

# THE IRON WARRIOR

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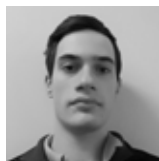


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## You Can't Talk About That How Far Should Governments Go to Limit Hate Speech?



**AARON PROPP**  
1B ELECTRICAL

I probably, by any rules of the modern left, can't talk about this. But I will anyways. I'm talking about free speech. As in the right to say almost anything you want, except for hate speech, regardless of any safe spaces on university campuses. This issue has risen to prominence recently with Professor Jordan Peterson speaking at McMaster University and the University of Western Ontario recently and the protests that have arisen. However, this has been a longstanding issue with the American campus tours of both Ben Shapiro and Milo Yiannopoulos.

Jordan Peterson has been an outspoken critic of Bill C-16, which he claims would

make it a crime for people to address anyone beyond their preferred set of pronouns, including gender-less pronouns. He argues that this is effectively one step closer to 1984, where speech is completely regulated by the government. In this case, the Canadian government is regulating what pronouns one can use or not use when addressing someone, effectively taking away someone's freedom of speech.

Jordan Peterson's participation in a debate about free speech and political correctness at McMaster University was met with protests ultimately shutting down what he said. What's more important to look at is how the protest went down. Jordan Peterson was shut down as the debate was stormed by protestors with cowbells and airhorns. Eventually, Peterson went outside to speak on a bench until he was forced to leave there as well. While speaking on the bench, a protestor blew an

airhorn near Peterson's ear and another threw glitter at him.

This protest shows the current trend towards less and less academic freedom, especially with opinions that dissent from the progressive left. While the actions taken against Peterson towards the end should not happen in any peaceful protest, the actions in the debate hall more impinged on academic freedom and were effectively a heckler's veto, where the one who makes the most noise wins.

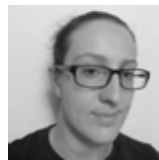
Peterson later spoke at the University of Western Ontario where he was welcomed warmly. The only interruption to his speech was bursts of applause from the sold-out crowd, a sharp contrast to being chased out by an angry mob at McMaster just the day before.

A more extreme example of this is Milo Yiannopoulos' talk at UC Berkeley that happened in February. Milo Yiannopou-

los has fallen into disrepute recently with his comments about pedophilia contributing to the development of young gay men. His talk at UC Berkeley was violently protested by black-clad protestors, who threw fireworks and rocks at police, attacked to College Republicans in the middle of an interview. Some threw Molotov cocktails at buildings on campus and smashed windows on campus.

"While Yiannopoulos' views, tactics, and rhetoric are profoundly contrary to our own, we are bound by the Constitution, the law, our values and the campus's Principles of Community to enable free expression across the full spectrum of opinion and perspective," UC Berkeley said in a statement. I think that this is the sentiment that must be adopted. Regardless of whether the views of the speaker are politically correct or not, they have the right to say their piece without fear of violent protest.

## Professor Homa Hoodfar and Academic Freedom



**CAITLIN MCLAREN**  
4B CHEMICAL

Every year, the Department of Anthropology in the University of Waterloo awards a silver medal to an outstanding undergraduate student. (Congratulations to Bridjet Lee, the 2016 recipient). The presentation is accompanied by a guest lecture, usually by a prominent figure in the field of anthropology today. This year, the speaker was Professor Homa Hoodfar, Canadian-Iranian sociocultural anthropologist and professor emerita of Montreal's Concordia University.

Professor Hoodfar is best known for her work in the area of women in Islamic societies. Last year, on a fairly innocuous trip to Iran during which she planned to access archival materials for research purposes as well as observe the election process, she was arrested by the Revolutionary Guards on suspicion of...essentially doing things the Revolutionary Guard didn't like.

For three months, she was interrogated and accused of numerous things. Highlights included: "feminism" (theoretically not illegal in Iran; indeed, how would such a law be written), interfering with the election (somehow), and conducting her research on behalf of the CIA (who are doubtless extremely interested in the sociocultural meaning of the veil). Of course, all of these charges were baseless; as Professor Hoodfar discussed in her lecture, her arrest was more a part of the longstanding power plays between different branches of Iran's government than because of any real suspicion of wrongdoing. Hoodfar described herself as a pawn, although the situation swiftly grew larger than the Revolutionary Guard had planned.

Initially placed under house arrest, Professor Hoodfar was later held in the notorious Evin Prison for three months. While she was fortunately not physically tortured, she was subject to long and harsh interrogations and kept in miserable conditions. An illness she contracted in prison damaged her vocal chords, limiting her ability to speak.

One thing that Professor Hoodfar could not be prevented from doing was thinking. During her incarceration, she considered the history of those who, like her, were persecuted because of their ideas. She began to write on the walls of her cell.

Because Professor Hoodfar was also a Canadian citizen, there was an international outcry over her arrest. In her talk, she pointed out that she was lucky; Iranian dissenters in a similar position do not have other countries pressuring the Iranian government on their behalf. However, although she was threatened with up to 15 years in prison, Professor Hoodfar was released and returned to Canada in September 2016.

In her talk, Professor Hoodfar discussed the stories of many historical figures who earned the wrath of the authorities by espousing heretical or dissenting ideas. Some, like Galileo or Olympe de Gouges, are familiar; Galileo, one of the giants of early modern science, was arrested for publicly declaring that he had proof of the heliocentric model of the solar system, which ran contrary to the positions of the powerful religious authorities, while Olympe de Gouges was a French writer, early feminist, and anti-slavery activist who was executed during the French Revolution for her then-radical views.

Hoodfar also talked about more recent cases, focusing on scholars and thinkers in the Middle East. They are less well known to a Canadian audience, but well worth

knowing about: for example, the late Nasr Abu Zayd was a liberal Islamic scholar who was declared to be an apostate by the Egyptian government and forced to divorce his wife against both of their wills. Another memorable figure she discussed was May Ziade, a Lebanese-Palestinian writer and one of the earlier Middle Eastern feminists, who was put into a psychiatric hospital by her own family because of her views.

Professor Hoodfar spoke of these cases and more from the perspective of academic freedom. In restrictive societies, the powers-that-be often seek to limit what scholars can study. Some topics might be considered politically subversive and threatening to order; others may be banned

for moralistic or ideological reasons. This, of course, limits human knowledge as well as freedom, and of course is not the behaviour of people who are truly convinced that their ideas will prevail. Nevertheless, in many parts of the world, academic freedom is restricted.

Furthermore, while academics in Canada do have the freedom to study and publish whatever they like (or at least, whatever they can get funding for), Professor Hoodfar emphasizes that we should not take these freedoms for granted. Like all freedoms, as long as there are authorities, academic freedom may come under attack. It is a liberty we should all be prepared to argue for and defend.

## Graduating Iron Warriors



Donovan

This is the last IW issue for Meagan Cardno (EICF15), Caitlin McLaren (EICF16), Elizabeth Salsberg and Alexander Lee (EICF13) [Left to Right]

# Letter from the Editor

## Feminism and The Fall of RyanCare



**DONOVAN MAUDSLEY**  
EDITOR-IN-CHIEF

Hey everyone! Thanks for joining me here for my last editorial! It feels like my time as editor has flown right by. I've talked a lot about stuff that most people probably weren't all that interested in, but if one person listened to Soundgarden or did better in an interview, then I'm happy.

I want to start off this editorial by talking about our graduating contributors. The class of 2017 has had a big influence on the Iron Warrior. We have three past EICs graduating this year! Our grads include Caitlin McLaren from Chemical Engineering and Alexander Lee, Elizabeth Salsberg, and Meagan Cardno from Nanotechnology Engineering. So really Nano 2017 had a big influence on the Iron Warrior. Get your stuff together, other programs. Caitlin, Alex and Meagan all served as Editor in their time here, and Elizabeth has provided the most consistent column that we have here. All of our graduating members have helped me as a writer or editor in one way or another, and for that I'm very grateful. I've got stories about all four of these folks, but for the sake of brevity I'm just gonna share a quick anecdote about Meagan.

Meagan can rant like nobody's business. I mean, the woman can talk. I've seen her talk non-stop for about 5 minutes straight about the smallest piece of a conversation you could imagine. I've heard Meagan rant about Super Smash Bros., politics, grapefruits, pretty much anything. She's got a real talent for articulating her thoughts, and arguing her points. Raesa, another former EIC, has a similar gift to Meagan, and I think if we teamed up the two of them in a debate they could probably beat anyone.

Ok, so I want to take the time in my last editorial to talk about feminism. I've heard some pretty bonkers theories on feminism in the past few years, ranging from "You can't be a man and a feminist" to "Feminism is just man-hating". Neither of these statements is anywhere near correct. Feminism is actually quite a simple concept; women and men should be treated as equals. Being a feminist is pretty much as easy as not being racist. Literally just treating everyone you meet the same and avoiding gender stereotypes wherever and whenever you can makes you somewhat feminist.

Sexism is deeply rooted in Western culture, going way way back to Aristotle's theory that women were inferior to men. Actually Aristotle had some fairly weird theories on women, but I'm not

going to go into that here. I personally think it is sad how deeply rooted sexism is in society. Women in the workplace systemically make less money than men for essentially no reason. By and large women make 78 cents on the dollar for the same work that men do (the value varies from study to study; I'm seeing everything from 62% to 88%). In 2001 a study by the British Chartered Management Institute found that if trends don't change, executives of different genders won't be paid the same until 2109. I just don't see how this makes sense to anybody. Equal work for equal pay is one of the most basic tenants of feminism, and if you support it you might just be a feminist.

I had a conversation a few years ago with a fellow Waterloo student that really shocked me. She said that she didn't consider herself a feminist, which kind of flabbergasted me. We talked a little further about it and I realized that her views on feminism reflected some of the statements that I talked about earlier; feminism as misandry. This is when it dawned on me that this might be a common misconception. Now I don't want to tell you what to think, but as a woman in this day and age who's going to get an advanced degree in applied science (I'm assuming you're an Engineering student, and if you're not I apologize) I assume that you want to be treated the same as a man with the same qualifications. That's completely up to you though.

I don't find it very hard to trace where my feminist side comes from. I was raised by an incredible single mother for most of my life. Strong, stable, and caring, my mum is probably the coolest person I know. She's encouraged me in pretty much everything I've ever done, and helped me get to where I am today. She's shown me some things that I find incredibly cool. The Pixies, *Buffy the Vampire Slayer*, all that cool stuff. She also taught me the value of curiosity, something that I think has kind of petered out among my peers as I've grown up. You're never going to know everything that you can if you don't ask questions. Hard work, honesty, perseverance, all that jazz was strongly emphasized growing up with my mum. She's kind of the best.

I'm going to switch gears now and talk about the swift defeat of the Republican health care bill. Speaker of the House Paul Ryan introduced the bill a few weeks ago, and it has fallen on pretty much nothing but bad press ever since. The bill would effectively remove the Affordable Care Act (ObamaCare) from existence, taking with it millions of people's healthcare. The poor, elderly and disabled would have been the hardest demographics hit, with

significant cuts being made to Medicaid. RyanCare, as the press took to calling it, would also have provided tax cuts to America's wealthiest citizens. So, in essence, it was a bill designed to make getting insurance easier for those who can afford it and harder for those who cannot. The bill also kept some of the most important parts from the ACA, including the legislation on pre-existing conditions.

Needless to say, the Democratic Party unilaterally opposed this bill. Surprisingly though, there was fairly strong opposition amongst the Republican Party. Republican hardliners opposed the bill as they felt it kept too much from ObamaCare and Republican moderates were worried that their seats would be in danger if millions of their constituents lost their health insurance. I'm going to be honest, if I lost my health care due entirely to a bill that my MP voted for, I would probably not vote for them again.

The bill actually never made it to a vote though. Ryan pulled the bill from the House floor in a pretty sensational move last Friday. This came a day after President Trump (I don't think I'm ever going to get used to that) vowed to abandon any support for health care reform if the bill didn't get a vote. Essentially Trump told the House Republicans "take it or leave it" with regards to his bill, and lost. President Trump has maintained on Twitter that the Democratic Party was responsible for the bill's failure in the house, despite the Republican Party having a massive majority in the house.

Ryan and Trump have put themselves in precarious positions here. I'm not really an expert in the field of politics, but I think that showing the people who you told that you were going to take care of that you actually just want to get rid of their health care might not be the best move. If the bill had gone through and become law, many of the counties which voted for Trump the most would have been the hardest hit by RyanCare. In an interview earlier this month Trump even stated that he knew this. Maybe not the best idea, but like I said I'm no expert.

So yeah, that does it for me as the EIC! I want to send huge shout-outs to all the staff who supported me along the way, both on and off stream. The Eng-Soc Execs were also incredible this term with getting their articles in on time and just generally with everything. As for the future, the decision has been made with respect to who's taking over in the fall but I haven't told the team yet, so I'm not going to announce that here! If you want to hit us up for any reason, please just send an email over to [iwarrior@uwaterloo.ca](mailto:iwarrior@uwaterloo.ca). Good luck on exams everyone and I hope that you all have a great summer term!

### THE IRON WARRIOR

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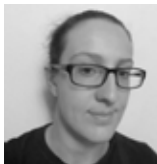
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# Who Will Take Over from Stephen Harper?

## The Candidates for the New Face of the Conservative Party



**CAITLIN MCLAREN**  
4B CHEMICAL

As you may have heard, the race for the Conservative party leadership position is on. Who will be Stephen Harper's replacement? Here's a brief overview of the candidates.

### Chris Alexander

Alexander is a former diplomat, who was Ambassador to Afghanistan in 2003. In 2011, he was elected as MP for Ajax-Pickering, and was Parliamentary Secretary to Minister of National Defence Peter Mackay. From 2013 to 2015, he was Canada's Minister of Citizenship and Immigration. During this time, he sponsored Bill C-24, the controversial bill which would have made it possible to strip Canadian citizenship from dual citizens convicted of treason, espionage, or terrorism.

### Maxime Bernier

Bernier is a four-time Member of Parliament for Beauce, Quebec. He has held several Cabinet positions, including Minister of Industry, Minister of Foreign Affairs, Minister of State for Small Business and Tourism, as well as Minister of State for Small Business and Tourism, and Agriculture. Currently, he is the Official Opposition Critic of the Minister of Innovation, Science, and Economic Development. You may remember him from a few years ago, when he accidentally left some government documents at his girlfriend's house (we've all been there). This was the incident that led to his resignation as Minister of Foreign Affairs. Aside from that little incident, he is generally considered to be a respected figure in the Conservative party, and describes himself as a moderate libertarian.

### Steven Blaney

Stephen Blaney is the MP for Lével-Bellechasse, Quebec. He has served as Minister of Public Safety and Emergency Preparedness, Minister of Veterans Affairs, and Minister responsible for La Francophonie. Before entering politics, Blaney was an engineer and a businessman. Blaney was also very much involved with Bill C-51, the controversial anti-terrorism act in 2015 that allowed information to be shared more easily between government agencies.

### Michael Chong

Michael Chong is MP for Wellington-Halton Hills, Ontario. Under Stephen Harper, he served as Minister of Intergovernmental Affairs, President of the Queen's Privy Council for Canada, and Minister of Sport. He resigned from Harper's Cabinet in order to protest a resolution recognizing Quebec as a "nation within Canada", which he opposed, stating that he believed that it promoted ethnic nationalism. Chong stands out among

Conservatives due to his focusing on climate change as his signature issue. He was also one of few Conservatives and the only leadership candidate to vote in favour of the recent Motion 103, condemning Islamophobia.

### Kellie Leitch

Kellie Leitch is MP for She previously served as Parliamentary Secretary to the Minister of Human Resources and Skills Development, Minister of Labour, and Minister for the Status of Women. Prior to politics, she was a professor and assistant dean of the Schulich School of Medicine and Dentistry at the University of Western Ontario, and was a pediatric surgeon. She is still an associate professor at the University of Toronto.

