UW students spring into musical

Spring Awakening shows at the Conrad Centre for the Performing Arts from May 31 to June 9. Details on P. 8
Bike lanes and amenity space to become part of Uptown

Hanna Hett
Editor

Soon, the multi-year construction project in the core of uptown Waterloo will be complete. The last phase of construction of the streetscape improvement project will happen over the next eight weeks. This will compose of building bike lanes and a decorative amenity space. The construction will take place on King Street, from the Uptown Public Square to Bridgeport Road. It will happen in phases to disturb traffic flow the least.

The project started ten years ago when the Uptown Waterloo Business Improvement Area (BIA) requested improvement to the lighting structures. From this, it evolved into what it is today: a project designed to improve transportation options, economic development of the uptown core, make it more aesthetically pleasing, and to align with the ION light rail project.

“It’s really meeting the current needs that we see out there today,” Eric Saunderson, senior project manager said.

Through an environmental assessment, which involves an extensive public consultation process, Saunderson said the city was able to find the best design: to reduce the traffic lanes from four to two in order to widen the sidewalks and install bike lanes.

“One of the design objectives was to create an environment that was catering to all modes of transportation. There’s pedestrians, cycling, auto, and transit. We really wanted to have a balanced design,” Saunderson said.

The bike lanes are separated from the road, which Saunderson hopes will allow more people to feel safe cycling.

“We would probably encourage more cyclists to choose an alternate mode of transportation if they felt more comfortable,” he said.

King and Erb Street will be a protected intersection.

“Essentially what...[a protected intersection] means is that the bike lanes will bend away from the intersection that you approach...away from traffic, and the crossing will be with pedestrian crosswalks.”

Another component of the construction this summer is the amenity space. New trees will be planted, and ‘thematic lights’ will encircle them.

“[They are] stainless steel structures with a ring at the top that goes around the trees, and provides some protection for the trees. As well, it provides this illuminated lighting structure that can be fully programmable at any time of the year,” Saunderson said.

Saunderson thinks that it will contribute to tourism, entertainment, and after hour activities.

“The Uptown is successful to begin with, and this is just going to further complement it,” he said.

The construction on King Street will likely continue over the next few years.

“This phase of the project is just one part of a much larger plan...[We] could potentially continue up to the University Avenue intersection over the next few year period...We will be starting north of Bridgeport in 2019, and then up to University Ave in 2020,” Saunderson said.
May was Mental Health Month and the University of Waterloo has invested time and effort to raise special events, and programming promoting awareness to get to a dialogue going within and beyond the school community.

In the past 12 months, the University has initiated several initiatives to raise awareness about mental health issues, as well as provide students with more resources for counseling, accommodations, and help on campus.

The UW Director of Media Relations and Issues Management, Matthew Grant gave a statement about these initiatives:

“The programs include in-person and online education, awareness building and outreach well beyond Mental Health Month, and include peer support groups, anxiety and depression workshops, seminars on coping skills, and stress-reduction programs.”

“In particular, the work around the President’s Advisory Committee on Student Mental Health (PAC-SMH) has brought a great deal of attention to this important issue.”

Faridun Hamdullahpur, UW President convened the PAC SMH during the spring of 2017.

The committee is collecting and reviewing data investigating the roots of student anxiety, depression, and stress and provide insight on how the University can move forward with initiatives that will mitigate mental health issues proactively rather than reactively.

PAC-SMH reached out to students, alumni, staff, faculty and the community on these issues.

The PAC-SMH initiative was designed to examine the current status of student mental health on campus and explore ways to further support students who are struggling, increase awareness of mental health services and to help reduce societal stigma around the issue.

Dr. John Hirdes, a professor at the University of Waterloo’s Faculty of Applied Health Sciences, is leading the review and implementation of these initiatives.

He specializes in youth mental health.

March 14 marked the PAC-SMH’s first year with an open forum.

The following month saw the release of the committee’s Executive Summary and Recommendations.

In total, the PAC-SMH had 36 recommendations covering the five key areas of campus policies and practices, inclusive and supportive campus culture, mental awareness and communication, preventive and early intervention and service access and delivery.

Following the report, UW committed to investing $1.2 million towards increasing the number of mental health professionals on campus to assist students, bringing the number to over 70.

In addition to the mental health and wellness professionals within the University, Campus Wellness provides a full list of available services in the Kitchener-Waterloo community and how students can access them.

As UW is uniquely situated as a university with an extensive co-op program with a significant portion of students often living off campus on their work terms, there is concern regarding how the school can provide resources and accommodate their mental health needs.

“There are a number of supports and processes in place to assist students who are on co-op,” Grant said.

“Co-op advisors, located across the country, connect with students during their term by email and in person. To aid in this relationship, students maintain the same advisor through their time at Waterloo. Most of these advisors are certified in Mental Health First Aid Training,” Grant said.

“The Centre for Career Action offers students help and guidance on a variety of issues while they are not on campus through phone, Skype, as well as in person as students require,” Grant said.

Students and other members of the UW community have expressed concern that initiatives toward mental health are a temporary fix and will not address them in the long term.

In response, the University emphasizes that its regarding initiatives mental health will be proactive, to create a campus culture that acknowledges students do struggle with mental health, that they are not alone, and there are resources and services in place that can help them.

The University will continue to increase education around mental health and available services as well supporting actions that reduce mental health stigma in all its forms.

“The overall vision of our campus is to continue to foster an environment where individuals who may be struggling with mental health challenges feel comfortable,” Grant said.
Former Prime Minister trusted his gut

Hanna Hett
News Editor

F ormer Prime Minister of Canada (1979-80), the Honourable Charles Joseph Clark, visited UW to express his concern on the reliance on polling and lack of public engagement in Canadian politics.

"The world of politics that I entered in 1976 was very different from where it is now. It was much more about people, and much less about technology," Clark said.

Clark visited UW on May 22 to talk about his experience and extensive career as a civil servant. A graduate from the University of Alberta, he used his time as a student to pursue journalism and politics, writing for his student newspaper and becoming involved in campus and provincial politics. He first became known in Canada in 1976, when he won party leadership for the Federal Progressive Conservatives. Clark has since been leader of the official opposition party, prime minister, secretary of state for External Affairs, and minister of constitutional affairs.

