im print VOLUME 41 ISSUE No. 6 July 11, 2018

4

THE FIGHT AGAINST PLASTIC

Students prepare to do battle against one of campus's largest growing problems, one-time use plastic.

5

No money, more problems

Students are finding a hard time finding paid work over unpaid internships and it's hurting them in the long run.



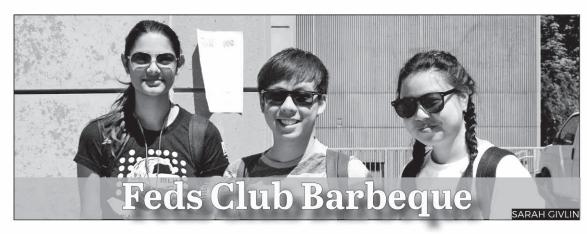
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Victoria Gray **Executive Editor**

The Federation of Students had the barbeque to get students involved in clubs UW offers. Getting people excited about clubs or even creating a new club. Feds also wants people to get involved in volunteering with

Jake Riesenkonig, clubs Manager for Feds, and Rachel Lui, Clubs Assistant, helped set up the Barbeque along with some other Feds volunteers. "Today is all about get-

ting people involved in clubs and Feds." Riesenkonig said. "We also want to raise awareness about our Feds Awards Appreciation din-

Feds Awards is coming up on July 16th 2018. "Feds awards is about giving thanks to our volunteers for the hours they spend on making campus life enjoyable!" Riesenkonig added.

Students learned about the barbeque from the clubs they are involved in, but many more students who are not involved in clubs were welcome and in attendance. The Barbeque was a hope for anyone who didn't know about clubs or Feds to start considering getting involved in the UW community. For anyone who did know about Feds and the clubs at UW it got them inspired to start a new club or even come to the Awards din-

The main source of people coming to the event was passing by and deciding to buy some food.

With everyone being reeled in by the amazing smell of hotdogs and hamburgers on the grill, many students got to learn more about Feds and their upcoming

Taco-bout caring

Sarah Givlin Staff reporter

he Annual Fiesta Raised more than \$50,000 for the Community. Waterloo Region's Tacofest brought two fan favourites, tacos and beer into a fun atmosphere for the community.

On Friday June 22nd, 600 attendees crowded THE MUSEUM in downtown Kitchener. The event had blocked off part of King Street for the Tacofesters.

This Year Tacofest raised \$52,000 which is being donated to Meals on Wheels and other disability services.

"Year after year, we are completely blown away by the support of our community" Rosalind Horne, major gifts and engagement lead at CSC, said.

"We are grateful for our attend-

ees, sponsors, vendors and volunteers who make this event possible, with all proceeds directly supporting our clients."

This event has profited for six years, and has successfully raised over \$190,000 for adults and seniors with disabilities in our com-

Proceeds go toward services that allow those with disabilities to live a full and independent life in the comfort of their home.

Taco venders from 16 local restaurants and 16 Ontario craft brewers had samples donated for

Not only is this event a great way to fund the community but it's also a chance for the vendors to compete for five different awards.

Proof Kitchen + Lounge won the Golden Taco award, The Rich Uncle Tavern for received the People's Taco, Cafe Pyrus won the Vegetarian Victor.

The Best Brew was awarded to North Works Brewing Co. and the Peoples Brew award went to KW Craft Cider.

The Events major sponsors including Heffner Toyota, Your Neighbourhood Credit Union, Brick and Co., Restorations Ltd., and eSentire, supported Tacofest by helping with entertainment, greening and more.

Heffner Toyota ensured safe rides home with the 'Tacomobile'.

Community support connections (CSC) works with the many, volunteers, donors, funders, and community partners to ensure more than 7,500 adults and seniors have the proper disability services they require, including; Meals on Wheels, Transportation, Grocery Shopping, Gentle Exercise, Falls Prevention, Community Dining, Friendly Visiting, Reassurance Calls, Home Help, and Caregiver Support.



Police briefs

Waterloo Regional Police arrested five people in a drug bust in the region and seized almost \$700,000 worth of illegal narcotics and cash.

As part of police's lengthy and ongoing investigation into illegal drug distribution dubbed, Project Variance, three search warrants were issued at five homes on July 5. One on Cedar Street South in Kitchener, a second on Victoria Street South in Kitchener and another Nickolas Crescent in Cambridge. Two other warrant were for trailers on Puddicombe Road in New Hamburg and Prouse Road in Ingersoll.

A sixth warrant was issued for an industrial unit on West Av-

During the search police found a 468 grams of what the suspect is fentanyl or carfentanil with an estimated street value of \$140,000, three kilograms of suspected methamphetamine with an estimated street value of \$240,000, 830 grams of cocaine with an estimated street value of \$83,000, 320 grams of marijuana with an estimated street value of \$1,600, 285 grams of psilocybin with an estimated street value of \$2,850.

Police also seized two Mercedes, two Audi's, two Harley Davidson's, two dirt bikes and more than \$230,000 cash.

'This is a significant seizure by our officers that will undoubtedly have a substantial impact on our community," Bryan Larkin, Chief of Police said. "By focusing on the illegal drug distributors, we are able to disrupt the flow of these deadly drugs before they get into the hands of our children, our friends, our family members and our neighbours. We are facing a serious opioid crisis in our community and to change this we need to go straight to the top, to the people who are making, distributing and profiting from this illegal activity."

Five people were arrested including a 31-year-old Kitchener man who was charged with possession for the purpose of trafficking and conspiracy to traffic a schedule I substance.

A 43-year-old Kitchener man was charged with ten counts of possession for the purpose of trafficking, two counts of possession of a controlled substance and conspiracy to traffic a schedule I substance.

A 36-year-old Kitchener woman was charged with ten counts of possession for the purpose of trafficking, two counts of possession of a controlled substance and conspiracy to traffic a schedule I substance.

A 33-year-old Cambridge man was charged with possession of a controlled substance, conspiracy to traffic a schedule I substance and a 30-year-old Kitchener man was charged with three counts of possession for the purpose of trafficking and conspiracy to traffic a schedule I substance.

The investigation is ongoing. Anyone with information contact police at 519-570-9777 or Crime Stoppers, 1-800-222-8477.

55,000 came out to enjoy Canada Day

Charlotte Hings Staff Reporter

n Jul. 1st, the University of Waterloo and the Federation of Students hosted their 34th annual Canada Day celebration at Columbia Lake Field. The celebration offered diverse activities for people of all ages. Despite the intense heat, more than 55,000 people came out to enjoy the festivities, food and music.

Throughout the event, various student and community groups such as UWaterloo Sustainability, UW Social Development Lab, and Laurel Creek Citizen's Working Group, greeted event attendees at their booths handing out free items, applying temporary Canada-day themed tattoos, and interacting with the crowds.

There was no shortage of activities to be enjoyed by everyone such as the photo booth, interacting with the Warriors mascot, jumping on the inflatables, and a mist station to walk through and cool off in.

There was a wide variety of food available from 25 different vendors' food trucks, the most popular being BeaverTails and the handful of ice cream vendors, judging by their perpetually long lines.

On the OpenText Live Music stage, the celebration opened with various dance and



Kitchener Portugese Club dancers performing on the OpenText Live Music stage

vocal performances by students from the University of Waterloo.

Following this, multi-Juno award winning children's performer, Fred Penner, put on an exciting and entertaining musical show that was enjoyed by the many children and families present.

Vibrant performances from the Tamil Cultural Association and Sri Abiramy dancers, Waterloo Kung-fu Academy Demo Team, and the Kitchener Portugese Club dancers captured much of the audience's

Later in the evening, the Canadian Ju-

no-award winning pop quartet, Sloan, closed the event with and exciting song set, and led the crowd in a united chant of the National Anthem, before the fireworks finished off the night.

Leanne Wong, a master's student in engineering stated that the fireworks were the part of the event she enjoyed the most, but trekking through the field in the intense heat made the event less enjoyable.