Leitch is a conservative hardliner who



Agencia Brasil via Wikipedia Commons

Forest Lawn in Alberta, as well as former Parliamentary Secretary to the Minister of Foreign Affairs and Parliamentary Secretary to the Minister of International Cooperation. In the current Conservative minority, he serves as International Development Critic. Unlike Leitch, his particular focus is on immigrant outreach.

### Kevin O'Leary

Kevin O'Leary is a businessman and television personality, probably best known for his appearances in reality shows Dragon's Den and Shark Tank. Due to his background, many have compared O'Leary to President Trump; and like Trump, he has also made vote-rigging allegations (After these allegations, 1,351 party memberships were indeed found to be fraudulent and removed). However,



Randstad Canada via Wikipedia Commons

### The Leading Candidates: Bernier and O'Leary

supports controversial ideas such as screening immigrants for "Canadian values". She has also expressed admiration for US President Donald Trump.

In February, her campaign manager Nick Kouvalis resigned after falsely claiming that Prime Minister Justin Trudeau was funding Hamas. He later stated that he did this to "make the left go nuts."

### Pierre Lemieux

Pierre Lemieux is the MP for Glengarry-Prescott-Russell in Ontario. In Parliament, he served as deputy party whip, as well as parliamentary secretary to the Ministers of Official Languages, Agriculture, and Veterans Affairs. Prior to politics, he spent 20 years in the Canadian Armed Forces, retiring as a Lieutenant-Colonel. He is also a mechanical engineer.

Lemieux is a strong social conservative, and is vocally against abortion, same-sex marriage, and transgender rights.

### Deepak Obhrai

Deepak Obhrai is MP for Calgary

although he agrees with Conservative economic policies, he does not express Trump's over-the-top xenophobic sentiments and describes his social policies as liberal. In fact, he supports gay and transgender rights, and even - oddly for a Conservative politician - the legalization of marijuana.

### Erin O'Toole

Eron O'Toole is MP for Durham, Ontario and former Minister of Veterans Affairs. Prior to Politics, he was an officer in the Royal Canadian Air Force, and a lawyer after his retirement from the armed forces. Until his leadership bid, he was Official Opposition Critic for Public Safety. He is a moderate with regards to the environment.

### Rick Peterson

Rick Peterson is a businessman and fundraiser for the Conservative Party, as well as a former candidate for the British Columbia Conservative Party.

Peterson advocates standard Conservative fare, such as eliminating corporate taxes, raising the GST, and enhanced security and

immigrant screening.

### Lisa Raitt

Lisa Raitt is MP for Milton, Ontario, previously for Halton, Ontario; prior to politics, she was a federal employee. Under Stephen Harper, Raitt served as Minister of Natural Resources. During this time, there were some issues with leaked documents and a released audiotape containing awkward comments about other MPs. Raitt later moved to the Ministry of Labour, and then became Minister of Transportation. Before her leadership bid, Raitt was Official Opposition Critic for Finance.

### Andrew Saxton

Andrew Saxton is the MP for North Vancouver, who served as parliamentary secretary to: the President of the Treasury Board, the Minister for Western Economic Diversification, and the Minister of Finance. Before politics, he was a businessman and financier; as such, he is running largely on economic issues.

### Andrew Scheer

Andrew Scheer was MP for Regina-Qu'Appelle, Saskatchewan, and was the youngest-ever Speaker of the House of Commons. Until his bid for the Conservative Party leadership, he was Opposition House Leader.

In 2014, Scheer was one of 13 Canadian officials banned from entering Russia as part of retaliatory sanctions, after Canada placed sanctions on Russia over the Crimea.

### Brad Trost

Brad Trost is MP for Saskatoon-University, previously for Saskatoon-Humboldt, Saskatchewan; before that, he was an exploration geophysicist and farmer.

Trost is a social conservative, who is outspoken against assisted suicide and abortion, same-sex marriage, and transgender rights.

### Conclusion

So, who is in the lead right now? O'Toole and Scheer are ahead in endorsements, but not with polling. The index used to gauge leadership standings is based on endorsements, contributors, fundraising and polls. At the time of writing, Bernier is in the lead with 20.1 points, followed by O'Leary with 18.5 points and Scheer with 13.3. O'Toole is in fourth place with 9.9 points, with Leitch in fifth with 9.5. Raitt has 6.5 points, and Chong has 5.6.

However, because all ridings are weighted equally and the leadership election uses a ranked-ballot system, it is difficult to predict the election with any certainty.

March the 28th was the last day to register for Conservative Party membership. The election day will be May 27th, and registered members of the Conservative Party are eligible to vote.



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# The Father of Rock and Roll

## Singer, Guitarist and Songwriter Chuck Berry Passes Away at Age 90



**BRYAN MAILLOUX**  
3A MECHATRONICS

What kind of music do you listen to? Are you a fan of alternative rock? Maybe you're a metalhead. Or you might be more into the classic rock groove. If it has to do with rock at all, then it owes a lot to one of the greats, Chuck Berry, who passed away this month at the age of 90. Berry is recognized as the person who most defined rock and roll, coalescing country and rhythm and blues styles into a music genre that would go on to influence 60's and 70's artists such as The Beatles and The Rolling Stones. These artists would, in turn, lay the groundwork for all the different types of rock we listen to today. And perhaps most of all, as a showman, he got people listening to his new style, opening the doors for the other greats of rock and roll, like Jerry Lee Lewis, Johnny Cash, and Elvis.

Probably one of the things that ties all the different subgenres of rock together is its popularity among teenagers and young adults. There are some aspects of rock throughout the ages that speaks to the younger generation of the time – you think of genres like classic rock, which was popular among folks who were teenagers in the 60's and 70's, and of punk rock, which was popular among 90's teens. These days, it's alternative and indie that are getting young people's attention. That seems to be a trend Chuck Berry started with rock and roll – his song lyrics have a lot to do with teenage life in the 50's, bringing up subjects like school,

teenage dance, pretty girls, and tearin' down the road in a car. The content of his songs was relatable enough that kids from all backgrounds – even rich white kids – started listening to his music. And so came about the birth of rock and roll. In a couple of years, everyone would be listening to this new genre, but it was Chuck Berry who is widely considered to be the father of rock and roll.

It wasn't just the lyrics of his successors that Chuck Berry influenced – some of his showmanship techniques were adopted by other musicians as well. He was famous for his “duck walk”, where he would, while playing his guitar, start walking and bending his knees lower and lower until he was walking like a duck. Over time the lead singer in most rock bands would be known for doing more and more garish – and sometimes crazy – things. Elvis, and later The Rolling Stones and Freddie Mercury, lead singer and pianist of the band Queen, were instantly recognizable by the flamboyant clothing they would wear on stage. And don't forget the time Jimi Hendrix set his guitar on fire at a concert!

Anyway, we've made a list of the top five Chuck Berry songs you should listen to that most represent Chuck Berry's style. Enjoy!

### 1. Johnny B. Goode (1958)

There's no way you haven't heard “Johnny B. Goode” at some point. If there was a single song that captures the essence of rock and roll's musical style, it's this one. It's been covered by pretty much every rock band in existence. Also, it's the only rock and roll song included on the Voyager Golden Record, making

Chuck Berry the original Rocket Man.

### 2. You Never Can Tell (1964)

This song about a teenage wedding reflects youth consumer culture in the 50's. Right off the bat, they get themselves an apartment and a whack of newfangled gadgets, like a “coolerator”, a record player, and a car. “You Never Can Tell” was the song Mia and Vincent danced to in Quentin Tarantino's film *Pulp Fiction*.

### 3. No Money Down (1955)

“No Money Down” is a song about trading in your crappy old car for a brand-new Cadillac with all the trimmings, and then joyriding down the road with it. Maybe this is where those kids zooming down University Ave at 2 am get their

inspiration from.

### 4. Roll Over Beethoven (1956)

This song, originally written and made famous by Chuck Berry, came back in the 60's when The Beatles covered it. Sorry Beethoven, kids those days were just more into rhythm and blues than classical. (A piano sonata isn't really something you can dance to.)

### 5. Maybellene (1955)

“Maybellene” was Chuck Berry's first big hit, reaching no. 5 on the Billboard pop chart and no. 1 on the R&B chart. Its “broken romance, but with cars” theme made it a huge hit with teens and young adults, selling a million copies by the end of 1955.



Universal Attractions via Wikipedia Commons

Rock 'n' Roll Legend Chuck Berry in 1957

# That Shouldn't Be Visible in Restricted Mode...

## YouTube's SafeSearch Filter Blocks Pro-LGBTQ Content, but Allows Hate Speech



**HASAN AHMED**  
1B NANOTECHNOLOGY

YouTube's SafeSearch filter is nothing new. It's always been a good idea to restrict some content, especially for young children starting to be exposed to the internet. It's fine to keep some controversial topics and such away from children due to potentially offensive language and themes. However, the company recently received backlash after LGBTQ+ content was also included in those restrictions. Although the videos were not age-sensitive, they were still being filtered out. Popular icons such as Tegan and Sara displayed their concerns on twitter, saying it was sad that this content had to be hidden from children. They need to know that this content is not x-rated, and is important for LGBTQ+ members to be represented properly, because otherwise they'll think it's not normal.

YouTuber Rowan Ellis brought this to attention with a video that showed restricted mode filtering out these videos. As of now, it has about 75 000 views, but the message has spread much further through social media, particularly on Twitter.

YouTube says 1.5 percent of their daily views come from restricted mode viewers. So although the restricted filter isn't used on a lot of videos in the large scale, this issue is still detrimental to all users of the filter. The hashtag #YouTubeIsOverParty

was trending on Twitter for a few days. It also highlighted an issue showing that although LGBTQ+ videos were being hidden, some anti-LGBTQ+ videos were still being shown, which YouTubers felt to be regressive to the movement, as well as homophobic. YouTube responded saying that they would try to fix any issues with the filter. As you probably can guess, it's automated, so not everything can be caught by the filter. However, with such a large number of videos being restricted, this response did not receive much grace from the community. The company, although openly pro-LGBT themselves, dug themselves into a deep

hole which they must fix immediately.

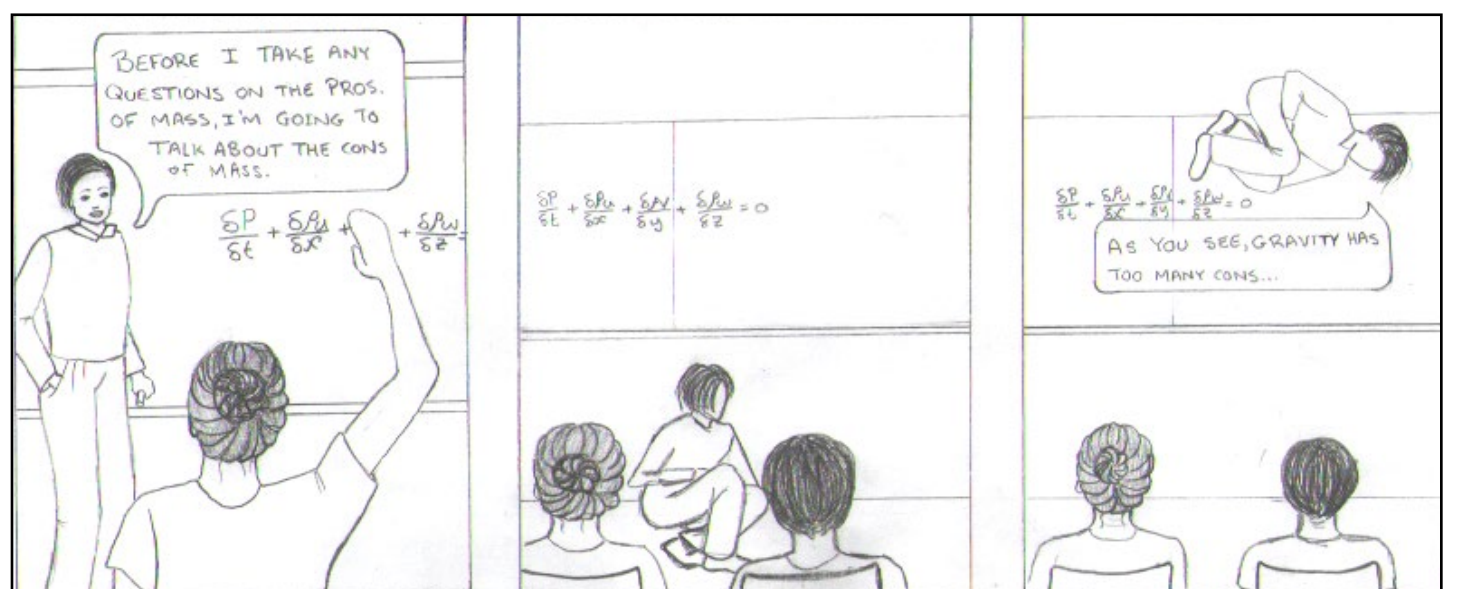
The filter doesn't just escape anti-LGBT content. I'm pretty sure we've all been on YouTube and watched/found things such as graphic violence from current news, or even horrific animal abuse videos, but somehow they escape the filter completely. Michael Rizzi, a video producer, has had a lot of his videos restricted. He was upset at Google's lack of communication with the users/public. Rizzi also made a video for the #ProudToBe campaign last year, another pro-LGBT hashtag. However, that video is also currently restricted.

YouTube ended up releasing a

statement on the issue via Twitter, which stated, “We are so proud to represent LGBTQ+ voices on our platform – they're a key part of what YouTube is all about. The intention of Restricted Mode is to filter out mature content for the tiny subset of us who want a more limited experience. LGBTQ+ videos are available in Restricted Mode, but videos that discuss more sensitive issues may not be. We regret any confusion this has caused and are looking into your concerns. We appreciate your feedback and passion for making YouTube such an inclusive, diverse, and vibrant community.”

# Cons of Mass

BRAIN PICKINGS FROM DONOVAN MAUDSLEY  
PENCIL ART BY LEAH KRISTUFEK



# Point Vs. Counterpoint

Which *Legend of Zelda* game was the best: *The Wind Waker*, or *Majora's Mask*?

POINT

COUNTERPOINT

**DONOVAN MAUDSLEY**  
3B MECHANICAL

I'd never really heard of *The Legend of Zelda* before my ninth birthday, when a good friend of mine got me *The Wind Waker* for my birthday. I didn't really get it. I wasn't really any good at video games until I was in high school. I never really grasped the whole stealth concept, and so I never got past the first visit to the forsaken fortress. Plus, even today I suck at platforming, so the whole swinging from lanterns at the start always stumped me. I think it took me six years to finally beat *The Wind Waker* (*Twilight Princess* was much less of an ordeal). I don't think fifteen year old Donovan knew the definition of cathartic, but it totally was.

But what makes *The Wind Waker* so great? Literally everything.

There was a little bit of backlash when the cartoony style of *The Wind Waker* was revealed. Players had loved the previous console *Zelda* game, *Majora's Mask*, which presented a bleaker, more realistic game experience. The general consensus among gamers was that Nintendo was going to continue down this path for their GameCube *Zelda* entry, but instead went the opposite direction. I'm glad they did.

Visually, *The Wind Waker* is amazing. The cel shaded graphics of the original version hold up to the present day, not even considering the HD remake from 2013. Cel shading is the graphic style that most resembles classic Saturday morning cartoons, and *The Wind Waker's* graphics make it feel almost like a playable cartoon. As an avid fan of cartoons during my younger years, I thought that this was great. Even the colours are amazing (especially the blue of the Great Sea during the day). Hardliners for a more realistic *Zelda* game got their prayers answered with *Twilight Princess*, which has always been a little disappointing to me. The visuals dated themselves more quickly, and the storyline felt a little too formulaic.

The cel shading style also helped Link (and the other characters in the game) emote much better. Link always spends the majority of conversations listening, but his facial reactions in *The Wind Waker* allow the animators and storytellers to actually give him a personality.

Moving away from the sleek, polished graphics, I want to talk about the other major shift from the N64 *Zelda* games: the setting. *The Wind Waker* is set on islands in the Great Sea rather than the typical setting of Hyrule. Instead of riding across rolling fields and through thick forests on horseback, Link has to hop from island to island on his boat. Yeah, you read that correctly, his boat. And if just having a boat isn't cool enough for you, the boat actually talks, and is one of your closest allies. How awesome is that?