Polling, a method politicians use to find out what public opinions are, is something that Clark thinks is now relied upon too extensively by politicians. Dealing with situations by instinct, which Clark believes is valuable, is now a rare phenomenon.

"Politics used to be human," he said. "[We] would make decisions based on what [our] instincts told [us]."

"Data, by nature, is specific. You [can] try to put it into context ... [but] one has to be careful, not least when some of the data runs against your instincts."

Clark was concerned that the Harper government relied too much on campaigning to its voting 'base'—the people they know will support it—rather than the whole of Canada. He is also troubled that the Trudeau government is heading in this direction.

"I think this is one of the real problems in our country... Trudeau had seized a moment: in time (in the 2015 federal elections) ... I'm concerned now his polling is causing him to focus on his base."

This could cause division within Canada, as governments could miss entire groups of people's needs. Clark worries it might decay the diversity that the Canadian society currently thrives on.

"[This is] why it has been so easy... for so many people to come,[and] maintain [their] identity," he said.

Relying on instinct, rather than polling, helped Clark in 1982, when the Honourable Pierre Trudeau introduced a constitution package.

"I had to respond to this on about four hours notice, [while] Mr. Trudeau had had months to prepare it," he said.

Clark did not have time to consult his caucus or to find out what the public opinion was from polling. He followed his instinct, and announced that he would not support certain elements of the constitution package. Later, he learned that the polls showed that Trudeau had 92 per cent of support, while he had less than eight per cent.

This constitution package was to change Canada's highest legal legislation, the British North American Act, from British Parliament control to Canada's federal and provincial legislature control. Clark was proud to have delayed the process on this, as it allowed for the new constitution to undergo judicial review and for federal and provincial governments to settle on an agreement.

Clark attributed his success to relying on his instinct.

"You can still make good decisions without polls," he said.

However, Clark said he also believes that polling can be a very legitimate thing to determine what issues are on people's minds. These issues might not be on the politicians minds, or they may not be addressed by current policy and programs in place.

Clark also called for innovation in citizenship, rather than where it is dominating—in STEM fields. "What is interesting is we choose the areas we think we need innovation. We need to innovate citizenship," he said.

"Citizenship is about responsibility. We don't just sit here, we do things. It's not just an oath, or a piece of paper," he added.

When in office Clark wanted engagement from electorates and respect.

"I want engagement, and I want respect... Someone's who is [going to] follow their most generous beliefs... And so we have to make engagement easier, and deviations from respect less acceptable."
Mental health and deficits

Alexandra Hanrath
Managing Editor

Dan Weber, Conservative Party candidate and Zdravko Gunjevic, Green Party candidate appealed for support from young millenial voters.

The Bombshelter Pub on campus held its final pre-election event where students had the opportunity to meet with local candidates, on Monday. Both parties expressed how their platforms would affect university students.

Dan Weber said mental health is of the utmost importance. “One of our most important platform focuses is on improving mental health care and allocating more resources for it. For students, especially, the pressure is on them more than ever.”

Candidate Gunjevic couldn’t agree more. “I know when I was in school, which really wasn’t that long ago, the pressure wasn’t as great as it seems to be now after speaking to students and hearing their concerns.”

They each take their own conservative based approach to the deficit problem.

Candidate Gunjevic expressed concern for where the budget is truly being spent.

“What we really need is the proper allocation of funds. We don’t need the government spending tax dollars on programs we may not want nor need.” Gunjevic said.

Weber thinks the projects have good intentions but no realistic expectations.

“The problem with the current government is that they promise all of these projects and ideas, but where will they get the money for this?” Weber asked.

Register to vote in the June 7 provincial election online and find out where you can vote at: elections.on.ca.

Word on the street: Voting views

Are students voting? Why are students voting? What issues are important to them? Curious to know these answers and what UW students thoughts were on the upcoming provincial elections, Imprint went to find out.

“I do plan to vote in this election, this will be the first provincial election where I was able to vote. I guess I’m voting because I hear a lot of dissatisfaction with the government from people like my parents and my friends and my grandparents—everytime I go see them they’re like, ‘Oh that Kathyne Wynne, doing Kathlynne Wynne things.’ I have been trying to find time, in between my classes, to read about the platforms...and decide who I want to vote for.”

MEGAN TOWN, CHEMICAL ENGINEERING 3RD YEAR.

“To me, personally, it’s important because I just turned 18 last year. It’s my first time voting, so that’s why I feel like it’s important. I feel like each one of us have the ability to have the say, and it depends on our votes...who’s going to be the new...premier.”

IFRA ARIF, 2ND YEAR POLITICAL SCIENCE

Advice for first time voters “Make sure you have proof of residence in the riding that you’re trying to vote in.”

SILAS VRIEND, 4TH YEAR MATHEMATICAL PHYSICS

“It’s getting your voice out there, essentially. It’s saying what you want to other citizens and to the government.”

SARAH CAMMON, 4TH YEAR MATH.
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Look under Community Events on leads.uwaterloo.ca

Contest: Win Your Happily Ever After

Joyce Lu
Reporter

For those in need of the ultimate utopian festival escape – we’ve got you covered.

Imprint will be giving out a pair of tickets to one of Canada’s most coveted electronic dance music festivals this summer, Ever After.

The highly anticipated three-day fete is happening at Bingemans, on Bingemans Centre Drive in Kitchener from June 8 to 10.

The concert features an impressive combo of established and emerging EDM artists including Datsik, Megalodon, Midnight T, Zomboy, Skism, and more.

This is Ever After’s fourth year hosting the event in the K-W area. The mesmerizing experience draws over 40,000 people from all over the world.

It is fantasy themed, with colours and positive energy flooding the air.

Gabriel Mattacchio, President of Beyond Oz Productions Inc. said this year will top others.

“Ever After is an immersive, uncompromising musical experience. This year is guaranteed to be the most memorable one yet,” he said.

Year after year, Ever After brings an experience more grand than the one before. Aside from musicians, the festival offers an all around ordeal.