"I really enjoyed the wide variety of food available, but I noticed that there was a severe lack of vegan and vegetarian options," said Ruth Stewart-Patterson, another event attendee. "I also think the booths could have been more interactive with the people visiting them. Most of them were just handing out free stuff and not explaining thier cause or what they do," said Stewart-Patterson.

Stewart-Patterson also echoed the struggle of being out in the heat for many hours, but confirmed that it was definitely more enjoyable than last year's Canada day, which she spent in Ottawa, trying to get onto Parliament Hill as it rained nearly the entire day.

Judging by size, the University of Waterloo's Canada Day Celebration is the second largest in Canada after Parliament Hill, with people, old and young, coming in from the local neighbourhoods, Kitchener and Cambridge.



Food trucks lined up on Columbia Lake Field



Fireworks show at the end of the night

New Environment member on Feds

Hanna Hett News Editor

Tincent Baik hopes to increase the Faculty of Environment's voice on Feds Council.

Baik, a third year planning student, was elected as the student representative for the Faculty of Environment on Feds Student on Jul. 3rd. This is a one year position.

"[I'm most excited for] the opportunity to make an impact for [the faculty of environment. I think this faculty is often a little disregarded at this school. So it would be nice to give greater voice to the students at Feds," he said.

He was running against fellow Environment students Rebecca George and Max Faulhammer. "It was a tight race, it was a roller-coaster," Baik said.

Baik is excited to have been elected, "It was one of the few elections that I've ever partaken in, so it was nice to win," he said.

After he gets accustomed to his new position, Baik wants to build relationships with other councilors from different faculties. He plans to engage with environment students to see where their priorities are, and then bring those to Feds. "We're all students at the end of the day, so I know that everyone has different priorities, so try to gage what that is, and see what I can feasibly do,"

Baik ran for the position because Feds runs many of the on-campus services, and thus being part of the student council is a way to make change for his fellow students. "I wanted to make a difference on campus. And I realized that as a student, Feds was the best way to do it."

Baik is from Toronto and came to the University of Waterloo as it has one of the only undergrad Urban Planning programs, and it is a co-



Meet Vincent Balk, the man hoping to make the faculty of Environment's voice louder on Feds Council.

Students don't want a disposable campus

Sarah Givlin Staff Reporter

The University of Waterloo Associ-▲ ation of Geography (WAGS) shares their plastic petition and how they plan to make UWaterloo campus more sus-

WAGS is promoting reuse over waste by diminishing plastic on campus. They are the student advocate group for sustainability and have started the initiative for a plastic free campus. Their plan is to start with getting rid of straws to show the UW campus that plastic waste does not need to continue.

"Our idea is not to ban straws, but it is to ban the wastefulness of straws." Abigail Shingler, Board Member, said. "Paper is the sustainable option between plastic and reusable packaging, so transitioning from plastic to paper is a step in the right direc-

Dina Amer, President of WAGS and Abigail Shingler, board member, were able to share their insights into their initiative and how to make a difference.

WAGS sustainable, stainless steel reusable straws are not for profit and are sold for just \$2 including a brush for cleaning. These straws are the first small step to a more sustainable environment. WAGS hope is to slowly graduate from reusable straws to reusable cups, bottles, bags, and containers.

This is not a fast process but it is something very helpful for the environment.

'We want to ease the campus into this process, we are trying to make people realize the alternatives to using plastic products" Amer, said, "This is giving people the option for eliminating the plastic waste, because there are small things you can do to help the environment."

They are encouraging a plastic free campus. Their goal is that the campus will be sustainable and will cease the use of one use plastic items by 2025.

"We want the consumer to have the option of bringing their own containers, so they aren't supporting the plastic and eventually this will help food services switch over to recyclable paper containers," Shingler said.

"This isn't something that we can not change, this is just a behaviour that we have gotten used to, we don't think about our waste day to day," Amer said "We look for convenience, rather than sustainability, and we don't think about the big picture"

WAGS is having a lemonade stand outside Dana Porter on July 18th in order to promote their petition and their metal straws will be on sale. Moving forward with this petition will further UW's goals for the Environmental Sustainability Strategy and will enforce student involvement with the sustainable actions, giving students a chance to help improve the school.

"Other campuses have done it and have been successful, now it's our turn," Shingler said.



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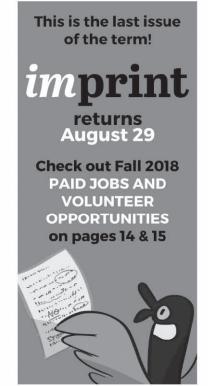


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Associate History Professor named Dean at Conrad Grebel



Professor Troy Osborne, the new Dean of Conrad Grebel starts in the new year of 2019.

Alexandra Hanrath Managing Editor

s of January 1, 2019 Conrad Grebel will have a new Dean, Professor Troy Osborne. Osborne served the faculty as the associate history professor before his newest appointment.

His research focuses on Mennonite history and the Reformation, and more specifically the Dutch Anabaptist tradition.

Obsorne is a well-respected and creative professor who teaches courses on subjects such as: The Radical Reformation,

sixteenth-century reformations, Mennonite studies, and other European history.

President of Conrad Grebel, Marcus Shantz says he hired Osborne for his alignment with Grebel's core values. He has high hopes for the new Dean and his capabilities, citing his previous community engagement, historical knowledge, and his use of creativity in his leadership style.

"We believe that Troy will be an enthusiastic advocate for the arts and Mennonite higher education, he has expressed a firm commitment to the development of Grebel's faculty by encouraging innovative teaching and supporting original scholarship, emphasizing the cultivation of a collegial culture amongst faculty, and between academic units and residence communities. He has a strong desire for his academic leadership to be imaginative and collaborative, and to be accessible to faculty, staff, and students," said Shantz.

Osborne is excited for his new role and all the new lives he gets to touch and enrich through his academics.

"I'm excited about taking on this new role at Grebel, a remarkable community of talented and accomplished teachers, scholars, staff, and students," he said.

He continued on to share his love for the college.

"The college has an invaluable legacy of contributing to the Mennonite community, the University of Waterloo, and the

and expand career education

broader community. I'm eager to build on our accomplishments and cultivate a vision for Grebel's future," he said.

Osborne formerly worked for Grebel for seven years and has a textbook being published on Anabaptist history.

Before becoming the Dean, Obsorne was a strong advocate and outreach employee at the university-college through presentations, supervising graduate research, and through faculty fo-

As a student, he attended Hesston College, Goshen College, and Anabaptist Mennonite Biblical Seminary.

He served as a professor of history at Bluffton University before coming to Conrad Grebel.

His deep scholarly history enriches his knowledge in his specialty subjects.

Osborne takes the reigns from Professor Marlene Epp. She skillfully served as Dean for a three year term with Conrad Grebel.

She will conclude her second term as Dean by the end of 2018, her first term existed from 2002-2005. Epp will resume her post as Professor of History and Peace and Conflict Studies in 2019.

to gain experiential work or

Poll: paid work is difficult to find for students

Hanna Hett News Editor

Despite the rising costs of tuition, students are struggling to find paid work in their fields.

A poll from the Canadian Alliance of Student Associations (CASA), released on Jul. 4th, showed that almost half of students are not able to find paid work placements.

This poll was conducted across Canada as an online survey, with a sample size of 1000 Canadians aged 18 to 29.

Paid work placements in one's field are turning into an important component in finding a job after graduation.

In a press release CASA said, that they feel that paid work placements offer experiences that simply cannot be competed with anywhere else.

"These experiences complement a student's formal

education by giving them the practical skills they need to succeed in the workforce, the experience that most entry-level jobs now require, and the income they so often need to afford their education."

Maryam Sajjad, a 4th year political science student, agrees that experiential learning is important.

She argues that certain skill sets cannot be accumulated if there is no opportunity to work throughout your degree.

"I think you need to accumulate various skills throughout the course of university in order to keep up with the job market." She said.

Sajjad continued on to say that workplace, classroom and volunteer experience all hold their own weight.

'What you learn in class is very different to what you actually will be applying to the job market," she said.

