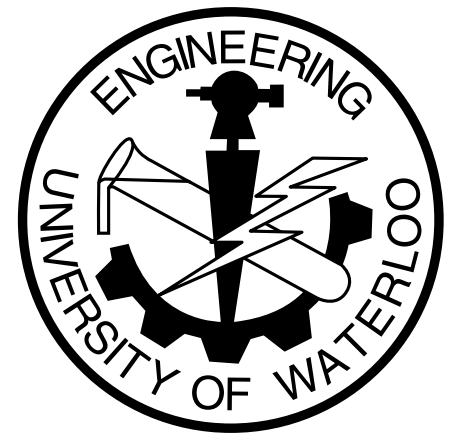
First off, for those who don't remember, last Fall I proposed starting an online tool for engineering students to rate their work terms. Over the winter, I started building this tool, with the help of some amazing EngSoc volunteers. CECA heard that we were building it, and reached out to myself and Jeff, the A-Soc VP. CECA proposed to collaborate with us on Rate My Work Term, which is the official work term rating tool that will be on WaterlooWorks. I decided it was in EngSoc's best interest to work on the official tool, as it would be linked directly to WaterlooWorks. We're currently waiting for the next steps while the other faculty societies are getting the same invitation. Rate My Work Term will launch to architecture in Fall 2016, and to all students in Winter 2017. I'm sure that we will be needing student input in the near future. I am super excited and will keep you posted on things as they happen!

Second, Exam Bank raffles are back! For those who don't remember, last fall we gave away \$100 worth of movie tickets to people who submitted exams to the exam bank. This Spring we have more prizes to give away! Date of the first raffle is TBD, but it will be soon. Anything submitted since the start of term to then will count as an entry so tell your class to upload exams!


Third, as part of my role, I attend university, faculty and CECA meetings to speak on items on your behalf. Recently, the Senate Undergraduate Council discussed whether students should be allowed to share course materials. Last term

the university had issues with an external tutoring agency, on Jobmine, making profit off of exam questions that they got from a hired Waterloo co-op student. To counter this, the university wanted to add a clause to Policy 71 and to course outlines that restricts students from sharing the "intellectual property" of their professors with external organizations and other students, unless they have consent from the professors. Intellectual property includes everything from lecture content to course outlines to exam questions. Myself and others expressed concern that this restriction would do more harm than good for those who share the material in order to learn better, and/or to help younger year students who may not have the same quality of content in their own courses. The discussion lasted an hour; ultimately, everyone realized that UW's goal was to deal with the tutoring agencies, not to make things hard for students. Therefore, the part of the policy relating to sharing course content with students was put on hold for reconsideration, and the policy relating to external agencies passed to Senate.

Super excited to be back and looking forward to another great term! Also send me an email at vpeducation.b@engsoc.uwaterloo.ca if you're interested in taking over my role!



Upcoming Events Calendar

Wednesday May 25	Thursday May 26	Friday May 27	Saturday May 28	Sunday May 29	Monday May 30	Tuesday May 31	Check out up-to-the-day event postings on the EngSoc website at engsoc.uwaterloo.ca/event-calendar/  
EngSoc Council Meeting #2 5:30 PM - 7:00 PM Coffee House #1 8:00 PM - 11:00 PM	EngSoc Executive Campaign Period Begins Let's Talk Mental Health 5:30 PM - 7:30 PM	Professional Photoshoot 1:30 PM - 3:00 PM	Waterloo Engineering Competition Starting at 3:00 PM	Waterloo Engineering Competition	Waterloo Engineering Competition Ends at 4:00 PM WebDev Workshop 5:00 PM - 7:00 PM	Eat Grilled Cheese 11:30 AM - 12:30 PM Arduino Workshop 6:00 PM - 8:00 PM	
Wednesday June 1	Thursday June 2	Friday June 3	Saturday June 4	Sunday June 5	Monday June 6	Tuesday June 7	
EngSoc Executive Campaign Period Ends Laser Cut Keychain Workshop 6:00 PM - 8:30 PM	SSO Study Skills Workshop #1 6:00 PM - 8:00 PM	EngSoc Executive Voting Period Begins Sleepover in POETS 7:00 PM - 7:00 AM	Everything is Better When You're Archineering 10:30 AM - 4:00 PM Dungeons and Dragons 12:00 PM - 3:00 PM		Magic the Gathering: Booster Draft 5:30 PM - 9:30 PM	EngSoc Executive Voting Period Ends Eat Grilled Cheese 11:30 AM - 12:30 PM	

Aaaand We're Back (Part 3)

VP Internal Update



TERESA LUMINI
VP INTERNAL

Heyo!

It's your friendly, neighbourhood VP Internal with news on the word of engineering social events! When I began campaigning over a year ago, one of my major initiatives was to bring back licensing to some of our events, and I'm proud to say that we have done just that. This term, BOT was licensed for a classy wine and cheese night, and EOT will be less classy but also licensed! But we're not stopping there, no sir. Both Coffee Houses this term will also be licensed and we are looking into more events so you can enjoy a beer in POETS and socialize.

Speaking of things that we're bringing back, be on the look out for SCUNT!

Remember that super fun scavenger hunt type event from O-Week? Well it has been a long time, but this event used to run during the term as well; this is the term we are bringing it back! It won't be quite the same, as EdCom will not be making an appearance, but it is sure to be one fun night!