The impressive EDM line-up is accompanied by striking visual backdrops, a water park, full midway, games, food vendors, and a campground.

All ticket holders will get unlimited access to the midway and WipeOut themed obstacle course.

The theatrical event does not come up short when it comes to entertainment with an enchanted forest themed area, giant games zone, and bubble zone are among the interactive exhibits, but of course there is a ‘chill zone,’ with remarkable structures to relax in.

This year brings more stages, more performances and Ever After will even implement the most current sound technology to control the direction of the sound to saturate it in the festival area only.

The festival takes place at a great time to take a breather from midterms and will help students disconnect from the grind for a brief moment and remember to enjoy themselves and try new things. For those who have an academic term this summer, Ever After comes at a time when one most deserve an adventure.

Imprint wants to send you to Ever After! We have hidden 12 letters in this issue of Imprint, two per section and all in order. Find out what word it spells and comment it on Imprint’s Instagram @uimprint. The last step: follow both @uimprint: and @everafterfest. Good luck!

You can find tickets and other information about Ever After at their website: http://www.everafterfest.com/
Movie Review: Indian Horse

If you're looking to understand more of the lived histories of Canada's Indigenous populations, then you might want to watch Indian Horse.

Wagamee's (1955-2017) best selling novel, this story tells the story of Saul Indian Horse.

A film adaptation of Richard Taiton by government officials as a young child, Saul (played by Salen Feltier, Forrest Goodluck, and Ajuwak Kapashesit) is put into St. Jerome's residential school.

The movie not only portrays the physical harm that children suffered in such schools, but also the emotional damage they endured. Physically, they were beaten, locked up, and molested. Emotionally, they were stripped of their language, way of life, and family. They were forced to speak English and follow Catholicism. Much of their identity was lost.

Saul endures this abuse by discovering a newfound love of hockey. While he finds a way to bury his pain in practices, games, and watching Hockey Night in Canada, his peers suffer without a similar escape from reality. His friend Lonnie (Braedon Crouse) attempts to run away, but is caught and severely punished—suffering afterwards from depression.

Saul's talent for hockey takes him to a small Northern Ontario town to play on their hockey team, Moose. He is adopted by Fred and Martha Kelly (Michael Lownrenchuk and Suzanne Shawbouquit) and lives with them and their son Virgil (Will Strongheart). Still a teenager, the legacy of the school has yet to catch up with him, and he enjoys bossing from reservation to reservation to play other Indigenous teams.

However, when Moose starts playing white teams, Saul finds the often brutal racism that they endure difficult to brush off.

Eventually, he catches the eye of a Toronto Maple Leaf recruiter, and moves to Toronto to practice. The racism he faces on the ice is greater than the peace that the spor once brought him.

Not only do his opponents and the spectators jeer at him for his race, but his teammates do as well.

The constant discrimination causes Saul to leave the ice. Without hockey as his identity, he is forced to face the loss of his culture that he experienced as a child. He turns to alcohol to self-medicate.

The movie ends with Saul visiting St. Jerome's and reliving his tormented childhood. After, he goes back to his birthplace, and mourns the loss of his family, culture, and identity. Once he finally releases the pain within him, Saul goes back and reunites with the Kelly’s.

The last residential school in Canada was only shut down in 1996—just 22 years ago. The legacy of these schools are still very real in Canada, and it is can be difficult for non-Indigenous Canadian to conceptualize the suffering that they caused.

Book Review: Am I there yet?

The journey through one's twenties can be time of doubt, anxiety, and fear. However, it is also one of hope, adventure, and self-discovery.

In Mari Andrew’s first book publication, Am I There Yet? The Loop-de-Loo, Zigzagging Journey to Adulthood, she captures the complexities that much of the twenty-something population is undergoing through a series of sketches and essays.

Each essay seeks to address a topic that many these 'twenty-somethings' can relate to.

Many twenty-somethings are desperately trying to find their purpose in life—and this can be a harrowing journey. It is full of ups and downs: unsatisfying jobs, moving to different cities, feeling a sense of loss, and so forth. In one section of Andrew’s book, she attempts to put these worries at ease by describing her experience in a job that she was deeply unhappy with, and felt like it would last forever. However, the job did eventually end. Upon reflection, she realized that had more significance than she had originally given it.

Twenty-somethings are always moving: from building to building, from city to city, from job to job. They leave their family behind and have yet to start their own. Thus, their family becomes fluid.

It becomes the people who surround them each new building, city, or job. Andrew introduces the reader to many of the people who lived in a neighborhood that she once resided in. The gratitude that she expresses for these people, even if she only had small daily interactions with them, reminds us that we never have to be alone, even when we must leave our friends and family behind.

Disappointment is not only a theme for twenty-somethings, but for people of all walks of life.

When we have certain expectations it is impossible to not be disappointed if life does not work in our favour. While spending some time in Spain, Andrew unexpectedly came down with Guillaume-Barré syndrome, paralyzing her arms and legs. All alone in a foreign country and with no explanation for the cause of her illness, this experience was a time of crushing disappointment for Andrew. She does not sugar coat the pain that she endured in this experience, however, she has immense gratitude for her body when she is able to move her limbs again.

If you are looking for both an entertaining and inspiring read— one that might make you think, ‘Hey! I’m not doing so bad!’ then you might want to pick up a copy of Am I There Yet?.

Mari Andrew

COURTESY MARI ANDREW
19th-century issues are 21st-century issues

K-W Musical Productions presents revolutionary musical, Spring Awakening

Matthew Jin Kang
Staff Reporter

DURING orientation week, students see a University of Waterloo production called Single and Sexy, a play put on for first years to bring attention to topics such as sexuality, safe sex, and rape.

Almost three years later, five of the cast members are now performing in Spring Awakening, a revolutionary musical from K-W Musical Productions.

Similar to Single and Sexy, Spring Awakening features a story that explores timeless themes that are still relevant today, presenting issues of youth who are discovering their sexuality and struggling with the transition from adolescence to adulthood. The musical features a rock and roll soundtrack, packing lots of heart, honesty, and emotion.

Spring Awakening centres on teenage characters in the late nineteenth-century who are struggling to overcome anxiety and are in the midst of self-discovery.