49 percent of students have

had difficulties finding a paid work placement.

However, with the greater emphasis on gaining work experience whilst still a student, 57 percent of students said that they have taken up unpaid work placements.

In their press release CASA also continued on to state that unpaid work placements devalue a student's education and only serve to put students farther into debt.

"Unpaid work placements are not only less valuable when it comes to helping you find a job after graduation, but they also contribute to rising student debt," said Manjeet Birk, CASA's Executive Director.

To combat this issue, CASA wants the federal government to step in.

They have a number of suggestions, including: enlarging the Canada Summer Jobs program for all fields of study; initiate a part time job

program; help Indigenous and ployment in their fields. "Many students can't afford marginalized youth find jobs;

for youth. don't have co-op as part While Waterloo has over of their degree. Stu-120 co-operative edudents who are not cation programs and a in tech/business 97.7 percent employneed to do unpaid ment rate, it still has internships/volmany students not unteer work and in co-op programs that comes with a Sajjad said.





Hanna Hett News Editor

ilver Lake requires city maintenance if it is to remain a feature in Waterloo

Manmade Silver Lake was originally built by the founder of Waterloo, Abrahma Erb, by damming Laurel Creek to work as a mill pond. Sediment has built up extensively in the it, and the City of Waterloo recently approved a project to dredge the sediment, as well as do spot repairs on Laurel Creek.

"If you go look at where the sediment has built up in the lake, you can actually see that it is trying to reform a creek," Jessica Kellerman, project manager, said.

"The level of the sediment is actually above the waterline in a good portion of the lake. And so it's just getting full, and it has been fairly full for the past number of years," Kellerman said.

Despite the maintenance that the Silver Lake requires, it has value to the residents of Waterloo.

"It has heritage aspects because it's been there for so long, and because it is...a focal feature in the park, and something that people are very used to," Kellerman explained.

The City has recently finished an Environmental Assessment (EA) process and will be putting out a Request for Proposal at the end of the summer.

anticipated Construction is

In 2012, the city did a baseline inventory of ecological features in the park.

"We used that information to inform the EA that was completed in the past year. The EA basically goes through an entire process of looking at the creek and the lake, and coming up with criteria to evaluate different alternatives under the EA that you come up with as part of the whole process."

Through the EA, the City developed criteria to be evaluated under different categories, such as social, economic, and environmental.

They also came up with five different alternatives, which are all given a score under each category.

"We ended up with alternative three as

the preferred alternative after doing a big evaluation of all of those different criteria... and that was dredge and reconfigure Silver Lake and do spot repairs on Laurel Creek," Kellerman said.

'Dredging' is to remove the build up of sediment. Reconfiguring is to examine the lake and see how the sediment can be better managed, such as catching sediment upstream where it could be cleaned out regularly.

"Through the whole detail design process we are going to look at ways to extend the life between cleanouts. It is a big undertaking every time we have to do something like [an EA and cleanout]."

"If Silver Lake remains an open water feature, which it likely will... it will remain a maintenance item for the city."

Record-breaking heat wave brought to you by: humanity

Charlotte Hings Science & Tech Editor

Ver the past two weeks, the Waterloo Region endured an intense heat wave that Environment Canada deemed "the most significant heat event in the past few years."

Most of Southern Ontario and Quebec also experienced extreme temperatures. On Canada Day, Ottawa reached its highest-ever humidex measurement: 47.2 degrees Celsius.

This temperature was 10 C higher than average for Canada Day in Ottawa, leading to paramedics needing to treat more than 100 people at various Canada Day events with 18 people taken to hospital with heat-related illnesses.

Beyond this, temperatures in Ottawa have gone above 32 C for seven days in a row, making this heat wave the longest since 1944, which was eight days, as recorded by Environment Canada.

The heat finally subsided throughout Southern Ontario and Quebec on Friday July 6th, but by this time, Santé Montréal reported 28 potentially heat-related deaths within the city.

Can this extreme heat wave be attributed to climate change? The answer to this is not straight-forward, even to experts in the field.

Blair Feltmate, a University of Waterloo climate scientist and head of the Intact Centre on Climate Adaptation, says that this heat wave cannot be directly attributed to climate change, however it is not necessarily unrelated to climate change.

Significant changes in weather patterns over a long period of time are what define climate change, not specific extreme weather events.

Feltmate says that one isolated extreme weather event can be considered normal, however, Canada and the rest of the world are experiencing more and more extreme weather events.

These extreme events build the changes in overall weather patterns, and can thus be attributed to climate change.

With these changes in weather patterns, extreme weather events, such as this past heat wave, will become more frequent, meaning that it is possible that it occurred because of climate change, but this doesn't mean that it would not have happened anyway.

Climate models made by Environment Canada indicate that average summer temperature across Ontario between 2041 and 2070 will be 3.5 C higher than it was between 1981 and 2010.

Although 3.5 C may seem to be a relatively small temperature increase, Feltmate notes that the difference between current average planetary temperatures and an ice age is only about six degrees Celsius.

Given the Earth cycles between ice ages approximately every 10 000 years, a 3.5 C rise over 80 years a really big deal.

The Environmental Commissioner of Ontario also noted in Ontario's 2016 Greenhouse Gas Progress Report that although local effects of climate change will be less severe here than in other areas

of the world, there is still the urgent need to prepare for the inevitable changes ahead.

Canada signed the Paris Climate Change Agreement in 2015 with the rest of the world which aims to keep climate change at 2 C above pre-industrial levels.

Currently, the emission-cutting plans that Canada has in place are not nearly sufficient to fulfill the promise of the Agreement.

The window to act on climate change to avoid disastrous consequences is closing fast.

"It is too late to avoid some disruptive and expensive changes to our environment and economy," stated in the report, "but we can still influence how destructive those changes will be. By working together, we can still protect much of what we love."

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Next scheduled board of directors meeting: Tuesday, July 24, 2018 ; SLC 0137 at 6 p.m. Thursday, Aguust 23, 2018 ; SLC 0137 at 6 p.m.

opinion

HAVE YOUR SAY

Submit your letter to the editor or your community editorial to $% \left(1\right) =\left(1\right) \left(1\right) \left($ opinion@uwimprint.ca. Find more opinions at uwimprint.ca.

Happy Canadian Day

This year has been a hard year for immigrants. That being said, has any year been particularly easy?

The obvious answer is no-the story of the immigrant is hardly ever a pleasant one. Canada is no stranger to this.

Even in this country heralded as a beacon of diversity, immigrants have faced innumerable hardships.

Take, for example, the Japanese of British Columbia during WWII- their businesses liquidated by the federal government to pay for their own internment. Or earlier, in the 1920s, the head tax imposed on Chinese migrants to curb the group's influx.

Years earlier yet, in 1907, immigration from India was once banned entirely.

Closer to home, the Canadian First Nations and Indigenous experienced prejudice much the same. Within living memory, Canada's last residential schools- the final remnants of a system which served as inspiration for South African apartheid-closed as recently as 1996.

To this day, the legacy of abuse and trauma continues to haunt the likes of Northern communities- in the suicide and substance abuse rates that outstrip many of their fellow Canadian counterparts.

Canada is home to diversity

aplenty. As we welcome more immigration with each passing day, this is only more and more true. And again, within this nation, Canadian First Nations and Indigenous peoples are the fastest growing demographic.

As a nation, we depend on these groups - for their ideas, contributions, and engagement as Canadians. This part is important; we rely on these groups not as the immigrant, not as "the other", but as Canadians.

Canada after all, as with many countries, was built by the First Nations, the Indigenous, the immigrant. I myself am only second generation Canadian. Yet I am proud to call Canada my home and, especially in this time of rapidly worsening polarization, as Canadians we should work to make our nation feel like home to anyone and everyone who should choose to reside in it.

Some are not so fortunate as to make the choice, have the means, or otherwise have the opportunity at all.

So in this time of celebrating Canada, let's not just celebrate our beautiful lands but all the brave people who call them home.

Happy Canadian day.