We have some new technical workshops that are running this term, including Web Development Series which has been very successful so far and will continue to run throughout the term. The first and ever-so-popular Let's Talk Mental Health sessions kick off on May 26th, so please come by and feel free to vent about your day and whatever is bothering you, or just listen and remember you are not alone.

There isn't much for me to update you on except to keep an eye out for some awesome events coming up in the next couple weeks and remind you that even though school is important, don't forget to have a little fun every once in a while.

Aaaand We're Back (Part 4)

VP External Update



KIERAN BROEKHOVEN
VP EXTERNAL

Hey everyone! Back again for our last term as EngSoc exec. I've been busy as your VP External. I'll give you a quick update as to what I've been up to, and what's coming.

Let's start with conferences. Part of my portfolio is to attend various provincial and national engineering conferences throughout the year. Two of them happened in the winter term. The first was the Canadian Federation of Engineering Students (CFES) Congress. Seven other delegates and I headed to Calgary for this one, voting on various CFES issues on behalf of Waterloo. Some of the important things happening included the CFES fighting to get a vote on the Canadian Engineering Accreditation Board, as well as mandating the CFES executives to look into ways

to improve employment opportunities for engineering students. Secondly, the VP External of ASoc and I also brought 12 first years to the First Year Integration Conference at Ryerson University! It was a great leadership and professional development experience for all the delegates. On May 26th our delegation will be attending the Annual General Meeting of the Engineering Student Societies' Council of Ontario, my last conference as VP Ex. Keep an eye out for future conference applications! They are an amazing experience.

In terms of the rest of my portfolio, things are running pretty similarly to fall term. Upcoming things include our involvement in Pride Parade on July 3rd (keep an eye out for signups) and the Waterloo Engineering Competition! WEC is happening May 28-29 and will be a fantastic competition. Students can compete in Junior Design, Senior Design, Consulting, or Programming. Check out the Facebook event! A new initiative that the education outreach directors are putting together is a design competition for grade school students in the area. It's proving to be challenging to plan so the launch is planned for Winter 2017. Otherwise, check out the EngSoc calendar to see what's going on.

Come by the EngSoc office to chat anytime! I'm pretty much always there.

be open soon! Similarly, the proposal period for the Engineering Capital Improvement Fund is open too! Go online to the Engineering Society website and submit a proposal if you have an idea that would make life easier for your fellow engineering students.

That's all I have for this update. As always, thank you for reading! If you want to reach out to me, you can always do so at vpfinance.b@engsoc.waterloo.ca. Until next time!

A Toast Tu a New Term



DON TU
VP FINANCE

The sun is shining, flowers are blooming, and every other kilometre between Toronto and Waterloo is bustling with construction workers, determined to make sure that no one can make it anywhere ever again. What do these things mean? Spring term, obviously!

After spending a great four months working in a chocolate factory for my co-op term, I'm back for my second academic term as VP

Finance! Oh, how exciting. What kind of fiscal adventures await? What kinds of budget-defying tricks do I have up my sleeve? What kind of hijinks will I get up to next?

None. There will be no budget-defying or financial hijinks under my watch. But nevertheless, I do have news for you all!

First off, a big focus for me this term will be moving new merchandise into Novelties. If you've stepped into Novelties lately, you'll notice that the shelves are pretty bare. That's because we had stock just flying out of there last term! So, I will be working to refill the store with sweet swag. We already have some new patches on order, and we've got some

other designs in the works. Keep your eyes peeled for announcements upon their arrival!

Furthermore, RidgidWare is also open! As part of a shift in design that started last term, we are trying to offer RidgidWare more as a service rather than a store. Feel free to drop in if you need someone to bounce ideas or discuss pet projects with! With that said, we are still trying to expand our physical offerings in the store. We have a lot of parts on order right now that we will be using to create small kits. Stay tuned for those as well! Beyond that, also be aware that the Engineering Society Sponsorship Committee will be chosen soon and that the sponsorship proposal period will

WATERLOO | ENGINEERING

Learn what a graduate degree in Engineering can offer you!

WEDNESDAY, JUNE 8, 2016
5:00 - 6:00 P.M.
E5, Sedra Student Design Centre

GRAD STUDIES INFO RECEPTION

Speak with faculty members and current grad students about the benefits of a graduate studies degree. All engineering departments will be represented.

- » Food and beverages provided.
- » All undergrads welcome!

uwaterloo.ca/engineering

UNIVERSITY OF WATERLOO

We The North

Raptors Show Their Mettle



**ELIZABETH
SALSBERG**
3B NANOTECHNOLOGY

THE BENCHWARMER REPORT

Basketball fans new and old, the North side finally has a great basketball team with everything to show for it. In a season of ups, downs, injuries, record setting, and exhilarating playoff basketball, the Toronto Raptors have shown they have what it takes to be a true contender in the NBA. Here we stand, in the Eastern Conference Finals for the first time in Raptors history.

The second-seeded Raptors squared off with the Cleveland Cavaliers [LeBron James et. al.] for Games 3 and 4 this weekend at the Air Canada Centre. Despite being down two games to none in their best-of-seven series, fans flocked to Jurassic Park to cheer on Canada's team. Indeed, what a run it has been—and yes, there is more excitement to come. The Raptors are quite capable of re-energizing at home and stealing a game or two away from the playoff-dominant Cavs.

