

the gazette

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QUEEN'S REMEMBERS

UNIVERSITY COMMUNICATIONS

Director of Indigenous Initiatives Kanonhsyonne (Janice Hill) speaks during the unveiling ceremony for a plinth dedicated to the Anishinaabe and the Haudenosaunee peoples. The plinth, erected in the heart of Queen's campus, is the first in a series of monuments that will be built as part of the Queen's Remembers initiative. Story on Page 3.

PRINCIPAL'S PRIORITIES

Principal and Vice-Chancellor Daniel Woolf sits down with the Gazette to outline his goals, including both short-term and long-term priorities for Queen's University.



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Chancellor announces bursary for Indigenous students

BY PHIL GAUDREAU, SENIOR COMMUNICATIONS OFFICER

It was a conversation that challenged Chancellor Jim Leech (MBA'73), and made him wonder what he could personally do to help.

Approximately a year and a half ago, then-Governor General David Johnston convened a first-ever gathering of all Canadian university chancellors. One of the topics of conversation at that meeting: the Truth and Reconciliation Commission, and the responsibilities of universities and of those in leadership positions to help.

That call to action built on what Chancellor Leech had been hearing and seeing for himself since he started his three-year term as chancellor in 2014. He had participated in a breakfast at the Four Directions Aboriginal Student Centre, attended some of the Truth and Reconciliation Commission Task Force sessions, took part in a blanket exercise with the Aboriginal Council of Queen's University, and got to know then-Director of Four Directions Janice Hill.

"All of those things came together and I started thinking about what I could do to mark the end of my first term," says Chancellor Leech. "We know that for all students unplanned events happen, such as family issues or community issues, which may cause a student to drop out. If we've got someone who's come here and worked two or three years, it's a shame that they might have to drop out for financial reasons."

So, working with the Office of Advancement and Four Directions, the chancellor set out to es-



Working with the Office of Advancement and the Four Directions Aboriginal Student Centre, Chancellor Jim Leech has established a bursary for Indigenous students. The \$15,000 bursary is awarded on the basis of demonstrated financial need to Aboriginal students in any year of any faculty or school at Queen's University.

establish a bursary for Indigenous students. The \$15,000 need-based bursary is "awarded on the basis of demonstrated financial need to Aboriginal students in any year of any faculty or school at Queen's University." Recipients may be full- or part-time students.

"I remember when I was a student having friends who were towards the end of the year starting to get short on cash and a few hundred dollars might have made the difference between staying in school and dropping out," says Chancellor Leech. "The objective of this bursary will be to attract more students and give more stu-

dents opportunities so that we have more graduates who can contribute to society in their communities, acting as role models in our Canadian society and economy."

The creation of this bursary fund aligns with the recommendations of Queen's University's Truth and Reconciliation Commission Task Force Report. It will assist Indigenous students in fully participating in the academic and extracurricular life of the university and will promote inclusion, retention, and success.

"I am very pleased and honored that the chancellor chose this for his contribution," says

Kanonhsyonne (Janice Hill), Director of Indigenous Initiatives. "It is a pretty significant signal from the chancellor, and it is consistent with his efforts, dating back to the beginning of his term, to reach out to the Indigenous community. It is also very much filling a need – we have a lot of entrance scholarships but not a lot for those who are more senior students."

Applications are to be made via SOLUS to the Office of the University Registrar, Student Awards by Oct. 31, 2017. Visit queensu.ca/studentawards for information on Student Awards at Queen's.

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QUEEN'S UNIVERSITY VICE-PRINCIPAL (UNIVERSITY RELATIONS)

Michael Fraser

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Maclean's ranks Queen's amongst top universities

BY COMMUNICATIONS STAFF

Queen's held its position as one of Canada's leading medical-doctoral universities according to the Maclean's 2018 university rankings, placing fourth overall in the category.