Hannah Tellier Staff Reporter

Shut up and listen: it's your right

Consider this your Freedom of Speech 101

no we're coming back to the basics, are we? That's fine.

I never thought I'd need to write a defence of the value and vitality of free speech to a university campus - in the pages of a school newspaper, no less.

I'd always assumed people knew, going in, that the university was the one place they would be forced to challenge their ideas, sharpen their minds, reform their opinions and reinforce their beliefs with sound argu-

I assumed people understood this, but evidently, that's not been the case.

There is a subset out there that doesn't see the value of free speech on our university campuses, or its immediate corollary, the right to listen. And while I would gladly leave these people to wallow in the dark they've created for themselves indefinitely, this noisy and belligerent group have taken it upon themselves to decide what ideas the rest of us may listen to.

You've perhaps seen some of this in the news: students, or at least some tone-deaf fraction of them, invading lecture halls, interrupting debates, screaming and hollering like jackasses to drown out all the other noise. Claiming to act under liberal and progressive banners, these students have gleefully elected themselves the censors of our campuses and lecture halls - to the detriment of all of us.

Most recently, this utterly babyish behaviour was on display at Wilfrid Laurier, when a visit from the controversial yet influential figure of Faith Goldy - a former contributor to the equally misgiven Rebel Media - was forcibly shutdown. Some hooligan pulled a fire alarm during her visit, winning a hollow victory for censorship and stupidity on campuses, and depriving the rest of us of the right to hear Goldy speak. Her subsequent visit to UW was likewise canceled because of security concerns.

Why did students come en mass, not just to protest Goldy's visit, which I consider a fine and even honorable course of action, but to physically prevent her ideas from being discussed, debated and challenged by everyone else?

Because she's a racist, they said, and a fascist and a Nazi and a white supremacist. She could not possibly be allowed to speak on campus, lest her ideas be heard and adopted by the other less intelligent, more gullible students.

Quick question: how did these self-involved loudmouths know Goldy was all the things they accused her of being - a racist, white supremacist and Nazi - when they blocked her visit?

Unless these individuals were just parroting what other people told them, I'm assuming our insipid censors must have done their homework to figure this out. That is, they must have parsed through Goldy's no doubt atrocious collection of writings and speeches, and studied her sufficiently, before coming to their conclusions.

Great; good for them. But how sublimely arrogant was it for these vacuous individuals to decide that, having read and heard all of Faith Goldy's terrible ideas firsthand, that nobody else should be able to hear those same words, and draw those conclusions for themselves? That nobody else would be astute enough to do the thinking for themselves? If you can see the fundamental flaw with that - the contradiction that all censorship inevitably brings - then I need say no

Who here, I would ask, believes they need to be told what to think? To have it decided for them what books they may read, what music they may listen, or what ideas they must subscribe?

More to the point, who here feels they are simply too feeble-minded, too fragile and too inept to hear all of the arguments for themselves and decide on their worth?

Then, you must immediately ask yourself: to whom do you award that task? Of listening to all of those bad ideas for you, and then deciding which you may be exposed? Your parents? Your teachers? That third-year student over there screaming nonsense and parading around like a drunk toddler?

Of course, it will be said that censoring free speech is needed when it's hateful. That purifying our campuses and stifling offensive speech has been done in the greater interest of supporting the oppressed classes.

Faisal Ali

Community Member

See the full article at www.uwimprint.ca

arts & life

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Opinion: Cave in to the Tentacion



GRAPHICS LEA CLARIN

o-year old rapper XXXTentacion was shot and killed on June 18, shining light on the rapper's controversial life yet again. XXXTentacion, or X, has a lengthy rap sheet that includes assault, robbery, false imprisonment, and firearm possession. This has lead to many music fans to question, yet again, whether they should support artists who have acted in moral opposition to society. I, simply cannot, and I think that any respectable person who listens to music shouldn't either.

I was first faced with the tragedy of loving an artist who isn't an upstanding person, to say the least, when allegations of Chris Brown beating up then girlfriend, Rihanna, as a result of an argument surfaced. The act of beating someone to the point that their face is no longer recognizable as a result of wounds is already horrific, but to do so to a woman who you are in a romantic relationship with is even worse. I stopped actively listening to Chris Brown's music and refused to support songs with

So, when XXXTentacion made his debut in the mainstream music world, I thought it would be easy enough to do it again, especially because I was even more disgusted with his character and past than I was with Chris Brown. X's biggest controversy surrounds the beating of his then-pregnant girlfriend over a prolonged period of time that involved death threats every day. He was on trial for beating her until her face was unrecognizable and was suffering vision loss, then locking her in an apartment bedroom for days until she managed to escape. It's an awful picture to paint, but I think I would have had been more inclined to support him with the defense that he's young and has done stupid things. It's that he has refused to show any remorse about it, often speaking down about feminism, and when asked if he would do it over again, he said he would. X has also never finished a tour, despite releasing several very successful albums. This is a result of many violent incidents between him and his fans.

I still have music by XXXTentacion saved on my phone though. That's because, despite his deplorable actions, his work is iconic for the music industry as a whole, and especially the rap industry. X recorded his first tracks that went viral on a microphone that he bought for \$80 USD, which is how most rappers in our generation begin. He was big in the underground rap community also known as a "Soundcloud Rapper", and was the first of these rappers to become mainstream, setting a precedent for many rappers like him to come.

The production on his tracks combine a

plethora of sounds from lo-fi hip hop, trap, EDM (electric dance music) and in some, rock and country. His lyrics are well composed and he is one of very few rappers to speak candidly about his mental illness.

I think that we absolutely cannot dismiss the actions of the artists we listen to, especially if they further promote toxic attitudes towards marginalized groups in society. However, I think that as a fan of any art, we need context to truly appreciate and understand the art. For example, many academics and researchers were very racist and ignorant about the world. But, as students, we take the milestones they set along with their negative actions. Music streaming giant Spotify has also come out with a similar approach, stating that they refuse to endorse XXXTentacion or R. Kelly and their music, but will still host their music on the platform. They don't think that censoring their listeners is reasonable but will not promote the music of someone who has proven to have morals that are at odds with the com-

As humans, we're able to recognize both the good and the bad in people. The way to find middle ground is to realize the context of the artist, and consider that when observing their art.

Julie Nguyen Arts & Life Editor

Grooving under the moonglow

Boogie House KW hosts its monthly Full Moon Boogie in collaboration with CAFKA

Lea Clarin Creative Director

driana de Graaf has been coming out to the Full Moon Boogie every month since last November, rain or shine.

De Graaf recounts one particularly stormy night when the wind threatened to blow down the tent sheltering the DJ and their sound equipment.

The drizzle made it difficult for her to navigate the grassy, hilly terrain slick with water using her walker.

Still, she and her fellow dancers boogied

CAFKA-Contemporary Art Forum Kitchener and Area-invited Boogie House KW to hold its Full Moon Boogie at Kitchener City Hall against the backdrop of Benoît Maubrey's ARENA, an installation comprised of 320 loudspeakers constructed in the shape

of a small amphitheatre.

Maubrey created ARENA to encourage local participation and self-expression, exploring how various groups and individuals would interact with the art installation.

"In North American culture, our bodies are supposed to be statues, but I disagree. Our limbs are designed to extend and to move and to respond to our environment," de Graaf said.

Kirstie Smallman and Jessica Fleguel, co-founders of Boogie House KW, share the same sentiments as Maubrey and de Graaf.

Born from a shared love and predisposition for grooving to funky, soulful House music, the Boogie House KW's pop-up, interactive musical-art installation has since become a monthly fixture that has attracted hundreds of dance-happy folks all over the

"Kirstie and I came to the idea of hosting open-invite dance parties outdoors to bring the music and the dance throughout KW,"

The duo choose to hold the dances during the full moon for its natural beauty and to connect with the energy that the moonlight

The Full Moon Boogie has its regulars. A good number of those first to arrive, among them being de Graaf (who brought some cookies to share), are familiar faces to Smallman and Fleguel.

They greet each other warmly with hugs and laughter.