LeBron et. al have swept both of their previous two series en route to their meeting with the Raptors. Detroit gave them as close to a contest as it's come in games one and two of the first round, but ever since it's been all smooth sailing. If there was any doubt that this is the best Cleveland's done supporting their superstar, it's definitely gone. They are unstoppable fast on the transition game; if they can't drive to the hole they make three pointers... all the while staying out of foul trouble and playing stifling defense at the other end. With LeBron James, Kevin Love, and Kyrie Irving out on the floor they have not lost the lead dating back to the 2015 playoffs.

While this does not bode well for the Raptors' chances, there is a silver lining: the Raptors managed to take 2 of 3 regular-season games against the Cavs (both at the ACC). If the all-star duo of Lowry and DeRozan can light it up offensively, the Raptors have a good chance of heading back to Cleveland with at least one game in hand.

However, the absence of starting centre Jonas Valanciunas is a severe body blow to the Raptors offense. The 23-year-old big man has been huge, averaging a double-double in all 2016 playoff games in which he has appeared. His absence is really hurting the Raptors because their three-point shooting and perimeter play offensively has been poor. Though Bismack Biyombo has been great filling in, he simply does not have soft enough hands beneath basket, nor the ability to shoot free throws particularly well. As a result, teams haven't had a problem foul-

ing him hard under the rim to make sure he can't get an easy put-back. Nevertheless, Biyombo's incredible efforts defensively entitle him to a substantial raise at the end of the season.

Speaking of big men, power forward Patrick Patterson has been sensational these playoffs. Despite not making anywhere close to his usual quota of three-pointers this year, he has done two nice things: first, he has been a force defensively, moving his feet and even boxing out the other team's bigs (a phrase seemingly unknown to the Raptors for well... ever). Second, he has set good screens and has not hesitated to drive to the bucket to get an easy two points. He has done all this despite suddenly moving into a starting role after coming off the bench as a reserve all season long.

Did I already say something about defense? Well, I'm going to talk about it again. Most of the Raptors playoff games in the first two rounds had each team scoring less than 100 points. This is a sign of good defense from both teams. During the regular season, the Raptors only lost a mere fraction of games when they held the opposing team to under 100 or fewer.

Toronto's successes and failures these playoffs are easily explained by their ability (or lack thereof) to play 48 minutes of shut-down defense. Back in the first round, they faced the Paul George Indiana Pacers. It took the Raptors seven games to knock off the seventh seed. Why? Because they simply could not contain Indiana's offense on a consistent basis. If George wasn't killing us offensively (thank JYD 2.0, aka DeMarre Carroll for quality D here,) the rest of Indiana was. Yet when George came off the court, the Raptors were easily able to reclaim or extend leads. Toronto certainly improved as the series wore on. That being said, they did not assert themselves early and did not step on Indiana's soft underbelly when it was exposed. Instead, they would let them back into it, giving up 10 point+ leads towards the end of the game, making their lives unnecessarily difficult.

With the so-called "first-round curse" finally shaken off, it was time to face the Miami Heat. Duane Wade et. al. certainly gave us a run for our money, as it once again, took seven games to finally go through. How did we finally win it? Defense and timely offense. Cory Joseph, spectacular throughout the playoffs, along with DeMarre Carroll handled Wade nicely towards the end of the series. Heat point guard Goran Dragic became the main issue thereafter. But again, solid defense down low in the paint forced the Heat to take bad jumpers and a lot of threes. They also made a lot of those threes—Raptors' perimeter defense has been and continues to be a real drag—yet the Raptors cleaned up the garbage on the rebounding side of

Broskies on Brewskies

Captain's Log, Ambear, and Cosmic Cream



**DONOVAN
MAUDSLEY**
TRISTAN KUEHN
3A MECHANICAL
3A SYSTEMS

BROSKIES ON BREWSKIES

Tristan and Donovan are off again—on again roommates and good friends from London Ontario. Good, local food and beer are just some of the common interests these two share. While they realize that they don't know everything there is to know about craft beer (and cider) (and mead), they're always willing to try something new for the greater good. Neither is a beer snob, and both have been known to drink beer store favourites such as Molson Canadian, Budweiser, and their old friend James Ready. They also encourage any readers to recommend their favourite craft beers for review, just email the Iron Warrior!

We wanted to kick off this season of BoB with a special edition, so we picked up 3 different brews from Cameron's Brewing Company in Oakville Ontario. The three that we picked up are Captain's Log lager, Ambear red ale, and Cosmic cream ale. We were initially drawn to Cameron's Cosmic by the bright and cool pastel can design, and when we saw that there were three brews by Cameron's it seemed our mind had been made up for us.

The Captain's Log is an everyman's kind of craft beer. Mellow and smooth, it tastes similar to a craft beer analogy of Canadian. This is one of the more widely accessible beers we've had, similar to the Block 3 King Street Saison from last term. It would pair well with a nicely barbequed burger and potato salad. There are no obvious faults with it as a beer, besides not standing out from the crowd. We gave this a

unanimous three out of five for being good, but sticking too closely to a popular macro brew formula.

Donovan was particularly excited to try the Ambear, being a big fan of other Red ales like the Sparkhouse from last fall. Hops are pretty much essential to making a craft beer, but the Ambear takes this too far. There isn't a whole lot to the Ambear besides being bitter. It is able to retain the lightness of an ale without morphing closer to a stout, but this is really the only thing it has going for it. Overall it's a boring experience and we settled on two out of five.