Each *Zelda* game also has its own little gimmick. *The Ocarina of Time* started this trend with its namesake Ocarina. *Majora's Mask* featured a heavy

emphasis on acquiring and using masks to advance through the game. *The Wind Waker*, though, is the only game in my eyes where the gimmick isn't too gimmicky. The Wind Waker primarily grants Link the ability to control the wind on the Great Sea, which is a pretty sweet asset for a sailor. The elegantly crafted conductor's baton can also be used to conduct other musicians in the world to advance through the game. The only time in the game that the Wind Waker feels like a burden is the quest for the Triforce Shards, when Link is just sailing all over the place. The animation of the changing wind gets old pretty quickly at this point.

*The Wind Waker* is also an amazing game for its level of accessibility, which I've already touched on lightly. It was obviously meant to be a lead in game for the series, targeting a younger audience that *Majora's Mask* may alienate with its darker tone. *The Wind Waker* features a younger version of Link than most other games and he doesn't set off for some grand adventure at the start of the series, he's just trying to rescue his kidnapped sister. Most people can relate to this in some way, having someone that you care about and wanting to protect. Eventually Link realizes he has to save the day (classic Link, am I right?) and by that point the player is either invested enough in the story to keep playing or has already given up.

For all of its childish charm, though, the overarching story of *The Wind Waker* is a tragic one. I'm sure that we all know the massive storyline that is the History of Hyrule, but I'm going to quickly summarize the events that lead to the game. *The Ocarina of Time* is a quintessential time travel story, so there are multiple timelines and everything's a little messy. The Adult Timeline is the one that *The Wind Waker* takes place in. After defeating Ganondorf in the *Ocarina of Time*, the Hero of Time (Link) disappears and is never heard from again. Unfortunately Ganon rises again, and takes control of Hyrule. The people appealed to their Goddesses, who froze time around most of Hyrule and flooded the lands (don't worry, most of the people were in this cool time bubble and were okay). Some people moved up onto the tops of mountains, which became the islands of the Great Sea.

Ganondorf had to settle for just waiting around; the majority of his magic was sealed away under the sea. Millennia, later Toon Link shows up and the events of *The Wind Waker* go down. Once Link reunites the Triforce though, things get real. The King of Hyrule (who is also coincidentally Link's boat) decides that enough is enough, and that Hyrule had its chance. He uses the power of the Triforce to flood the lands and defeat Ganon once and for all, and then urges Link and Zelda to find a new land; not to be a new Hyrule but a new great kingdom.

Many games have a moral, but this one is so poignant and well delivered that it gets me every time. Live for the future, not the past.

**MEAGAN CARDNO**  
4B NANOTECHNOLOGY

Perhaps I am in the minority when I say this, but *The Legend of Zelda* franchise has always been the face and heart of Nintendo games for me, far ahead of Mario Brothers-related games. *Zelda* just always offered so much more character and life than the platforming I saw in Mario, and for that reason it became a cult classic of our generation. And of course, as with all series, the hottest topics of discussion are usually pertaining to "which is the best". With the newest entry in the series, *Breath of the Wild*, many people are rushing to hail it as Game of the Year – and possibly the best game ever made. However, with neither myself nor Donovan having that game, we won't be talking about that particular title. Instead, we will be focusing on two earlier entries.

My choice for defending *Majora's Mask* is also somewhat of an odd choice for any of you who know me, as I have been (and always will be) a big lover of the old 2D, top-down *Zelda* games from the ages between the original NES and the last entry — *A Link Between Worlds* — on the Nintendo 3DS. This comes largely from my fan of the dungeon and overworld mechanics that come from these games – in particular, what I consider to be true "puzzles" (i.e. figuring out what specific events of moving blocks, switching switches, or other deliberate choices are needed to make a specific outcome take place). For this reason, the 2D *Zelda* titles have always offered me more of a challenge than the 3D entries, at least in terms of dungeons.

However, it seems almost like an apples-to-oranges comparison in my books to try to compare entries like *Oracle of Ages* to *Twilight Princess*, since the great aspects of the two games don't line up. Instead, I'll talk about a game I completed only a few weeks ago, in its 3DS remake since I was a sad child and never had an N64. It is my boyfriend's personal favourite *Zelda* title, and perhaps one of his favourite games of all time – and after playing it, I can see why.

Many people give the title of "Best *Zelda*" to *Ocarina of Time*, the predecessor to *Majora's Mask*, for how revolutionary it was for gaming at the time. However, the changes and gameplay of *Majora's Mask* I think would be considered revolutionary even if they were released today. It breaks away from so many of the staple "Zeldisms" in a way that is both utterly refreshing and rather unsettling for veterans of the series.

For those unaware, the game revolves around the premise of an imp known only as "Skull Kid" being possessed by the titular *Majora's Mask*, bringing about the end of the world in a mere three days by crashing down the Moon right atop the poor little Clocktown. In order to save the world, however, you are going to need more than just three days, and so with your magical wind instrument you end up constantly turning back the

clocks and repeating the same three days again and again and again until you have all of the tools and allies you need to put the moon back where it belongs.

While this premise could have been executed horribly, instead the game prioritizes this entire mechanic by packing those three days full of content – and I mean PACKED. With each time you complete the three days, you learn something new about the events of the world and the inhabitants that live in it. It becomes a little bit like a solving a murder-mystery, finding clues about earlier events in later days, which can be used to completely change the course of events the next time you travel back in time. Yes, time paradoxes not withstanding. Who needs 'em.

This comes in part with the game having a bit of an odd design compared to other *Zelda* games – I've heard that the original working title of the game was something along the lines of "The Legend of *Zelda: Sidequest*", showcasing the emphasis that the game developers wanted to create a world deep with exploration, in lieu of a traditional linear adventure that starts and ends with the main plot. By *Zelda* standards its game is very short, plot-wise, with only four dungeons to complete before going to face the big baddie and saving the world (in comparison to the typical six to nine dungeons of other entries).

The shift in priority from main plot to side questing isn't the only huge shift that separates *Majora's Mask* from other entries in the *Zelda* series. Perhaps the most famous difference was the game's incredibly dark nature, featuring some of the most creepy events and characters in the franchise. This is, again, linked to the game's premise of an approaching apocalypse, mirrored in the change in mood across the three days – villagers inside of Clocktown go from happily preparing for an upcoming festival to eventually abandoning the city altogether in a mass panic of their upcoming doom. Death is also a frequent visitor, and not in the "disappear offscreen so maybe I survived" variety either. Characters dying in the game actually is the root of *Majora's Mask's* second key mechanic, the masks. Which, by the way, is pretty cool that a game has two unique key mechanics. Most other *Zelda* entries only have one.

The majority of the masks you attain in-game (twenty-four in total) come via side quests, and all have unique uses which tend to be quite fun. This makes up for the lack of unique items you are used to getting in dungeons, as you essentially have four versions of Link to play as (default, Deku, Goron, Zora) with even MORE tools at your disposal when using non-transformation masks. That's an unprecedented amount of flexibility in-game with your tools.

I could talk for ages about some of the more deeper themes in *Majora's Mask* implied throughout the game's events – like the constant references to childhood vs adulthood — but that would take much longer than the word count I have left in this little PCP. Suffice it to say that is has potentially the most artistic depth of any of the *Zelda* games that I have played. It's bar-none one of the most phenomenal *Zelda* games of all time, and in my humble opinion outshines not only its predecessor, but will stand the test of time as one of the most dramatic and revolutionary titles in the series.

## Editor's Note:

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

# Steven Forsey

## Our Second Interview with the Nanotechnology Professor



**HASAN AHMED**  
1B NANOTECHNOLOGY

PROF PERSONALITIES

Since it's the last issue of *The Iron Warrior* of the term, I decided to interview one of the nanotechnology engineering profs I had this term. Dr. Steven Forsey is a chemistry lecturer and I had an opportunity to ask him about his history at UW.

### How long have you been teaching at Waterloo?

1985. 32 years.

### What courses do you teach?

NE122 (Organic Chemistry), and chem eng courses CHEM262, CHEM266, and CHEM363. I also teach other courses that rotate, but these are the usual.

### Favourite course to teach?

I don't have a favourite, because I like teaching everybody. However, I do prefer smaller classes, since they're more dynamic. It's hard to get a conversational tone in a larger class. One of my chemical engineering classes only has 61 students, so that's heaven. In larger classes, you'd have to go to the back to engage everybody, but your focus is usually the front of the class anyway, so not everybody is always involved.

### How'd you end up as professor?

Long story. I started as the first year chem lab instructor, after I got my masters in synthetic organic chemistry. I was also doing my PhD in hydrogeology, looking at groundwater contamination. At the same time, I had a family with 2 kids, so I worked a lot. Christmas, weekends, you name it, but I got my PhD done. Also, I was lecturing organic chemistry at the same time on

top of working on my PhD. A lecturing slot came open as I was graduating. I thought I was going to go into consulting at the time, but because lecturing was open, I applied, and then got lucky to get it. Since 2004, I've been an official continuing lecturer.

### Favourite part of being a professor?

Teaching is fun. That's what I'm hired to do after all. Wouldn't be fun otherwise. I gained the passion through being a lab instructor, because we have more contact with students than anyone else. When I became faculty, I began supervising the current lab instructors. I know what they do and I hired them too. You get good labs if you hire good people.

### Hardest part?

I wouldn't say this is hard, but I mark everything, so sitting and marking can get a bit tedious. Especially near finals - 8 hours a day for a whole week.

### Teaching philosophy?

That's a funny one, because I don't really stick to one. I just care. I care that students learn chemistry. I know some people are super fancy with their philosophies, but I just care, and I hope students understand some of the fundamental concepts of chemistry. But I also try to play with TopHat, in-class questions, discussion/debate, etc. Engagement is the main thing I'm after. If a student is engaged, they learn. If they can communicate, they learn best. That's why we do so much in class. At least you're thinking about it, and by participating, you're good. And of course, I provide a lot of resources. Most learning is done outside of class, for all courses. You only remember 5% of what you learn in class. That's why I have office hours every day, so students are welcome to drop in.

### If you weren't a professor, what would you be doing?

I don't know what I'd be doing, honestly. I've always worked hard, and whatever door opened, I walked through it. I like doing everything. Artwork, biking, whatever. I enjoy many different things, so it doesn't matter what it is, but if you learn something deeply, and you become passionate, it becomes interesting and fun. One of the nicest things about being a prof is that you don't really have a boss. The freedom it entails allows you to do things and be creative. Science is very creative, just like being an artist. I never knew what I wanted to be, but you shouldn't know what you want to do. Of course an area/subject is fine, but what you finally do depends on what doors are open. So if you're working hard and you're a likable person, you just find jobs. Since 16, I've never not had a job, so yeah, you just work hard and go through open doors.

### So interviews are upcoming. Do you have any tips for 1B students?

Always be positive. Never say anything negative. Even if you're asked a negative question. For example, if your job was in a cold, remote location, why would you want to move? If someone asks that, say, "That's true, but I'm looking for an opportunity to experience blah blah blah". Make everything a positive. You will be working in a team. So you don't just need skills to get hired, because people are also hiring someone they can work with. If that person has a 90 average and a negative attitude, they're not going to get the job. I've interviewed people, and subconsciously you'll keep those negative comments. So again, be positive. Positive people work through difficult things.

### 3 tips for undergrads?

Work hard. To be successful, you have to do this. Even if you don't like a course or

whatever, it doesn't matter. You still need to work hard. Part of growing up is doing things you don't like.

Play hard. You must do something you like at least once a week, no matter how busy you are. Give yourself something to look forward to so you can play hard. But balance your play with your marks, of course.

Make good friends.

### Fav memory of undergrad?

Probably friendships. Just overall. Undergrad is hard, lots of work, but grad school is fantastic. I also worked as a research assistant for profs in summer. I got to work in labs. Since I was always mechanically minded (I would build furniture, boats, etc.), working in that lab gave me the same feeling. I miss those days, where I would work with my father-in-law in his garage just building stuff.

### Anything else?

Try to enjoy life. There's a whole bunch of clichés I could say, but seriously, enjoy life. I'm a bit of a workaholic, but I play guitar every Friday in a band, so just do things you enjoy while you're working hard.

Now that I think about it, I think I have a teaching philosophy. Learn from your mistakes. Failure/doing poorly is a chance for you to learn and do better, and not to give up and run away. That attitude of failure has always been there, but for this generation, transitioning from high school to university, with those grade drops, some students just give up. That's why I say midterms are for learning. Don't take those mistakes personally. That's probably my biggest thing to go on, and that's what makes people successful; they fail before they succeed. Don't take it personally if something negative is told to you. Take it as positive, critical feedback, and work with it to be successful.

## Debt Load Survey

### 1: Term Total

Total Responses: 343  
Number of surveys sent: 3920  
Response %: 9%

### 2: Does your family support you financially? (316 responses)

Yes: 64%  
No: 36%

### 3: Average Cost of Living for a 4 month School Term (297 responses)

\$12,695

### 4: Average Cost of Living for a 4 month Work Term (256 responses)

\$5,607

### 5: Have you applied for local aid or other bursaries to pay for school? (253 responses)

Yes: 50%  
No: 40%  
Not Yet: 9%

### 6: Have you applied for OSAP? (253 responses)

Yes & Received: 51%  
Yes & Denied: 12%  
No: 36%

### 7: Do you have a loan for academic purposes? (255 responses)

Yes: 47%  
No: 42%  
Not Yet: 10%

### 7a: How much is the student loan? (144 responses)

\$1-999: 4%  
\$1000-1999: 3%  
\$2000-4999: 6%  
\$5000-9999: 15%  
\$10000-19999: 23%  
\$20000+: 49%

### 8: Have the differential tuition increases

### caused you hardship? (259 responses)

Yes: 61%  
No: 20%  
Not Yet: 20%

### 9: How much debt do you expect to be in by graduation? (253 responses)

No Debt: 25%  
<\$4999: 6%  
\$5000-9999: 11%  
\$10000-19999: 12%  
\$20000-39999: 26%

\$40000+: 21%

### 10: Do you live at home while at school? (257 responses)

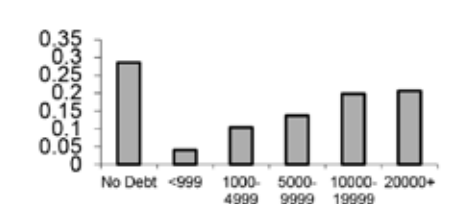
Usually: 9%  
Used to: 2%  
No: 90%

### 11: Have you lived at home while on work terms? (246 responses)

Always: 7%  
Sometimes: 55%  
Never: 38%

### 12: Average of the weekly salary while on work term (180 responses)

\$767



Amount of Debt after Graduation

KITCHENER WATERLOO



**TRAVEL**  
Clinic

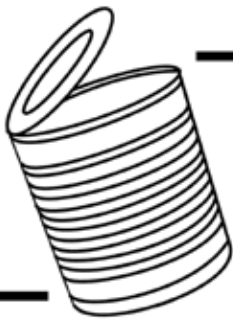
Travel Vaccines  
& Advice  
by Appointment

Health Canada Certified for Yellow Fever

519.570.4208

www.kwtravelclinic.ca

Physicians Certified in Travel Medicine



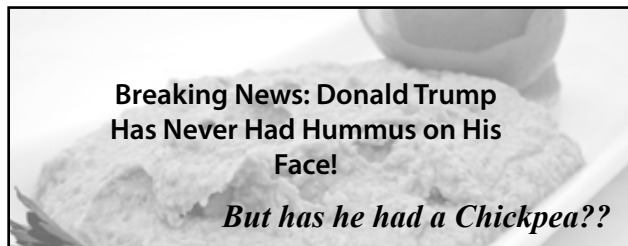
HOMER? YOU MEAN THE GUY WHO WROTE THE ODYSSEY?