As the veil of darkness gradually came down, newcomers trickled in, curious about the crowd and the House music bumping.

Apprehensive at first, newcomers quickly became new friends, joining in the movement, rhythm, and flow of DJ Delfine's

Through a mutual love for dancing and music, Boogie House KW unifies a community in an inclusive, magical space under the moonlight.



KW resident Adriana de Graaf sways to the beat of the music.

1st annual KW VegFest, a great success

Sarah-Louise Ruder Reporter

n Saturday July 7th, the Kitchener public square was brimming with excitement and compassion as people of all walks of life took part in Kitchener-Waterloo's first ever VegFest. The vegan festival was organized to celebrate and promote the health, ethical, environmental, spiritual, and justice benefits of living a vegan lifestyle. From 11:00am to 6:00pm, there were over 30 businesses and organizations hosting booths. The festival offered activities for all ages, including face painting, two renowned speakers, and a documentary screening.

From mocha ice cream sandwiches and sprinkled doughnuts, to hotdogs and poutine, the vegan food options were unique and exciting. Vendors sold ethical handbags, cleaver activist buttons, zero waste products, climate vegan apparel, and much

Participants were able to learn from and ask questions to representatives from animal sanctuaries, meditation and mindfulness groups, and activist groups, like Sea

"VegFest was great!" said Katie Fulfur. "It's nice to see people coming in from out of town." The crowds were consistent but modest throughout the day. "The samples are great and everyone is really open," said Ruth Stewart-Patterson, who is omnivorous. The booths and events were

welcoming and engaging for people regardless of dietary choices. Organizers and participants alike were welcoming and the space cultivated a sense of community. The festival was a high-energy space, despite the heat.

Contrasting the joyfulness of the festivities outside, the educational events inside City Hall were appropriately sobering. University of Brock professor Lauren Corman's talk, "Veganism on the Hot Plate: Animal Politics and Social Justice," drew from her expertise in Critical Animal Studies and contemporary social theory. Next, Zach Ruiter, an award-winning journalist, gave a talk titled "Saving Everything: how the end of animal agriculture will prevent near term human and mass extinction due to climate change." Later in the afternoon, the organizers displayed Sea of Life, an award-winning documentary screened earlier this year by the UW Animal Rights Society. Director Julia Barnes hosted a Q&A after the film.

The festival addressed the connections of veganism to climate justice, intersectional feminism, animal rights, and other movements. The organizers commenced with a land acknowledgement and a discussion of the interconnections of oppression. Agriculture has been described as a colonial force. A choice to resist the dominant food system can also be a choice to bring awareness to the ongoing displacement and oppression of First Peoples. The speakers were also cognisant of the privilege in accessing information on these issues and the ability to implement vegan choices.

For some, engaging in a vegan lifestyle a political choice to resist the domination of certain humans, non-human animals, and the environment. As a climate vegan, Ruiter's presentation acknowledged the severity of climate change and other human-made environmental problems, outlined the connections to animal agriculture, and pointed to a promising route of transformation. Peer-reviewed journals explain that the scale and severity of the environmental problems at hand are much worse than we would like to admit. Ruiter's clear message balances urgency and hope.

"There is beauty in the simplicity of this possible solution," said Ruiter. As an intersection of so many complex problems, animal agriculture is an ideal point of intervention for a more desirable future. Because livestock covers 45% of the Earth's landmass, an avoidance of animal agriculture makes space for reparations. Ruiter cites peer-reviewed science to show the potential of carbon sequestration through reforestation to prevent calamities of climate change. Veganism is not only for the wellbeing of non-human animals, but also for the wellbeing of humans and immediate future generations.

UW student, Eric Brace said, "It was heartwarming to see such a great turnout, with an outpouring of enthusiasm from both the community and the wonderful vendors that attended. After such a success, this is an event we can all be excited to see grow in years to come!"





KW VegFest featured vendors selling an array of vegan merch and products.

Earthling Ed encourages students to help animals

Matthew Jin Kang Reporter

On July 5, the UW Animal Rights Society hosted Earthling Ed at the University of Waterloo, a free event to the public. Earthling Ed spoke about how we can help animals in our everyday lives.

Earthling Ed is a British animal rights activist advocating for the rights of animals through social media, campaigns, radio and television and public speaking and workshops.

Earthling Ed discussed how eating animals is viewed as being natural, normal, and even necessary in our society. However, just because something is accepted in society doesn't necessarily mean that it's right. For example, in some cultures, women are viewed as being less than men.

In order to meet the supply and demand of food products, Earthling Ed reminded the audience that animals are being kept in cages, mutilated, killed, and then eaten. "We give pigs life, they give us bacon", Ed said.

Ed is aware of how people may view veg-

ans as being "militant, extreme, preachy, and super weird" but it is important to note that taste is being valued over animals' lives. Animals have the capacity to feel pain and suffering; they bleed and have their wings, beaks, and bones broken. All of this is done and their lives are being taken because of the high demand for animal products in the food market.

People seem to be eager to forget or ignore that animals are living creatures that wish to live their lives and raise their children. Earthling Ed raised the question of how consumers are able to morally justify completely taking that away from them.

Eating animals is not necessary for people to live. Ed believes that the availability of animal products in the grocery store is not worth the pain and suffering that the animals have to experience. They are being raised on farms and are being mutilated and castrated. Their babies are taken away and exploited, they have their teeth cut out, and they are then taken to a slaughterhouse and leave chopped, butchered, and covered in plastic. People have accepted this as a norm and a necessary evil to meet the demand for food products.

The number one contributor towards greenhouse gases is animal agriculture, even surpassing transportation. It also leads to trees being cut which are responsible for taking the greenhouse gases out of our atmosphere. Ed also reminded the audience that the food chain will also be affected and major disruptions in the food chain will eventually lead to fishless oceans.

"The world is on the brink of ecological disaster. When you know better, you have an obligation to do better," Earthling Ed said.

By purchasing or refusing to purchase a product, consumers are able to change supply and demand. As industries only survive because they are profitable, consumers can essentially vote with their wallets and ask for a different world.

Ed believes that animals, like all other living creatures, should be able to live their lives in freedom, without fear, oppression, injustice, pain, and suffering. He wants to see an end to animals being gassed, killed, forcibly impregnated, and baby cows being taken away from their mothers because the farmers want to extract every last drop

of milk. Animal skin and fur are ripped off of animals and deemed "fashion", "beauty", and "designer". Ed questioned what right people have to decide their lives are automatically superior to other living beings.

"Animals do not need people's sorrow, they need people's action", said Ed. "We have to act now for our future".

Going vegan is easier than many people seem to think. It's not just about eating Quinoa. There are always vegan options and alternatives available. Essentially, nearly all animal food products have a vegan counterpart made of plant matter. You can substitute chicken with tofu, or replace cow flesh with black beans.

If people start to reflect more on the reasons why they're becoming vegan, it will be easier to do so. Ed mentioned that doing research and watching documentaries can help with conviction. "Slaughter might not be pleasant, but it reminds you of why you're doing it", said Ed.

Animals are being used and killed, with their entire lives based solely on what they can produce for businesses. The reality is that they are living beings in suffering.

science & tech



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Bad mosquito season ahead for Waterloo Region

Charlotte Hings Science & Tech Editor

ollowing an extremely snowy and rainy spring, conditions for mosquito breeding in the Waterloo Region are ideal and the area is also spread over a wider area than usual. This will lead to a very mosquito prevalent summer in and around the city, having implications for people and pets.

Mosquitoes are known to transmit various diseases to humans and pets such as West Nile virus and Heartworms. West Nile virus is a viral infection transmitted by mosquitoes after they have fed on infected birds. Although there has only been one confirmed case of West Nile virus in the Waterloo Region within the past year, the increase in mosquito population density within the region could potentially change these trends. Heartworms are parasitic roundworms that spread through the bites of infected mosquitoes. In this area, they are more common in than West Nile virus, however, they only affect dogs, cats, ferrets and some

To control the immense flux of mosquitoes, the Region of Waterloo has opted to use larvicide in catch basins, sewage lagoon and shallow ditches, which are common mosquito breeding grounds. The region plans to continue larviciding these areas until October.

other mammals.