Queen's trailed only McGill University, the University of Toronto and the University of British Columbia in the category that includes 15 universities with a broad range of Ph.D. programs and research, as well as medical schools.

In the student satisfaction

ranking Queen's moved up one spot to second, placing in the top three in eight of the 10 categories. Queen's led the way in terms of student life staff and extracurricular activities, and placed second in administrative staff, academic advising staff, residence life and bureaucracy (least red tape), as well as steps to prevent sexual assault.

"The results of the Maclean's rankings speak to the quality of a Queen's education," says Principal Daniel Woolf. "In particular, I am pleased to note that Queen's ranked second in the steps to pre-

vent sexual assault category in the student satisfaction survey, which reflects the hard work and importance the university and Queen's community has placed on making the university a safe and supportive environment for all students, staff and faculty."

Maclean's also provided statistics that showed Queen's is tops in the proportion of undergraduate students who graduate (89.5 per cent), second in student retention from first to second year (94.7 per cent), and fifth for average entering grade (89 per cent).

Queen's had strong results in

several other categories in the overall ranking, placing second in faculty awards and in scholarships and bursaries, while placing fourth in student awards and library expenses.

Queen's placed eighth out of 49 universities in the national reputational ranking, which surveyed high school guidance counsellors and businesspeople as well as university faculty and senior administrators. In the three categories of the reputational ranking, Queen's placed sixth for highest quality, eighth for most innovative, and 10th for leaders of tomorrow.



Queen's
UNIVERSITY



First Queen's Remembers plinth unveiled

BY PHIL GAUDREAU, SENIOR COMMUNICATIONS OFFICER

Visitors to Queen's University now have a new resource to learn about the traditional inhabitants of what we know today as the Kingston area.

On Monday, Oct. 16, Principal Daniel Woolf and senior executives; Indigenous leaders including Kanonhsyonne (Janice Hill) and Marlene Brant Castellano; and members of the Queen's, Kingston, and local Indigenous communities gathered to unveil a plinth dedicated to the Anishinaabe and the Haudenosaunee peoples. The plinth is the first in a series of monuments to be unveiled across campus as part of the "Queen's Remembers" initiative led by Principal Woolf.

"This is a heartfelt recognition that, before these limestone buildings were here and before the first class sat, these were the traditional lands of the Anishinaabe and Haudenosaunee peoples," says Principal Woolf. "For too long, our country's misrepresentation of history and mistreatment of Indigenous Peoples has been

hidden from view, only to perpetuate and contribute to their suffering. To move forward in healing, we must again acknowledge Queen's own history as an institution that participated in a colonial tradition that caused great harm to Indigenous people."

The plinth features a six-page weatherproof book, in both English and French, which highlights the history and the culture of the Indigenous community of Queen's, includes some information about Indigenous initiatives at Queen's University, and celebrates some of Queen's most prominent Indigenous graduates. It also includes a recognition, written in English, French, Mohawk, and Ojibway, that Queen's sits on the traditional territory of the Anishinaabe and the Haudenosaunee.

As part of the launch, a Queen's Encyclopedia page (queensu.ca/encyclopedia/q/queens-remembers) has been created regarding the Queen's Remembers initiative.

Information about future Queen's Remembers plinths will be shared as they are installed.



Principal Daniel Woolf and Director of Indigenous Initiatives Kanonhsyonne (Janice Hill) unveil a plinth honouring the Anishinaabe and the Haudenosaunee peoples, upon whose traditional lands Queen's is built.

UNIVERSITY COMMUNICATIONS

World-class cardiopulmonary research facility opens

BY ANNE CRAIG, COMMUNICATIONS OFFICER

The Canada Foundation for Innovation and the Ontario Ministry of Research, Innovation and Science have jointly awarded \$7.7 million in funding to establish a new, state-of-the-art facility, the Queen's CardioPulmonary Unit (QCPU) which opened its doors to the public for the first time on Friday, Oct. 6.