The musical is directed by Amanda Kind with musical direction from Jason White and choreography by Jennifer Wright. Spring Awakening is the winner of eight Tony Awards, including Best Musical.

Three of the cast members are University of Waterloo alumni: Brendan Stelhouwer, Jill Prince, and Tristan Pilcher.

The words used to describe Spring Awakening were “edgy,” “powerful,” and “pop rock.”

Stelhouwer described his character, Moritz, as a character who is struggling with a great deal of personal issues.

“He struggles in school, ” Stelhouwer reflected. “You find out he’s had a bad home life and his story is kind of a tragic one that might have a hopeful ending at the end. But there are a lot of great levels to play.”

Prince plays Ilse, a childhood friend of Moritz.

“Ilse is a pretty complicated character,” Prince explained. “She drifted apart [from Moritz] as they got older and she goes through a lot of tough stuff at home. She actually ends up running away so for a lot of the story she’s separate from everyone and then she comes back and you see how she’s coping with all these different things that she’s going through.”

Hanschen is played by Pilcher, a character he describes as a character who, “confidently struggles with sexuality. He is a smart guy but he struggles a bit with the fact that he’s not the centre of attention,” he said.

While the original Spring Awakening play was written in the 1890s, the exploration of its topics of sexuality, abuse, and mental health are timeless, as those issues continue to challenge today’s youth. The 2006 Broadway production of Spring Awakening featured Gle’s Lea Michele and Jonathan Groff, who was the voice of Kristoff in Disney’s Frozen.

“I think these are things all of us go through ourselves, who is going through it. Let’s make sure we don’t forget that.”

Mental health, personal struggles, and sexuality are often considered taboo but they are regular components of the human experience. Spring Awakening is essentially a tragedy of omission, where bad things that happen could have been avoided if people were simply willing to discuss.

The musical encourages audiences to avoid suppressing their feelings and be more open to discussing them. The play asks people to recognize that others are experiencing similar situations, and that they are not alone, though they may feel that way.

“These are all things that people don’t want to talk about because they’re very ashamed to talk about them or they feel like they’re not supposed to,” Prince said.

Prince, Pilcher, Stelhouwer, and I all agreed on the importance of discussion and the role it plays in people’s development.

“It’s uncomfortable but talking about mental health and abuse and sexuality and all these things... we should be talking about them. The show kind of tells you what happens if you’re too afraid to have those conversations,” Prince said.

For those looking to get involved in theatre productions like Spring Awakening, Pilcher encouraged them to audition.

“Come out and audition. What’s the harm?”

“Even if you’re afraid, just do it,” Prince said. “Because even if an audition doesn’t work out, you are learning from that audition. I think people get so scared of them because it’s hard to take rejection, but you are going to get better every single time you try. So just keep trying, look for things you can do like any performance.”

Stelhouwer echoed those statements.

“If you don’t nail the audition, don’t be hard on yourself because it’s scary. Like giving a presentation in class, you’re standing in front of people and you’re like ‘Do they like me?’ But it’s one of the things where the more you do it, the better you get. It’s such a great community to be a part of,” he said.

Spring Awakening from K-W Musical Productions runs from May 31 through Jun. 9 at The Conrad Centre for the Performing Arts. Tickets are available on the K-W Musical Production site.
Tiny insects, big problems

Charlotte Hings
Science & Tech Editor

The Emerald Ash Borer (EAB) is an insect native to Asia, and was first spotted in North America in Detroit and Windsor in 2002. The EAB most likely arrived in solid wood packing material that was imported to North America.

Once it found the ash tree as a suitable host it established, multiplied, and became a violently invasive species and has since decimated many populations of ash trees throughout the Northern US and Southern Canada.

In Asia, the EAB is not a pest because Asian ash trees tend to be more resistant and there are less pests.

Its behaviors and impacts are much different in North America.

In urban areas ash trees are frequently planted because provide shade and look nice. Adult EABs don’t cause significant harm to trees, it’s actually the larvae. They live underneath the bark, feeding off the internal fibres of the tree, specifically, the phloem and the cambium of the tree, impeding water and nutrient supply to outer parts of the tree, causing it to die within three years.

The EAB has destroyed ash trees in the Waterloo Region for many years now, causing the deaths of tens of millions of ash trees.

New research at the University of Waterloo shows that with current atmospheric warming trends associated with global climate change, the EAB could possibly move further north to areas scientists thought were too cold for the EAB to survive, like Thunder Bay, Winnipeg and Calgary.

Kim Cuddington, a Biology professor at UW, creates mapped projections for the spread of the EAB throughout Canada and the slight increases in temperature in Western Canada could be just enough to keep the pest alive in areas as north as Saskatoon and Edmonton.

It is difficult to notice if an ash tree is infested before it is too late for treatment.

Some noticeable signs are loss of foliage and new shoots appearing on the trunk of the tree, which is the tree’s natural response to loss of foliage.

Closer to the end of its life, the bark of the tree will crack open or bulge near where the larvae are feeding.

Once a tree is infested, people can treat them or cut them down. Treatment is only possible for ash trees 15 centimetres or more in diameter that have lost less than 30 per cent of their foliage.

In urban areas, smaller trees and trees that are too far gone, must come down.

There is continued research for EAB eradication, and it is suspected that biological controls, population control via treatment of infested trees and regulations on transported materials, will control the EAB while ash trees gain natural resistance to the pest.

Mindfulness Meditation

Mediation is an ancient and misunderstood technique, that is about 3500 years old, the process of training the brain through the power of concentration.

Recently, scientists have studied the brains of meditators and found that meditation is able to change the structure of the brain.

Long-term meditators have developed abilities such as staying calm in pressure situations, more original and creative ideas, and increased memory.

Think about an iceberg. The tip is the only thing that is visible above the water, but that is only the smallest part. The tip is the conscious part of the brain, and the rest is the unconscious part. Every time we think, feel, or do something, we form a neural connection inside our brains. Those connections grow stronger the more we do those things, they also grow weaker the less we do them.

Many of our behaviors and reactions are unconscious, controlled by these strong neural connections that we have repeated so many times that they have become automatic. This is why the way we react in certain situations, is often involuntary and seemingly beyond our control.