A new research study done by Bradley Fedy at the University of Waterloo demonstrates an extremely effective pesticide-free method CHARLOTTE HINGS of controlling mosquito populations

at the larval level by introducing native fathead minnow populations into water bodies. This is known as a biological control method, as it is a method that takes advantage of natural predator-prey dynamics to control pests, rather than introducing unnatural chemicals into the environment. As with any method of pest control, both have their share of risk. Depending on the types of larvicide used, there are risks of complications due to chemical exposure for people and animals, especially when applied near densely populated areas. There is also a larger risk that larvicides can impact populations other than the targeted pest population when compared to pesticide-free methods. Biological controls carry risks of having unforeseen effects due to unknown complex ecosystem interactions.

Fedy noted that the examined biological control method is not a perfect solution to controlling mosquito populations in the Waterloo region, but due to its cost efficiency and practicality, it certainly has potential to be adopted by the region as long it is done in a cautious and well-informed manner. "Stocking fathead minnows in interconnected water systems must be done with extreme caution. [...] Waterloo Region is well within the native distribution of the species, they are commonly used as a bait fish by anglers, and can tolerate the poor water quality conditions that are likely present in [catch basins, sewage lagoons and ditches]," said Fedy.

> When roughly compared to the larvicide method implemented by the Region of Waterloo, this biological control method is certainly more cost-effective, according to Fedy. "Benefits to people and economy are largely related to greater efficiency and lower cost. both related to the fact that larvicides require repeatapplications over the mosquito season. This results in greater costs related to both the supplies and the personnel required to apply the larvicides," said Fedy.

The implementation of biological control of mosquitoes using minnows for the Region of Waterloo would likely have benefits all around,

reducing risks and harm for the economy, people, and the biophysical environment. In the meantime, it is important to be cautious in woody and swampy areas, which are where mosquitoes are found in abundance, by wearing wear long sleeves and using mosquito repellent to prevent mosquito bites and transmission of diseases. There are various Heartworm medications that can be prescribed for pets that will prevent them from contracting the parasite when bitten by a mosquito carrier.



The science behind...

Lawrentina D'Souza



Motivation



ccording to Newton's 1st law, an immobile object remains immobile unless another force acts on it - let's call that force in our lives "motivation".

How do we become motivated do things, like completing a project or achieve a goal? The way you can find motivation in your life has to do with the reward involved in achieving or completing it, the activity or task itself and your perception of the outcome.

When comparing brain activity of people who complete a task for a reward and those who complete it for fun, scientists found that activity is similar throughout the brain. When the reward-driven group was asked to complete the same task again with no reward, activity was shown to decrease in the anterior striatum and prefrontal areas, which are parts of the brain responsible for self motivation and deci-

This means that rewards can potentially cancel out the natural sense of play and the enjoyment of the activity. For those who struggle to stay motivated in the middle of the term or when a project plateaus, science-based advice is that the genuine desire to do something is more sustainable than reward-based motivation.

Picking an activity you actually like and that gives the mentality of "I choose to do this" rather than "I have to do this" will increase the likelihood that you

will stick with it because your brain is designed to prioritize a more desirable state over a less desirable one. This is generally what causes procrastination which is essentially an emotional coping mechanism prioritizing the current self over the future self, in other words, current happiness and enjoyment over future consequences.

When trying to achieve a specific goal, it is important to not focus solely on the outcome, but rather focus on the pro-

For example, if the goal is to stop drinking soda, it should not be approached by focusing on never drinking soda, but rather on creating smaller achievable goals and a timeline for achieving them. The chemical aspect of small step goals shows that dopamine now proven to invoke motivation just the same as pleasure - is released in small bursts when we accomplish small tasks. This is what pushes us to accomplish the big tasks we're working to-

An example of this could be, only drinking one soda per week for the first month, followed by one soda every two weeks for the second month etc.

Overall, motivation is a function of self-regulation and control. If we're able to prioritize, drop the unnecessary tasks, pace ourselves, and engage in goals that make us happy, we're more likely to stay mentally and chemically motivated.

Google Duplex: The future is calling, will you pick up the phone?

Sarah-Louise Ruder Reporter

oogle announced the launch of a new technology for Google Assistant with the capability to make calls on to the behalf of the user on May 8 2018. Google Duplex, an artificial intelligence (AI) technology, has the capability to generate speech, answer questions in complex sentences, negotiate details, and even pass as a human voice.

The Google AI Blog explains, "The Google Duplex system is capable of carrying out sophisticated conversations and it completes the majority of its tasks fully autonomously, without human involvement."

"The system

makes the con-

versational

experience as

natural as pos-

sible, allowing

people to speak

normally, like

they would to

another person,

without having

to adapt to a ma-

chine"

- GOOGLE ENGINEERS

Duplex has been trained to complete three specific tasks: making a reservation at a restaurant, scheduling a haircut, and asking for holiday hours. After the call, you will receive a Google Assistant notification with the outcome, an addition to your Google Calendar, and an email with the call transcript. This summer, Duplex will be tested with Google Assistant users. The advances of AI and robotics are gaining popularity in the media, such as Sophia the social humanoid robot. It is now commonplace to see corporations use and celebrate machine learning.

But, now this so-

phisticated technology could be seamlessly added into your relationship with your smartphone. Just as advances in mobile phones have changed the way we talk, shop. learn or date, this technology will also have social and cultural implications.

"Google Duplex is the most incredible, terrifying thing," tweeted Chris Messinathe inventor of the twitter hashtag-at Google's IO18 conference.

How does Duplex work? The software draws from recent advances in concatenative text-to-speech and speech recognition. The voices of Duplex are developed through WaveNet, a speech synthesis program, which is also used for Google Assistant,

Google Search, and Google Translate. Even without a text source, WaveNet can generate raw audio that mimics the sounds of human speech, including breathing and lip sounds.

Duplex is the result of a recurrent neural network (RNN) built on top of WaveNet to guide the speech generating software into having spontaneous conversations.

A neural network is a metric of nodes with mathematical formulas, designed to process inputs and reduce the amount of error. While the premise has been studied for decades, practical neural networks have only be possible for the past few years. An RNN, a specific type of neural network, has the ability to remember inputs.

Like many AI, Duplex embodies machine learning. Google used previous anonymized

recorded phone conversations between humans to teach Duplex how to engage in conversations. The volume of inputsaudio recording, the Automatic Speech Recognition text, and metadataother teaches the network to reduce error.

Google engineers "the system state, makes the conversational experience as natural as possible, allowing people to speak normally, like they would to another person, without having to adapt to a machine."

What's it like to talk to Duplex? Google has released several demos since its launch in May. Duplex can speak with a variety of voices-energetic, stern, young, mature, nasal

and baritone. All demos sound very life-like, and raise concern and alarm in the media.

Duplex is designed to be imperfect to make it seem more human. Duplex is able to mimic natural pauses and use imperfections of everyday language, such as 'like', 'um', and 'mhm'. Sometimes these idioms are added in by Duplex to give the computer time to process, much like when humans use these filler words.

In the months since Google's launch, many have expressed concern for the ethics of a computer than can pass as human. A computer calling a human without informed consent, engaging them in a conversation, and recording their call might



be unethical to some. As per Isaac Asimov and Lyuben Dilov's famous laws of robotics, "a robot must establish its identity as a robot in all cases." While the original demos do not satisfy this requirement, Google responded to public concerns by changing the intro message.

More recent demos open with the Duplex stating, 'Hi! I'm the Google Assistant calling to make a reservation on behalf of a client.' Duplex can differentiate the meaning of sentences based on context; for instance, 'Okay for four' can be referring to the time

or the number of people for the reservation. It can also handle interruptions and answer when asked to repeat, elaborate, or clarify. Yet, the tech-

nology can only have conversations for the specific customer service calls and inquiries for which it was trained—for now.

