

THE IRON WARRIOR

THE NEWSPAPER OF THE UNIVERSITY OF WATERLOO ENGINEERING SOCIETY

VOLUME 39 ISSUE 15 | WEDNESDAY, NOVEMBER 28, 2018

Indigenization Efforts on Campus Begin Next Steps

Page 3

EngSoc Awards Announced

Pages 10 – 11

The Tin Soldier is Here

Pages 4 – 8

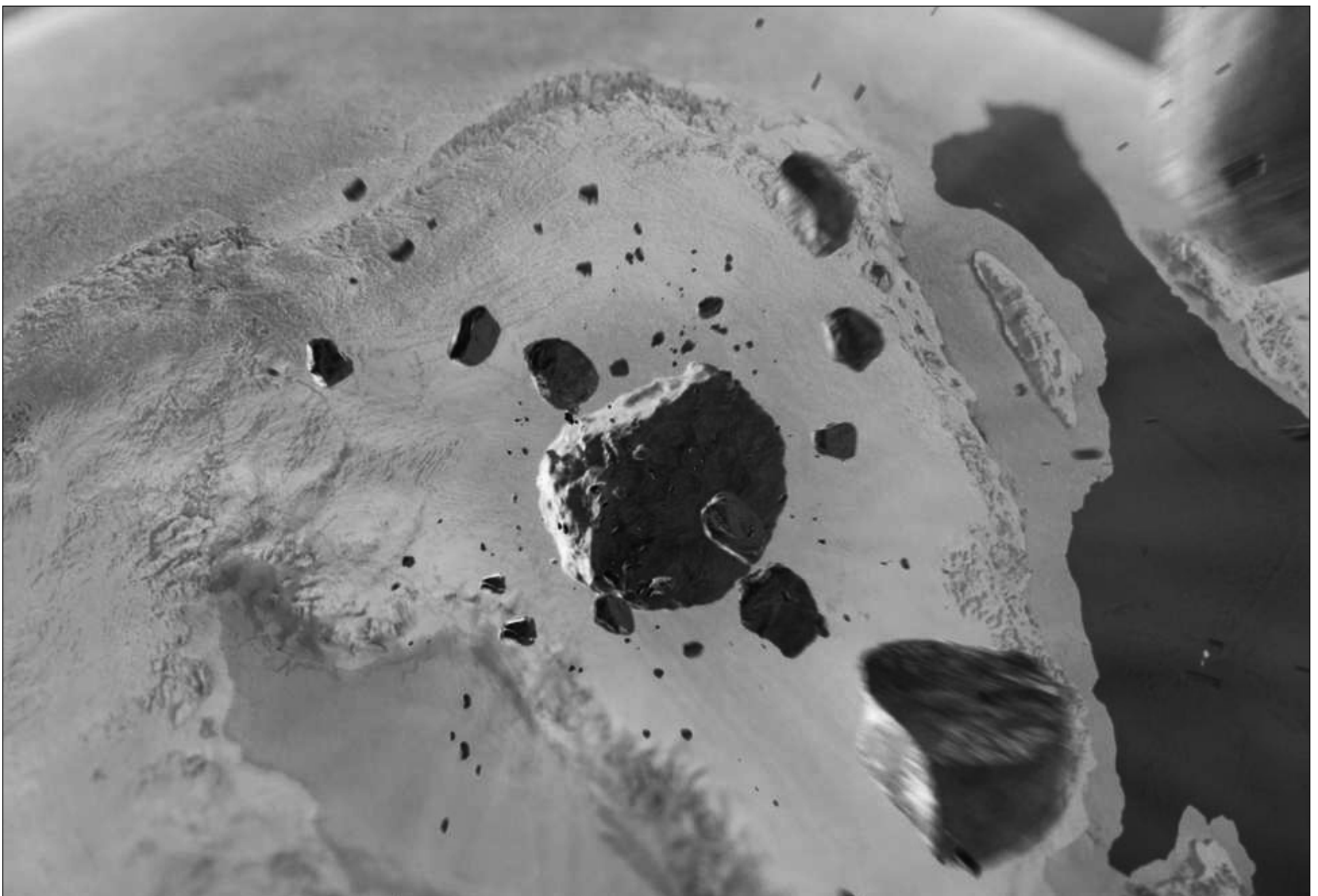
facebook.com/TheIronWarrior

twitter.com/TheIronWarrior

iwarrior.uwaterloo.ca

Massive Crater Found Under Greenland Ice Sheet

Groundbreaking Discovery Could Have Huge Implications on Ice Age Hypothesis



Carl Toft under Fair Use



KAI HUANG
1B COMPUTER

In 2015, Kurt Kjær, a geologist from Denmark's Natural History Museum, was studying the contours under Greenland's colossal ice sheets when he discovered in the topography a hint of a hole underneath the Hiawatha Glacier. He was intrigued at the possibility, but needed further research with radar technology in order to see through more than a kilometer of ice.

Kjær and his team began to work with NASA glaciologist Joseph MacGregor, who had found that NASA aircraft often flew over the Hiawatha when on their way to survey conditions in the Arctic. In a stroke of luck, they found that the instruments were often turned on while in the flyby, and indicated what looked like the rim of a crater. However, the results were still somewhat inconclusive, with no revelation of what the center looked like. A rim could merely indicate

an ancient volcano, but a crater has telltale signs as the debris forms rings surrounding the epicenter. The scientists knew that future dedicated missions must be taken.

Kjær reached out to the Carlsberg Foundation for funding, while MacGregor utilized his NASA connections to allow them to work out of the USAF Thule Base in northern Greenland. Using a new radar system mounted on a Basler aircraft from the Alfred Wegener Institute, they flew three flights in May of 2016. Their data revealed a central peak rising roughly 50 meters high, and a surprisingly jagged crater bottom. The latter fact is particularly interesting as it indicates a relatively young crater; had the impact been more than 100,000 years ago, the erosion from the end of the ice age would've smoothed it off.

Knowing that their results would be scrutinized by the entire scientific community, the team conducted further analysis on the Hiawatha, directly above the crater. They collected sediments that gave further credence to their meteor

impact theory. There were glass grains that would've required temperatures higher than a volcanic eruption to forge, as well as quartz crystals that contained a distinctive pattern that could only be formed from extraterrestrial impacts or nuclear weapons.

In Kjær et al.'s publication on 14 November, they state that the crater is 31-kilometers wide, with the geochemical analysis indicating that the impactor was a fractionated iron asteroid. They further discuss that the Asteroid must have been more than a kilometer wide to produce the crater, and that the impact took place after the last glacial period.

This discovery leads to renewed debate over the cause of an inexplicable event that happened about 12800 years ago. The ice age had just ended, and with the increase in temperatures came a time when giant mammals prospered, and the prehistoric Clovis people had spread across North America. However, over the course of 1200 years, the Earth suddenly plunged into another major change, with temperatures in the

Northern Hemisphere plunging almost 8 degrees Celsius, an event known as the Younger Dryas. It ended as abruptly as it began, but as the Earth warmed once more, many of the giant mammals were dying out, and the Clovis people had vanished.

A controversial theory about the Younger Dryas is that it was caused by a massive meteor impact which would've not only interfered with ocean circulation but also triggered wildfires across the North American continent as pieces of the object exploded in the atmosphere, producing enough soot and compounds to block out the sun. Supporters of the theory point to the 1908 Tunguska airburst that flattened over 2000 square kilometers of forest, producing as much energy as 1000 Hiroshima bombs. Critics have long contended that there is little to no evidence for any of the key arguments of the impact theory. However, with this new discovery that lines up almost perfectly with the time period, the argument once again surfaces.

Letter From the Editor

A Big Thank You to Everyone



RAFIQ HABIB
EDITOR IN CHIEF

This is the last issue for The Iron Warrior for the fall term. I must admit, I'm having a hard time believing that this is my last publication as Editor-In-Chief. Where did the time go?

I want to begin this editorial by thanking everyone for making this issue, as well as all the other issues this term, possible. I also want to thank all of you, the readers, for taking an interest in The Iron Warrior and reading it on a regular basis.

I've spent a long time trying to decide what I want my final word to be as the Editor-In-Chief. In fact, I've put off writing this piece as long as I possibly can to give myself more time to think.

I am honoured to have had the opportunity to manage the paper for the Fall 2018 term. I've really enjoyed coordinating articles and running the weekly meetings, mediating the discussions so writers can decide which articles they want to write and what issues are important to cover. Being Editor-In-Chief has also helped me strengthen my writing and editing skills, especially when it comes to writing longer editorials (upwards of 1800 words).

This role has been a very fulfilling experience for me, as I have always regarded reporting and the news as an integral part of every community and of civil society. As someone who begins and ends his day by reading the news, I believe wholeheartedly in the importance of delivering stories and covering events that would be otherwise

inaccessible. Having strong, thought-provoking writing available to read is crucial, especially in a university setting, and can also provide a great break from studying and homework. I hope that some of these ideas came through in the writings, columns, and news coverage that each issue in this term contained.

Reflecting back, I am very happy that I put myself forward for this position last winter and that I had the support of Cameron (EIC Winter 2018) and Hasan (EIC Spring 2018).

That's not to say that this term didn't have any bumps in the road. There is more to running a newspaper than meets the eye. Our move to the new office in DWE 1532 brought with it some logistical issues (as expected when moving offices). Relying on advertisements as our only source of revenue was also a challenge, especially when we encountered a loss of precious advertisement revenue. These situations provided great learning opportunities.

Even though I will not be the Editor-In-Chief once this term comes to an end, I don't plan on going anywhere anytime soon. I will continue to write articles and stay involved in The Iron Warrior (especially on my study terms). That said, considering I'm now used to dedicating every other weekend exclusively to laying out the newspaper and sending it for printing, the first few weeks of Spring 2019 will probably consist of me trying to find something to do with all that additional time on my hands. Who knows, I may finally get around to being less of a procrastinator when it comes to studying.