The new QCPU, housed within the Biosciences Complex, allows the team to conduct world-class, transformative heart, lung, blood and vascular research to identify novel therapeutic targets and evaluate them in preclinical studies. The QCPU team will then translate these preclinical discoveries to hu-

mans through investigator-initiated clinical trials located in Kingston, Ottawa, Edmonton, Chicago, Minneapolis, Salt Lake City, and Sao Paulo, Brazil.

QCPU is the brainchild of Stephen L. Archer, Head of Medicine at Queen's University and recipient of a prestigious Tier 1 Canada Research Chair in Mitochondrial Dynamics and Translational Medicine. QCPU is a catalyst that accelerates research and discovery.

"Unique aspects of QCPU include the assembly of potent research teams and the provision of state-of-the-art tools that exist in very few centres in Canada or indeed globally," says Dr. Archer.

QCPU is integrated with Kingston Health Sciences Centre,



Stephen L. Archer, Head of Medicine at Queen's University, speaks during the launch event for the Queen's CardioPulmonary Unit on Friday, Oct. 6, at the Biosciences Complex.

UNIVERSITY COMMUNICATIONS

designated as a hospital satellite, and offers a state-of-the-art cardiac ultrasound facility and cardiopulmonary testing facility to explore why patients with heart and lung diseases are short of breath. In addition, there are exam rooms for patients in clinical trials.

On the basic science side, QCPU has a two-photon confocal intra vital microscope, allowing scientists to peer inside organs, blood vessels and cells. There is also a micro-PET-SPECT-CT to study preclinical models of hu-

man disease, says Dr. Archer. Finally, QCPU has advanced facilities for cell culture, protein chemistry and a NexGen sequencer to assess the role of the human genome and epigenome in disease.

"QCPU also supports patients who are participating in clinical trials, and connects them with scientists who study disease mechanisms and clinician investigators who are inventing new more effective treatments. The air that investigators and students breathe

in QCPU is perfumed with creativity and a sense of discovery that focuses them on the identification of cures for heart, lung, blood, and vascular diseases. They are inspired and informed by the patients who pass through our center," says Dr. Archer.

The network will also patent and commercialize its discoveries through partnerships with PARTEQ Innovations, Queen's technology transfer group.

"QCPU will introduce a novel structure in which scientists who pursue the fundamental secrets of cells align with clinician investigators. This holds great promise for drug development and new therapies. Based on a model of research that is at its heart translational in nature, development will be directed by this unique interaction at the interstices of biomedical research," says John Fisher, interim Vice-Principal (Research). "Due to the comprehensive 'bench to bedside' scope of QCPU research, its investigators have profound control over the discovery-therapy pipeline, so that novel approaches and targets identified in preclinical studies can be moved into multicenter, investigator-initiated trials throughout North and South America."

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Principal outlines priorities for 2017-18

Principal Daniel Woolf has outlined his major priorities for Queen's University in 2017-18. In this interview with the Gazette, he previews what's to come this year.

How do your priorities advance the university's mission and build the Queen's of the future that you have envisioned and spoken about?

We are collectively building the Queen's of the future every day. It's a place of great traditions, and many of those traditions still survive from my time as a student. Yet no institution survives by staying in the same place. We need to adapt and change. We have made huge progress in the last few years, and I think our trajectory is simply going to continue upward.

My first priority as principal was to put our financial and governance house in order, develop a culture of planning, and introduce a new budget model – which has been done thanks to the hard work of the deans and our former provost. The last few years have been focused on putting in place the conditions for future success, including drafting documents such as the Strategic Framework and the Comprehensive International Plan, ensuring sustainable enrolment growth, improving town-gown relations, and working on our talent management.