However, with different training, the technology could be used for various other applications. Even with the public campaigns and the information on the Google AI Blog, some remain skeptical of Google's clarity and transparency on its intentions, and the consequences of its actions.

As with much of the contemporary debates on tech and data, many have privacy concerns for the access to and use of various forms of communication and personal information. Google has used records of

communication to teach technology before. Gmail's Smart Compose goes beyond predicting a word or sentence as it is typed, detecting an email's content and anticipating a variety of possible responses. Trained by emails we send, Smart Compose mimics our email conversations. Others have expressed concerns on the cultural implications of Duplex. The implementation of this technology might affect human-human relationships, such as making call recipients suspicious and foreboding.

If customer service workers begin expect-

"Google Duplex is the most incredible, terrifying thing"

- CHRIS MESSINA

ing to be called computers, and are less able to differentiate between human and Duplex voices, their attitude and treatment of humans calling may be affected.

Some are concerned their labour and livelihoods might be replaced by this technology.

In a world where Sophia the social humanoid robot is granted citizenship and a UN title and First Peoples and migrants are considered 'illegal', the impacts of technology on humans and the contradictions of values and rights have never been more important.

It is essential to think critically about the wider implications of technology, especially at an early stage when changes and mitigations are possible—as is the case with Duplex. The future is calling, will you pick up the phone?

sports & health

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Vaping: the hidden health risks



Trevor Potts Science & Health Editor

s vaping a gateway drug? A new study from the University of Waterloo suggests that is the case for teenage users.

Co-lead researcher Dr Bruce Baskerville and his team found that students from grades 7 to 12 who had tried e-cigarettes were 2.16 times more likely to smoke ciga-

"Since e-cigarettes came on the market there has been a debate about whether their use may lead to cigarette smoking," Baskerville explained, the answer among adolescents is yes."

Using data collected from the Canadian Student Tobacco, Alcohol and Drugs Survey, the study found that up to 10 percent of teenage students reported having tried e-cigarettes.

While e-cigarettes do not contain Typically, e-cigarettes deliver a vaporized aerosol made from a variety of e-liquids, such as propylene glycol, glycerin, water, nicotine, and/or flavourings.

While preliminary evidence suggests that e-cigarettes contain fewer toxic chemicals than traditional cigarettes, our findings suggest that a potential increase in harmful cigarette use may follow as e-cigarette use continues to rise among adolescent populations," Baskerville noted.

Today, tobacco continues to be the leading cause of preventable death in Canada.

As of January 1st, 2016, Ontario brought into effect The Electronic Cigarettes Act, which prohibits the sale of e-cigarettes to minors under the age of 19.

Last May, Bill S-5, an amendment to the Federal Tobacco Act, was granted royal ascent and now regulates e-cigarette usage and sale.

While Health Canada lists e-cigarette usage as a "less harmful alternative to tobacco" for adult smokers, it still remains a negative health risk for Canadian youth.

"This study supports the restricting of e-cigarette access to minors which have been shown to have heightened risk to initiate smoking," Baskerville added.

"More research is needed in Canada on additional contributing risk factors as well as longitudinal data to evaluate the complex relationship between e-cigarette use and tobacco cigarette use in adolescence," Baskerville said.

For more information on Dr. Baskerville's work, visit the UW Propel Centre for Population Health Impact website, or check out his research paper presented in Preventative Medicine.

Diabetic blood sugar testing: a painless future?



Trevor Potts Sports & Health Editor

ainful diabetic finger pricks may soon to be a thing of the past. Researchers at the University of Waterloo are currently developing a way for diabetics to monitor their blood sugar painlessly.

Dr. George Shaker and his team are using radar and artificial intelligence (AI) to detect glucose levels in the body without the need to draw blood.

"We want to sense blood inside the body without actually having to sample any fluid," Shaker explained. "Our hope is this can be realized as a smartwatch to continuously monitor glucose."

The radar device sends high-frequency radio waves into liquid mediums containing various levels of glucose, and receives the reflected waves.

This information is then converted into digital data and analyzed by Shaker's machine-learning algorithms. Glucose level changes are then detected by the software within a 85% accuracy, according to initial tests at Waterloo's Research Institute for Ag-

"The correlation was actually amazing," Shaker noted. "We have shown it is possible to use radar to look into blood and detect chang-

The research team plans to refine their software to deliver glucose levels with greater precision, and obtain results through the skin. Currently, Shaker's team is working with German hardware company Infineon to optimize device cost and power capabilities. Ultimately, Shaker hopes to use the technology in smartwatches.

"I'm hoping we'll see a wearable device on the market within the next five years", Shaker stated. "There are challenges, but the research has been going at a really

For those interested in learning more about Dr. Shaker's research, the International Journal of Mobile Human Computer Interaction

recently published the journal article "Non-invasive monitoring of glucose level changes utilizing a mm-wave radar system".



Dr. George Shaker (second from right) discusses his research with students (left to right): Karly Smith, Ala Eldin Omer and Mostafa

A sizable addition: Elliot to return for fifth season

Dan Ackerman Reporter

t can be hard to measure the impact of a great checking forward, even when he measures 6'5" and 235 lbs.

For the Warriors in the past four seasons, that role has been played to perfection by Mitch Elliot (Prince George): he plays great in his own zone. He wins faceoffs when he's called upon. He makes life exceedingly difficult for his opponents. And, he's the prototypical teammate's teammate, who leads by example on the ice, on the bench, and in the classroom

Now, with his undergrad degree from the Science faculty under his belt, and an eye on becoming an optometrist, Elliot has decided to return to the Warriors men's hockey program for his final year of eligibility in 2018-19.

Elliot is the fourth Warrior – joining Mike Moffat (Waterloo), Alex Stothart, and David Radke- who will suit up for Waterloo as a graduate student in the upcoming season. But while the demands of school will change. Elliot - an Academic All-Canadian in every season as a Warrior – is up for the challenge.

"To be honest, having no extra time and be-

ing busy, I seem to perform better," said Elliot. "When you have extra time, maybe you feel like it's easier to waste."

Elliot, a native of Prince George, BC, came to the Warriors after five seasons and 322 games with the Seattle Thunderbirds of the WHL. At Waterloo, he's registered 14 goals and 13 assists for 27 points and 103 PIM in 109 career games

But beyond the stat line, it's the total package of student and athlete that makes head coach Brian Bourque so eager to welcome Elliot back for his final year.

"We are very happy with Mitch's growth over his career with us," said Bourque. "He's a great defensive forward, and he's such a responsible and coachable player. But beyond that, he's a fantastic teammate, and excellent academically."

For his part, Elliot knows his leadership role will only grow in year five. And not only is he comfortable with those prospects, but he relishes the opportunity to give back to some of the younger Warriors in the same way he was brought along as a rookie.

"I think it's a big adjustment, going from 68 or 72 games in junior to 28 games," said Elliot. "You can't take nights off. And I think it's important for guys like myself, Moff (Moffat) and Bigsy (Adam Bignell (Kitchener)) to do well in school, too. I remember the Justin Larson (Buckhorn)s of the world who pushed me to have success on the ice and in school. One

of my favourite parts of the game is being a teammate, and we've always brought in really good guys, so it makes it easy to be a teammate.



Mitch Elliot (left) in action playing for the Waterloo Warriors

FALL TERM 2018 **JOBS**

HOURLY PAID JOBS

MANAGING EDITOR

Sept 4 start; Monday to Friday, 22 hours/week; \$1,333.33/ monthly.

Strong communication and leadership skills. Creative, detail-orientated. Knows how to use MAC/PC computers, along with Microsoft Office and Adobe Creative Suite, including InDesign and Photoshop.

For further information on job description or applying for this job, please email cover letter/ resume/portfolio samples to editor@uwimprint.ca or drop in to the office, SLC0137.

CREATIVE DIRECTOR

Sept 4 start; Monday to Friday, 22 hours/week; \$1,333.33/ monthly.

Creative, detail-orientated, with strong communication and leadership skills. Knows how to use MAC/PC computers, along with Microsoft Office and Adobe Creative Suite, including InDesign and Photoshop.