MIGRANT KRISIS IN KANADIAN KITY



Gay Wights Spotted North of  
the Wall

*They're here to "defeat" Renly*



Breaking News: Donald Trump  
Has Never Had Hummus on His  
Face!

*But has he had a Chickpea??*



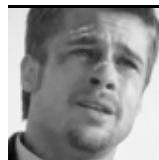
Pig DNA Successfully Spliced  
With Human DNA

*You want Orcs? That's how you get Orcs!*

Hillary uses Snapchat, because the messages delete themselves

Students vote for Jobmine reform

## WHAT'S IN THE FILING CABINET?????



**BRAD PITT**  
SE7ENA ASKING WHAT'S  
IN THINGS

There's this infamous file cabinet in the Iron Warrior office that's been locked for centuries. No one knows where the key is, and standard methods of cleaving the lock don't work. We've tried crowbars, shafts, as well as bare hands, but we've still yet to uncover the contents. So it got me thinking, what's actually inside this cabinet? I know there could be obvious things like paperwork and old files, but here's a few theories I can present:

### Government secrets

With the increasing popularity of the Iron Warrior, it's only natural that the government could be on our case. They monitor everything, but hopefully, they were on our side and wanted to work with

us. Thus, they gave us super sensitive information. Nuclear launch codes, winning lottery ticket numbers, and of course, the winners of the next Super Bowl. All these are pre-determined by the government anyway, and if we could just get the stupid lock undone, we'd have enough funding for any new engineering buildings. We could build En buildings, where n is the set of integers ranging from  $[n, \text{inf})$ . Therefore, that means more study spaces and less people in the QNC taking my spot >:(

### Cooking recipes and equipment

Editor-in-Chiefs usually spend long nights editing the Iron Warrior for you guys to see (love you Donovan), and normally, having snacks isn't the best, healthy option. So, back in the day, before the key was lost, there was a little hot plate stolen from the chemistry lab, pots, pans, and other cooking materials. Legend has it that the first ever group of Iron Warrior

journalists sat in the office at the big table and re-enacted the last supper with food they cooked using that hot plate.

### Post zombie apocalypse rations

The room is lockable, and we have a fridge, computer, and even a gamecube, so it makes sense to be a good hideout. Not only that, but zombies wouldn't go to E2. They're actually looking for brains.

### Teleportation portal across campus

Leads to another file cabinet. I mean, walking across campus is tedious, especially for me since I live at UWP. If there's a teleporter on campus, I'd want to use it to, for example, transport myself to MC. The best thing is that this doesn't have to be just one file cabinet. There could be this whole inter-file cabinet system that transports people between buildings. I really hope this is the case, so I can bypass all the winter walking

months and just live in the Iron Warrior office.

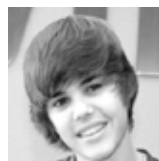
### Something horrific, which we may never know.

My last theory suggests the key was destroyed. I imagine something like the very opening scene of Stranger Things. There lies something in that file cabinet which we may never know. Perhaps the former student wanted to keep us from accessing whatever horror lies in there. I can picture it: them running out, sweat on their face, and destroying the key. However, curiosity inspires people to move forward, and so I will now be dedicating my undergrad to finding out how to open this file cabinet. That's why next term I'm starting a column to record my research. Please fund my research by donating to my Patreon.

So how do we get it open? Well, we're UW Engineers, we'll figure that out...if the due date was tomorrow.



## Black MIDI History Month



**MINNIE DIDDIE**  
3A MUSIC

As some of you may know, Black MIDI History Month is coming up. For those of you who don't quite get it, we at the Tin Soldier are here to help!

### What is Black MIDI History Month?

Black MIDI History Month is when we as a community take some time out of each day to appreciate the many contributions Black MIDI has brought to our civilization. We often overlook the effects of Black MIDI in our history due to the all the Rock propaganda that has been published over the years, especially after World War 2.

**Ummm, why isn't there a Rock History Month? Is this equality, or Black MIDI supremacy?**

Look, every month is Rock History Month already. Every waking hour, the history of Rock is plastered on our playlists and blasted through our earbuds. We all know about the feats of Hendrix, Elvis and The Beatles. What we're trying to do here is shine a light on the often ignored contributions of Black MIDI on our cultural landscape.

### Isn't the correct term "Black Key MIDI"?

No, this is a very uncommon misconception, but just in case you were going to bring this up, I'll settle this. The reason this genre is called "Black MIDI" is not because of the use of black keys, but because if a black MIDI composition were written out as sheet music, the sheet would be pretty much entirely black. Humans cannot play these on a real life piano, it would be physically impossible.

**If you got infinite monkeys, gave each of them a piano, and waited an infinite amount of**

### time, could they play a Black MIDI piece?

That is very insensitive to Black MIDI composers (aka "Blackers"). Please don't go around asking this.

But if you really must know, problems would arise due to the speed of sound and heat death of the universe.

### Was Conlon Nancarrow's work Black MIDI?

This is a complex issue and neither this article nor the Black MIDI aficionados in your life should be expected to answer this. Really, nobody owes you an explanation. It is your job to educate yourself on such matters. I'd recommend that you read The Guide To Black MIDI for a proper analysis.

### Has Black MIDI had any impact on the progress of science and technology?

Black MIDI has always been pushing the limits of computing resources and audio applications. Some would have

you believe that the recent massive gains in GPU power were due to the demands of gamers. What those in power don't want to tell you is that the contribution of Black MIDI demand in this area. Displaying all the fast moving keys of a Black MIDI piece taxes the GPU, and that's before even considering the actual music. You need to understand that while Black MIDI is involved in the efforts of Silicon Valley today, the Silicon Industrial Complex has always had a very Rock supremacist agenda.

### It's kind of strange how closely Black MIDI is associated with Touhou Project...

That is not true, nor is it a question.

### Why April?

April starts with a "Fool's Day", where we as a community can humble ourselves. It is a good reminder of the fact that so much of what we think we know is in fact simplified, distorted or totally false.

# An Unhealthy Obsession with *The Iron Giant*

## Courtesy of your exec team



**ENGSOC EXEC**  
3A IRONING

Hi Everyone!

Exec here. We love writing for the Iron Warrior. We really do. These past 2 weeks have been a time. Melissa, Chelsea, and Rachel are all in 3A chem right now, they wouldn't recommend it to a friend. Andrew doesn't sleep anymore, and Katie has been organizing what is sure to be a banging EOT.

For this very special issue of the Iron Warrior we have decide to present you with something else Iron (not your Iron Ring, we aren't allowed to give those out)... THE SCRIPT OF THE IRON GIANT. Classic. Please enjoy and stop by the orifice to say hi, like the Waterloo Engineering Society on Facebook, Come to Council Meetings or email executive.b@engsoc.uwaterloo.ca for more serious information if you so desire.

Without further ado:

**DEEP SPACE**

Stars blaze against the blackness of deep space. One star begins to move, coming closer, moving toward...

EARTH, in space: blue seas, fleecy white clouds. BEEP-BEEP-BEEP: a retro-satellite, Sputnik, tumbles past.

Below, near New England, black storm clouds swirl in silence. Flashes, LIGHTNING FLICKERS.

**A SHIP ON A STORM-TOSSED SEA**  
- NIGHT

The wind HOWLS, the storm RAGES in the chill waters off the rocky coast of Maine. Giant waves tower overhead, then CRASH over the decks of a fishing ship where desperate FISHERMEN fight to stay alive. The CAPTAIN YELLS orders no one can hear in the deafening ROAR.

The FIRST MATE yells into the radio, their only hope:

FIRST MATE: Mayday! Mayday! This is fishing ship "Annabelle"! We're floundering and taking on water! Mayday! Mayday!

An enormous WAVE smashes against the bow of the ship, throwing everyone in the cabin off balance. A glass shatters.

The Captain enters, the two lock eyes: it looks bad.

CAPTAIN: What's our position?

SAILOR #1: (grim) I don't know.

CAPTAIN: If you don't know where we are then you don't know where we're going!! You could be running us right into the rocks!!

Then: a VOICE breaks through the static on the radio.

RADIO: Coast Guard Portland Station to Annabelle: Do you read me?

As the mate starts to answer, lightning STRIKES the huge mast. It CRASHES through the pilothouse window, SMASHING the radio. Glass, radio parts FLY.

The Captain's shoulders slump: now they're done for.

**ON THE DECK - NIGHT**

The Captain comes out on deck: his men stare at him, eyes full of fear, desperation. Then, impossibly... the WINDS TRAIL OFF. In seconds, the sea flattens into a sheet of glass. All is DEAD CALM. It's eerie. Ropes CREAK. The men ERUPT in celebration, CHEERING, hugging each other: it's over! The angry Captain YELLS:

CAPTAIN: It's not over, you idiots! It's just the eye of the storm!

The men look around: far off on the horizon, the raging storm still surrounds the ship... but overhead, stars appear. It's eerie, strange.

FISHERMAN: Look!

Overhead, a new, brilliant star appears... and it's quickly growing larger. The blazing light speeds toward the startled sailors, impossibly fast, intensely bright, blinding, all goes white...

KAWHOOSH! The light CRASHES into the sea. Water flies, the sea BOILS, CHURNING, ROARING, the water green-lit from below. Great clouds of steam BILLOW and HISS.

Then, without warning, the raging storm ROARS back with a vengeance, a huge wave SLAMS into the ship. Again the fishermen fight for their lives.

But then a dim light appears, far off in the rain: a barely visible beam sweeps back and forth in the storm.

CAPTAIN: The lighthouse! Head for it!

The desperate men struggle to steer their limping ship toward the light. Then, CLANG! The ship shudders, stops instantly: the ship has SLAMMED into... a wall! A solid wall, a wall made of... iron?

The sailors freeze, speechless: they look up the wall, up, up... flashes of lightning illuminate: a face! Twin beams of light comes from what look to be... eyes, in an enormous face. A giant?! Made of metal!

THUNDER BOOMS. The impossible face seems to turn downward... and looks at the men. The men quake.

A HUGE WAVE CRASHES over the ship and throws the men overboard, into the sea. The ship begins sinking fast.

**IN THE WATER, NEAR THE CLIFFS**

- NIGHT

Men surface, cling to ship debris. Two men in a lifeboat pull their comrades from the chill waters.

A wave WASHES over rocks, leaves behind a limp fisherman, clinging to the rocks. Barely alive, whipped by wind and rain, he sees lightning-brief glimpses of the giant thing as it moves off in the HOWLING storm and disappears.

The VIEW MOVES up, up the rocky cliff to the lighthouse perched atop the cliff. The brilliant beam tries in vain to penetrate the RAGING storm...

**EXT. HOGARTH'S HOUSE - THAT NIGHT - ESTABLISHING**

We push through the storm towards an upstairs window, and into...

**INT. HOGARTH'S HOUSE - CONTINUOUS**

A flashlight beam illustrates the STORM SMASHING against a window.

A WIDE-EYED NINE-YEAR-OLD BOY, HOGARTH, GRIPS THE FLASHLIGHT.

AS THE STORM RAGES, HOGARTH EXPLORES HIS ROOM BY FLASHLIGHT. THE MOVING BEAM GIVES LIFE TO THE ROOM FULL OF TOYS AND MEMORABILIA, THE WINDS HOWL GROWS LOUDER. GLASS SHATTERS and a cold wind whips into the room.

VOICE: (O.S.) Hogarth...?!!

The door flies open and Hogarth's mother ANNIE is there. Late twenties, attractive.

ANNIE: Are you alright, honey?

HOGARTH: Yeah, Mom, I'm okay...

Annie turns to the shattered window pane, then pushes Hogarth's bookshelf

in front of it to block the wind. Hogarth stares at his mother. She looks spooked.

HOGARTH: ... are you?

ANNIE: I hate when the power goes out. But... yes, I'm fine.

Outside, the wind howls.

HOGARTH: Wanna stay up with me for a while? (coaxing) I could tell you a story...

Annie smiles, touched.

ANNIE: A story, huh? What have you got for me this time?

HOGARTH: Well, it's a story about...

Hogarth scans the toys and souvenirs on his bedside table. With a sudden flash of inspiration, he grabs a baseball card.

HOGARTH: Mickey Mantle. He had a magic bat, Mom. Everybody says so.

As Annie watches Hogarth with motherly adoration, Hogarth picks up a plastic dinosaur.

HOGARTH: Anyway, this is the story of Mickey's adventures with the stegosaurus. It's got action and romance. And the best part is, it's all true.

Annie laughs and touches a fingertip on Hogarth's forehead.

ANNIE: You've got a lot going on in there, don't you, Hogarth? (wistfully) Just like your father...

For a moment Hogarth beams. He looks over at a framed photo that sits on his nightstand, that shows a handsome man dressed in an army uniform. And as he stares at the photo, a sad, pensive look comes over Hogarth's face. Annie sees it.

HOGARTH: I can't wait 'til he comes back.

ANNIE: (gently) We've been through this before, honey...

HOGARTH: They found his plane, mom. They didn't find him. He's gonna come back. Annie sees the resolute look in her son's eyes and decides to change tack.

ANNIE: So what could he do with that magic bat of his?

HOGARTH: (lost in thought) Huh?

ANNIE: Mickey Mantle. Could he cast spells with it, like a magician?

HOGARTH: Oh... (brightening) Yeah. Yeah that's exactly what he could do. And that's why he was known as the Wizard of Sherwood Forest.

ANNIE: (amused) Sherwood Forest, huh?

HOGARTH: Right. And then one day, this Stegosaurus shows up. And he says-- (deep voice) "Who thinks he is mightier than me, the mighty thunder lizard?"

ANNIE And this is all true, now?

HOGARTH: Every word, Mom -- I wouldn't make this up. So Mickey says, "I'm the two time American League batting champ. I was MVP of the All-Star game three times running. I go anywhere I please in this forest..."

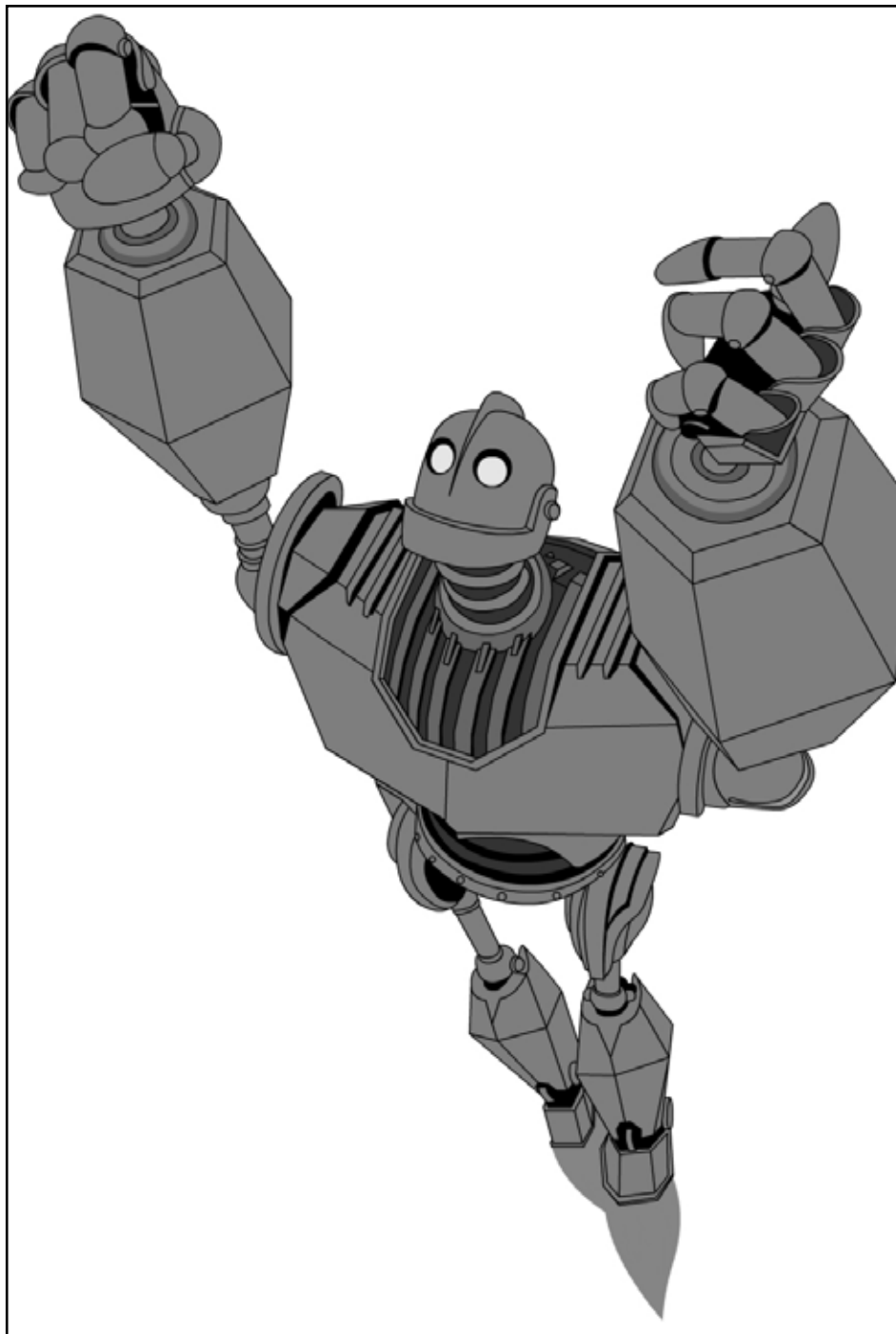
We DRIFT BACK from mother and son, hunkered down in a pool of warm flashlight, surrounded by darkness...