Meditation helps create new neural connections in place of undesirable ones.

The majority of our thoughts are worries about the future or regrets about the past. These types of thoughts induce stress reactions that are not always helpful in the present moment. The more we worry, the better we become at worrying and the more we learn to negatively react to worrying. This can lead to overthinking, and several mental health issues such as anxiety and depression.

During meditation, you focus on breathing while allowing thoughts and feelings to come and go. This teaches you how to have certain thoughts without reacting to them. Thus, creating new neural pathways that the future are not followed by negative stress-reactions, but followed by remaining calm, breathing deeply and relaxing, which are all positive reactions. The more you practice meditation, the stronger these neural connections will go, leading to more positive automatic behaviours, rather than negative ones.

Meditation physically decreases the size of the amygdala, which is the fear centre of our brains and is where all our negative thoughts and emotions originate from.

This means that meditation can help us deal with stressful situations a lot more effectively, and calmly.

Meditation can also help improve productivity and reduce procrastination because it helps you spend less time worrying about things you cannot control, allowing more positive and creative thoughts and ideas to emerge. These scientifically proven benefits to meditation have lead the National Health Service (NHS) to recommend meditation for the treatment of a variety of mental health issues.

In the same way that good and bad habits form, the more you practice meditation, the better you will become at it and the easier it will be to concentrate and to control your thoughts, behaviors, and emotions. Meditation is not always easy. It’s more difficult to concentrate on some days than others, but to reap the true benefits of mediation, it is important to always try and remain consistent when practicing meditation.
With the increasing amount of need and interest in quantum radar technology, the University of Waterloo hopes to spearhead quantum radar technology research.

In April, UW’s Institute for Quantum Computing (IQC) received a $2.7 million dollar investment from the Canadian Department of National Defense for research and development of technology for a radar based on the principles of quantum physics. Jonathan Baugh, the lead researcher of the IQC, said this is essentially the creation of a fast and on-demand source of entangled photons.

Quantum radar technology exploits the phenomenon of quantum illumination (QI). This is where, rather than using a classical source of light, where many photons that are uncorrelated with each other, a quantum source of light is used, wherein photons are emitted in pairs that are correlated in a special way, or entangled.

The ability to exploit QI in radar technology gives numerous advantages over traditional radar technology. Traditional radars typically rely on emitting a series of radio, visible or micro waves and then measuring the time delay between those waves and the ones that bounce back after they have hit an obstacle, such as an aircraft, to gain information about that object’s shape, speed or location. The drawback of these traditional radar systems is that the waves are susceptible to atmospheric interference, or even radar jammers that are specifically designed to cause interference. Modern technology has evolved to a point where many military aircrafts have specific shapes and material coatings designed to absorb radio waves, making them invisible to traditional radars. The quantum radar seeks to resolve these problems, since they are not affected by the shape of the aircraft or atmospheric interference.

Baugh said the quantum radar can resolve these problems.

“In QI, for each entangled pair, you keep one photon (i.e. at your base station) and send the other to an object. You then perform a joint measurement on the two photons, assuming that the sent photon was reflected back by an object. This allows you to distinguish the photons that you sent out intentionally from stray photons in the background environment.”

The quantum radar is not affected by the shape of the aircraft or atmospheric interference, which is beneficial in very noisy environments and identifying weak signals. The quantum radar can use much less power than traditional radars, making it difficult to detect. This is especially important for areas such as Northern Canada, where the aurora borealis frequently cause interference with traditional radar systems.

Many stakeholders, especially the Department of National Defense, quantum radar technology is mature enough to replace NORAD’s 54 North Warning System which may need to be replaced by 2025.

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Meet Maverick, the autonomous painting robot

Charlotte Hings
Science & Tech Editor

Maverick can take the paint out of paint.
This past school year, engineering students from the University of Waterloo representing Mobile Intelligent Spraying Technologies (MIST) created a robot named Maverick that can autonomously paint walls. The development of such an advanced robot was surprisingly quick, taking only seven months from the conception of the idea to the Capstone presentation day.

The goal of the MIST team was to create something that they had never seen before and that would bring each team member’s skill sets together. The team has a lot of background knowledge in software, electrical and mechanical engineering. They also have connections to Silicon Valley, and several members worked at high-tech companies such as Apple, Facebook, Amazon and Uber.

Maverick was a design project for the 2018 Mechatronics Engineering Capstone, but has quickly become something important that could aid in the construction of new homes, as the MIST team discovered that managing painting schedules is one of the biggest delays for local construction companies. There are over 5000 painting-related injuries every year and an annual $1.5 billion spent on painters in North America.

With Maverick, these injuries can be reduced and cost efficiency in the painting industry improved.

The full design stage of Maverick was completed December 2017 and by mid-February 2018 the robot was ready for preliminary testing. The parts that make up Maverick are either 3D-printed or manufactured out of wood pieces. Maverick is equipped with a sensor and mapping technology that allow it to create a map of the entire room it is painting. The algorithms programmed in the robot, tell it what points on the map need to be painted and what parts have already been painted. Maverick then uses its drivetrain to drive around to these parts of the room and its elevator lift equipped with a spray nozzle allows it to paint up and down the walls to coat these spots evenly with paint. Maverick is also able to detect paint quality and make image processing decisions on whether to actuate the spray or not.

While Maverick is fully autonomous and requires no human interaction when operating, there are still more features that MIST would have liked to add to the prototype and will likely add to the robot before moving forward. Maverick can currently only paint 3-feet vertically, and the addition of a multi-skate lift can allow it to paint much larger vertical distances and entire walls and ceilings. MIST team member, Hammad Mirza, said his favorite feature of Maverick is the integration of the software of the different devices that allow them to communicate with each other. Utkarsh Saini, another MIST team member, finds the mapping technology of Maverick one of the most fascinating aspects.
Take fitness to a new level with shoe tags

Alexandra Hanrath  
Managing Editor

A

n all access pass to fitness is waiting for your running shoe.

The University of Waterloo Athletics department sells shoe tags every semester that give students access to a variety of fitness classes for $55, or $13.75 a month.