To get back to the matter at hand – issue 5 of Iron Warrior's Fall term – we have many great articles in this issue.

The winners of the EngSoc Teaching Excellence Award and the Friend of the Society Award are announced on page 10 and 11, along with interviews of both the winning professors. We also have an article by Janny about the University of Waterloo's Indigenization Strategy. As usual, her thorough article has everything to make you an expert on the steps that Waterloo is taking to implement the Indigenization Strategy.

On a lighter note, this issue contains The Tin Soldier, our termly satirical section where nearly nothing is off-limits. I'll leave all those articles as a surprise, but I guarantee that you are in for a laugh. From articles that are pure nonsense to those that are much more pointed, there is something for everyone.

For those of you that are on campus for the Winter 2019 term, Samridhi will be taking over as EIC. For the Spring 2019 term, I am happy to announce that Janny will be taking on the role of EIC. Both Samridhi and Janny have written numerous articles for The Iron Warrior, and I am excited to see the direction they take the paper in.

Once again, I want to thank everyone for their support and for their commitment for the paper. It's been a great term.

Best of luck on exams and on the upcoming work term.

-Rafiq

THE IRON WARRIOR

The Newspaper of the University
of Waterloo Engineering Society

Editor-in-Chief

Rafiq Habib

Layout Editors

Stone He
Janny Wang

Copy Editors

Hasan Ahmed
Parul Arora
Steven Du
Kirsten Ehlers
Kai Huang
Gabrielle Klemm
Beverly Vaz
Kaaru Selvarasa

Photo Editor

Stone He

Web Editor

Kai Huang
Tony Kappen

Social Media Manager

Selina Hsu

Advertising Manager

Stone He

Staff Writers

Parul Arora
Steven Du
Kirsten Ehlers
Stone He
Kai Huang
Seline Hsu
Tony Kappen
Beverly Vaz
Janny Wang

ADVISORY BOARD

Off-Stream Editor-in-Chief

Samridhi Sharma

Executive Members

Emma Swarney
Ashley Clark

Students-at-Large

Cecile He
Alyson Skidmore

Non-voting Member

Hasan Ahmed

Nostalgia:

A Blast from the IW's Past

THE IRON WARRIOR

Advertise With Us!

Want to reach a wide, intelligent audience which includes students, faculty and staff at the University?

We are the official newspaper of the University of Waterloo Engineering Society representing the entire undergraduate engineering student body of over 6000 students.

Our newspaper is distributed all across campus and is the perfect medium to advertise your event, employer information session, service, etc.

For more information, please visit iwarrior.uwaterloo.ca/advertising or contact us at iwarrior@uwaterloo.ca, 519-888-4567, Ext. 32693

Send your submissions for the next issue to iwarrior@uwaterloo.ca.

Fall 2018 Publication Schedule: September 26, October 17, October 31, November 14, November 28

The Iron Warrior is a forum for thought-provoking and informative articles published by the Engineering Society. Views expressed in The Iron Warrior are those of the authors and do not necessarily reflect the opinions of the Engineering Society.

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

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

Mail should be addressed to The Iron Warrior, Engineering Society, DWE 1532, University of Waterloo, Waterloo, Ontario, N2L 3G1. Our phone number is (519) 888-4567 x32693. E-mail can be sent to iwarrior@uwaterloo.ca

Wildfires Ravage California

KIRSTEN EHLERS
1A BIOMEDICAL

California has been plagued with wildfires this season. This bout of fires are specifically in Southern California. People have been blaming the abnormally strong Santa Ana winds and katabatic winds from Great Basin and Mojave Desert.

The Thomas fire is the largest fire in Los Angeles since the 1961 Thirty six thousand eight hundred seven acre Bel-Air Fire. Additionally, the Thomas fire is growing at an unprecedented fast pace with 31 000 acres of growth in the first nine hours. As of last Sunday, the 173 000 acre fire had only been 15% contained [1].

The damage has been extensive. The Thomas Fire has displaced 98 000 Californians and put 6 800 homes and

businesses in the dark. Overall, the wildfires this year have caused \$10 billion in damages [1].

How did the wildfires get so bad?

The short answer is climate change.

The long answer, is that California has experienced the hottest past five years ever and has just ended its second worst drought ever. This has resulted in increased frequency of tree death. Also the rising population of bark beetles have significantly contributed to tree death. These dead trees are explosive fuels to the wildfires.

But the drought has reduced groundwater levels so there simply isn't the resources to fight the fires. Furthermore, California is not expected to get any relief anytime soon. It is predicted that the drought will continue until December 20th. [2]

The one good news from these

devastating fires is that no one has been killed.

[1]<https://www.cnn.com/2017/12/06/us/california-wildfire-numbers-trnd/index.html>

[2]<http://www.governing.com/topics/transportation-infrastructure/Why-Californias-Wildfires-Are-So-Bad-This-Year.html>



AFP under Fair Use

Cars and houses burn as fire ravages Southern California.

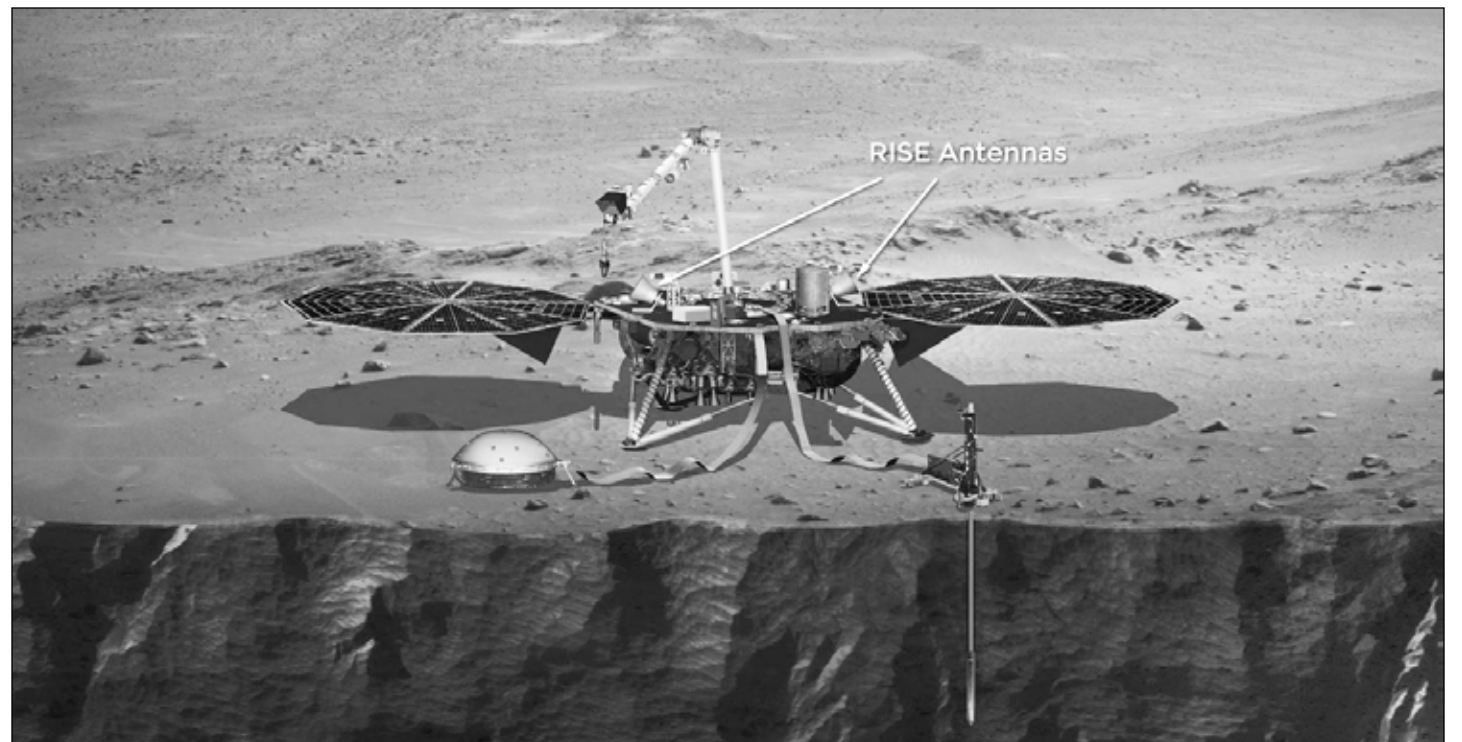
InSight Lander Successfully Reaches Mars



RAFIQ HABIB
EDITOR IN CHIEF

On Monday, November 26 NASA's InSight Lander successfully reached Mars and transmitted its first image back to Earth in a culmination of its 7-month journey through the deep darkness of space between Earth and Mars.

InSight, short for Interior Exploration Using Seismic Investigations, Geodesy and Heat Transport, is quite different from more well-known rovers such as Spirit and Curiosity. InSight is a lander, meaning that it does not move at all. Instead, it is equipped with a heat flow probe, a seismometer, and a radio instrument. Using these three main tools, InSight will collect and transmit data about the Martian surface and crust in an aim to learn more about the geologic history of the planet. NASA hopes that with the information InSight collects over its planned 728-day mission, they will be able to calculate the thickness and structure of the



NASA under Fair Use

A mockup of InSight on the surface of Mars.

Martian crust, find out how tectonically active Mars is, and find out how often Mars is struck by a meteorite. With

this information, scientists will be able to better understand how Mars evolved geologically in the eons after the Big

Bang, and to better compare the internal composition of Mars with that of Earth.

Indigenization Efforts on Campus Begin Next Steps

JANY WANG
2A NANOTECHNOLOGY

Our world has developed something of a mania for mass emails; one such distinguished itself from the commoner horde by bearing the signature of Dr. Feridun himself. This was an 'Update on the University of Waterloo Indigenization Strategy', which was, unfortunately for its readability, north of sixteen words and without any promise of reimbursement or compensation.