**EXT. ROCKWELL - THE NEXT MORNING**

The sun has risen on a beautiful Maine morning. The camera starts HIGH in a tall tree, where a bird is repairing its storm-damaged nest, and pans down from this literal bird's-eye view to the streets of Rockwell, where stoic New Englanders are doing repairs of their own.

Down the middle of the street comes Hogarth, on a bike. In the wire bike-basket in front of him is a shoebox with holes punched in the lid.

A couple of LOCALS are clearing a felled tree. We hear their conversation as they drift across the screen in Hogarth's travelling POV.





# People outraged over Hamilton coming to Toronto



**MC HAMMER**  
2U CAN'T TOUCH THIS

Yes, you read that correctly. Earlier this week it was announced that Hamilton will be coming to Toronto and people are losing their shi.... shirts?

For a long time now, Toronto has been slowly enveloping the surrounding cities and townships and bringing them under the umbrella of "Greater Toronto

Area", but Toronto's time about to come to an end. "We're all sick of this Toronto thing, no one likes them anyway," said Mississauga resident Brent Holmwood at a recent Enough With Toronto Rally. Ellis James of Brampton added "More like Greater Than Toronto Area".

In recent years, people have started to dislike the fame Toronto has been receiving, especially following Drake's continued success and the Raptor's turning into a decent NBA team and they've had enough of

Toronto's smugness. A joint effort has been raised to find a new city to get behind, and Hamilton with its world-class university and affordable housing prices, has come out on top as the city to beat now.

After an official online vote by residents of the GTA and surrounding cities, it was decided that Hamilton would be taking over Toronto and all the neighbouring suburbs would be relabeled Hamilton's Additional Districts or HAD for short. An official statement by Hamilton's mayor Fred

Eisenburg was released last night saying "We are all thrilled by the news that Hamilton has won this competitive bid to replace Toronto. Watch out Torontonians, Hamilton is coming for you".

The people of Toronto have proven to be very offended by this back-stabbery "It's utter nonsense, Hamilton will not come to Toronto under my watch", Mayor John Tory was quoted as saying. Will the apathetic hipsters raise a hand to stop Hamilton destroying their aesthetic? TBD

## MPsplanations



**A-A-RON**  
1A JOKING

Earlier this year, Monsef criticized the work of the all-party parliamentary committee exploring options for democratic reforms for recommending the Gallagher Index. "Would Canadians like to take the square root of the sum of the squares of the difference between the percentage of the seats for each party and the percentage of the votes cast?" she is quoted as asking. After apologizing Monsef is now ready to explain the Gallagher Index to Canadians.

"Let's start with the 1/2," Monsef starts off with a tone of a bored adult reading a Dr. Seuss book (whose first name starts with mel and ends with ania). "Why the half? Canadians don't like fractions. Fractions are hard. We like decimals. So let's change that to a 0.5."

"Next topic: the big E. Why is there a big E in a math formula. Wait a minute...I saw that once at a frat house. What did they call it? Sigma Chi. Anyways the big E is a very complicated math symbol. It involves adding things and other fancy math work. I think. That's just what my aide told me."

"Onto the n and i=1. Those typically always appear there, but no real mathematician every bothers writing them in, so we'll just skip over those. Now we have

a subtraction operation between v and s. That's not too bad. Subtraction is always fun. Here's an example: 4-2 is 2. So much fun. But then there's that awful square. I mean who even squares things nowadays? Squares are like really hard. Does anyone want to see a picture of a square? Well here's one," \*holds up a toddler's building block\*. "See that's a fun square."

"But what even are v and s anyways? Like why not use J and T, for our prime minister Justin Trudeau. He's great. Isn't he great? Finally the square root. What even is a square root. Like sweet potatoes grown in a square shape? Those could be tasty. Imagine them with marshmallow fluff on top."

"I think that about covers it. But let's ask Android Siri just to be sure. Android Siri, what's a Gallagher index?" asks Maryam Monsef, after fishing her phone out from her purse.

"Did you mean what is Gallagher the comedian?"

"No I meant...," says Monsef but Siri cuts in. "It's just a way to measure proportionality of seats a party gets in parliament, to the percentage of the popular vote received."

"Well there you have it, the Gallagher index explained by the person who invented the Gallagher index, Siri. What shouldn't Siri be called Gallagher then? Anyways, I'm opening the floor to questions now."



But How Can Hamilton Move To Toronto If They're Both Cities?

## All The Feelings

For reals though guys I've had a blast doing all the related things. Everyone's been great about making my life as easy as possible

and helping as much as possible. I'm full of pride for all that we accomplished, and the groundwork that we've laid for future terms. Every term the editor awards an "Editor's Choice" award to the member who went above and beyond throughout the term. I wish I could give out five of these awards. because I had someone every issue who came through totally clutch and saved me from pulling out all my hair. Y'all just got easter egged - DM

## More of the Iron Giant

FIRST LOCAL: Strangest storm I ever seen. Swept away my best iron wheelbarrow. But left the handles behind...

Now Hogarth passes a pair of WOMEN who gossip as they rake up leaves and branches.

FIRST WOMAN: My husband spoke to one of those fishermen this morning. Fellow wouldn't talk about the shipwreck at all. Said we'd all think he was mad.

SECOND WOMAN: Now what do you think he meant by that?

FIRST WOMAN: Well, I'm sure I don't know. (lowers her voice) But it wouldn't surprise me if the communists are involved.

EXT. THE "CHAT 'N CHEW" DINER - DAY

The "Chat 'n Chew" diner sits near the docks and the town square: the centre of all social life in the village. Hogarth arrives, at last, and parks his bike. He takes the shoebox out of his bike basket, opens it a little and speaks to whatever is inside.

HOGARTH: Remember -- be charming.

INT. DINER - DAY

The diner is packed. EVERYBODY is here--FARMERS, FISHERMEN -- all

swapping storm-stories. It's LOUD. And there's no empty table, no place to sit.

Hogarth enters and looks around. He spots Annie, now dressed as a waitress and serving coffee from behind the counter. Hogarth puts on a big smile and waves at her.

HOGARTH: Hey, Mom! You won't believe our good luck! Look what I found...

He makes his way through the coffee shop to the counter. As he passes by, various local ladies -- THE BUSYBODIES -- look up from their breakfasts, mouths downcast and eyes half-lidded -- ever ready to cast judgement, should the precious opportunity arise.

Hogarth arrives at the counter opens the shoebox for Annie. A baby squirrel pokes its head out. Annie rolls her eyes.

HOGARTH: His tree musta gotten knocked down in the storm! Can I keep him?

ANNIE: Hogarth, we've been through this. No pets...

HOGARTH: But he's not a pet, Mom. He's a friend. You're always saying I should have more friends come over, right? Well now I've got one. (selling it) You gotta admit I'm making sense here.

ANNIE: Hogarth, if there's one thing we've learned from your many pets, it's that claws and furniture do not mix.

HOGARTH: I know but--

ANNIE: No "buts." We have got to rent a room this year if we're going to make ends meet...

Nearby a Busybody perks up her ears, elbows her neighbor, and raises her eyebrows significantly.

ANNIE: (cont'd) ...and no one wants to live in a place with shredded upholstery.

HOGARTH: You'll never know he's there. I'll keep him in a cage--

ANNIE: -until you feel sorry for him and "set him free" in the house. Remember the raccoon...

HOGARTH: Please, mom. At least look at him...

ANNIE: (softening) Alright, where is this guy...?

Hogarth grins and reaches down for his box... then notices there's nothing inside it. The squirrel has escaped. Hogarth looks back at Annie, hiding his desperation.

HOGARTH: I... will go get him... okay?

Hogarth turns, his eyes darting around frantically. Finally he spies a FURRY TAIL disappearing under a four-person table with a single occupant, hidden behind a newspaper.

HOGARTH: Excuse me...? Excuse me...

No response. Behind the paper, smoke rises.

HOGARTH: Sir?

Still no response. Hogarth is getting exasperated.

HOGARTH: Sir...? Sir? Sir! EXCUSE ME, S--

Hogarth STOPS with sudden realization. He slowly pushes down the top of the paper, revealing that the person he's talking to ...

...is ASLEEP. A lit cigarette with an impossibly long ash dangles precariously from his lips. This is DEAN McCOPPEN. 35, sporting sunglasses, handsome in a rumpled sort of way. Unshaved, uncombed, unusual. A beatnik. Here. Hogarth's heard of them, but this is the first one he's seen up close. The beatnik's head lolls...

...and his cigarette drops in his lap. He WAKES.

DEAN: I was snoring, right? Sorry, man. I'm just not a morning person...

HOGARTH: Please don't move, sir. My pet's under your table--don't look--if you make a scene my mom won't let me keep him.

DEAN: Don't worry sonny, I'm cool as a cucumb- (SHRIEK OF PAIN)

He LEAPS up, HOLLERING, SLAPPING at his smoking pants.

... TO BE CONTINUED

# Point Vs. Counterpoint

## Which Fastener Reigns Supreme? Staples or Paperclips?

**POINT**

**SAM STAPLETON**  
3B FASTENING

The Iron Warrior stands heavily divided on this issue. We had a debate on this during a meeting, and it got pretty heated. Some people had to leave the room, cops were called, it was great. But here, I'm going to further my viewpoint as to why staples are better. Your professors ask you to staple assignments. And for a good reason. They are immensely superior.

First, paperclips are just specifically bent staples. If you unbend a staple, you can make a paperclip. Now I know what you're thinking: "Couldn't it be the other way around?" No, actually. The staple was first discovered by a Waterloo engineer in 1972, for an assignment. Another student, unaware of policy 71, then reshaped the staple into the common paperclip shape. They ended up getting a higher mark. Thus, the first student was in spite for the rest of their undergrad, and made it their sole goal to eradicate all paperclips from the face of the earth. Fast forward to today, student 1 is the CEO of some big company, and student 2 is their employee. Just goes to show you how making your own ideas and not copying can really get you far in life, whereas the opposite will always leave you underneath.

Second, we've invented machines to aid in the process of putting your staples into paper, known as the "stapler." The WEEF TA office is home to one of these wonderful devices. You don't see anything named the "paperclipper". Why? Because that just sounds dumb. And it is dumb. Just like the paperclip. With the aid of a secondary device, stapling becomes much easier, whereas you always have to paperclip with your hands. What if you have an injury? You can't just smack your paperclip in like you would with a stapler. We've accounted for all possible issues regarding stapling, and that just shows how much care went into the design.

Third, there are staples big enough to bind larger sets of papers, whereas I would question the rigidity of normal paperclips. If I had a stack of 50 papers, I would need a fairly large paper clip, which bends too easily, especially the plastic ones. Staples, on the other hand, can withstand the stack much better.

The name "paperclip" can also be misinterpreted. See, our common knowledge states that it's a device to hold paper together. While that may be true, by breaking down the word, you can see how it could be a verb to "cut paper" (i.e. paper, clip). So that means a "paperclipper" would be a ravenous villain going around campus cutting small slits into assignments, receipts, and other forms of paper that come in all shapes and sizes. If someone asked you for a stapler, you know what they would be talking about. If

a paperclipper existed, and someone asked you for one, you'd be confused if they wanted assistance in keeping it together or cutting it apart.

Staples are also multifunctional. Along with being able to hold a large stack of papers, they can be used in other ways. Those fullstacks of staples, you know the ones that come in boxes all tightly packed, unlike PAPERCLIPS, have a multitude of uses. Ran out of chopsticks in the SLC? Staple stack. Need a pair of drumsticks for your mini drumset? Staple stack. Want to build a miniature castle out of office supplies but need appropriate castle wall material? Staple stack. Need to refill your stapler because it ran out from stapling? Staple stack.

Also, someone can easily remove a paperclip from your work and change the order, mess up the papering, etc. Stapling prevents this from happening. If they have a staple remover, I guess it's easier, but they'd have to spend money for that. Paperclips are easier to steal and thus an easier target. Haven't you heard of the paperclip trading story? Where the person traded paperclips and ended up with a house? Well, the first trade made was for a pen. The rest isn't important, because the paperclip didn't directly cause them, but I commend the abilities of the paperclip. However, it's still inferior to the staple. Imagine if this person started with a staple. Think of the possibilities of what they could have ended up with. You probably could've gotten two pens for the first trade.

Why is the department store called Staples and not Paperclips? Well, for a multimillion dollar company, choosing the name was presumably difficult, but look at them now. If the store was called "Paperclips," it wouldn't have thrived to the point it is at today. In fact, I think we would still be seeing some Grand & Toys around shopping malls and plazas throughout the city. But now, Staples is beating out the competition because people think to themselves, "Hey, that sounds like a good place to get my various office needs from."

The Canadian army is also investing in staple guns for future use in the military. Staples are sharp. They can hurt. So we'll be prepared when the civil war of paperclips vs. staples goes all out, and we shall be victorious. No stapler left behind. We stand together. We don't fall apart. Because we're stapled, not paper clipped.

Final point: Clippy the paperclip, is an exception. Clippy is a wonderful paperclip. I'd put him up with Jesus in the hierarchy of paper fasteners. That being said, like Jesus doesn't represent all Christians, Clippy does not represent all paperclips. That is why my argument still stands. But at the same time, I put Clippy above Jesus. I've asked Clippy for help with my work. I can't remember the last time I asked Jesus.

**PEPPA CLIPPERRSSONN**  
3B FASTENING

Don't listen to the Staples shill on the other side. What kind of monster would punch a hole - no, not one hole, but TWO holes - in pristine paper? Not only do staples mutilate the paper, but they are a waste of metal! They are only worth one use before being discarded like garbage, wasting the precious resources of the Earth. What barbarism is this?

There can be no possible excuse for using staples when we have access to one of the world's greatest inventions: the humble paper clip. Not only can these glorious miniature trombones be used for a far thicker, weightier stack of papers than a mere flimsy staple can handle, but they can be used over and over again. You can even use paper clips as bookmarks! How useful would a staple bookmark be? Terrible! All you would do is ruin the book and get kicked out of the library. Paper clips can handle anything you can throw at them, and they never get tired until metal fatigue hits. Yes, paper clips will even break themselves apart in your service.