My current goals are based on a three-year rolling plan, which includes short-term and long-term priorities. The 2017-18 underlying themes are primarily: catalyzing change, which relates to faculty renewal and research prominence; respecting our community, which includes diversity and inclusion as well as encouraging safe and respectful behavior; and an infrastructure strategy, which will look at the question of how we eliminate \$300 million worth of deferred maintenance in the next 10 to 12 years and, of course, how we will pay for it.

The faculty renewal effort underpins many of these priorities. It will support our commitment to equity and inclusion, enhance our teaching and learning by ensuring students receive mentorship from faculty with diverse backgrounds and experience, and will help us attract promising early- and mid-career faculty who demonstrate exceptional promise as researchers.

Achieving these goals will put us in a position to reach for much greater success in research and innovation. This should lead us, five to 10 years down the road, to an enhanced reputation as one of the most distinctive universities in the country in terms of the quality of its teaching, the quality of its stu-



PHOTO BY BERNARD CLARK

Principal Daniel Woolf's current goals are based on a three-year rolling plan, which includes short- and long-term priorities.

dents and faculty, the quality of its research, and its ability to innovate.

Looking ahead to the fifth year of our planned faculty renewal efforts, what difference will we see in the Queen's of 2021-2022?

You will see nearly a quarter of the entire faculty complement turn over between new hires, retirements, and other departures. We will have a number of younger faculty out of recent PhD programs with somewhat different approaches to pedagogy, community relations, and interdisciplinarity. You will also be seeing some mid-career and senior appointments in designated fields to firm up areas of established excellence and promising emerging subjects. Hiring these 200 new faculty is a strategic investment that will lead us into the future.

These new faculty will want to come here because we will be one of Canada's leading research intensive and teaching universities. They will want to be here because we are a place that recognizes innovation. They will be drawn by the good quality of life, the vibrant culture, and the affordability of living in Kingston. And they will have the chance to teach outstanding students in an environment where there is a great care for health and wellbeing, and in a place where we have made some thoughtful and strategic choices in terms of our research excellence.

The two primary lenses we are using to guide our hiring decisions are research excellence – the few areas at Queen's that have the capacity to be really world-leading – and diversity and equity, where we know that we have some work to do.

We cannot aspire to be a world leader in every single subject and every single discipline. We have

the capacity to make some choices to pursue areas – particle physics is an obvious one, but not the only one – where we can rank in the top 100 or higher. Making such choices does not disadvantage or diminish other areas. A rising tide lifts all boats.

The provost and I will be taking advice from the deans and the incoming vice-principal (Research and Innovation) in terms of what are the most promising areas. I say 'areas' rather than necessarily 'departments' or 'disciplines' since some will be multidisciplinary. We will also be appealing to our alumni, who recognize the importance of hiring and retaining the best and brightest, for support for endowed chairs and professorships to support our hiring plans.

Why are our research reputation and graduate student experience so important?

For Queen's to be where we need to be five to 10 years from now, we need to raise our game on research and graduate education.

We have an outstanding reputation as an undergraduate institution. We are one of the lead providers of a baccalaureate education, inside and outside the classroom. But it is important, if we are to be a truly balanced academy, that we are equally recognized for our research. It is not just an add-on – it is as big a part as the teaching and support for our faculty members.

Student engagement scores are solid on the undergraduate side. We have a little work to do on graduate engagement scores, and the deans are looking closely at how we can improve those. It's something we need to see some movement on in the next few years.

The graduate piece is really important because graduate students

contribute enormously to the university. On the science, technology, engineering, and math (STEM) side of the house, they work on research projects that are very much connected with their supervisor's research programme. They are a big part of the engine that drives research. On the non-STEM side, where that model occurs sometimes but is less common, they contribute to the intellectual life of the humanities and social sciences departments. Even in my current job I still supervise one or two graduate students. They keep me on my toes intellectually. And graduate students also enhance our teaching as TAs and Teaching Fellows.

What do you hope to achieve by implementing the international strategy, and what impact will this have on Queen's reputation?