In 2015, the Truth and Reconciliation Committee had issued an extensive call to action, whereupon the University of Waterloo's Steering Committee issued their own list of demands after "450 hours of collaboration with more than 60 students, faculty and staff". One of these calls, which Dr. Feridun has heeded, is the appointment of a Director of Indigenous Initiatives at University of Waterloo. The precise details of the position are as yet unknown, but Jonathan Hamilton-Diabo, who occupies a similar role at the University of Toronto, receives about 130k a year for spearheading the "sustainable" recruitment of "indigenous staff, faculty and students".

The Steering Committee itself is head-

ed by Diana Parry, the Associate Vice President, Human Rights, Equity and Inclusion, a "feminist scholar who [uses her] research to advance a social justice agenda by advocating for a holistic understanding and conceptualization of health for women".

The Committee itself is divided into five "working groups"; Community Engagement, Policy and Procedures, Curriculum and Academic Programming, Research, and Student Experience.

The first two groups have an eye chiefly on administrative affairs; the creation of more Offices, committees, and Directors, and the promotion of staff with ties to the indigenous community. Half-buried between this rather bureaucratic shuffling is a major proposed change of university policy.

Recommendation 6 of the Policies and Procedures Working Group advises the university to "review current policies and consider introducing alternatives that are better adapted to meeting the lived experiences and values of FNMI students (eg. UW policies 70, 71, and 72)". The rationale for this is that our current practices are centered around "the values and experiences of Euro-American students... and reflect the practices of settler society".

The recommendations of the Student Experience Working Group involve "dedicated spaces devoted to Indigenous culture...such as a three sisters garden (beans, corn, and squash)", Knowledge Keepers in Residence, Ally Training, and further financial assistance for indigenous students, while the Research Working Group seems primarily concerned with preserving and promoting "Indigenous research methodology".

The recommendations which will be of primary interest to undergraduate students are those of the Academic Working Group. The most notable one involves "indigenizing programs and courses". This would involve "hiring elders in residence and indigenous curriculum... with the relevant areas of expertise in every faculty [italics mine]". Afterwards, a shift in pedagogy would occur. To quote the paper in full:

"Implementation in STEM – certificates in cultural competence and in community-government-industry mediation; Indigenous language milestones/ requisites; recognition of Indigenous science and knowledge in new courses and/ or as part of existing courses; application of Indigenous pedagogical methods (learning circles; story-telling, for example),

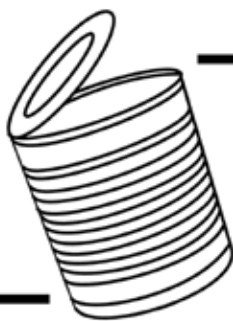
particularly for mathematics and physics; land-based learning; outreach and recruitment of students from Indigenous communities"

It is not certain if these recommendations are finalized, but they would represent an immense upheaval in the lifestyle of any engineering student and it is by no means evident how such changes would be implemented. Learning a new language would be a significant burden on students already weeping into their nightly ramen; "Indigenous science and knowledge" is unlikely to be applicable to most newfangled programs, and story-telling seems an inconvenient way to teach electromagnetism.

These recommendations are from the draft versions, which can be found on the University of Waterloo website. In his email, Dr. Feridun indicates that he has "accepted the committee's recommendations and consulted broadly with community stakeholders on... next steps". There is no doubt that the University of Waterloo is a diverse and welcoming community, but the proposed recommendations would require a large commitment on the parts of both student and staff, and the implementation thereof seems fraught with challenges.

THE

TIN



SOLDIER

E5 EXPANSION FINALLY OPENS, BUT WITH ODD NEW "E7" ABBREVIATION

Housing Companies Sign Deal to Buld Condo Over University Shops Plaza

Rent to cost more than tuition

Pearl Sullivan Increases in Value, Changes Name to Diamond Sullivan

pg. 88 million

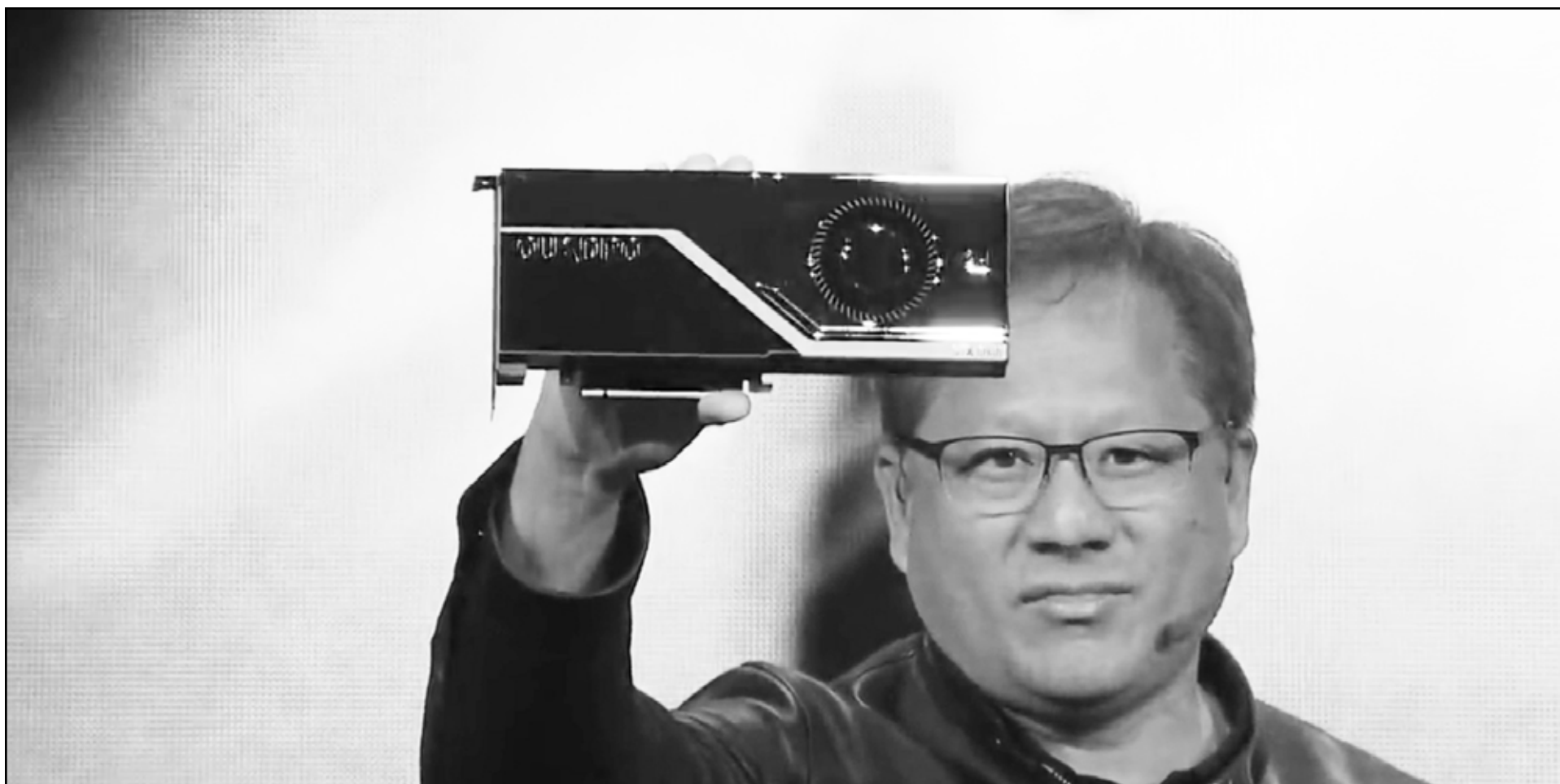
Bitcoin Ready for 2020 Diving World Championships After Recording \$2,400 Nosedive in Just 1 Week

"ThE CuRrEnCy Of ThE FuTuRe"

github.com/TheIronWarrior

EIC Title Changing to EI as part of UW Indigenization Effort

NVIDIA Gives Job Offer to Every ECE Student



Medium under Fair Use

Jen-Hsun Huang, CEO of NVIDIA, graciously blessing ECE students with unsolicited job offers.

JEN-HSUN'S ESTRANGED SON 4C ANYWHERE BUT NVIDIA

Students from the ECE department reported an interesting incident last week when they received emails asking them for their contact information so they could be mailed an offer letter. The emails were seemingly sent to every single student, regardless of their current WaterlooWorks status or even of their stream, with many students in stream 4 confirming that they had all received the emails as well.

When the Tin Soldier reached out to NVIDIA's University Relations department to inquire about the curious circumstance, their representative confirmed with us that it was not an elaborate prank or even a mistake in the

slightest, and they had sent all the emails out of genuine intent. "We believe that the Waterloo ECE curriculum fulfills our requirements almost perfectly, and any remaining skills that the students may require can be developed in our workplace." In response to our question regarding what the additional skills that students would gain, we were told that it involved "developing familiarity with industry-leading proprietary NVIDIA software", and then added that they were hoping to discuss with the department to bring the current ECE curriculum into one that was further tailored to meet industry requirements.

Students' response to the opportunity bestowed upon them was surprisingly mixed. While many would have expected nearly everyone to jump at

the chance to work for a high-profile company in California, there were students that had concerns about what the job entailed. "I feel like the company is rather cult-like and not accepting of any change", mentioned one, while another mentioned how "their business practices are rather scummy and they don't really seem to care about their customers." Students that had worked there before seemed to all offer eerily similar statements along the lines of "who needs to know what a gigaray is when products sell well and you get paid nicely?"