Cream ales have given us some of the tastier brews that we've tried in the past, but the Cosmic doesn't live up to the reputation. At first taste it was almost like diving right back into the Ambear. Over time, the inner flavour began to reveal itself, but it was too little and too late. Too often we've come across ales that just try to push hops into a nice flavour but that can't find the right balance. For the Cosmic and the Ambear we can taste the beers that the brewmasters at Cameron's were trying to make, but just couldn't. We gave this one two and half out of five, and were utterly disappointed with Cameron's.

Overall we weren't thrilled with the Cameron's brews. The taste pallets just didn't line up right for a terrific tasting craft beer experience. The latter two beers were overly bitter and hoppy, and this is coming half from Donovan, who appreciates the hell out of a bitter beer when done right. If you're a newcomer to the craft beer game though, give the Captain's Log a try. Once again, please taste responsibly and don't forget the cheese and crackers between beers.

Next issue will be our tenth tasting so keep your eyes peeled! Till next time Broskies!



mrteedot.com

things well enough to advance.

Defense and rebounding, defense and rebounding... they allow you to shoot 30% in a quarter while maintaining a lead. Head coach Dwane Casey has emphasized it all year, and in the playoffs, we are finally seeing some real, concrete results.

Though it is unlikely that the Raptors will get past the stacked Cavs, there is

much to be proud of. Coach Casey is the only coach in the last five years to boast an improved regular season win-loss record. With GM Masai Ujiri adding the right pieces in the form of DeMarre Carroll and Cory Joseph (free-agent signings 2015,) along with shrewd pickups in Bismack Biyombo and second round draft choice Norman Powell, these Raptors are the best yet. And the best is yet to come.

Potential EMPLOYER INFORMATION SESSION

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Eurovision 2016!



SARAH CHAN
2B NANOTECHNOLOGY

This past weekend, on May 14, 2016, the world was blessed with the 61st Eurovision Song Competition held in Sweden and it was simply out of this world. It was amazing yet awful but brilliant all at the same time. Anyway, for those of you who don't know Eurovision is an annual song competition in Europe where European countries (and special, now seemingly permanent, guest, Australia) send a song that best represents their country. It's always filled with awkward and lame so-bad-it's-good jokes, outlandish costumes, pyrotechnics, water works, and wind machines to keep the hair blowing. So many memes have come out of Eurovision, one of the most iconic being Epic Sax Guy. This year was slightly disappointing since there were less fireworks and actually decent songs. However, Justin Timberlake made an appearance and it was still a great show full of laughs and WTF moments, and I am here to share some of the highlights of the show.

Opening Ceremonies: So the Opening Ceremonies were interesting... Each country came out waving little flags, which was cute. But then there were these models dressed in; I don't even know how to describe their costumes so you can just look at the photo. I guess the best way to describe it would be the lamp section of IKEA with those modernist, minimalistic white lampshades?

After the Opening Ceremonies, the competition began. Here are the winners and losers, according to Europe and then the winners and losers according to me.

In Last Place: Germany finished last, getting 1 point in the jury vote and 10 in the televote, which confused me a bit because I didn't think the song was that bad. Sure her outfit was a bit off but I keep insisting that she was going for an Alice in Wonderland lost in the woods kind of vibe.

My Worst: Sweden was the only Scandinavian country that made it to the Grand Final and that's only because they were hosting this year. Sweden's Frans performed 'If I Were Sorry,' and was trying to go for a young Justin Bieber on acoustic guitar kind of feel but he was actually even worse than the Biebs and I can't stand him. I have no idea how he finished 5th with 261 points. He must have charmed voters with his cute half smile whenever he would start the chorus. This also leads to a big

question: Why didn't Sweden just send Avicii to Eurovision?

The Winner: Ukraine won with a grand total of 534 points. I wasn't really a fan of the song, which was '1944' by Jamala. It was bizarre and not really in a good way. There was some chanting going on and her outfit was a dress on top of a jumpsuit with a cape over her and it was all the same colour. All I could think was why? Another notable part of her performance was when she held out the last note and a tree grew out of her. That was kind of cool but I still don't understand how she won. I can understand why over 300 000 people have requested a recount of the televotes...

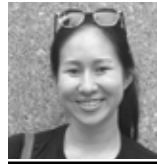
My Favourite: Which leads me to Australia! Australia came in second place. Dami Im was actually really good and I actually enjoyed her song "Sound of Silence." After the jury votes, it actually looked like Australia was going to win. And she deserved to win. But then Australia isn't actually in Europe so there was no way a non-European country could win Eurovision. Eurovision is always held in the country that won the competition the year before. So if Australia won, Eurovision would have to be held in Australia, which isn't actually Europe. Which leads to the question most people have: Why is Australia in Eurovision?

Who Should Have Been There: San Marino should have been there. It was a huge disappointment that San Marino's Serhat didn't make it to the Grand Final with his song "I Didn't Know." It's too difficult to explain how great this song is. You need to experience the majesty yourself. Do yourself a favour and go on YouTube and watch the music video for "I Didn't Know - Extended Disco Version." You know it's going to be good when it's an extended disco version.

Love Love Peace Peace: Actually, I lied when I said Australia was the best act of the night and deserved to win. The song "Love Love Peace Peace" performed by the hosts Måns Zelmerlöw, (Eurovision Winner 2015) and Petra Mede. The song was performed during the interval break and was about how to make the perfect Eurovision song. It referenced so many glorious moments in Eurovision history as well as poked fun of its stereotypes. Previous Eurovision winners Lordi and Alexander Rybak made cameos, as did many other contestants. If you've never seen Eurovision before, I highly recommend you watch this video to understand what you've been missing your whole life.