Rebecca George, a fourth-year Environment and Business student finds many benefits with the shoe tag program.

“There are organized classes with an instructor. Variety of classes to choose from, from full-blown workouts, to yoga to Zumba. For a very reasonable price you get to go to these classes and improve your fitness levels in a group setting. Takes the monotony out of working out.”

The shoe tag program gives students access to classes they’ve never been able to try before.

The UW athletics website says classes include cardio, strength, yoga, pilates, flexibility, and even aquatic exercises.

The only disadvantage for Rebecca is that there are so many classes she’s interested in that she simply can’t take them all.

“Some of the classes are grouped too close together, so if you wanted to do multiple classes, it might get a little strenuous. Also some of the classes happen around the same time over different days which does interfere with school schedules.”

Another benefit of the program is that it’s widely inclusive, no matter the fitness level.

“A lot of the instructors go out of their way to accommodate students with different fitness levels, and provide modifications to exercises or poses to suit your comfort level,” she said.

If you’re still thinking about whether or not you want to sign up for the shoe tag program, Rebecca suggests her favorite class: Zumba.

“I really like Zumba with Yasmine,” she said.

“It’s Wednesdays at 6pm and it’s always so much fun. The dances are easy to learn and the instructor takes time to teach us the steps. The music is always good and the class has a very positive vibe overall.”

Getting your feet wet and working out in a group setting can take some getting used to. Which is why things like free fitness week, where students have a free trial period to try shoe tag classes, are a good start if you don’t want to commit financially.

Rebecca also recommends going with friends to have even more fun with working out.

“Go to the free fitness week and try out some of the classes,” she said. “Or get a few of your friends together and make this a group activity. These classes are a lot of fun to go to, both solo and in a group. The instructors are very friendly and make you feel at home in the classes.”

Shoe tags are available for purchase online at the UW Athletics website: www.uwathletics.ca.

Students can try free professional classes during fitness week at the start of each semester and during exam periods.
Sydney Wilson's hard work with the Waterloo Warriors basketball team made her an all-star. The 20-year-old therapeutic recreation student from Guelph played in the OUA Women's Basketball All-Star Game with the top women's basketball players in the league on May 5 in the PAC.

"It was just a huge honour I think to look up to the older girls I really respect in the league," she said.

"I never would have thought coming into first year I'd get to play in an all-star game."

The Waterloo Warriors hosted 18 players representing 15 post secondary schools for the 11th edition of the women's all-star game and will host the game next year as well.

Wilson, who played on Team Charles, scored five points during the game including a three pointer in the second and a layup in the third, but her team lost 69:68 to Team Burns.

"I think it just really honours everyone's hard work that is kind of shown throughout the season," Wilson said.

"It's a super fun opportunity to get to play with people you usually play against. I think it's a great opportunity to meet the girls and have that experience."

Wilson, who finished her second season as a Warrior this year didn't know if she would be able to score and was proud when she did. She also took the opportunity to learn from the girls around her. She kept an eye on how her teammates attacked the ball, took it to the net and their patience while doing it. She hopes to bring that to her own game next season.

"For me, it was super cool to even just score in the all-star game. I don't think I had a peak, the whole situation, just really taking it in and thought that it was awesome just getting to play with all different girls and see how they play their game and what makes them successful and how many I could bring into my own game," she said.

Wilson's goal is to work hard enough to make it back to the all-star game again.

"[I'm inspired to continue working on my game and try and really prepare for this upcoming season," she said.

She hopes to use the rest of her time at UW playing the game she loves with the Warriors.

Wilson has always played hard and studied hard because both are very important to her.

"This is what I love. I'll always do my best to improve," she said.

Wilson played in 23 of 24 games during the 2017-18 season scoring a team high 8.2 points per game while collecting 73 rebounds and 40 assists.

She is already training for this season by working out four times a week and practicing her skills on the court three times a week. The season starts this October and she will train until then.

Sydney Wilson represented the Warriors at the All-Star game and put two in the basket to add to her five-point total for the night.

Soccer prodigy joins Warriors September

Top recruit from Men’s Weekend ID Camp commits to Waterloo Warrior’s Men’s Soccer Team as a midfielder

Lukas Cimermanic has committed to playing on the Waterloo Warriors soccer team for the 2018 season.

Cimermanic is from Kitchener and currently plays for Waterloo SC in the Ontario Youth Soccer League (OYSL), the highest level of play in the province.

He is one of the key players for his team and will strengthen the Warrior midfield group.

"I'm very happy to have Lukas join our program, he will help improve our overall depth of our midfield unit," Head Coach Mark Worton said.

Cimermanic said he's excited to learn and play.

"The University of Waterloo offers the opportunity to learn from top rated faculty, collaborate with highly talented students and gain valuable work experience from its outstanding co-op program. I'm very excited to begin the next chapter of my life as a student and as an athlete on the Men's Varsity Soccer Team," the midfielder said.

Worton said building a team to match the standard of their is the goal.

"We continue to attract quality players to UWWaterloo as we build a competitive soccer program to match our high academic standards so we ensure that the student-athlete experience is enhanced," Worton said.

David Chung, from Ottawa, will also join the team this season.

He showcased his quality at the Inaugural UWWaterloo Men's Weekend Soccer Camp in May and then committed to the Warrior's Soccer program. He plays for Ottawa's United in League 1, which is the top Men's league in Ontario.

"We saw David play in an exhibition game in April at Waterloo and were happy to work with him at our weekend campwhere he further impressed us with his technical ability and awareness. We are thrilled to have David join our squad," Worton said.

Chung said he can’t wait to start training and studying.

"The reason I chose to attend the University of Waterloo is due to its unrivalled education and world renowned co-op program. I am fortunate enough to have not only been accepted into this prestigious university but also into their men's soccer program as well. I am very excited to become a part of the Warrior family and start my university soccer career with UW," Chung said.

Worton wants to offer players the best educational and athletic experience possible.

"We are attracting quality players who are enticed by our schools academic standards and want both a positive academic and athletic experience," Worton said.
Address mental health issues now

Not talking about mental health issues is killing students.