Of course, it is needless to say that the majority of students still took the opportunity without a second thought, their eyes glowing with anticipation of California and all that they hoped they

could accomplish there. The academic advisors' offices were lined up with students in stream 4 hoping to switch streams to take the chance. However, luck is not on the side for students that have already been matched through WaterlooWorks prior to this time. Even through persistent lobbying from representatives in the ECE department, they stand by their decision to ban any student that rescinds their current offer to take the NVIDIA position.

NVIDIA continued on Page 8

DEPE FRID POTATOES

SEXUAL INNUENDO



THE TIN SOLDIER

Editor-in-Chief
Due tomorrow do tomorrow

Layout Editors
#nextEIC
DWE 1532 is a great lunch room

Copy Editors
Warriors of Webster, Experts of Oxford, but still have not debunked the mysteries of WordPress
Walking the fine line between editing and rewriting articles

Photo Editor
Photoshop (under fair use)

Circulation Manager
It'll get there eventually

Web Editor
WinSCP Manager

Social Media Manager
All these young'uns doin' nothin' but facing their books and snapping their chats

Advertising Manager
You get an ad, and you get an ad, everyone gets an ad!!

Staff Writers
The procrastination is mightier than the sword
200 word articles ftw
Writes everything in .txt files
1-time writers still count
What am I writing again?

Contributors
Comes to campus on a work term for fun
Just here for the snacks
Isolated NDPer
Still waiting to receive an article

ADVISORY BOARD
Off-Stream Editor-in-Chief
Still remembers what the outdoors are like

Executive Members
Mandated to help us reach quorum
MIA

Students-at-Large
Volunteer to help us reach quorum

Non-voting Member
Definitely here out of his own free will

20 Questions: EIC Ethnicity Edition!



THE REAL DEAL
3T LOOK MA I'M A REAL JOURNALIST!

We have posed 20 questions to the Editor-in-Chief of the Iron Warrior to help all of our readers understand and get to know him better. From these questions, the reader may attempt to guess his ethnicity. Email your responses to iwarrior@uwaterloo.ca with the first correct guess receiving a \$10 reward

What is your name?
Rafiq [redacted] Habib

What program are you in?
Management Engineerin

What is your favourite season?
Winter

Should Shawarma wraps have fries in them?

Do not speak of such blasphemy. If you want real shawarma I'll take you to this great place near my house (in Toronto). The offerings at University Plaza are a disgrace!

Star Wars Prequels, Original Trilogy, or new Trilogy?
Prequels, 100%

Would you rather be an Eagle or a Lobster?
Eagle?

What about Toronto's independence movement?

Stood about the same chances of happening as Keesmat did of winning the mayoral race.

If you had the choice, would you rather travel to Somalia or Nigeria?

Flip a coin: heads for Somalia, tails for Nigeria. (Nigeria gets bonus points for not being in an outright famine or civil war though).

Which nation in World War 2 had the most aesthetically pleasing warships?
Germany

Have you ever considered moving to Argentina?

Never really given it any thought, although I once sat through an hour-long presentation of someone talking about his vacation there. I'm rather bad at habla-ing español though.

Does Portuguese or Spanish sound more elegant as a language?

I'd have to say Portuguese, although I have barely heard either of them and know perhaps uno/dos/tres word in each.

Have you ever visited Mozambique?
No, but the beaches seem beautiful.

What is, in your opinion, the most beautiful sight in Africa?
Yes

On a scale from 1-10, how much do you like the song "Africa" by Toto?
5/7 perfect score. #blesstherain

Do you believe that aliens were involved in the construction of the Pyramids?

Well, I'm no expert, but Ancient Astronaut Theorists paint a very curious picture that beings of light inspired the Egyptians to create the pyramids to reach the skies (and gave them the exact instructions to perfectly model Orion's Belt with the Pyramids at Giza).

From which angle does the Sphinx look the sexiest?

Trick Question: the Sphinx looks like a majestic beast from every angle.

What is your opinion on Assassins' Creed: Origins?

If I had any gaming system newer than a PS2 I would have bought it in a heartbeat.

What would you have done differently if you were the Allied commander at Gallipoli?

Not gone to Gallipoli

Does Egypt feel like a country that you would call home?

The political climate is not one I would hope to have at home, so that currently makes it rather difficult to use that type of language :(

Would you support a motion to rename Ottawa to Cairo?

Well, Cairo does sound much more exotic, and dreams up visions of grandeur that I think Ottawa fails to do for anyone but the politically inclined.

n Reasons to Write for a Newspaper that Doesn't Steal Money from Students

- You're not stealing money from students
- People don't complain to you about stealing their money every term.
- People actually read your newspaper
- People actually know you're a newspaper and not an entity made up to steal money
- You can write interesting articles
- You get to write articles about things people care about
- You don't write about the 18th gender equality event that's occurring this week
- You learn to manage finances
- You make do with a quality publication at a fraction of the cost
- You don't need to sell out to weed companies for poorly designed ads
- You're surrounded by people that are genuinely interested in what they write
- You don't get emailed every weekend about events that no other reporter wants to cover
- You actually get taken off the mailing list when you request it
- Your office is in a more convenient and accessible location
- You represent an actual, 100% real faculty
- You don't have to pretend to know what racialized actually means
- You can joke about any topic and not worry about people getting offended

Marijuana Peddlers Stand in Solidarity with Striking Canada Post Workers



MARY JANE
SPOKESWOMAN, DRUG DEALERS ANONYMOUS

Since October 22nd, Canada Post workers have been on rotating strikes throughout Canada. According to Canada Post, the strikes, "have touched virtually every Canada Post facility and every Canadian address so far." This has led to an estimated 30-day backlog, which means letters and packages will face long delays.

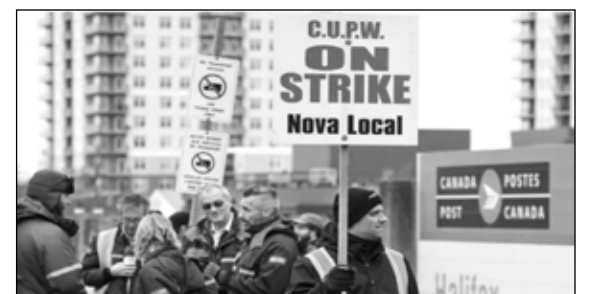
Unfortunately for marijuana users, this also means that any weed purchased online will arrive late. The Distraught Union of Marijuana Peddlers (DUMP) has stepped in to tide the demand during this difficult time. They have chosen to stand in solidarity with Canada

Post workers as negotiations continue.

"We are ready to help and we fully support the postal union's decision to fight against the bureaucracy, man!" said Lil' Dippy, the head of DUMP, at a press conference in an alleyway.

"Don't be alarmed if your package is late, folks! If you need to get your fix, come find us at the corner of 4th and Janson. Nobody else gives you the high you need at rock bottom prices! Make sure you aren't tailed by the po po though! They mustn't find out where we operate."

Despite the organization's occasional run-ins with the law, DUMP has reported a surge in sales of nearly 90% since the start of the postal strike, and Wall Street investors predict that number to only get



Andrew Vaughan/Canadian Press under Fair Use

Canada Post workers striking in Halifax

higher and higher in the coming weeks. It may be a tumultuous time for the Canadian postal industry, but the weed industry will continue to be just fine, thanks to the hard work and dedication of young men like Lil' Dippy in alleyways across the nation.

The Tin Soldier is not a forum for thought-provoking and informative articles, and has no association whatsoever with the Society of the Travelling Pants. Views expressed in The Tin Soldier are not those of the authors and do not necessarily reflect the opinions of Chuck Norris.

The Tin Soldier encourages submissions from students, faculty and members of the Non-Existent Action Committee. Submissions should reflect the concerns and intellectual standards of the Society of the Travelling Pants in general. The author's name and phone number should be included, except if they are non-existent. This information may or may not be posted on our website.

All submissions, unless otherwise stated, become the property of The Tin Soldier, which reserves the right to refuse publication of material which it deems too suitable. However we're so desperate for content that we'll likely take it (but we might just send it to Imprint). The Tin Soldier also reserves the right to edit grammar, spelling and text that do not meet university standards, but engineers suck at english so it's a low standard.

Mail should be addressed to PJ Katie, c/o YTV Canada, P.O.Box 7500, Paris, Ontario, N2L 3W7. We do not currently have a phone, however you may redirect all inquiries to Kickoff's, as we're likely there. We don't have a fax number as no one uses faxes anymore.

Exclusive! Rare GIF Showing PAC Expansion Progress

You Won't Believe What Happens at the 3 Second Mark!



UW Federation of Students under Fair Use

Prof. Personalities - Mr. Goose



THE WONDERFUL
DR. POL

PROF PERSONALITIES

How long have you been teaching at Waterloo?

Honk, honk honk....honk honk honk!
Hahaha. Honk Honk.

What courses do you teach?

Hooonk 123, Honk honk 402, H-h-honk 771. Honk honk - honk honk honk honk.

Favourite course to teach?

Honk, honk honk. Honk honk honk honk; honkhonkhonk honck honk honk.

How'd you end up as a lecturer?

honk honk. Honk honk honk.

Favourite part of being a lecturer?

honk honk. Honk honk honk.

Hardest part?

Honk honk honk.Honk, honk honk.

Hahahaha. Honk honk honk honk; honkhonkhonk honck honk honk. Honk, honk honk....honk honk honk! Hahaha. Honk Honk.honk honk honk honk honk honk honk honk honk honk honk honk honk honk honk hhhhhhonkkkkk.

If you weren't a lecturer what would you be doing?

honk honk. Honk honk honk. Honk, honk honk. Hahahaha. Honk honk honk honk; honkhonkhonk honck honk honk. Honk, honk honk....honk honk honk! Hahaha. Honk Honk.

Waterloo Opens Office for One Legged Pirate Students



COLOUR-NEUTRAL
BEARD OF THE
HIGH SEAS

The recent FEDS meeting has been heralded as an incredible success, as students unanimously voted to pass a motion opening up an office for students who are one-legged pirates or come from a one legged pirate background.