And that wraps up Eurovision 2016! Can't wait for next year in Ukraine!

Summer Movies!



SARAH CHAN
2B NANOTECHNOLOGY

POP 101

Summer is always a wonderful time for movies, especially blockbuster and action movies. Here are five upcoming movies that you can look forward to seeing (in chronological order):

1. X-Men: Apocalypse

Who? Directed by Brian Singer, director of the original X-Men trilogy; and starring Jennifer Lawrence, James McAvoy, Michael Fassbender, Nicholas Hoult, and Sophie Turner

What? The ninth movie in the X-Men franchise! This time Professor X and Mystique lead a team of young X-Men to stop Apocalypse, the first—and most powerful—mutant. A godlike foe!

When? May 27, 2016

2. Alice Through the Looking Glass

Who? Directed by James Bobin, and starring Mia Wasikowska, Johnny Depp, Helena Bonham Carter, Sacha Baron Cohen, Anne Hathaway and Alan Rickman

What? The sequel to 2010's Alice in Wonderland in which Alice returns to Wonderland through a magical looking glass and must save the Mad Hatter. To save the Hatter, Alice must race against time, and come across friends and enemies from her previous visit in Wonderland.

Canada Continues Plans for Space-Age Domination

SEAMUS BANNON
1B NANOTECHNOLOGY

Canada is now one step closer in our plans of implementing our very own galactic manifest destiny. To date, Canada has already put 11 astronauts into space, and as of 2009 has had active missions on the international space station. Of these great pioneers, the most recent and memorable has been Chris Hadfield.

Capping off a grand total of 166 days in space, Chris Hadfield has done much to extend Canada's claim to the great unknown. For 5 months of those 166

When? May 27, 2016

3. Finding Dory

Who? Directed by Andrew Stanton, starring Ellen DeGeneres, Albert Brooks, Eugene Levy, and Diane Keaton

What? In the long-awaited sequel to Finding Nemo, Dory recalls her childhood memories and sets out to find her family with the help of Nemo and Marlin, meeting new friends along the way.

When? June 17, 2016

4. Star Trek Beyond

Who? Directed by Justin Lin, starring Chris Pine, Zachary Quinto, Simon Pegg, Karl Urban, John Cho, Anton Yelchin, and Idris Elba

What? The USS Enterprise is destroyed during its 5-year mission by powerful aliens, stranding the crew on an unknown planet. With no means of rescue, the crew finds themselves in conflict with a new enemy who has a great hatred of the Federation.

When? July 22, 2016

5. Suicide Squad

Who? Directed by Daivid Ayer, starring Will Smith, Jared Leto, Margot Robbie, Joel Kinnaman, Viola Davis, and Cara Delevigne

What? A DC universe movie in which imprisoned super villains are recruited for a secret task force to save the world from an unknown but powerful and dangerous threat in exchange for clemency.

When? August 5, 2016

days he was commander of the ISS before strategically relinquishing command to Pavel Vinogradov. During his time in space, Commander Hadfield was able to become the first Canadian to perform a spacewalk. However his primary mission, in hopes of winning the hearts and minds of the Canadian population, was to make the perfect music video for David Bowie's "Space Oddity".

Regrettably, all great heroes must fall, and Commander Hadfield is no exception. After returning to Earth, the 53 year old Commander Hadfield promptly retired, marking an end to a near perfectly executed propaganda campaign.

Just this week, the Canadian Space Agency announced their new tribune in the effort of expansion, David Saint-Jacques. Born in Quebec City, Saint-Jacques is a multitasking, decorated, and highly educated individual. Saint-Jacques has his B.Eng. in engineering physics from Ecole Polytechnique de Montreal, Ph.D. in astrophysics from Cambridge University, and finally a M.D. from Université Laval. In addition to this, Saint-Jacques is fluent in English and French and can also converse in Russian, Spanish, and Japanese.

In his acceptance speech, Saint-Jacques is quoted in saying "Today, I stand on the shoulders of all the astronauts who came before me. They inspired me—they were my role models. They sparked my curiosity about space and made me want to experience spaceflight for myself. Space exploration is the next step for humanity, and I am proud to be part of it."

All in all, it seems as Canada's plans for space-age domination are progressing nicely. Excellent.

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Captain America: Civil War



DONOVAN MAUDSLEY
3A MECHANICAL

Captain America: Civil War is the follow-up to 2014's *The Winter Soldier*. Or 2015's *Age of Ultron*, depending on how you look at things. I had heard that when making *Civil War*, the creative team did something controversial—ignoring new coming movie goers. While this might cut down the accessibility of this movie, I think it was a great call. *Civil War* is Steve Rogers' fifth outing, and if the writers' room had to keep reintroducing him and his comrades-in-arms in every film, then a significant amount of time and energy would be wasted. *Civil War* kicks it off with the new roster of the Avengers on a fast, high-intensity mission. The prep time needed to explain the change in rosters which occurred during *Age of Ultron*, or who these characters are would have taken the punch out of this sequence.

This sequence brought back Brock Rumlo, having undergone the transformation from sleek Hydra agent to the villainous Crossbones. Crossbones is a simple villain just trying to steal a biochemical weapon, but his enhanced gauntlets and brutal methods leave a lasting impression. The fallout from this confrontation kick starts the main conflict. Many governments around the world take issue with the Avengers, a privately funded American super-team, operating covertly with impunity on their sovereign soil. This seems like a reasonable enough stance to me, but when global legislature is proposed to take the decision making process away from the Avengers, Divides start to form.