Our international recognition has begun to improve through the great success our admissions and international teams have had in bringing people in. If you tell the world about us, they will actually come. Students who come here and return home build our reputation further.

Reputation is important. Apart from attracting fantastic students, it also has an impact on our ability to form international partnerships and secure international research funding. There is an awful lot of research money available in Europe and Asia, for example, which we could be accessing if we had more collaborative partnerships. We want to build on strategic partnerships with institutions we see as equal or better, opening up exchanges for students, creating opportunities for our faculty to have overseas sabbaticals and for faculty to come here on their sabbatical, and build more international

research collaborations.

At the same time, there is also funding to be had in industry partnerships. That, in turn, helps the city and our country. All of this is part of a virtuous circle which will further enhance our reputation.

As I suggested above, interdisciplinarity is important. To solve the problems of the world, physicists have to work with chemists, biologists have to work with environmental engineers and, frankly, all of them need the advice of the social sciences, arts, and humanities. Looking ahead in the next few years, I would like to see us move in a bolder direction to organize interdisciplinary entities that bring together people from different departments and faculties.

What do employees need to know and be aware of as far as Queen's financial competitiveness?

We have come a long way. We would not be hiring 200 faculty over the next five years if we had not got our financial house in order, and achieving this has very much been a collective effort.

On the staff side, Physical Plant Services has been managing our energy costs, saving us a good deal of money over the years. Advancement has been remarkably successful in getting donors to invest and I want to thank them for their hard work. Every dollar into the endowment produces 3.5 cents for particular things we need each year. When you have a large endowment, as we now do, that's a significant chunk of money.

We have staff in research services and the faculties who work with faculty members and students generating scholarships and operating grants, and those who develop new programs which have brought in additional revenue to the university. Senate has been exceptionally busy in recent years overseeing the development of new programs and exercising its academic oversight of their quality.

And we have a very engaged board of trustees and committees with a lot of financial acuity and experience, and they have helped manage risk and given us a sound financial strategy.

There is still some work to do.

We are getting close to resolving some of our long-standing pension issues, which remain a major financial threat. We have significant deferred maintenance challenges to address in the next few years, and it is not only our oldest buildings which need work. We are making progress, as you can see with the number of cranes, trucks, and workers around.

Continued on Page 5

A meaningful Conversation

BY DAVE RIDEOUT,
COMMUNICATIONS OFFICER

It's a simple, but powerful, formula. Take one part leading academic research, add a dash of journalistic flair, and mix in a robust digital presence. It is this winning recipe that has earned The Conversation, an academic journalism website, the participation of thousands of researchers worldwide, and captured the attention of millions of people interested in news with a healthy dose of academic rigour.

After a successful soft launch this summer, the Canadian national affiliate of The Conversation is running at full steam, having published hundreds of researchers' articles, including a number from Queen's. The university is a founding member of the national news platform.

"Our participation in The Conversation relays the importance and impact of disseminating and promoting the leading-edge research and scholarship happening at Queen's University," says Michael Fraser, Vice-Principal (University Relations). "The Conversation is a powerful tool for community engagement and is already bolstering the efforts of our researchers to share their expertise and build profile."

Over the course of the summer, more than two dozen Queen's academics contributed to The Conversation, sparking dialogue about the business of marijuana, how to improve the skills of tomorrow's doctors, recruiting more women to join the military, how to prevent irregular heartbeats, the meaning of The Tragically Hip's lyrics, and more. These faculty



and graduate students suggested topics, wrote columns, and submitted them to The Conversation. From there, professional journalists helped edit the articles to ensure consistency and clarity.

"The Conversation's unique model puts the researchers in the driver's seat when sharing their expertise," says Benoit-Antoine Bacon, Provost and Vice-Principal (Academic). "It is increasingly important that we convey the impact of our research and ideas beyond the academy, and we believe tools such as The Conversation are filling that gap in a powerful way."