At the meeting, the FEDS President made a speech on the motion, saying "At the University of Waterloo, it is important that we are a welcoming and diverse community. Pirates represent a marginalized community, who have always been discriminated against by both the law and society. And we believe it's very important to tackle the intersection of anti-piracy with ableism and legalism." His statement was met by a standing ovation.

Undercover naval officers, who were present at the meeting, spoke out against the service, but a majority of students present were unanimous in their support. Edward Teach, of the UW Pirate's Association, gave a rousing speech in defense of the service.

"If you don't support this service, you're bigoted," he said, flourishing his hook menacingly.

The motion was passed unanimously, with students taking to the Bombshelter afterwards to drink and sing shanties, but in a cultural appropriative manner.

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

Affirmative Admissions Plan to be Implemented for Students from Underperforming High Schools

**GIB ME DEGREE PLS
GRADE 12 GRIMSBY SS**

Yesterday the University of Waterloo announced that, as part of a new equity and diversity initiative, it will give students from underperforming schools priority admittance.

The new affirmative admissions plan will give students from 'unprivileged' schools with high grade inflation a better chance of getting into Waterloo. The "privileged" schools, which displayed a trend of student success, will now have an even higher standard for their students to meet so that more students from schools that are under performing to have the chance to attend Waterloo.

Proposals for entrance exams were shot

down by Chancellor Canad Ian Goosington, who scolded administration for suggesting "such a preposterous idea", reminding everyone that Einstein believed that you cannot "judge a fish by its ability to climb a tree". He repeated the quote 10 times and vetoed any motion to create entrance exams.

"Why don't you understand that not everyone is graded equally?" he stated. "We need to give these struggling schools a chance!"

"Those kids who go to the low inflation schools are way too privileged," stated Timothy Greene, an eleventh grade student from Grimsby Secondary School. "I was from a school ranking high on the grade-inflation list and I'm doing just fine. I (barely) passed all my courses last term. I

don't go to a 'hard school' per se, but that doesn't mean I don't work hard right?"

This decision was done largely due to public outcries and a total of 100 million dollars worth of lawsuits from various private schools with a notoriously high ranking on the inflation list. In addition, many parents whose children were rejected from Waterloo also spoke out about how the university purposely rejected their children just because they go to the so-called high-ranking schools.

"This is unfair!" stated A. Parent. "My child received a 100 average, won 10 subject awards, was the valedictorian of the private school on the list, and I know he was hard-working, so I can't believe that the Waterloo University has the audacity to tell me my son didn't do enough! I was so

happy to hear that my son will be admitted next year, after completing 3 additional months at the high school down the road."

However, there were some opposition, mainly from students from the low inflation schools. One student stated that this would probably result in more students failing out of university, because some schools heavily inflate their marks for the sake of getting their students into university at the cost of learning.

"I don't think this is a good idea," stated a student from a low inflation school, who's identity has been concealed to protect her safety. "This would not address the grade-inflation problem, but only enhance it, since every school would do this once they know about it."

The Democratic People's Paper of Waterloo

These articles are OFFICIAL PARTY COMMUNIQUÉ. They contain the absolute truth and nothing but the absolute truth. It is imperative that all citizens read, understand, and embrace the topics and beliefs conveyed.

Phoenix Pay a Pillar in Modern-Day Socialism

Like his father before him, Comrade Trudeau has earned praise from leftist circles by taking bold steps to usher in an utopian communist society. The Phoenix Pay systems is an innovative pilot project, which began in 2010 under the auspices of Comrade Harper, to automate and centralize the pay system of Canada's public service. It has represented a major milestone in the move towards a moneyless society from Canadian society; gradually eliminate the need for pay-cheques for public servants by simply not paying them

This is a shining example of Comrade Marx's idiom, "From each according to his need, to each according to his ability", since in a moneyless stateless society, nobody will need pay-cheques and the state

will not need to exist. All political parties have been unanimous in their support for Comrade Trudeau's project; in a speech in Parliament, Mr. Scheer applauded the measure as a "cost-cutting measurement" and a "bold shift towards small government", while Comrade Singh issued a statement praising the policy for "decreasing social and economic inequity by lowering the income gap between public servants and the unemployed".

The only dissenting voice was Bernier of the People's Party, who declared that, "For the government to interfere with the government's pay system is an overstep of government influence. The People's Party would allow the free market to pay government employees instead."

COMRADES, BEWARE!!!

Comrades!

The imperialist Trotskyist-fascist capitalist system, spearheaded by AMERICA, has long tried to interfere with the peace and equality of our DEMOCRATIC WORKER'S REPUBLIC. Comrades, we stand vigilante against their weapons which are: CAPITALISM, ANARCHISM, DEMOCRACY, FEMINISM, CONSUMERISM, TRADE UNIONISM, TROTSKYISM, MAOISM, and FOOD.

Now, there is a NEW WEAPON we must be wary of.

COMMUNISM!

Communism is the idea that all men are equal and therefore deserve an equal share of the wealth. The idea is patently absurd; just as no two men can occupy the same

place in a breadline, so can they never occupy the same place in society. In our GLO-RIOUS DEMOCRATIC WORKER'S REPUBLIC, where all men are EQUAL and FREE, we can trust in the guidance of our BELOVED LEADER to usher us into WORKER'S REPUBLIC. BE FAITHFUL TO THE BELOVED LEADER.

MR. GOOSE IS WATCHING.



一个五毛的想法 50 Pennies for Your Thoughts



**YOUR FRIENDLY
NEIGHBOURHOOD
WU-MAO**

在1989年的时候，胆小的美国黑客偷入经了我们国家的电脑系统。我们的科学家花了几十年的成就就在一个刹那就被他们偷了。这是很可惜的一个时间，让我们感觉美国人尊重我们的法陆和功夫。

如果美国人真的有他们说的那么强大，他们为什么会要偷我们的知识？他们的媒体都在讲中华人民共和国的水平没有他们的厉害，说我们的国家没有他们的发展，但是他们的空军现在在用的战斗机都用我们人民的设计，我们人民的科学，我们人民的功劳。

对，我在说的是他们的新的F-22和F-35战斗机。特朗普每天在显摆这些东西，还实则卖给别的国家。你能想象得到吗？是不是你听说最资本家风格的想法？他们敢歧视我们的想法，说他们是世界上老大。一个老大该干的是表现给大家真正的礼貌。

如果他们就这样干也就是一回事，反正痴人痴福，让后确实，我们也只能说我们是这一次的痴人。我们应该老早就想到他们那种人

不会有一点羞耻。我们也已经努力的进步我们系统的安全设备，来避免他们下次试着干一样的货。如果只是这样子的事情，我们就会从这个过程学习然后进步。

我有意见的是他们还敢说我们的新一代的战斗机使用从他们偷来的技术设计的。他们他妈的鬼子还逮捕了几个华裔美国人，说他们是我们的间谍。我们又不认识这些人，但是我们没法接受在21实际还会有国家用他们自己的人单座替罪羊来欺骗我们的世界。他们的领导会死皮赖脸。他们的媒体爱上了这些想法。他们国家的人还照样把我们看成敌人。没有人敢相信我们的国；我觉得这是很可惜的一个现象。

同志们，朋友们，我就希望你们都可以张开你们的眼睛。美国不是你们的朋友，美国是为为什么现在的世界又怎么多的问题，这么多的苦。如果他们能对我们的人民做出这么违法，无礼貌的行动，你们应该意识到他们的性格然后准备好办法来保护你们自己。一个没道理的国家是一个很危险的情况。

For Release for Western Audiences:

In 1989, timid American hackers stole into the computer systems of our country. Our scientists have spent decades of success in stealing them. This is a pity, let us feel that Americans do not respect our land and kung fu.

If Americans really are as powerful as they say, why do they want to steal our knowledge? Their media are talking about the level of the Chinese people without their power, saying that our country does not have their development, but the fighters they are using now use the design of our people, the science of our people, and the merits of our people.

Yes, I am talking about their new F-22 and F-35 fighters. Trump is showing these things every day, but he is actually selling it to other countries. Can you imagine it? Is it the most capitalist style idea you have heard? They dare to discriminate against our ideas and say they are the world's bosses. What a boss should do is to show everyone real courtesy.

If they do this, it is one thing, anyway, idiots are so obsessed, let's be true, we can only say that we are this idiot. We should have long thought that people

like them would not be a bit shameful. We have also worked hard to improve the safety equipment of our system to avoid the next time they try to do the same. If it is just such a thing, we will learn from this process and then progress.

What I have opinion is that they dare to say that our new generation of fighters are designed using technology stolen from them. Their fucking devils also arrested several Chinese Americans and said they were our spies. We don't know these people, but we can't accept that in the 21st there will be countries that use their own people to sin for the world to deceive us. Their leadership will be dead. Their media fell in love with these ideas. People in their country still see us as enemies. No one can believe in our country; I think this is a pity.

Comrades, friends, I hope that you can all open your eyes. The United States is not your friend. The United States is why there are so many problems in the world today, so much suffering. If they can do such illegal and rude actions against our people, you should be aware of their character and then be prepared to protect yourself. An unreasonable country is a very dangerous situation.

ECE Faculty Researches Vacuum Technologies to Enable First Years to Suck Harder



THAD THACKABURRY
1A ELECTRICAL AND
COMPUTER ECE

One unnamed ECE Faculty executive, Sir Simarjeet Saini, Sr. said Sunday surely some senior students shall savor the chance to do research with new vacuum cleaners to ensure that first years will continue to suck harder. "It used to just be failing physics, which I don't understand that they don't understand why they don't understand why I don't understand

how they could be so bad at physics. Not only did we not teach them, but we also had mandatory quizzes which the whole class failed, yet they still failed the midterm. However, the times are changing."