There is very little outright hero vs. villain conflict in *Civil War*, although many

characters are not aware of this. Misdirection and deceit are the primary tools of the story's antagonist, Zemo. Adapted from the comic's Baron Zemo, a high-level Hydra member, Zemo brings something new and different to the MCU. He, like so many before him, wants to destroy the Avengers, but he realizes that he can use their own power against them. Iron Man and Captain America themselves haven't really come across an adversary that they can't defeat, so why should he even try? After a great deal of scheming and digging into the past, Zemo is able to find the perfect issue to wedge between the two top-tier Avengers. Daniel Bruhl doesn't get a whole lot of screen time, but terrific writing and delivery craft an excellent performance.

Other new characters also had massive break out performances in *Civil War*: The Black Panther and your friendly neighbourhood Spider-Man. Finally getting to see Peter Parker suit up along with the Avengers was amazing. You might have read last fall that the first comic I ever bought was *Ultimate Spider-Man #1*, and it is still one of my favourite series. Tom Holland gave a pitch perfect, quipping performance while suited up and an even better one while just being an awkward, teenage Peter Parker. Spider-Man had a limited performance though, so the title of true break out character goes to Black Panther.

A scientist, ruler, ambassador, and all-around good guy, the Black Panther's inclusion in *Civil War* was expertly done. Seeking revenge on the Winter Soldier for a crime he didn't commit, the warrior prince of Wakanda shows off his speed and ferocity to the Avengers and the world. Siding with Iron Man out of the classic enemy-of-my-enemy rationale he gets dragged right into middle of the fight. Chadwick Boseman gets some of

the more emotional and intimate moments, when T'Challa interacts with his father as well as Zemo.

The core Avengers are showcased throughout *Civil War*, and it's very clear that they are a family. They really care for each other, even when they're going head-to-head at full steam. After the dust settles, they all know that they can count on one another. Different relationships are explored in detail throughout the film, and I enjoyed watching the dynamic between Hawkeye and the Scarlet Witch. After their heart to heart during the climactic battle of *Age of Ultron* ("... and I have a bow and arrow. Nothing makes sense."), Hawkeye seems to have taken Wanda under his wing. *Civil War* also contains some of the best action sequences the

MCU has seen, not counting Daredevil's one-take beat down sequences. Along with the highly-publicised airport sequence, the Winter Soldier's escape sequence, and the third act showdown between Iron Man, the Winter Soldier and Cap feature the most intense hand-to-hand choreography to date. Despite all the violence, suspense, and big revelations, *Civil War* is still able to serve up Marvel's almost patented brand of comic relief (ha, get it? COMIC relief) and even a bit of romance along the way.

Overall I thought it was best Marvel movie yet, 9.5/10 only because the third act could have been longer and some dramatic irony around the third act reveal would have been cool. The Russo brothers score another hit, and I can't wait for the *Infinity War*.

Hamilton, The Musical

A New Genre of Broadway



hamiltonbroadway.com



TIFFANY CHANG
1B CHEMICAL

If you've ever wondered what the Twitter hashtags #Ham4Ham and #RiseUp were, I might be able to provide you with some insight.

These hashtags are references to *Hamilton*, a musical that has been running on Broadway for over nine months at the Richard Rodgers Theatre. The master behind the music, lyrics, and book are none other than Lin-Manuel Miranda—you may already be familiar with his past work *In the Heights* (2008). Coincidentally, this musical also opened on Broadway at the Richard Rodgers Theatre. Miranda's inspiration behind this show came from historian Ron Chernow, who authored the biography *Alexander Hamilton* in 2004 and became a historical consultant for the show.

The show's protagonist is Alexander Hamilton, one of the seven key Founding Fathers of America. It follows his humble beginnings as an orphan living in the Caribbean, his dreams of seeing an America free from Great Britain's firm grasp—all the way to his ultimate demise by his once-best friend.

As a loyal fan of the Broadway genre, this show certainly distinguishes itself from the rest of the pack. It retains some classic Broadway elements, such as wicked ensemble numbers, amazing orchestrations, and a rich story line. But its relentless beat, powerful lyrics, and infusion of 21st-century rap music makes it a gem. In fact, critics have claimed that the only musical that can compete with *Hamilton* for "The Greatest of Our Generation" status is *RENT*—Miranda himself accredited *RENT* as a major influence in his conception of *Hamilton*.

Personally, I believe that there are many other musicals that are contenders for this title aside from *RENT*—all for different reasons. During the early 1980s, Broadway was in its worst financial decline, yet it was revived in

1982 when Andrew Lloyd Webber's *Cats* opened in London's West End and ran for 19 years. Also by Webber, *The Phantom of the Opera* (1986, West End) is the longest-running musical in music theatre history and is arguably the most widely-known musical in the entire world. Another show that cannot be forgotten is *Les Misérables*, the touching story of love, redemption, and tragedy set during a revolutionary period in France. Another lesser known but equally qualified musical is *Chess*, a story revolving around a politically-charged chess tournament between an American and a Soviet grandmaster during the Cold War era.

Similar to the aforementioned musicals, there is love, hate, revenge, rivalry, compassion, greed, lust, and jealousy—all of the essential ingredients to a great musical. However, *Hamilton* ups its game by reaching out to a broader audience—a younger audience.