For further information on job description or applying for this job, please email cover letter/resume/ portfolio samples to editor@uwimprint.ca or drop in to the office,

MARKETING/ SALES REP

Hiring 2 part time employees. Sept 10 start; Monday to Friday, \$14/hour.

Assisting the Advertising and Production Manager with existing and new cold-call sales, for the purpose of advertisers promoting their business in Imprint to the UW community and the general public in Waterloo, Kitchener, Cambridge and Stratford. For further information on job description or applying for this job, please email cover letter and resume to ads@uwimprint.ca or drop in to the office, SLC0137.



Official University of Waterloo **Student Newspaper**

LIM MORK STUDY

EDITORIAL ASSISTANT

Sept 4 start; Monday to Friday, part-time; \$14.00/hour.

Enthusiastic attitude about writing and Imprint in general. Experience in transcribing, interviewing, research and the ability to plan and write full articles quickly and without assistance. For further information on job description or applying for this job, please email cover letter/ resume/portfolio samples to editor@uwimprint.ca or drop in to the office, SLC0137.

VOLUNTEER COORDINATOR ASSISTANT

Sept 4 start; Monday to Friday, part-time; \$14.00/hour.

Highly organized with excellent verbal and written skills, along with group management. Assisting the Executive Editor and Advertising and Production Manager with social recruiting events, Imprint training workshops, volunteer team spirit, appreciation luncheon, etc. For further information on job description or applying for this job, please email cover letter and resume to editor@uwimprint.ca or drop in to the office, SLC0137.

BOARD

Sept 4 start; Monday to Friday, 10 hours/week; \$14.00/ hour.

Assisting the Executive Editor, Advertising and Production Manager and the Board of Directors with ongoing projects such as databases, committee participation, website upkeep for Board minutes, research and other jobs as required.

For further information on job description or applying for this job, please email cover letter and resume to ads@uwimprint.ca or drop in to the office, SLC0137.

SOCIAL MEDIA SALES **ASSISTANT**

Sept 4 start; Monday to Friday, part-time; \$14.00/hour.

Assisting the Executive Editor to ensure daily postings are completed for Imprint's social media channels. Connect with readers; develop content; multi-task assignments from various departments and use social media analytical tools to measure key metrics for editorial and advertising.

For further information on job description or applying for this job, please email cover letter/ resume/portfolio samples to editor@uwimprint.ca or drop in to the office, SLC0137.

ASSISTANT

Sept 4 start; Monday to Friday, part-time; \$14.00/hour.

Assisting the Advertising and Production Manager with existing and new cold-call sales, for the purpose of advertisers promoting their business in Imprint to the UW community and the general public in Waterloo, Kitchener, Cambridge and Stratford.

For further information on job description or applying for this job, please email cover letter and resume to ads@uwimprint.ca or drop in to the office, SLC0137.

AVAILABLE UW WORK STUDY POSITION REQUIREMENTS

You must be a full-time student and OSAP elgible.

Candidates must first apply to Student Award and Financial Aid Office for approval. If approved, candidates are required to bring Declaration of Student's Eligibility/Hiring Form to Imprint interview.

campus bulletin

WHAT'S HAPPENING AROUND TOWN

Submit your 30-word announcement or upcoming event to ads@uwimprint.ca for free

upcoming events

July 2018

For all of UpTown Waterloo May activities visit www.uptownwaterloobia.com. Savour in Stratford - Saturday morning Market from 7 a.m. to 12 p.m. at the Rotary Complex; and more! www. visitstratford.com.

Saturday, July 14

UW Choir Concert presents "The Promise of Living" at The Cedars Worship Centre, 543 Beechwood Drive, Waterloo at 7:30 p.m. For tickets/info: www.uwaterloo.ca/music/events.

Thursday, July 19

orchestra@uwaterloo presents "Beautiful Wanderings" at 7:30 p.m. at First United Church, 16 William Street, Waterloo. Free admission. For info: music@uwaterloo.ca.

Sunday, July 22 Instrumental Chamber Ensemble

Conert at 7:30 p.m. at Conrad Grebel University College Chapel, 140 Westmount Road, N., Waterloo. Free admission. Reception to follow.

volunteering

Bereaved Families of Ontario

 Midwestern Region, The Family Centre, 65 Hanson Ave., Suite 1042, Kitchener. We currently have a number of exciting volunteer opportunities. For more info, jaime@ bfomidwest.org or 519-603-0196.

help needed

NOT JUST TOURISTS — We are a humanitarian organization that pack medical supplies and bring them to developing countries. We are in need of volunteers, donors and travelers. For more information, please visit www.notjusttourists.

workshops

UW Career Action Workshops: sign up is required; strobe.uwaterloo.ca.

Wednesday, July 11

Information Session for Graduating Students - 11:30 a.m. to 12:30 p.m., STC

Career Interest Assessment (Strong Interest Inventory) - 1:30 to 3:30 p.m., TC 1112. Note: There is a student materials charge of \$15 payable at the Centre for Career Action prior to the session; Alumni fee is \$16. Once you have registered and paid, you will be given information on how to complete the Strong Interest Inventory online. The assessment must be completed at least 2 business days before the workshop date.

Thursday, July 12

Exploring Your Personality Type (Myers-Briggs Type Indicator) - Part 1 - 12:30 to 2:30 p.m., TC III2. Note: There is a student materials charge of \$15 payable at the Centre for Career Action prior to the session; Alumni fee is \$27. Once you have registered and paid, you will be given information on how to complete the MBTI assessment online. The assessment must be completed at least 2 business days before the workshop date.

Resumes, Careers and Personal Branding - Part 2 - 4:30 to 6:30 p.m., TC 2218. Seating is limited due to demand.





SECTION EDITORS:

News, Opinion, Science, Arts, Sports, Distractions

Other positions available;

Head Designer, Graphics Editor, Copy Editor, Video Editor, and Satellite Campus Editor

Apply to editor@uwimprint.ca with cover letter/resume/portfolio



WATERLOO JOURNAL OF **ENVIRONMENT SCIENCES**

Imprint's newest online magazine that reflects topics and info regarding environment sciences on campus/community/nationally.

POSITIONS AVAILABLE

MANAGING EDITOR - 22 hrs/week; \$14/hr

Oversees all journal communication between Imprint's Board, editors and writers. Following team functions given by Executive Editor. Recruit, marketing, chair meetings/workshops. Contribute to Journal content and editing. Strong writing background/ journalism experience/knowledge of Journal's focus. Familiar with online design.

CONTRIBUTING WRITERS

Strong writing background/journalism experience and knowledge of Journal's focus.



Imprint's arts online magazine that reflects fine arts, photography, poetry and prose by University of Waterloo students, alumni and staff.

POSITIONS AVAILABLE

MANAGING EDITOR

Oversees all magazine communication between Imprint's Board and Executive Editor. Following team functions given by Executive Editor. Recruit volunteers, marketing for the magazine and chair meetings. Contribute to content and editing. Familiar with online design.

EDITOR POSITIONS

Photography; Fine Arts; Poetry & Prose

FOR MORE INFORMATION, CONTACT EDITOR@UWIMPRINT.CA

distractions



Q: WHY IS MILK SO FAST IT'S INVISIBLE?

A: BECAUSE IT'S PASTEURIZED **BEFORE YOU SEE IT**







BY TIMI Bicks



Fig. 1.8: An illustrative example of how in the end... life fails us all.

YOU COULD BE HERE

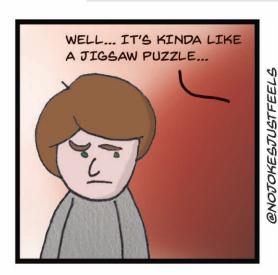
Interested in having your comics or puzzles featured in the newspaper? Distractions is looking for contributors for the fall term!

> **Email** distractions@uwimprint.ca

MAYDEN ET AL BY PETER NEATHWAY

> (LOOSELY BASED ON TRUE STORIES)







15

The Singapore Summit: What Really Happened