Professor Paxton Peterson, PhD, P. Eng pointedly ponders reverting back to passing only one student a term "I remember the good old days when the class average could be 13% and they'd celebrate that someone would graduate, now they're so picky about how awful they have to be."

Whether it's skipping a whole class with no practical assignments, and then

whining about a 55% average for having to do the same as a math 135 assignment in only four months, collectively having all-nighter hackathons to deal with marmoset test cases changing in real time, or cheating on an ethics course, the new ECE classes are certainly sucking a lot harder. Alumni and writer Westley Williamson wrestles with the possibility of the new ECE classes being able to keep sucking more. "While we doubt this year of engineers will be able to control the new ION trains - in fact, we doubt that they can do anything - the next years will maintain the age old tradition of sucking harder."

New speculation into the possibilities involve the first year class being so dense they form a singularity, collectively doing all assignments and exams as a whole class, requesting that they express all the communications elective in the form of copying Wikipedia pages, and complaining that they have to write tests after paying all of tuition. The new vacuum technology is still an open field and will provide more extensive context on how to ensure first years can continue to suck as badly as they do.

In other news, to teach recursion, ECE's full name is now "Electrical and Computer ECE".

Curriculum Updates

Digital Circuits to Now Accomodate Non-Binary Components

In a bold new move, the ECE curriculum is now redesigning their digital circuits course to accommodate nontraditional components. The first and foremost change is that digital circuits is now non-binary. Student Phoenix Write writes "It's about time to acknowledge that you can't just assume every component is either a 0 or a 1, and in fact there's an infinite spectrum of numbers in between. Accommodating components of all types is acceptable to ensure Waterloo Engineering is safe and inclusive to every component, and as the leading engineering school in Canada, we take great pride in ensuring we lead all forms of social change."

While students expressed concern over the binary numeric system having physical limitations when it comes

to accommodating other numbers in digital circuits, newspapers applauded this daring act of social acceptance. "While trolls insist that the only numbers in digital computers are 0 and 1, their argument falls short when you notice there's also a j on the keyboard!" To ensure all numbers will be accommodated in this radical new curriculum, analog components will now be added to the new ECE 124 curriculum; instead of only teaching D, T and J-K Flipflops, all students will be taught flipflops from A to ZZ in this new inclusive policy.

This exciting new curriculum is sure to inspire many to praise Waterloo's innovation, as we continue to be the Waterloo of the North.

Nanotechnology Engineering Rebranded as "Size Positive" Technology Engineering

The University of Waterloo has made good on its pledge to be more welcoming and positive towards all body types by rebranding "Nanotechnology Engineering" as "Technology Engineering". This move was hailed as innovative and "a step in the right direction" by both students and staff.

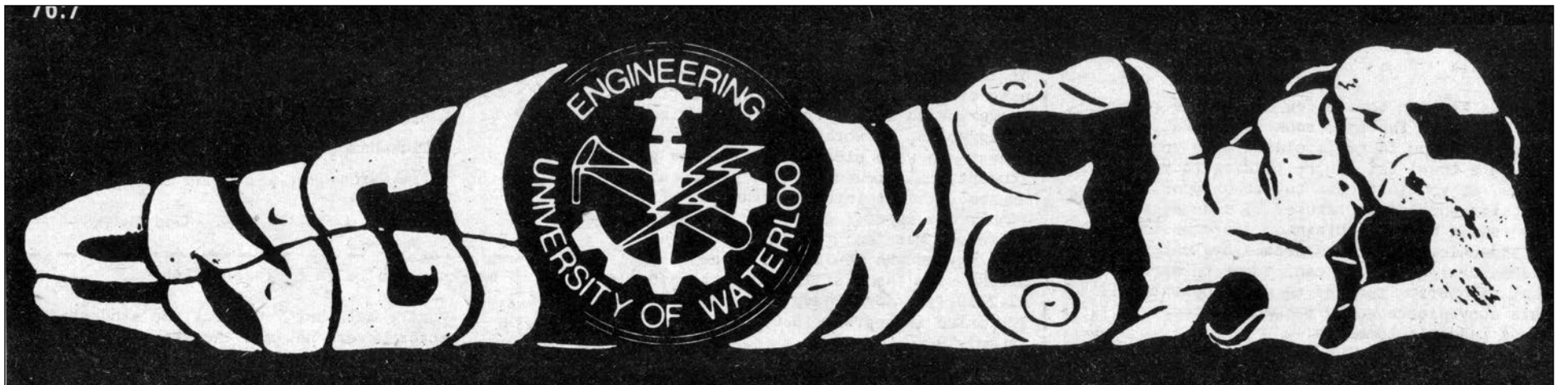
"The university can't claim to be a body positive space while simultaneously devoting an entire stream of engineering only to nano-sized bodies," said Pang Gongcheng, a 4A Technology Engineer. "Calling a program 'Nano-Engineering' sends a clear message to macromolecules, agglomerates and bulk materials that they are unwelcome and undervalued."

"As a university and as a community, it is important that we take proactive measures to combat body-shaming,"

Gongcheng continued. "It has been scientifically demonstrated that size-based discrimination increases stress, strain and fatigue."

From here on, Technology Engineering students will be taught to be body positive and inclusive by welcoming particulates of all shapes and sizes into their bodies. "This is a really exciting change!" gushed You Aizheng, another Technology Engineering student. "Before, we were only able to test the effects of carcinogenic carbon nanotubes. This move will help give Technology Engineering students experience with a diverse array of cancers!"

The move comes after continual complaints that the University of Waterloo had failed to create a safe space for all bodies.



Build a Wall to Keep the Geese Out



ORANGE MAN WANNABE

And we will get the geese to pay for it. To make it easy for the geese, we will accept geese excrement as a form of payment, since we can use it to help fuel UWaterloo.

It has been noticed that geese have been taking up our precious green space and never seem to leave it. These geese did not get a permit to come here. How dare they have the audacity to take away valuable university space from our students.

For the construction, we will hire Bombardier to help build the wall, as they make airplanes; airplanes fly, geese fly, so let them design and build the wall. Don't worry, even though the trains aren't coming, the wall will come up in a matter

of days. In addition, the civil, environment, and geological engineering classes will collaborate and make sure the construction goes smoothly without protest. Also, consulting with the environment students will make sure that this wall will be eco-friendly, unlike previous walls in Mexico and China. Remember, we need to save the environment as well.

The design of the wall will prevent geese from going over or under the wall. The wall will go around our campus and it will be 30 ft tall, such that geese can't climb over.

In addition, we have highly trained campus wall police, consisting of Humans vs. Zombies champions from previous terms, to guard the wall and keep the geese out. This will also create new campus jobs as well, and the pay will be great too, just like how this university will be great again. In addition, there will be discussion on how this will create more co-op jobs for

students other than Math and Engineering students (although they can do this job as well because we are inclusive of all students. I don't see degrees; everyone is a student and only a student (unless you are in CFM - what in the world is CFM?)).

Ground-breaking for the wall will start sometime soon - once it's passed and gets approved. We'll get the money. I'm the best at getting the money. We'll make Kathleen Wynne pay for the wall. I know she's gone but we can still get her. I never lie. It's true. It's so true. But if we don't get Kathy then I'm sure we'll get Andrea Horwath to pay for it. She loves giving out money. She's the best at throwing away money. Anyway, all that matters is that I'll get it. And Waterloo will be great. No more U of T. It's going to be all about Waterloo. MIT of the North, that's what they say...but we're going to make it so MIT is the Waterloo of the South. Am I right?

NVIDIA Gives Job Offer to Every ECE Student

continued from Page 4

Certain concerns were raised by ECE professors and advisers about having such a large proportion of students working at the same company, all in a similar environment. They warn that it will heavily restrict the breadth of knowledge that the engineering program would hope to offer their students. When the point was made at a special ECE-only info session to the NVIDIA representative, they laughed it off. "The students will still be exposed to a wide breadth of knowledge as NVIDIA is now at the center of all computing fields", and then added: "NVIDIA is a longtime friend of the Waterloo ECE program and of course we hope that our relationships can be only mutually beneficial."

New Venture Capital Backed Company Poised to Revolutionize the World with Groundbreaking Idea

THE NEXT BILL GATES 1A CALI OR BUST

According to Nestle's law, if a company can profit off individuals in their time of need, it will profit off individuals in their time of need. And of course, when there's a gap in the market, there's a company to fill it. A new Chinese start-up reinforced these concepts by proof of profit, despite concerns about increasing foreign presence in American markets.

The week leading up to Thanksgiving weekend in the U.S saw northern California battling the worst wildfire ever encoun-

tered in its history. Smoke from these wildfires led to spikes in the Air Quality Index (AQI) in some cities. AQI measures particulate matter in the air - readings above 100 mean the air is unhealthy for children, the elderly and/or individuals with heart or lung disease. When readings go beyond 150, it is considered to be unhealthy for everyone.

Oh, if only there were a way to decrease the effect of climate change denial on the lives of millions of people. But in the age of mobile devices, you know the saying - "there's an app for that!"

Enter Bottlr.ai, a startup based in Lan-

zhou, China which uses machine learning and trained neural nets to optimally source local air to bottle and sell to consumers. They ambitiously guarantee the air is cruelty free, 100% vegan, non-GMO, fair trade, gluten-free, organic, low carb, fat-free, and not from concentrate.

Lanzhou has an AQI of 158 - breathing here is probably like smoking a cigarette once in a week or two. But it is nothing when compared to some cities in California which have been reading an AQI of 300 in recent days.

"We just want to make the world a better place" says CEO and co-founder Shui Li.

"The air is much better here - we want to provide it to less fortunate regions. We're conscious of the global effort to help with the effects of polluting the environment".