I have had the pleasure of leading Imprint Publications for two months, but in that time more than 15 students have come into my office asking if they can write a piece about mental health and suicide because they or their friends have had the urge to harm themselves.

The university has assembled a task force, the President’s Advisory Committee on Student Mental Health (PAC-SMH) to look into mental health as a reaction to suicides and a Student Mental Health Review from 2012.

The president of the university received the task force’s recommendations and held a forum on Mar. 7 to talk to students about them, but I have not seen tangible results.

I understand that revamping an institution’s practices and policies to better reflect the needs of students takes time, but I think this task force is a half measure.

It may benefit students in two to five years, but students are dying now.

What is the university doing to help students right now?

One thing they aren’t doing is participating in Mental Health Week.

Welcome Week fell on the Canadian Mental Health Association’s Mental Health Week, but events did not focus on mental health, when there were no pamphlets handed out in the SLC to let students know where to go, or who to contact in case they did face mental health instability.

Students were left to fend for themselves.

Events surrounding mental health seem to take place near the end of the semester.

It would make more sense to me to give out mental health information in the beginning of the semester to help students deal with stress and triggers throughout the semester instead of letting it build.

I know students can easily Google mental health resources when they are in a good place, but when they are in a bad place will they reach out for help if it takes time to find what you are looking for? Maybe not.

Would they remember the information from an event or pamphlet? Maybe no, but I think it’s worth a shot.

Victoria Gray
Executive Editor

FEDS: make Spring great

Welcome to spring term from your undergraduate student union, Federation of Students!

If we haven’t met before, let us introduce ourselves: we’ve been representing University of Waterloo undergraduates for over half a century, bringing issues that are important to students to the University, the city, the Province, and even the federal government – issues like tuition, mental health, housing, campus safety, and transit; and providing services that students need, like affordable food options on campus, equity and diversity services, mental health support, anc clubs – hundreds of clubs, in fact – to provide support and to keep campus life engaging outside of the classroom. As an undergrad, you’re already a member of Feds.

We hope you enjoyed our Welcome Week events toward the end of the term – they focus on helping you rest, relax, and prepare for the final push of the term.

Feds’ new Executive team started their roles on May 1:

Richard Wu as president,
Matthew Gerrits as vice-president education,
Savannah Richardson as vice-president student life, and
Kurt MacMillan as vice-president operations and finance.

You’ll be seeing a lot more of them around our main office in SLC 1106 and across campus at student events over the next year.

If you run into one of them, be sure to introduce yourself!

With the provincial election coming up, we’ve invited local candidates from the Liberal, Conservative, NDP, and Green parties to come to campus and chat with students in a casual setting at The Bomber. Check out our Politics at The Pub series on our Facebook page for more info.

And on election day, we’ve arranged to have a polling station on campus, so you don’t have to worry about finding or getting to your polling station.

The best part? Anyone can vote there – students, staff, faculty – regardless of your riding. Students’ voices matter, so stop by the SLC Multi-purpose Room on Jun. 7 to cast your vote!

We encourage you to come out and get to know us this term, whether that’s joining one (or more!) of our hundreds of clubs, taking part in our Wrap Up Week or other special events, accessing one of our academic supports, or grabbing lunch at The Bomber.

Want to make a difference on campus? Consider volunteering with a student-run service or getting involved in student government. And if you’re looking for work, Feds employs hundreds of undergrads each year.

You can find more info on your student union at feds.ca.

Lisa Umholtz
Communications and Media Relations Specialist
Mental health and capitalism

Mental illness is increasing among the young. According to CMHA statistics, in any given year, one in five people in Canada will personally experience a mental health problem or illness and, by age 40, about 50 per cent of the population will have or have had a mental illness. I don’t know about you, but I find that scary. People near and dear to me are taking medication for mental issues. Taking medication is becoming so prevalent that people on dating websites are writing on their profile, “non-medicated” as a personal attribute!

Most of the material I have read view mental illness as a personal or biological issue with sometimes a passing mention of environmental factors. Although there is a biological and personal link, I am interested in the connection between mental illness and our economy.

I think if it was solely an individual issue there would be cases here and there, but it wouldn’t be so generalized. The fact that 50 per cent of people in Canada suffer from mental illness by the time they’re 40, makes me suspect social issues, something we are all experiencing in this society that is leading to mental illness. And if part of it comes from social causes, we will need to apply social solutions as well as medicating individuals.

The recognition of mental health having a social cause is not even beginning to be acknowledged by some governments. We have the recent example of England and their new Ministry of Loneliness which was established to deal with the epidemic of loneliness in Britain. In an article by the Guardian by Natalie Gill, she cites the Mental Health Foundation in 2010 found loneliness to be a greater concern among young people than the elderly. Th 18 to 34-year-olds surveyed were more likely to feel lonely often, to worry about feeling alone and to feel depressed because of loneliness than those over the age of 55.

According to Johann Hari’s latest book, Lost Connections, we are essentially social beings since we lived 150,000 years in hunter and gatherer societies of 50 to 100 people. The only reason we were able to survive hunting bigger and more dangerous animals than us was our ability to cooperate and work together. After the establishment of agriculture 10,000 years ago, we started to leave the nomadic lifestyle and settled in communities that resemble how we live today. After living thousands of years in groups and in cooperation with others, we are wired for cooperation and socializing.

When Capitalism’s relations began in England around 500 years ago, these cooperative instincts ingrained in us no longer served the demands of the system. Capitalism needs us to be individualistic, acquisitive, non-cooperative, profit maximizing consumers. It takes a lot of effort and suffering to go against the grain of our 150,000 year cooperative nature to become individualistic profit maximizers in 500 years. This effort at always going against the grain leads to mental anguish.

I don’t know if I can say I feel depressed, bipolar, psychotic or any other condition, I don’t want to label it. But I do know that I am not happy; I don’t feel joy most of the time. I do not feel creative or feel alive all the time. I feel anxious. I don’t feel satisfied. And I think this anxiety reflects the gap between what I am and what I could be if the system allowed me to fully express my true human nature. I sometimes feel an impending sense of doom. And I don’t say this to elicit pity or compassion.