This younger audience is not only falling in love with the Broadway genre; they are also benefitting from the show academically! History teachers in the U.S. are using the show's cast recording to pique their students' interest in the subject and as an aid to highlight important historical details during the American Revolution. Essentially, the musical brings to life stories from 18th century America.

Another Broadway culture-changing aspect of *Hamilton* is its diverse cast—the only Caucasian playing a major role in the musical is Rory O'Malley, who plays King George III. Not only does this market the musical to a more diverse audience, but it also reflects modern American society and gives aspiring performers the hope to persevere through the challenges that comes with working in an industry that consists of a Caucasian majority.

It's time for you to take your shot now—a listen of *Hamilton*'s mind-blowing cast recording. If you're in the mood for something sassy, give "Guns and Ships" a listen. If you need some motivating jams, go for "My Shot." If you prefer something more sentimental, I highly recommend "Satisfied"—it may turn on the waterworks, especially if you follow along with the lyrics.

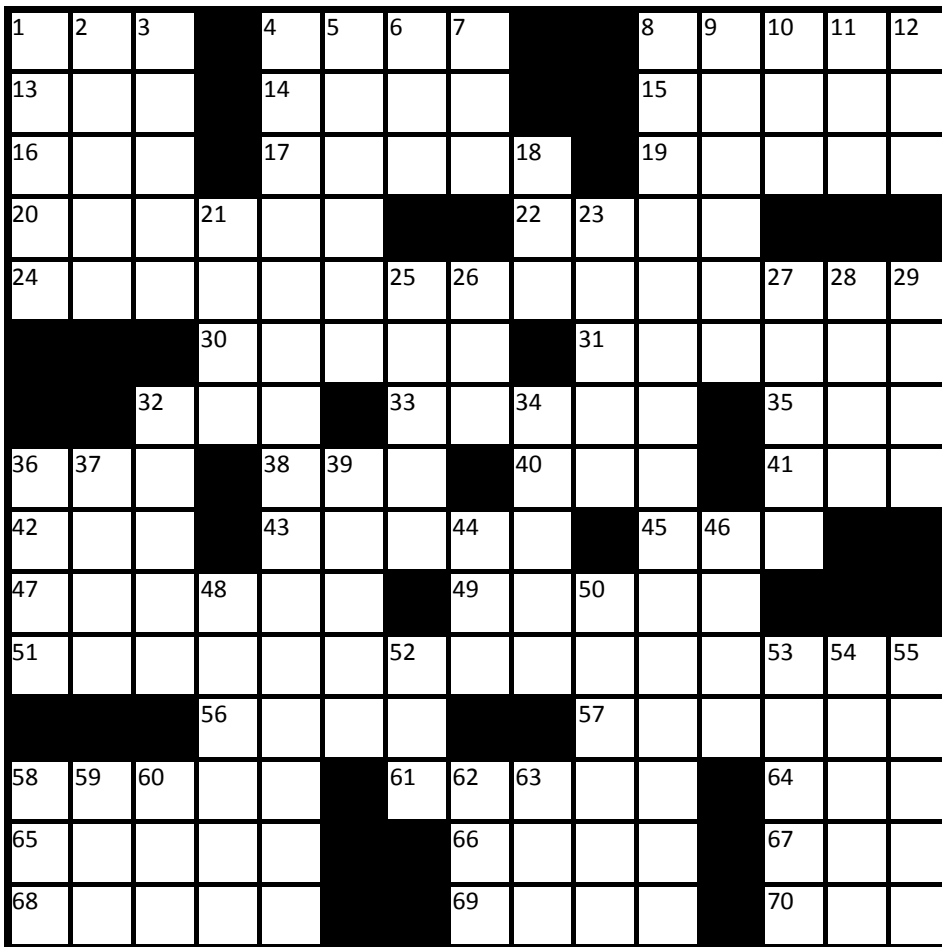


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The Iron Crossword

Fun in the Sun

CAMERON SOLTYS
3N MECHANICAL



ACROSS

- 1: Everything
- 4: The lowest level of a house (abbr)
- 8: Warm but pleasant
- 13: Eggs of a fish
- 14: Long skinny water fish
- 15: Bright sky blue
- 16: Stuck in a ____
- 17: Leg equivalent of a wrist
- 19: Mathematics concerned with the analysis of data
- 20: Study of the behaviour of light
- 22: Create, for instance a cake
- 24: Sunny or rainy, perhaps
- 30: A room with ____ (2 wd)
- 31: A video game that has both real-time strategy and large-person multiplayer elements
- 32: Ontario body for registered nurses (abbr)
- 33: South Africa costal desert
- 35: Money used down under (abbr)
- 36: Contract that prevents someone from

sharing company secrets

- 38: Basic substance used in making soap
- 40: Aspirin (abbr)
- 41: A disease transmitted through intimate contact
- 42: Yes, to a pirate
- 43: Used in CD and Blu-ray players
- 45: ____ the Lovely, Game of Thrones city
- 47: Cause to move
- 49: of incidence or repose
- 51: A response that comes well after an event occurs
- 56: Larger than a teaspoon (abbr)
- 57: Shoes used by a ballet dancer
- 58: Crimean city where a WWII conference took place
- 61: "River rat" or "little beaver"
- 64: Definite article
- 65: "Do you feel what ____?" (2 wd)
- 66: Move off course
- 67: Colour of a maple leaf
- 68: Hidden treasure in an oyster
- 69: Amendment (abbr)