Currently consumers can purchase the plastic product for \$10 USD retail. The company is doing so well that top venture capital firms have drafted competitive funding offers and rumours of acquisition have already begun circulating as Amazon CEO Jeff Bezos is posed to meet with the Bottlr.ai team next week.

Daylight Savings Time Causes Death Rate to Double

RESEARCHER-IN-CHIEF 6A FOCUS GROUP

According to latest research done by an underground team of scientists, it has emerged that Daylight Savings Time leads to an increase in deaths and the shortening of lifespan for human beings.

A reporter at the Tin Soldier had the honour of discussing these results with one of the lead researchers of the team, who preferred being kept anonymous to protect themselves from intellectual property theft.

"From [the] data we've dug up, we find a strong correlation between increase in death rates and DST. This correlation exists since the year DST was introduced (1916). Prior to 1916, with the data we have, we see no such trend" says the researcher. For example, the data for 2018 shows the average hourly death rate doubling between 2 to 3 a.m. on the 4th of November.

"Many people have been complaining about missing an hour from one of their days every year since 1916. We have letters of complaints to the Ministry of Time

Management to prove this," another researcher contributed. This year, the ministry saw a huge influx in letters on March 11, all of them complaining about a lost hour (2am - 3am). "If you consider the average life span of a human being to be 80 years, then for every human born since 1916, they've lost 80 hours of their life, which amounts to a little over 3 days," says the first researcher. "With the amount of value that time has, for 3 days of your life to just go missing is something serious to worry about."

"Some skeptics say that our findings are baseless. Apparently, just because we move an hour behind, it doesn't mean that death rates double, nor is an hour missing if we move ahead. This disagreement is based on flawed logic used by our opponents to undermine us. It's said, each moment is unique. If every moment is different, how can you consider the hours to be the same?" the researchers argue.

Well, that sure is something to ponder.

How to Speak Like an Engineering Student



Want to speak like one of the smartest student groups on campus? Engspeak is a difficult language to master. However, do not fear! This simple guide will bring you up to speed in no time.

Understand the common tongue

The topics that engineers talk about fall into 5 major categories:

1. Technology
2. Anime
3. Video Games
4. Jobs
5. Courses

Stay up-to-date with these "trending"

topics, and you'll be considered a local.

Throw in some fancy phrases

The true test of whether you fit in depends on your use of fancy catch-phrases. For example, research shows that the most commonly used catch phrases when courses are discussed are "take the L" and "look forward to the curve". Use these and they won't even suspect you're an outsider.

Do not yield

We take our school's beliefs seriously. Like a warrior, we don't yield easily.

This translated into layman's terms means - we never accept defeat in an argument.

We know that we are always right.

So, how can you do the same? For starters, no matter how ill-constructed your rea-

soning is, just don't give in. Also, remember - raising your voice to display your enthusiasm and to force your beliefs will be your strongest weapon.

There's no mansplaining. We explain.

Is it considered mansplaining if women do it too?

As future engineers, we believe in no discrimination. All of us take part in a healthy amount of advising.

Since we know we are always right, why not use this skill by advising everyone around us? There will be people who will oppose you with what they consider to be "sound reasoning" and "personal beliefs". Beware of these people who have gone astray. Fortunately, we have a strategy in place to deal with them (see the next point).

Do not listen

The most lethal weapon in an engineer-

ing student's possession.

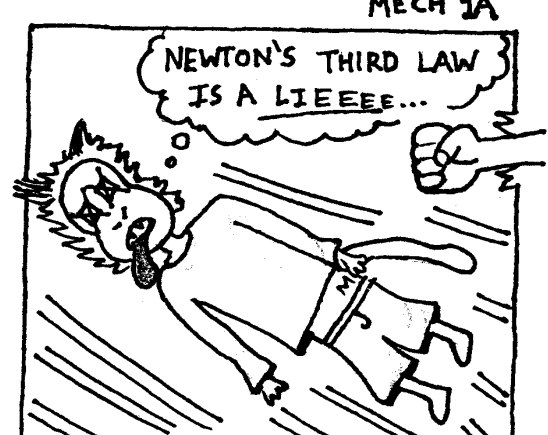
The best way to counter your opponents is to never let them speak.

This works in two-fold - not only does it not allow any opposing beliefs to find their way into the discussion, it also forces your beliefs on anyone participating in the discussion.

With these points in mind, you may proceed to successfully act like you are one among us.

Good Luck!

CABBAGE



By: KAARU
MECH 1A



David Brush Wins F2018 Friend of the Society Award!

Examining This Professor's Impact on Mental Health

THOMAS DEDINSKY
VP ACADAMIC

The Friend of the Society Award is awarded to a faculty/staff member every semester for their contributions to promoting the mental health of their students. They are selected through a nomination period by a committee composed of the VP Academic 'A', VP Student Life 'B', and three at large council elected members. The winning person's nomination(s) must indicate that they have contributed significantly to at least one of the following.

1. Advocating on behalf of students to eliminate elements that have a negative effect on student mental health
2. Showing a long-term commitment and vested interest to the betterment of student mental health
3. Taking action to directly improve the mental health of students

This award is brand-new, created this year with three initial recipients; David Bell, Bill Owen, and Gordon Stuble. Now that the award has been fully ratified, we're pleased to announce that the first student-voted winner of this award is David Brush. Multiple students from his 2B Environmental, 4A Geological, and 4A Environmental Engineering classes noted how he took action to help the state of mental health among students by speaking openly about mental health, distributing mental health resources, and making an effort to create a comforting environment for his students.

He aims to eliminate unnecessary stress for students and help make students feel represented and empowered, teaching and interacting with students in bigger groups as well as giving additional one-on-one support. He cares and listens to students' concerns, and tries to better himself and his department. If you want to hear more about his efforts to better his students' mental health, read the interview below to find out more!

When did you decide to work at Waterloo?

David Brush initially started here as a student, part of the Civil class of 1992. He married while in third year, making Waterloo his home and never really leaving again. He got his Masters and PhD at Waterloo, and a first full-time job.

After working for 9 years as the Associate Director of First Year Engineering, he went to the Dubai for three terms working under the Civil department. He was then able to get a lecturer position in Civil, and has been lecturing at UW since. This past January he became the Associate Chair.

What is your favourite part about interacting with students?

Hearing the stories of his students is something Professor Brush often enjoys. Usually it's related to a course, but often the struggles from that lead to someone's background as you go down the iceberg. "I think if we can tell each other our stories, then that helps us to be willing to share the heart of things," he says. When talking about students, he believes it is important to communicate that academic performance, which students are often sorted by, is not the only value a student has. "I'm not just a student number, I'm a person."

Why is mental health important to you? Why are students' mental health important?

Mental health, in Professor Brush's opinion, is as or even more important than physical health. Often times people don't recognize mental health issues as real, and often university is a strenuous time. "You're being stressed in new ways, sometimes not healthy ways, beyond the threshold you've had to manage before."

Subtle actions, like pausing and making a note of accessibility and mental health when going through the syllabus, to being more open about talking with mental health, can be a positive influence and help build the class-professor relationship. That way when students feel like they need help, they can feel like he's approachable and they can talk with him. "Things happen so fast here, there's no time to get help," he says, referring to the often packed and fast-paced schedules of undergrads.

One strength students said you have is your strong approach with dealing with mental health in a crisis. In that type of scenario, what do you do differently when aiding students?

Naturally more attention happens in this type of scenario, Professor Brush says. His role isn't much different than usual, as he usually acts as a good contact and is approachable, but he acts more as



University of Waterloo Department of Civil and Environmental Engineering under Fair Use

Professor David Brush, winner of the F2018 Friend of the Society Award.

a figurehead. A good example is with the Environmental Engineering class of Winter 2018 after the passing of a student in the class. He communicated what the head of counselling services says regarding the message the family wanted to say, took note of upcoming deadlines and talked with the professors of those courses about accommodating them, and communicated information about the university getting a bus together for a visitation in Toronto.

He also wanted to give note to many of the people who care about mental health that students often don't see. It's high in the president's and the dean's agendas, and other people such as Peter Douglas and Tom Rutta are people who give him the tools necessary to give support to his students. "[Mental health support is] coming from everywhere, so sometimes you're just a messenger."

Given the opportunity, how would you like others to improve how we deal with mental health?

"[The goal] would be to try to make everyone in contact with students more sensitive and aware of mental health," Professor Brush says. He believes that ideally professors would get some sort of training on how to deal with it better, as hiring more personal counsellors to

decrease wait times is a budget issue. He's glad that more people are spending time thinking about how to change the system on the campus-wide level or the faculty. "It's not that you hire one person to do it, it's that everybody becomes more aware."

What message would you like to send to students reading this article?

The most important goal for students, Professor Brush felt, was for them to find someone to tell their story to. "Sometimes that needs to be a staff person either in counselling or your department or instructor," he emphasizes. Making sure that you have people you can approach and trust is important, so you can take care of your mental health well. He encourages people to create a healthy peer group, as the benefits of having people to talk to where they know your story is greater than the risk of putting yourself out there, even if it seems hard to do.

If you have any questions about the Friend of the Society Award, please feel free to reach out to Thomas Dedinsky at vpacademic@engsoc.uwaterloo.ca. If you would like to be a student at large position for the Friend of the Society Award committee, come to EngSoc Council Meeting 1 next school term!



University of Waterloo Department of Civil and Environmental Engineering under Fair Use

Professor James Craig, winner of the F2018 Teaching Excellence Award.