However, that is not all: while staples are one-trick ponies, paper clips can be used for all kinds of things. They can be linked together to make jewellery, for one thing. It doesn't even have to be plain; paper clips come in all kinds of lovely colours. Furthermore, you can add beads to them and all kinds of

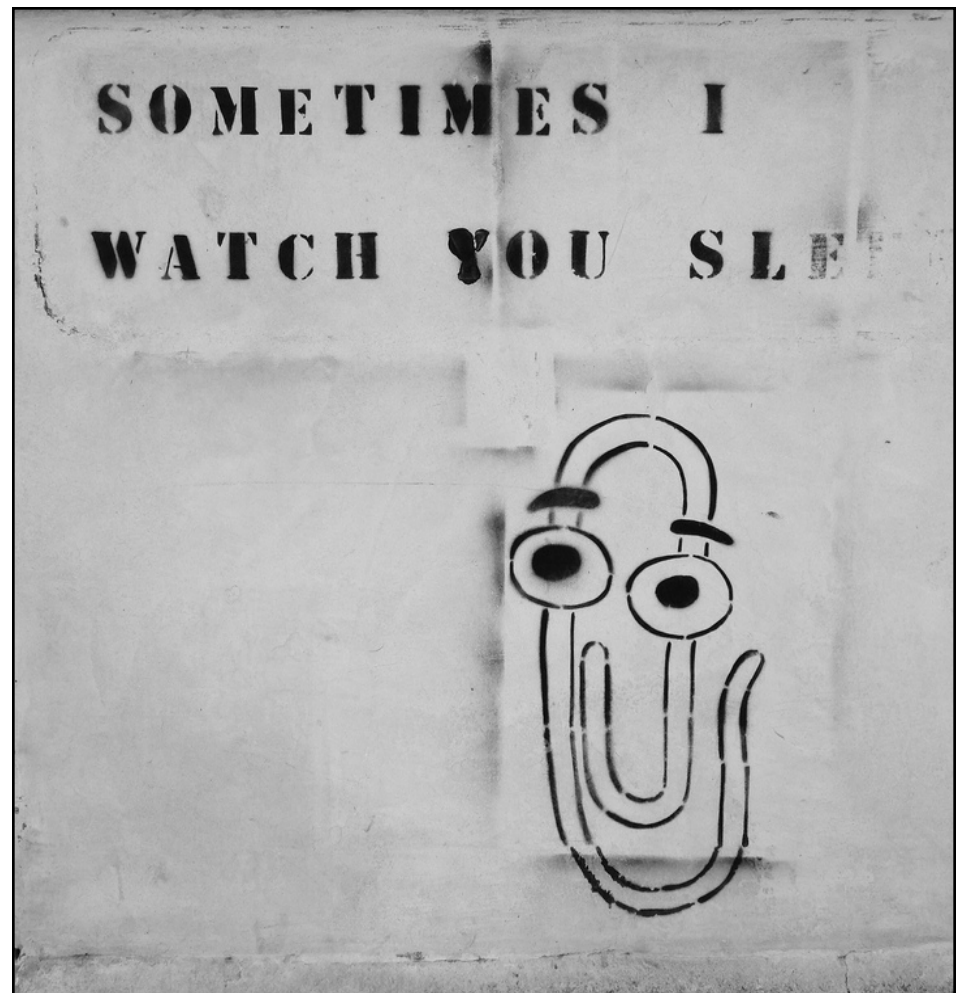
decorations. You can't beat paper clip jewellery! On that note, they make good hairpins too. Would stapling your hair to your skull work? Well, yes, but it would be very gruesome.

Actually, you can use them for all kinds of non-paper related work! Due to their handy shape, flexibility, and durability, they can basically attach anything to anything. You can use them instead of safety pins to repair your clothes. They can also be a key ring, a link in a chain, or a hook to hang something up on the wall. If you are lost in the wilderness, stay alive by using a handy paper clip as a fishhook, and magnetize it to make a compass. Ever needed a small tool, for picking a lock perhaps? Or for a more legitimate purpose, like removing the pit from a cherry? You bet, paperclips will pop that cherry right open for you! Have trouble eating corn on the cob? Pierce each side with a paperclip, and you can hold it easily, licking the hot butter off while your hands remain completely clean! If you've been yanking too energetically on your zipper and it breaks, you can also use a paper clip to repair it. Perfect for zipping and unzipping...

Ahem.

That isn't all: paper clips don't only exist in the realm of the mundane. Have you ever had trouble formatting a resume or doing anything in Microsoft Word? Never fear: paper clips are here to help! Yes, your spirit guide in the realm of software is Clippy, the helpful animated paper clip!

**COUNTERPOINT**



Clippy the helpful MS Office Mascot is a godsend. He's the equivalent of a Wesley-Crusher-Deus-Ex-Machina plot wrap up.

- Really though if staples are SOOOOOOOOO much better than paper clips, why is there a paper clip in the Staples logo?  
- IDK man, I work for the Tin Solider, not Staples. Get outta here.

# STAPLES®

# Building Bridges at THEMUSEUM

## EngSoc Bonds with Kids over K'nex for National Engineering Month



**GABRIELLE KLEMT**  
2A GEOLOGICAL

ENGSOE EVENTS

What has your friendly news reporter been up to lately? Well, if I'm going to be perfectly honest with you (which I totally swear to an oath of honour to always do), then not too much. We've had a lot of projects and tests with coinciding due dates and I didn't even get to find out Riverdale is on hiatus by opening Netflix, because I have not had time to open Netflix in over three weeks - I had to find out second hand! If we're getting real real here, I haven't even had time to make dinner for over three weeks, so it's a good thing so many of the activities and events I do or run will feed me, and it's also good that Timmies is open so late on campus.

In the past couple weeks, I've only been able to make it out to two events, and one was not technically EngSoc.

### K'nex bridges at THEMUSEUM

For National Engineering Month every year the PEO Grand River chapter puts together a weekend of fun at THEMUSEUM for visitors. Mostly there's a TON of K'nex in boxes all over the floor and kids are encouraged to build a bridge strong enough to support 6 bricks. If a bridge passes the test, the kid's name is entered into a draw to win one of many K'nex box sets.

As a member of the Civil, Environmental and Geological Engineering Society (CEGES pronounced "kegs"), I got invited to show up in my covvies and direct the construction of safe and supportive bridges. I also got to play around with K'nex a bit myself. Sadly my bridge on wheels did not support the bricks.

### EOT - That's End of Term y'all

That's right, EOT was back and better than ever - have -OTs returned for good!? The hype is so real people get excited! There was free food, like actual free food, there was loud music, there were a lot of people, and POETS was actually licensed! It was a 19+ enforced by real live security people! Not only that, even the Tool made a guest appearance, so you know it was a good party.

This is a big deal because, in case you are unaware, -OTs sort of died off like the proverbial dodo a couple years before I came to UW. However, their fame and renown have lived on and as more students who remember good -OTs graduate, bringing them back was looking less likely. But behold, EOT W17 was the success everyone looked for: good attendance, good refreshments, good times. Shame on you if you did

not come, I highly recommend the next one because it was LIT and like the Backstreet Boys, they're back!

### Winter Leader Retreat

Well, this event was nothing totally spectacular, just many logistical fun things. BUT the hype is on as the countdown to Orientation 2017 starts up. Yup, we have a THEME which is not something I am at liberty to discuss even in this widely unread column. Guess you gotta wait a bit longer, just know it's gonna be a great OWeek and it is not too late to apply to be a Big!

As the term wraps up, events generally stop running. Be sure to check out some de-stress activities that FEDS will be hosting if you need them, and never fail to take a break from studying every once in a while to get out and do something fun, eng-related or otherwise. Best of luck with your exams folks!!

# What's In It For You?

## An Analysis of Volunteer Mentality (and a Slight Mental Breakdown)



**GABRIELLE KLEMT**  
2A GEOLOGICAL

It was recently brought to my attention that if certain people had more incentive, they would volunteer more for things. For example, I was telling my friend how at one of the more recent events I volunteered at this term, they were giving away pencil sharpeners shaped like light bulbs and they said, "Had I known there would be free things, I would have volunteered too." Well, on hearing this I got indignant because you don't volunteer for the free things you get, you volunteer for...?

What, why do you volunteer? Why do I volunteer so much of my very limited free time to, for example, play with little children and K'nex? It certainly isn't because I like kids particularly, or because I need to beef up my resume;

most of the stuff I do doesn't even make it to that tailored piece of BS (which apparently I'm doing wrong as I am perpetually unemployed).

Then I got to thinking, when have I not been rewarded in some way for the work I do "pro bono" (a word which here means donating my time and brain in the effort of some event or other)? If there isn't free food involved in the event, there might be food later, coupons, gift cards, free knick-knacks, t-shirts... I actively got to trying to think back to an event I hadn't been "paid" for in some way, and I couldn't do it! Do I, someone with fairly high principles, only volunteer for things because of what I know I'll get out of it?! Surely that can't be, so when I sign a volunteer sheet is it out of a sense of obligation to the person running the event or the need to prove myself to people?

I recently volunteered to be part of a research study when a master's student came to talk to my elective class - I

really had to use the washroom but didn't want to be impolite and leave before she handed out the sign-up sheet. I waited until she passed the sheet around, threw down my contact info and ran for the door. I was also the first person she handed the sheet to and I didn't want to set a bad precedent for the class, so down went my name. But most of the time, I sign up for events online, ones that I see posted on the EngSoc Facebook or mailing list or one of the other mailing lists I'm part of. Sometimes I volunteer for things because I'm flattered someone would even ask me, which is why I volunteered for many of the things I did in high school.

At this point, I'm stressed out, why in Pod's name do I volunteer? Clearly I must be a terrible person with no morals: not once was the first reason I volunteered "to give back to the community", that was always just a by-product of the volunteering! Even when I volunteer to fly small cadets in gliders

I do it so I can fly for free! So in order to appease myself, I took to Google.

It turns out, as so often happens when you turn to the Internet, that I am not alone. My "sources" informed me that people volunteer for anything from paying debts to meeting people to getting free stuff. You don't have to have a "higher purpose" which is a relief for me, but also a good lesson in letting myself get carried away with small things, like why volunteer. And it also turns out that you get good feelings from volunteering and many people who do it will look to do it more because of the way it makes them feel to do something useful, which I found applied to me too!

So yeah, I volunteer for a lot of reasons, but hey, there is also an underlying feeling of goodwill that sucks me in every time as well. Who knew. Well gotta fly, I have some more articles to finish so I don't feel bad when IW buys me pizza when I help out on production weekends.

# The Return of the Kuehn

## Part 3 of My Exchange Experience

**TRISTAN KUEHN**  
3B SYSTEMS DESIGN

This is part three of a three-part series on my experiences doing an exchange term in Germany. I'm just about finished with my exams and will head back to Canada soon, so I'll do my best to put my whole experience in perspective now that it's just about finished.

The final part of the academic experience that I haven't discussed yet is exams. I've now done four exams, so I can share a little about my experience. For the most part, they're very similar to exams in Waterloo. My exams here determine my entire grade for the course, which certainly adds some pressure once I'm sitting down and writing them. For a few exams I had to bring my own paper, which was weird but not a big deal. Because a Bachelor's degree lasts three years in Germany, I took one Master's level course, which had an oral exam. While I had never done anything like it in an academic context, it was a lot like a technical interview, so it didn't feel completely foreign.

Looking back on my experiences on exchange, I think the single most valuable part was meeting people from Germany and all around the world. I learned about a lot of different cultures, and it felt good to make friends who came from places I barely knew anything about before I met them. It was also nice to have a chance to

use the German I had learned in Canada every day and get better at it. If you've learned a foreign language in school, I think it's very valuable to go somewhere where they speak that language and use it every day. The differences in how they teach things in a university in Canada and Germany were subtle, but I think they

made me a better student. In Germany, there's a much bigger focus on personal responsibility; I was the only one forcing myself to show up to class and keep up with the content and administrative stuff.

While I'm excited to be home in Canada, there are a few things I will certainly miss about Germany. Brunswick is just a little bit smaller than Kitchener/Waterloo, but it felt a lot more convenient to live in. There are bike paths separated from the road almost everywhere, the public transit has 5 tram lines in addition to a bunch of bus lines, and there are a lot of pedestrian zones with shops and cafes to walk around in and enjoy downtown. The ability to drink alcohol in public was also nice; it's very pleasant to be able to grab a sausage on a bun and a beer and enjoy them outside on a nice day.

With all that said, I hope this series has been interesting and that it's given a bit of a look into what an international exchange is like for an engineering student. It's been a great experience for me, and I would recommend it to anyone who's interested in experiencing life outside of Canada. Bon voyage!



Tristan Kuehn

Tristan at an Open SC Freiburg Practice



# Super Efficient Solar Cells

## Green Energy Breakthrough in Japan



**RATAN VARGHESE**  
2A ELECTRICAL

A team of researchers at Japanese chemical firm Kaneka Corporation have developed solar cells with 26.3% efficiency, which breaks the previous record of 25.6% and is far ahead of the 20-ish% efficiency of high-end commercial cells. The researchers submitted their findings to Nature Energy, after which they further optimized their design to reach

an efficiency of 26.6%. The team used “industry-compatible processes”, so their improvements might actually be coming to a roof near you.

One of the techniques used to improve solar cell efficiency was high-quality thin-film heterojunction. This is a well-known technique which involves layering silicon very carefully to minimize the “band gap”: the energy range in the cell where no electron states can exist. When the band gap is low, it takes relatively little energy to convert a valence electron (bound to an atom) to a conduction electron (which can jump between atoms).

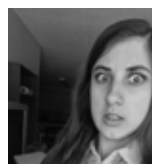
This cell has a passivation layer at the front of the cell (which light shines onto) and low-resistance electrodes in the back. Previous high efficiency cell designs would place passivation layers on the back and the front, or place electrodes on both the back and front. Having electrodes at the front of the cell means losing some photons that might otherwise reach the cell. Thus, according to the paper, the entire front of the cell “can be optimized focusing on optical and passivation properties”.

The theoretical limit of solar cell efficiency is about 29%. Kaneka researchers analyzed the sources of efficiency losses

for their cell: 0.5% was due to resistive loss, 1% was in light collection, and 1.2% was due to electrons being attracted to positively charged holes in the cell rather than moving into current collection components. The researchers claim that these losses can be reduced by reducing the resistance in the rear of the panel and depositing an insulating reflection material to the “separation region” of the cells.

Increasing solar cell efficiency means that the cells can more quickly recapture their installation cost, making them more attractive for consumers and paving the way for a solar-powered planet.

# Are We Ready For First Contact?



**ALEXA GRITTANI**  
3B MECHANICAL

Maybe you are familiar with SETI, the Search for Extra-Terrestrial Intelligence, but there’s a new organization called METI, Messaging to Extra-Terrestrial Intelligence, that plans on taking a more active approach to finding and contacting aliens. METI are preparing to send intentional transmissions to stars with the hope of eliciting a reply from extra-terrestrials.

The organization is continuing with traditional optical SETI, observing and listening for signals from the stars, but this is with the intention of finding the best targets to send their messages to.

There is already controversy surrounding the idea of broadcasting our presence to aliens. It is clear from our media that humans do not assume that alien invaders are peaceful. Stephen Hawking has his own project searching for signs of alien life, but he has no plans to answer any messages.

Stephen Hawking states in his online film, Stephen Hawking’s Favorite Places, “As I grow older I am more convinced than ever that we are not alone. After a lifetime of wondering, I am helping to lead a new global effort to find out. The Breakthrough Listen project will scan the nearest million stars for signs of life, ... but we should be wary of answering back.” He also previously expressed that aliens, “may not see us as any more valuable than we see bacteria.”

Douglas Vakoch, president of METI International points out that, “any civilization that has the ability to travel between the stars to do us harm would already be able to know we’re here. We wouldn’t increase the risks of detection by an advanced, spacefaring civilization by sending intentional signals; we’d only let them know we want to make contact, and we would be able to control the content of our messages, instead of having to rely solely on our accidental messages to represent humankind.”

So if there is an alien race somewhere, advanced enough to come do us harm, then we have already unintentionally advertised our location from our leakage radiation. But then if we are so visible, and no one has come, why are people still convinced that there are extra-terrestrials to be communicated with?



dragavide.com

You know they’re out there...