THE STATS

The 33 articles published to date by Queen's experts have garnered a combined 167,000 reads and 166 comments on The Conversation's website.

Once the articles are posted to The Conversation's website, they are shared with a large network of Canadian and international media organizations through a "Republish" feature and posting via The Canadian Press Wire service. The work of Queen's academics has gone on to be featured in major North American newspapers such as The Washington Post, CNN, CBS News and The National Post, magazines like Scientific American, and national dailies as far away as Australia, where The Conversation was originally founded.

One of the most popular, and possibly most controversial, pieces was an article by David Maslove, clinician scientist with the Department of Medicine and Critical Care Program, about the need to regulate journalism in the same way his profession is regulated.

"Working with The Conversation's editorial team was great, with turnaround times between drafts that were much faster than what I'm used to in traditional academic publishing," says Dr. Maslove. "It was really gratifying to see the piece we created reach a wider audience and stimulate debate."

Another notable Queen's submission included Sarita Srivastava's (Sociology) "I wanna be white! Can we change race?" – a piece analyzing a recent controversy on transracialism. Dr. Srivastava's piece led to an invitation for her to speak during a symposium on the matter held at the University of Alberta.

"Writing for The Conversation has been a wonderful opportunity to reach a wider audience and to comment on current events as they are happening," says Dr. Srivastava. "The editor was extremely skilled in working with me to write in a more journalistic style, while maintaining scholarly content. Within days of my article's publication, I was invited to speak at an upcoming symposium on the same topic."

The Conversation is regularly seeking new academic contributors. Researchers wishing to write articles should contact Melinda Knox, Associate Director, Research Profile and Initiatives, at knoxm@queensu.ca.

Principal's priorities

Continued from Page 4

Our vice-principal (Finance and Administration) is developing a strategic asset management plan so we can identify which buildings are the most urgent for refresh or outright replacement. We have also benefitted from strong returns on our investments and a continued increase in student enrolment, though we must remain cautious and continue to address some of our financial risks.

What are the growth areas for Queen's reputation, and how do we get there?

Interim Vice-Principal (Research) John Fisher is leading our strategic research plan renewal process, and Deputy Provost (Academic Operations and Inclusion) Teri Shearer is leading the aca-

demical plan renewal. Both of these processes should be resolved later this year, pending approval by Senate, and those, in turn, will inform our next iteration of the strategic framework in 2019.

We need to develop a more pan-university approach to some of the things we do. As I suggested above, it's essential that we bring social sciences, humanities, and arts into some of our more well-known areas of strength. Among other things, they are going to be enormously important in our future digital strategy.

There remain some health and wellness challenges, especially around alcohol consumption, where student leaders have been working with us, and with community members, to encourage safe drinking. University Council

has a number of Special Purpose committees looking into matters of importance such as alcohol consumption on and off campus. And we need to remain vigilant on the issue of sexual violence, which is often related to abuse of alcohol.

Finally, we must consider what we can do to become a leader in policy innovation once again. I am expecting, in the next month or so, a report on the future of public policy at Queen's. I think it will give us some very interesting guidance on directions we might take, and the larger issue of Queen's in the Canadian and larger international public policy sphere. This obviously involves the School of Policy Studies but I think it can involve so many more of our faculty and students around the university.



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André Picard
Health Columnist
The Globe and Mail

The Stumbling Blocks to Health Reform

Date: Tuesday October 31, 2017

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RSVP at www.queensu.ca/sps

view point

Viewpoint offers faculty, staff and students the opportunity to reflect on a wide range of topics related to Queen's and post-secondary education. Email submissions or ideas to andrew.carroll@queensu.ca

Sleeping on your back increases risks of stillbirth

This column was originally written for and published by The Conversation Canada, which provides news and views from the academic and research community. Queen's University is a founding partner. Queen's researchers, faculty, and students are regular contributors. Visit theconversation.com/ca.