WIN CASH
EVERY
WEDNESDAY

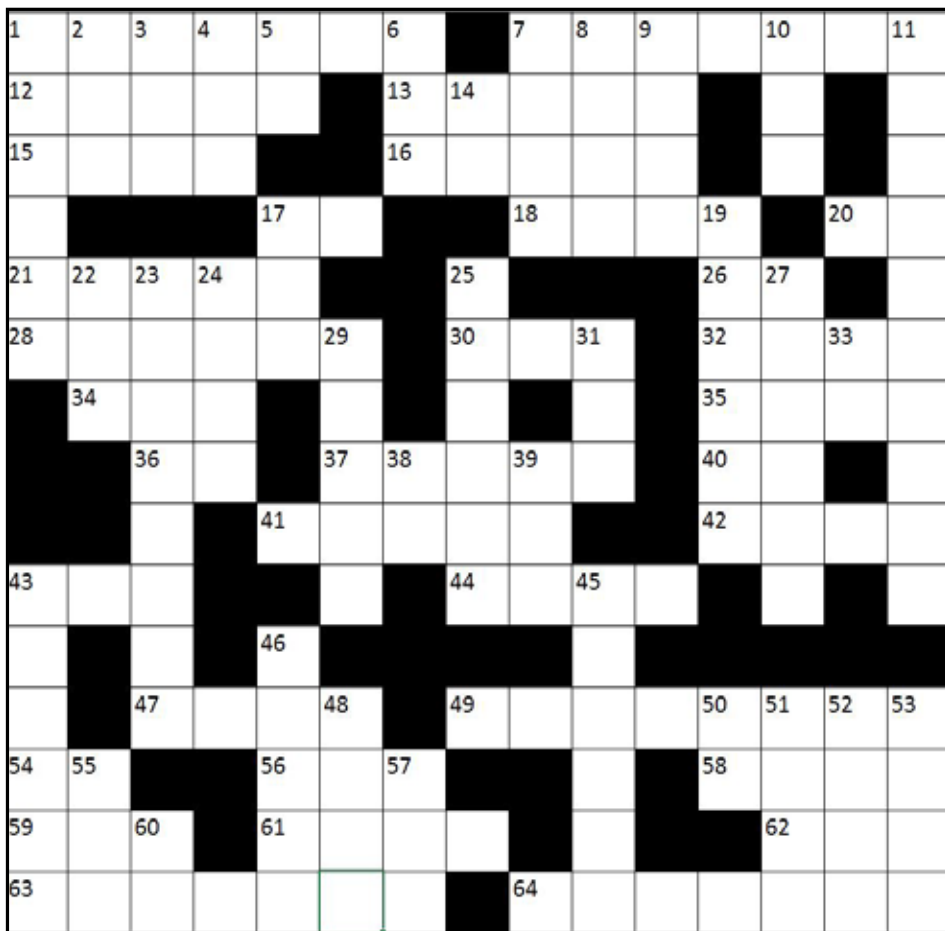


Join our Le Shin Swah Table Tennis
and Foosball League.
Register at www.leshinswah.com

The Iron Crossword

Metal Imprinted on All 4 Corners

STONE HE
2A MECHANICAL



ACROSS

- 1. Takes around 4 dollars per student a term
- 7. One of the three newspapers on campus
- 12. Metallica's fingerstyle bassist.
- 13. Musical symbol (abbrev) to go faster.
- 15. See clue 8 down from the last issue
- 16. FINLAND!!!
- 17. Used to be used in batteries
- 18. Whenever I have to do something more than what I'm asked.
- 20. Mendeleev predicted this element 2 decades before it was discovered.
- 21. Mountain range that splits Europe and Asia
- 26. _ Maiden
- 28. Raining blood.
- 30. Something that Van Gogh didn't have.
- 32. In dogs and chili peppers
- 34. Jimi Hendrix hair style.
- 35. Last 2 syllables of Saturn's father.
- 36. Denmark Abbreviation
- 37. Former capital of the Duchy of Lorraine.

- 40. Cloud classification symbol for a cloud resembling locks of hair.
- 41. Deals with paperwork and document control.
- 42. Environmental Engineering abbrv
- 43. Defunct major US airline, now part of American Airlines.
- 44. Most plants' starting point.
- 47. Duchess of Cambridge.
- 49. Naturally occurring fibres, that is considered hazardous to health.
- 54. Address for each computing device connected to a network.
- 56. "We _" opening from One Piece
- 58. Subject to a famous Beatle's song.
- 59. Dark-coloured and viscous liquid used to preserve wooden ships.
- 61. Something I need to pay for my apartment.
- 62. _ Soldier.
- 63. To leave something on something by pressing on it.
- 64. End this crossword like you started it.

DOWN

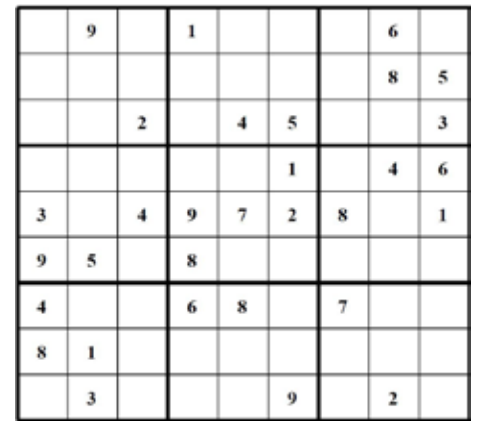
- 1. Son of Daedalus that flew too close to the sun.
- 2. World Series is hosted by this.
- 3. Homonym to a famous constant
- 4. Governs rugby league in England
- 5. Opposite of else
- 6. Callibrated airspeed corrected for density.
- 7. Luxury apartments near East Campus buildings
- 8. Is used to make important announcements.
- 9. Remote control for car lock
- 10. 2 percent of the world's fresh water.
- 11. Guitar known for it's butterscotch colour.
- 14. Chemical name for a common conductor
- 19. Clearing things
- 22. Not online friends (abbrv.)
- 23. Arthur Read is this.
- 24. City in France that has a MEXT approved Japanese supplementary school.
- 17. Official name for list A,B,C, and D electives (abbrv)
- 25. Played with a court and raquet.
- 27. Phenomenon where warm water in the Pacific travels eastwards once in a while.
- 29. Ozzy Osbourne's guitarist.
- 31. Sugar boxer.
- 33. Uses Ode to Joy as their anthem.
- 38. Changing amplitudes.
- 39. Let's go to the Ex.
- 43. French Polynesia's largest island.
- 45. Used to represent something
- 46. Creator of Pong and the Video Computer System.
- 48. Attack on Titan's main protagonist.
- 50. Northern-most University-College on campus. (abbrv)
- 51. Island located where the White and Blue Nile form the main Nile river.
- 52. Wednesday got its name from this.
- 53. Not to be confused with a word that defines a certain type of smell.
- 55. Cooking spray.
- 60. Pretending and acting out someone (abbrv)

Sudoku

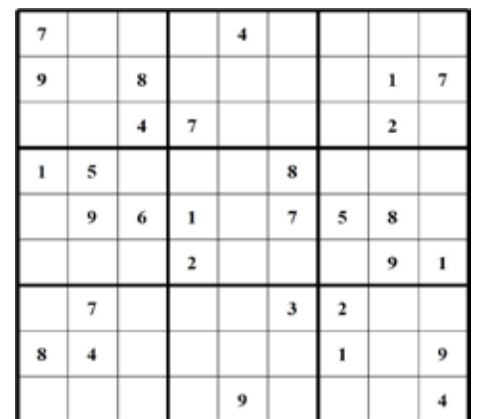
#2018-15

RAFIQ HABIB
EDITOR-IN-CHIEF

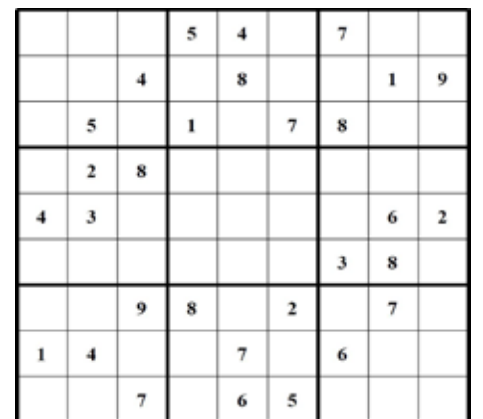
Easy



Medium

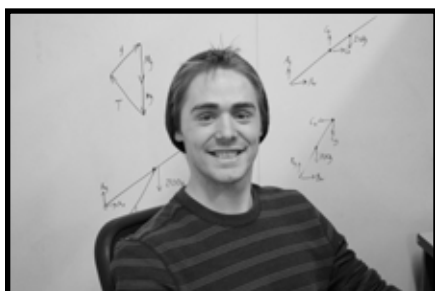


Hard

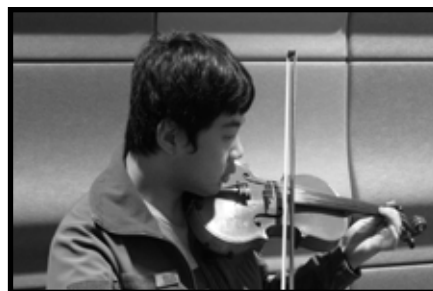


Solutions for previous crosswords can be found on *The Iron Warrior's* website at iwarrior.uwaterloo.ca/distractions.

"What is Love?"



"Baby don't..."
Karl Jakelski, 4T Civil



"...hurt me..."
Adrianus Sukuramsyah, 3B Nanotechnology



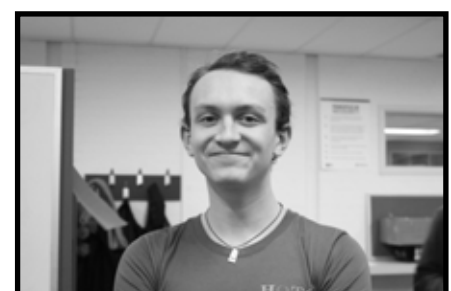
"...don't hurt me..."
Kimathi Kaai, 2A Mechatronics



"...no more."
Maya Bishop and Catherine Cai, 1A ECE



"Shrek is love."
Reno Natalizio, 2B Systems Design



"Having fun."
Turer Winkler, 1A Mechatronics