The Fermi paradox argues that there should be a lot of aliens, and it does not make sense that we haven’t heard from any yet. There are billions of stars in our galaxy, and a large number of those stars are orbited by Earth-like planets. Even if only a fraction of those planets can develop and sustain life, that still makes a lot of aliens, some of which might develop interstellar travel. So, where are the aliens?

Vakoch suggests what he calls the “Canadian Hypothesis”. The idea behind the “Canadian Hypothesis” is that aliens are more Canadian than American, meaning they are waiting for an invitation from us, before they come say hi. This is a nice, simple explanation, but there have been previous attempts at contacting extra-terrestrials. Why has there been no response to the messages already sent? Vakoch explains that, “To date, all of Earth’s interstellar messages have been one-off efforts. Several of NASA’s Pioneer and Voyager spacecraft included messages for any extra-terrestrials that may intercept them as they drift aimlessly through interstellar space. But most messages have been sent by radar facilities or other radio transmitters. The most famous radio message was transmitted from the Arecibo Observatory in 1974. It was a brief message, lasting only three minutes, and it was aimed at a globular cluster of stars 25,000 light years from Earth. That means if we ever get a reply, it won’t be for another 50,000 years.”

Vakoch also explains what makes the possibility of METI’s success more likely, “METI International’s strategy is different from these past approaches in two

ways. First, we intend to repeatedly target the same star over the course of several months or years. This will let any SETI scientists on other planets conduct the same sort of confirmation process that we require to confirm detection of extraterrestrial intelligence. Second, we will focus on transmissions to nearby stars, giving a priority to stars with potentially habitable exoplanets. For example, a red dwarf star nearly 14 light years from Earth is circled by an exoplanet known as Wolf 1061c, whose orbit is within the star’s habitable zone, making it a prime candidate for future METI projects.”

METI has yet to start broadcasting any signals to the skies, but they are continuing optical SETI observations to find the best targets for their projects. They also held a workshop on March 22, in Paris, where the evolution of life on Earth was discussed with the goal of understanding the possible nature of extra-terrestrial life.

Like previous attempts at contacting alien life, METI will be using math and science in their messages. Vakoch explains, “The beauty of starting with math and science is that it provides us with a foundation to describe much more than simply how the universe works. Music, for example, can be described at its most fundamental level using the same concepts that physicists use: frequency, amplitude, and duration. Similarly, the musical notes within chords are related to one another by precise mathematical ratios, and these can be described with simple fractions.”

I hope that after all this work aliens want to message us back. Hopefully we don’t seem too violent to them.

# What’s Your Country’s Spirit Animal?



**RATAN VARGHESE**  
2A ELECTRICAL

Ask Google the question “Why do countries have national animals?” The top result is Wikipedia’s “List of national animals”, and the second is a “Teen Politics Essay”. Yep, this bodes well for anyone seeking an actual answer.

Just as difficult is the question of why some countries have national birds and some do not. According to the Department of Canadian Heritage, the official keeper of national Canadian symbols, Canada doesn’t have a national bird and has never had one. Why? Just because.

The Royal Canadian Geographic Society has a national bird proposal though: the grey jay. Don’t call it “gray” with an ‘A’: that’s an Americanism unseemly for such an essential national symbol. However this name was the one granted by the

American Ornithologists’ Union. It used to be called the “Canada jay”, but that was over 50 years ago. Another unofficial name is the “whiskey jack”, based on the “Wisakedjack”, a friendly trickster spirit in Cree mythology.

These little grey feather blobs are found in every province and territory. They especially enjoy cold forests up north where nobody lives. They have become very comfortable around humans and approach them for food. That behaviour is as stereotypically Canadian as a bird can get. Compare that with the bald eagle: a large, powerful apex predator. Maybe one day the whiskey jack will have the bald eagle’s level of fame, but one wonders if it is worth it to advertise this bird so hard. Perhaps the precedent set by other official zoological symbols would be helpful.

Canada has a national animal (the beaver) and a national horse (the Canadian horse). Oh yes, you read right. Canada has a national horse separate from the national animal. Canada is not even unique in this respect:

Norway has a national horse as well, the Fjord horse. There are other countries who have a national animal which is a horse, without a separate “national horse” position. Azerbaijan has the Karabakh horse, which they are trying to preserve with breeding and protection programs. North Korea skipped that inefficiency by picking the mythical chollima as their national animal. The chollima is supposed to have wings and move too fast for any mortal to mount. It’s not quite official: it is a symbol used by the North Korean government in all sorts of propaganda, but the claim that the chollima is the official animal comes from Unreal Facts. Unreal Facts names Wikipedia as a source. Wikipedia names Unreal Facts. Unreal, right?

You might reason that a national symbol is supposed to inspire pride in one’s national identity, which makes the chollima effective and the whiskey jack a poor choice. However some national symbols are too obscure to fill that role. The Canadian horse can’t stroll down the Trans-Canada highway.

At least “horses” are a well known category of thing. Quick, think of what Canada’s national tartan might be (readers of Scottish descent might know). It was declared a national symbol in 2011, according to Canadian government websites. The related Wikipedia article lists the date but also claims the tartan is not official yet, linking to a non-existent page. That’s some inspiring respect for the national tartan.

Why must only countries have official horses, tartans, and birds? For the same reason that such official symbols exist at all: who knows, honestly? The Hello Internet podcast decided to have an “unofficial official” bird, and an “unofficial official” rice rat. Why stop at podcasts run by 2 dudes? You, a singular dude/dudette/dude-non-binary, could unilaterally decree that you have an official animal and nobody would stop you. Remember, having a spirit animal is cultural appropriation, having a patronus is copyright infringement but having an official animal is just freedom of speech.

# 25 Things

## 5 Lists of 5 Things You Don't Want to Know



**CAITLIN MCLAREN**  
4B CHEMICAL

### 5 THINGS YOU DON'T WANT TO KNOW

All my loyal readers will surely be relieved to hear it: this is the last-ever edition of Five Things You Don't Want To Know. After this day, you will no longer have to read about the ridiculous and disgusting things our ancestors got up to.

In honour of the end of this column, I have made a compilation of the best (or the worst) of the past few years for your reading displeasure.

Here are the top/bottom five horrible things I have written about in five categories: "Bizarre", "Stupid", "Body Parts", "Unscientific", and "People eat...".

#### Bizarre

(A.k.a. "Who came up with this?")

The way that the ancient Irish Celts would express submissiveness to their king would be by sucking on his nipples. In fairness, that is pretty submissive. Whatever floats your boat.

The ancient Greeks didn't approve of men sleeping with other men's wives. What was the punishment for doing so? Having a large radish inserted into the adulterer's bottom, in public.

Some Australian Aboriginal peoples believed that the penis should ideally resemble the vulva, and therefore they would cut it open and allow it to heal with a large opening for that reason.

In ancient China, men believed that they could increase their sexual prowess by boiling a sheep's eyelid in hot tea and then rubbing it on their genitals.

The Huichol of South America considered childbirth to be a cooperative process between the mother and father. That is, the mother would tie a string around the father's testicles and pull on them every time she felt a contraction.

#### Stupid

(Even back in the day, people should have known better.)

The Roman doctor Galen was an important figure in the history of medicine, and fairly reasonable for his day. That didn't prevent him from recommending tattooing your eyeballs with copper sulphate. Of course, the Romans were the same people who used lead pipes and lead pots despite knowing that lead is toxic; they basically were all suffering from permanent heavy metal poisoning.

In Borneo, they used to believe that newlywed couples could not use the bathroom for three days after their wedding, or they would have an unhappy and fruitless marriage. Their friends would watch them like a hawk to prevent them from releasing any bodily waste.

Japan also has a reputation for bizarre attitudes towards bodily fluids and such, which is not undeserved. For example, in the Middle Ages there was a school of thought that stated that periods were a sin, and therefore women were doomed to a hell of wading in a pool of blood forever. The reasoning behind this was that the blood would enter the water cycle, which was nasty and therefore sinful. Strangely enough, this did not apply to men cutting themselves, or to poop or pee.

In 1700s England, a woman called

Mary Toft claimed she was giving birth to rabbits; of course, what she was actually doing was sticking them up there and then pushing them out in front of doctors. Amazingly, some of the doctors actually believed her and wrote about her as a case study, though in fairness to the scientific of the community of the time, these people quickly became laughingstocks. Toft's motivations remain unclear.

In 1970s (yes, with a 19) England, the Yorkshiremen invented the stupidest sport of all time: putting a ferret in your pants and seeing how long you could tolerate it biting your sensitive parts.

#### Unscientific

("Iiiiiiiiiigorr....." "Yeth, mathter?")

Of course, one of humanity's greatest technological achievements is agriculture. However, despite the intelligence of those who invented it, they didn't always understand the subtleties. For example, despite what the Aztecs thought, the following procedure has no agricultural value: piercing a hole in your genitals (men) or tongue (women), running a rope woven with cactus spines through the wound, and tying yourselves together in a circle. This will not make your crops grow faster.

On the subject of genitals, (where we seem to find ourselves a disproportionate amount of the time), Aristotle believed that girls are produced in the left testicle, while boys come from the right one. Choosing the gender of your child is as simple and painless as tying the wrong testicle off during sex.

The ancient Babylonians believed that grinding your teeth at night was caused by demonic possession, which seems a bit excessive. The solution was even more excessive: sleeping with a human skull beside your bed, and kissing and licking it seven times every night.

Ancient Roman athletes believed that boars had performance-enhancing qualities. They would therefore dry boars' dung out and make it into smoothies. These were the protein shakes of the day, and were thought to help in building muscle.

In 1700s England, maybe most doctors weren't silly enough to believe in women giving birth to rabbits, but

they still had strange ideas. For one thing, it was the mainstream scientific consensus of the day that the best way to revive a drowned person was to blow smoke up their ass, literally. Pipes and bellows were hung up at regular intervals along the Thames, for this purpose.

#### Body Parts

(I hurt in places I didn't even know I have!)

Witchcraft historically used a lot of random human body parts. One of the largest-scale ones was in old Iceland, where witches might make a pair of pants out of the whole skin of someone's lower body. Why would you do this? Well, putting a gold coin in the scrotum would produce an infinite supply of gold. (Someone tell this to Trump!)

On the ladies' side, in Hawaiian mythology, a volcano was once created by the goddess Kapo detaching her vagina and throwing it into the air to distract a pig-god who was trying to rape her sister. She then became known as Kapo-kohe-lele, or "Kapo with the flying vagina".

In Canada, up in the Yukon, the Sourdough Saloon serves a special drink: hard liquor containing a pickled human toe. Don't worry, you don't have to eat the toe - you just have to touch it with your lips.

Perhaps not a body part, but sourced from a body at any rate: old-timey Navajo witches would obtain "dried fluids from incestuous necrophilia" and dry it into a powder, which they would throw in the faces of their enemies. This would make them sicken and die, and probably worked; wouldn't you sicken and die if someone threw that in your face?

On the other hand, no one does medicine like the ancient Chinese, whose medicine included broth made from a stir-fried human skull. Confucius was against this, on the grounds that it was "rude and inhumane."

#### People eat...

(Your menu for the evening, ladies and gentlemen.)

Many wild species of shrooms will make you pretty sick if you eat them. What is the solution? Simple: feed them

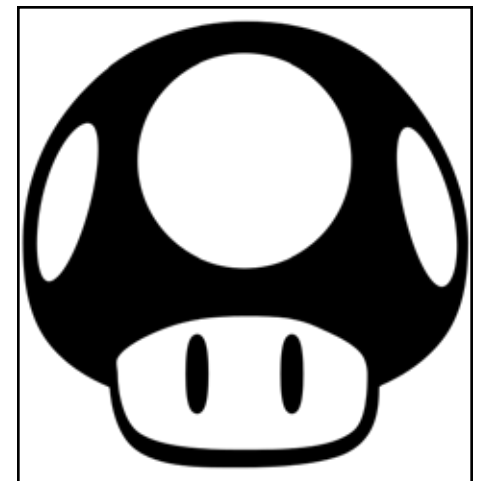
to a reindeer, let the reindeer's body break it down, collect the reindeer's urine, and drink it. That will, amazingly, get you high while making you less sick.

While we are still drinking, why not try Chinese wine infused with deer penis? It makes you so virile that it was banned during the Beijing Olympics (just stick to the good old boar-dung smoothie instead). If you want to go even further, try Three-Penis Wine, which adds dog and seal penis to the mix.

People in Sicily still eat Casu Marzu cheese, despite it being illegal. Why? Because it is infested with maggots, which may even jump out and hit you in the face - if you're lucky. If the maggots die, the cheese becomes toxic, so if you must eat Casu Marzu, make sure the maggots are alive.

The Inuit in Greenland traditionally eat kiviaq in the winter, which is seabirds fermented in seal fat. This is a very clever way of storing food for the long, hard Arctic winter, but fermented birds are exactly as pungent as they sound.

The Wari' tribe of the Amazon eat their barbecued relatives at funerals. However, they let their deceased family member go off a bit before eating them, in order to make the meal (more) gross. After all, enjoying eating your deceased brother-in-law would be rather rude.



Nintendo via Wikimedia Commons

**This famous mushroom's only known side effects are making you grow to twice your normal size.**

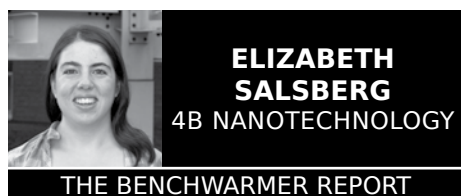
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# The Final Chapter

## One Last Report From the Bench



Dear readers and sports fans: It is with a heavy heart that I must tell you that this will be the final chapter in the Benchwarmer Report at the Iron Warrior, as this is the final issue of my 4B term. Over the past five years, we've seen ups and downs across the sports world, following our favourite hometown teams and sports events. We watched the Jays turn from pretenders into contenders after a series of epic trades engineered by the best GM the team has ever seen. We watched the Raptors, Canada's only NBA basketball team, turn Canadian basketball on its head—the ubiquitous “We the North!” has become a staple of a team now a shoe-in for the NBA playoffs. We watched Canada follow up a dominant performance in the Vancouver 2010 Olympic Games with yet another stellar outing at the Sochi 2014 games. The Pan Am Games came to Toronto in 2015, where our athletes again performed admirably on home soil. We covered the FIFA World (2014) and

Euro (2016) Cups, witnessing Cristiano Ronaldo and Portugal's epic victory, albeit in a shootout.

Finally, we kept watch on all things hockey, widely considered our country's favourite sport. We witnessed the first World Cup of Hockey since 2004, where Team Canada went on to win it all—but perhaps more interesting was Team North America, a group of 24 and under rising stars. We watched the IIHF World Juniors every year, through the good times and the and the bad. In 2015, McDavid and Company won the WJC on home ice in Toronto and Montreal in a breathtaking clash with Russia. After a dismal showing in Finland in 2016, the Canadians bounced back at home in 2017 making it to the final against the archrival United States, to whom they would lose the gold medal game in a shootout. All this, and not a mention of the NHL: The very origins of this column.

In 2013, the NHL adapted the official re-alignment, sending Winnipeg to the West and Detroit to the East. In the same season, the Leafs made it to the playoffs for the first time in decades, only to lose to the Boston Bruins in the last 4 minutes of game 7. We watched the Montreal Canadiens finally begin to close the gap in

quality between Carey Price and the rest of the team. Brendan Shanahan took over the Leafs, tore down the team and forked over 50 million a year to bring Mike Babcock to Toronto, making him the highest paid coach in the NHL. Finally we are seeing the end result. As it stands, the Leafs sit third in the Atlantic division, three points ahead of Boston and five behind Ottawa. They're better than they've been in years, not to mention more fun to watch, featuring the likes of Auston Matthews, Mitch Marner and William Nylander. With 10 games left to play, the young Leafs are poised to gain valuable playoff experience this year.