70: Suffix indicating a place of or for

DOWN

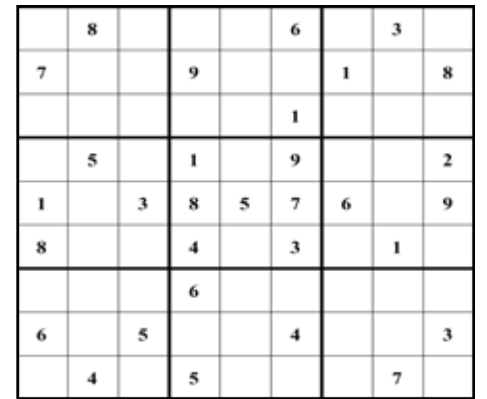
- 1: Ammunition used in a bow
- 2: Jeweller's magnifying glass
- 3: 2013-2014 Italian Prime Minister Enrico
- 4: Sport played in a sand pit with a net
- 5: Martial arts teacher
- 6: "I have a dream" civil rights leader
- 7: Internet abbreviation for "That's so lame"
- 8: Field on which a bouncy-ball is dribbled and dunked
- 9: Pre-Spanish Mexican empire
- 10: Portuguese for "moon", also a programming language
- 11: "I pity the fool" wrestler
- 12: As opposed to no
- 18: Emotional hardcore, a genera of music
- 21: "____ quickly" reason for using sun-screen (2 wd)
- 23: In architecture, the intersection of two surfaces
- 25: Inventor of the Cartesian coordinate system
- 26: Initials of the protagonist in "Catch Me If You Can"
- 27: Gather together
- 28: Scandalous or profane media
- 29: Dr. ____ Quinlan, character in "Scrubs"
- 32: A Christmas ____ traditional fable
- 34: Battle of the ____, WWI battle where Taxis were famously used
- 36: Police department of the largest US city
- 37: Truth or ____
- 39: Possessive form of a Connecticut university
- 44: Organ used for hearing
- 46: Abominable snowman
- 48: Sound made by rodent's feet
- 50: A break or opening
- 52: Used when discussing the age of an embryo (abbr)
- 53: Beginning
- 54: additional, distinct
- 55: Seeking attention
- 58: Sound of a small dog
- 59: US Government agency that provides entertainment to overseas troops
- 60: Land used for grazing
- 62: Female reproduction cells
- 63: Yemen (abbr)

Sudoku

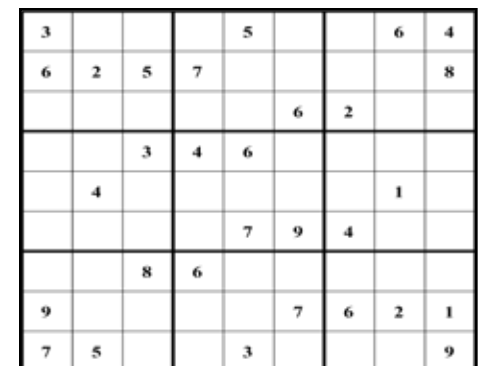
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CAMERON SOLTYS
3N MECHANICAL

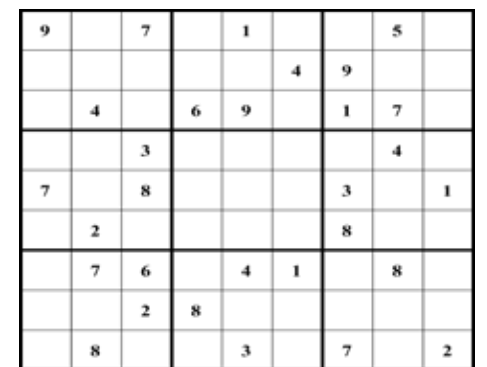
Easy



Medium



Hard



Solutions for previous crosswords can be found on *The Iron Warrior's* website at iwarrior.uwaterloo.ca/distractions.

THE IRON INQUISITION
Tom Willert, 3A Mechanical

"What's the coolest thing you've bought online?"



"Messed with my friend's Amazon account and filled their cart with hander pants and 1,500 live ladybugs."
Liz Morrow, 3A Tron



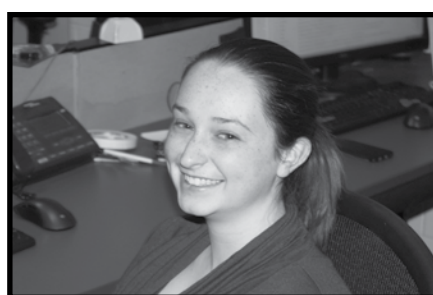
"My roommate bought 5 free posters of Queen Elizabeth."
Tim Woerle, 5A Arts



"My whirling sirens for Frosh week."
Scott Wood, 4A Mech



"Textbooks! They're like a third of the price!"
Ania Polak, 4C Mech



"A bottle opener cap launcher, great for party fights!"
Teresa Lumini, 4A Mech



"Surprise Lingerie!"
Shavaughn Soraine, 3A Mech

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Waterloo Engineering has partnered with Spectrum 28, a Silicon Valley venture capital firm to establish a student venture program for **engineering** undergraduate and graduates students who are seeking ideas or have an idea for an entrepreneurial venture and need cash, mentoring and resources to make it happen.

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July 13, 2016

Demo Day
April 2017

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