Eduardo Queiruga
Community Member

See the full article at www.uwimprint.ca

If you can’t make your own serotonin, store bought is fine

There’s no doubt that situational and environmental factors affect our mental health or that there are biological factors which lead to a person’s mental health disposition—the entire field of epigenetics proves this. But to outright say “don’t chemicalize, organize!” seems vastly reductive regarding mental health treatment.

I take many issues with the above opinion piece, but I am going to focus on the statement: “there are two ways to change your reality: one is chemical, inward focused and short term that leaves your reality unchanged after a brief chemically induced hiatus. The other is social, outward focused and longer term and has a chance to change the outer reality.”

I take two issues with this statement—one is the implication that the half-life of a medication makes it a short-term solution. Insulin is no more a short-term solution to a type 1 diabetic than SSRI’s are for depression.

A common misconception is the thought that doctors are handing out medication like candy; but this is not how the medical process works. It is protocol to go through the patient’s individual and family medical history and also rule out the possibility of current situations being at fault for the patient’s mental state. If they are at fault, the person is recommended counselling, rather than medication.

The other is the implication that the social environment is a long-term solution. The social environment around us is constantly changing—university is only four years. Even if one is to change their social environment at university, it will only affect a person’s present mental state. We are constantly changing jobs, courses, roommates, houses, friends. All of this is to argue that our social state is not a long-term solution. Of course, there are exceptions such as leaving an abusive household, escaping from a destructive government, fighting against life-changing policies, but even still, no aspect of our social life is static.

I want to be clear—I am not arguing that our social situations do not affect our mental health. It is important we respond to our social situations in a way that benefits us and leads to positive mental health changes. But it is also important to understand that mental illness—schizophrenia, bipolar disorder, depression—all have biological and chemical foundations that need to be treated. It is important we stop fear mongering against medication with misinformation, and instead look at it objectively, as one part of a vast set of treatment methods. Medication will work for some, and not for others.

Tanisha Mehta
48 Biomedical
upcoming events

May 2018

For all of UpTown Waterloo May activities visit www.uptownwaterlooblog.ca.


Thursday, May 31
Guitar Magic - two of Canada’s finest guitarists, Emma Rush (classical guitar) and James Bryan (Philosopher Kings), come together for “jazz meets pop” for a night of pure guitar magic! Doors open at 7 p.m. at Huther Hotel Jazz Room, 59 King Street, N., Waterloo. For tickets/Info, www.evenbrite.com or 905-807-4792.

Sunday, June 3
Prayer in the Park - one church assembled together, praying in unity, seeking God in Waterloo Region, from 1:30 to 4:30 p.m., Viktoria Park, Kitchener at the Clock Tower. Bring a chair/blanket to sit on. Kitchener parking lots are free on Sundays. For more info www.prayerinthepark.ca or FaithFM 93.7 radio.

Saturday, July 7
Cherry Festival - at Cherry Park Kitchener (entrance Park and Strange Streets) from 11 a.m. to 6 p.m. Live entertainment, delicious food vendors, children’s activities and lots of attractions such as rock climbing, vintage car show, mini golf, etc. For more info www.cherrypark.blogspot.com.

Volunteering

Cherry Festival needs volunteers to help out Saturday, July 7 at the event located at Cherry Park. For more info www.cherrypark.blogspot.com.

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 519-605-0196.

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 our FB: NJT Waterloo!

workshops

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

Monday, June 4
Get a Job Using LinkedIn - 4:30 to 6:33 p.m., TC 1208. Seating is limited, register early.

Tuesday, June 5
Exploring Your Personality Type (Myers-Briggs Type Indicator) Part I - 1:30 to 3:30 p.m., TC 1112. 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. For more information, please see website chart for details.

Tuesday, June 12
Challenge Yourself: International Co-op Work Term Opportunities - 12:30 to 1:30 p.m., TC 1208.

Exploring Your Personality Type (Myers-Briggs Type Indicator) Part II - 1:30 to 3:30 p.m., TC 1112. Student materials charge of $15 payable at the Centre for Career Action prior to the session; Alumni fee is $27. Once registered and paid, you will be given information to complete the MBTI assessment online. Assessment must be completed 2 business days prior to workshop.

SPRING TERM 2018 JOBS

UW WORK STUDY

VOLUNTEER COORDINATOR

May 1 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/resume/portfolio samples to editor@uwimprint.ca or drop in to the office, SLC0137. Finances pending.

EDITORIAL ASSISTANT

May 1 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.

SOCIAL MEDIA EDITOR

May 1 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.

SALES ASSISTANT

May 1 start; Monday to Friday, part-time; $14.00/hour. Assisting the Advertising and Production Manager with existing and new cold-call sales, the purpose of advertisers promoting their business in Imprint to the UW community and a 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.

SALES ASSOCIATE

May 14 start; Monday to Friday, 55 hours/week; $15.00/hour; 10 weeks. Assisting the Advertising and Production Manager with existing and new cold call sales, the purpose of advertisers promoting their business in Imprint to the UW community and the general public in Waterloo, Kitchener, Cambridge, and Stratford. Must have valid driver’s license and reliable vehicle. 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. Canada Summer Jobs position - finances pending.

AVAILABLE UW WORK STUDY POSITION REQUIREMENTS

You must be a full-time student and OSAP eligible. 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.
Q: How many ants does it take to fill an apartment?
A: Tenants!

SOMETHING, SOMETHING, CONSTRUCTION SEASON...

AF, OUT OF THE HEAT AND HOME SWEET--

Outta the way!
Construction Fairy comin' through here!

AND THEN I TOLD HIM THAT THE PLURAL OF HEFFALUS IS HEFFALI AND HE SAID--

AND THEN I TOLD HIM THAT THE PLURAL OF HEFFALUS IS HEFFALI AND HE SAID--

SSHHHHHHH!

COPS... KEEP YOUR HEAD ON A SWIVEL.

New Alarm Clock

Hey, what's up? You look pretty tired.

Well, you see Dave, I got a new alarm clock against my own will...

Every morning it wakes me up at 4:30 and I can never get it to stop!

* "Honk! Honk!" is goosenese for "awaken mortals!"