The Leafs have been red-hot lately, pulling off decisive victories against Boston and New Jersey and grabbing a critical point against the powerhouse Chicago Blackhawks. William Nylander has lead the way with points in each of his last 10 games. They may be in some trouble though, as stellar goaltender Frederik Andersen sustained an upper body injury against Buffalo on Saturday and did not return. Andersen has been a critical piece of the Leafs' resurgence and they will miss him if he's out for a significant length of time. Fingers crossed that it is nothing serious.

Though the Leafs are not a Cup contender

this year, their season has been nothing short of fantastic. Nobody expected them to be this good or exciting to watch, though they of course have added some great players. These Leafs are the beginning of a new era; they are the first real hockey team in Toronto in decades. Regardless of how far they make it this year, Shanahan and his crew have done a great job. These Leafs will only get better with experience. And who knows? Maybe the Leafs will win the Cup on his watch within the next ten years? How exciting would that be? We'll have to keep watching to find out.

And with that, this is the Benchwarmer Report officially signing off. Farewell and thanks for reading. Wishing everyone the best of luck in their studies and beyond. Before I end this article, I would like to personally thank every Iron Warrior EIC since fall 2012 for their outstanding dedication to the paper and patience when these articles were late (which was almost always). I would also like to congratulate my fellow graduating IW authors, Meagan Cardno, Caitlin McLaren and Alex Lee (all former EICs!) on somehow always finding time for the paper amid the sea of work that is UW Engineering. Take a break and watch on, UW.

## Did Disney Steal Zootopia?



It's pretty safe to say that when we hear there's news about Disney, we tend to get excited. Whether it's news of live-action remakes of our favourite childhood films or news about yet another one of its films getting nominated for multiple Oscars, you know you can't resist a good Disney news story. I mean Disney is pretty much the greatest; they make literal dreams come true, and has anyone seen that video of the girl who plays Moana finding out she got the role? I cried and I have no shame.

That's why it's even more disappointing to hear about a lawsuit like the one filed recently against Disney, alleging that they stole the idea for Zootopia from screenwriter Gary Goldman. Goldman claims to have pitched his idea for a movie called Looney to Disney not once, but twice in 2000 and in 2009. This movie was to be the first installment in a se-

ries of movies in the “Zootopia Universe”, but according to Goldman his ideas were rejected.

You may know the name Gary Goldman from his movies Total Recall and the total classic Big Trouble in Little China, a high-quality non-racist film about a white guy saving people from really bad Chinese stereotypes or something. I think I actually blocked it out of my mind after watching it so I can't really tell you. At any rate, he's a well-known character in Hollywood – why would he ever make up a story to slur Disney like this?

Well, Disney wants you to believe it's because he wants a taste of the fame. The Walt Disney Corporation is claiming that “Mr. Goldman's lawsuit is riddled with patently false allegations. It is an unprincipled attempt to lay claim to a successful film he didn't create, and we will vigorously defend against it in court.”

The spokesperson sounds pretty convincing, but when you look at the fact that Goldman registered treatment for his film Looney back in 2000 and even had an animator de-

velop characters which bear a striking resemblance to Disney's, things start to look more complicated. In fact, the character descriptions from Goldman's script also have many similarities to the Oscar-winning film. Actually, if you go over the plot-line beat-for-beat, the breakdown of the story lines is almost identical.

I guess it's a waiting game for now and will probably come down to who can hire the better lawyers. My money is on Disney for this one, not because I think Goldman is lying, but because the big guys always win. Am I too cynical? Maybe. Let me know what you think, I can generally be found wandering the halls of E2 or yelling at happy people.



BagoGames via Flickr

The Famous DMV Scene from Zootopia

## Morph Club

You Always Knew, Deep Down Inside, That You Wanted A Podcast About Animorphs



Guys guys guys guess what! Guess! What! There are multiple podcasts about Animorphs, the children's sci-fi epic of the 1990s where kids turn into animals to fight aliens. There's a podcast called Thought Speak: it's pretty good and I'll mention it here and there. However I personally prefer Morph Club. Join me, readers, on a nostalgic journey like no other.

Morph Club is hosted by Megan and Carey, who much like the Animorphs, refrain from mentioning their last names (if you must know these things, they have Twitter). They agree on a lot of Animorphs-related things, perhaps because of all the

long Animorphs discussions they had prior to making a podcast. Even the occasional guest speakers offer little in the way of resistance. This is the world of unanimous opinions, an alien realm for the audiences of Hello Internet, Hello from the Magic Tavern, Thought Speak, and the excellent Animorphs review blog Cinnamon Bunzuh!. Even Cortex has more conflicts, probably. That's fine, Animorphs is a constant stream of conflict. Additionally, the Morph Club's priorities while reading Animorphs conflicts with my own.

Animorphs is a constant mood whiplash. War crimes and violence are interspersed with poop jokes and mild pranks. I was always one to focus on the dark side, while chuckling here and there. Megan and Carey prefer to frolic in the light. They're trying to have fun, after all. They really genuinely enjoy all the series' silliest moments, which I always considered the

worst parts.

Morph Club focuses on the cartoonish scenes and weirdly chosen metaphors, but doesn't shrink from the bloody violence or eerie horrors. If something is cartoony enough the hosts will laugh at it. In more serious moments, Megan and Carey actually take a much more detailed look at the emotional lives of the Animorphs than I had ever read or heard elsewhere. Now and again Morph Club calls out some of the insensitive and poorly considered parts of the series: social justice was a bit less advanced in the age of dial-up internet. Megan and Carey also giggle at some of the cuter dialogue and audibly despair at almost all the sad moments, even if they last a single sentence. “All I've got left here is sad noises.” says Carey in Episode 16 of the podcast, which confusingly enough is a review of the 13th Animorphs book. “Poor kids,” says Megan in that

same episode. They will remind you that the main characters are children every 10 minutes, and hope that one day there will be an Animorphs adventure without any guts on the floor (there are maybe one or two).

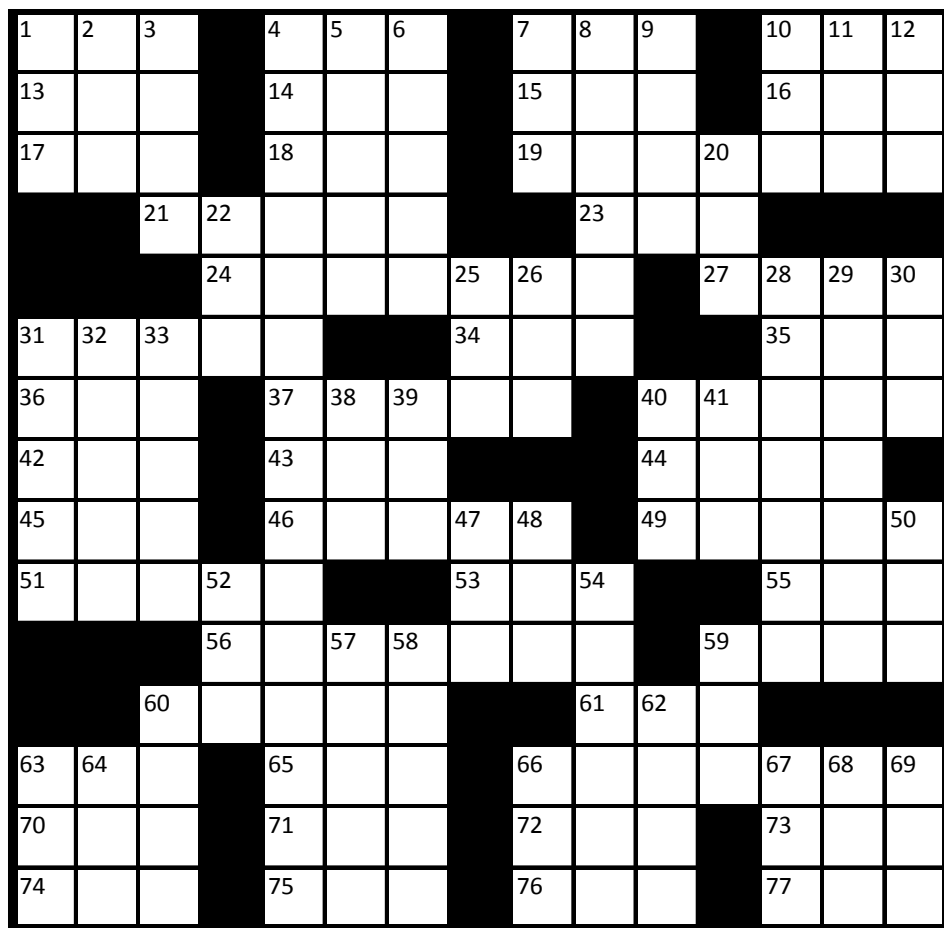
Most episodes analyze one Animorphs book. Sometimes, there's an episode which analyzes three episodes of the terrible, terrible Animorphs TV series. The podcast is currently about halfway through the books. I haven't heard of any plans to do anything after reviewing the last book (contrast with Thought Speak, which is maybe 4 books ahead and whose hosts keep mentioning that they have a plan for the future).

Morph Club releases “a new ep every other Tuesday”. Megan and Carey are comic artists, so if you like the cover (?) art for each episode, there's more where that came from.

# The Iron Crossword

Ancient Civilization

**CAMERON SOLTYS**  
3T MECHANICAL



**ACROSS**

- 1: Place where beer is served
- 4: Mean (abbr)
- 7: Female third-person pronoun
- 10: Remote viewing, for instance (abbr)
- 13: Stock market launch (abbr)
- 14: German for "never"
- 15: Long skinny fish
- 16: "You will \_\_\_ the day you crossed me!"
- 17: A valuable cut stone
- 18: A file extension for init. and config. files
- 19: Watch
- 21: Awards issued to television shows
- 23: Long-wavelength visible light
- 24: Enzyme that breaks down maltose
- 27: \_\_\_ new show, "Big Little Lies"
- 31: Relating to birth
- 34: Spread, especially seeds
- 35: Perform
- 36: Concentrated mineral
- 37: A half woman-half bird monster
- 40: "And \_\_\_ as I am..." Great Big Sea lyric (2 wd)

- 42: Well-known stage of sleep (abbr)
- 43: Waterloo program for undergraduates to do research (abbr)
- 44: Kirk \_\_\_, 1948 Superman
- 45: Raw material of maple syrup
- 46: The first urban civilization of the Tigris and Euphrates
- 49: Religion that follows the teachings of Muhammad
- 51: Created, especially a business (abbr.)
- 53: Common encryption algorithm used to share other keys
- 55: Ontario Dental Association (abbr)
- 56: Material designed to weigh down a boat
- 59: Biblical figure smote for not fathering a son with his widowed sister-in-law
- 60: \_\_\_ law, description of punishments for specific crimes
- 61: Sound of a crow
- 63: "\_\_\_ is me!" Exclamation of grief
- 65: Directors Guild of America (abbr)
- 66: Famous shear-thickening mixture
- 70: Used to power a row-boat

- 71: Memory of floppies, HDDs, and CDs
- 72: Suffix meaning "full of," esp. in chemistry
- 73: Plant-based component of soap
- 74: Kitchen implement intended for use on maximum heat
- 75: Unmarried 18-year old in the Latter-day Saints Church
- 76: Open-office spreadsheet template file ext.
- 77: Fifth month of the year

**DOWN**

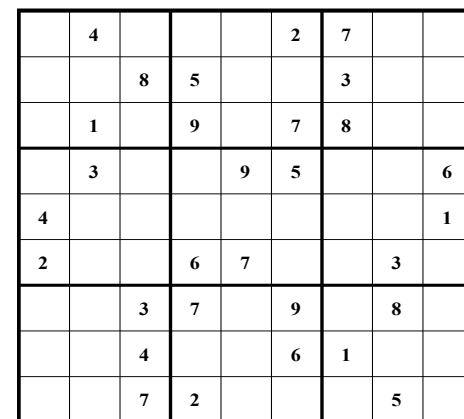
- 1: The \_\_\_ Apple
- 2: A gorilla or gibbon
- 3: City created by Romulus and Remus
- 4: Early tech of using and breeding animals
- 5: Stories from The \_\_\_ Cafe, Stuart McLean Book
- 6: Ghost or spirit
- 7: How to a site higher on Google (abbr)
- 8: Early language of ancient Israel
- 9: If, then, \_\_\_
- 10: Something which is intrinsically human
- 11: Large vehicle designed for a family or individual (abbr)
- 12: Urine
- 20: Magic: The Gathering variant played with 100 cards
- 22: Mixed Martial Arts (abbr)
- 25: Deadly snake of Egypt
- 26: Used to make Soylent Green and tofu
- 28: City of the Hanging Gardens
- 29: Anthem of a 150-year-old country
- 30: Transmitted by carnal activity
- 31: Language of the Vikings
- 32: Regions
- 33: Something a vice does
- 38: American Railway Union (abbr)
- 39: Used to bring down a fortified door
- 40: American Association of Immunologists (abbr)
- 41: NASA's in-progress massive rocket (abbr)
- 47: Period of time
- 48: Method for web publishers to announce content updates
- 50: Male
- 52: Honest \_\_\_, American President
- 54: How the C&D prices its food
- 57: Largest city in Africa
- 58: South American spitting animal
- 59: Nighttime hunting bird
- 60: Advantage or bonus
- 62: American Board of Eye Surgery (abbr)
- 63: Exclamation of amazement

# Sudoku

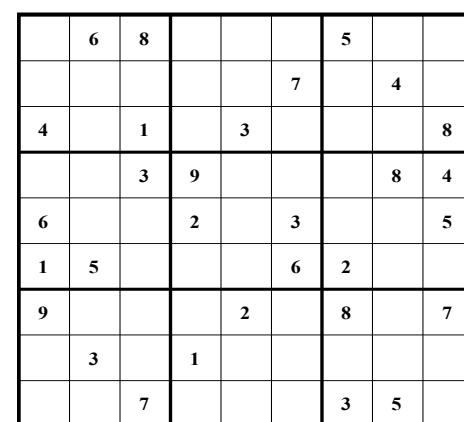
#2017-05

**BRYAN MAILLOUX**  
3A MECHATRONICS

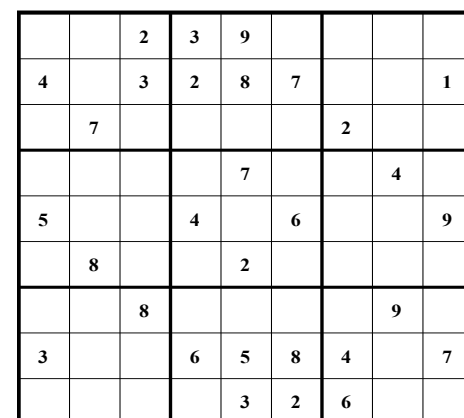
Medium



Hard



Very Hard



- 64: Ontario Association of Optometrists (abbr)
- 66: Land of Finn and Jake
- 67: Street Frank and Joe Hardy lived on
- 68: Internet speak for "talk to you later"
- 69: Lock-opener

Solutions for previous crosswords can be found on *The Iron Warrior's* website at [iwarrior.uwaterloo.ca/distractions](http://iwarrior.uwaterloo.ca/distractions).

**THE IRON INQUISITION**  
Tom Willert, 3B Mechanical

## "What's your hidden talent?"



*"Hide and go seek."*  
Anthony Duffy, 3A SYDE



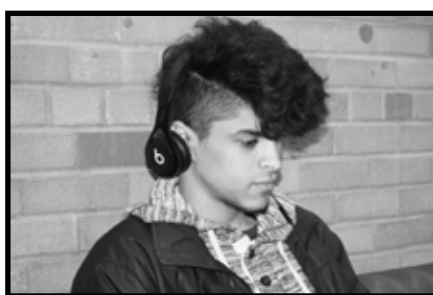
*"Falling asleep on the floor of DWE."*  
Megan Town, 2A Chem



*"I can watch Lassie and only cry 3 times."*  
Ben O'Callaghan, 3A Civil



*"I can screech, like, LOUD."*  
Karl Jakelski, 3A Civil



*"I play varsity soccer."*  
Michael Girgis, 1B Chem



*"I once baked like 6, six-layer rainbow cakes."*  
May Beauregard, 3B Tron