AMANDA ROSS-WHITE, HEALTH SCIENCES LIBRARIAN, NURSING AND INFORMATION SCIENTIST

Pregnancy and Infant Loss Awareness day on Oct. 15 draws our attention to a bleak statistic — an estimated one in four pregnancies end in a loss. Many of these are early miscarriages. But in Canada about one in 125 pregnancies end in a stillbirth — that is, the death of a fetus in utero after 20 weeks gestation.

Countries such as South Korea and Finland have much lower rates of stillbirth, so we know that there is more we can do to prevent it. There is research on the risk factors that increase the chances of a stillbirth. Yet many pregnancy guides do not give enough information about stillbirth, in the belief that women do not want to be frightened about pregnancy loss.

Information about how to prevent stillbirth needs to get into the hands of women who need it, even if it leads to an uncomfortable conversation. As a medical librarian, my job is to connect people to trusted information about their health. When dealing with a taboo topic, such as stillbirth, this is even more challenging as both health care providers and women might be afraid of increasing anxiety, rather than improving health.

We also want to ensure that women who have had a stillbirth in the past and may have slept on their back do not feel guilt over doing so. I know, because I myself have had a stillbirth. With the passage of time, I cannot honestly answer how I might have slept that night when my twins died, but it is still something that worries me.

While some risk factors are not things most pregnant women can change, there are two very simple things women can do, to lower the odds.

1. Count the kicks

There are two methods described in the medical literature about how to count your baby's kicks: the Sadovsky method and the Cardiff method. In the Cardiff method, you count 10 movements and record how much time it

takes for you to reach 10. In the Sadovsky method, you are asked to count how many movements you feel within a specific time frame, usually 30 minutes to two hours. In either case, the most important consideration is that you should be aware of your baby's normal movements.

Any decrease in fetal movement should prompt a phone call or visit to your health care provider immediately. We don't shame people for seeking medical advice when they have chest pains. Reduced fetal movements are similar to chest pains — a warning sign that something could be wrong. See your doctor or midwife and don't delay or feel guilty for taking up their time!

2. Don't sleep on your back

At last month's International Stillbirth Alliance conference, several researchers presented information to show that back sleeping increased the risk of stillbirth.

In the first study, researchers in New Zealand put 10 pregnant women who were otherwise healthy into MRI scanners, to see if they could see changes in blood flow when they were lying on their backs or on their left side. They found that cardiac output (how efficiently the heart pumps blood)

was the same in both positions.

However the blood flow and diameter of the inferior vena cava were reduced when lying on their backs. This affects how blood flows back to the heart from the body. The researchers speculate that this might contribute to stillbirths in some instances.

The second study, also from New Zealand, placed 30 pregnant women in a sleep lab. They monitored their breathing and position throughout the night to see if there was a relationship between lying on their backs and measured breathing. While none of the women met the criteria for sleep apnea, they didn't breathe in as deeply when they were lying on their backs.

Lastly, researchers in the UK interviewed more than 1,000 women about their sleep practices before pregnancy, during pregnancy and the night before their stillbirth (for those who had suffered one) or the interview (for women who had not suffered one). The women who had gone to sleep on their backs while pregnant were twice as likely to have had a stillbirth than women who had gone to sleep on their left side.

All of this was a follow up to earlier research which had pro-

posed the same hypothesis, that sleeping on your back increased the risk.

Women need accurate health information

Delivering timely information to prevent stillbirth is important, and withholding information out of a fear you'll frighten women is patronising at best and potentially dangerous at worst.

What's more, withholding information does little in an era where most people can get online and are not always equipped to evaluate what information is useful and how to put it into context. Health care providers can do more to partner with librarians on delivering evidence-based information to their patients. This is certainly true with information about pregnancy, but also in many areas of health where the information that needs to be delivered is complex, and requires more time to be evaluated than is available to most doctors.

Women deserve better communication about their health and the health of their babies when pregnant. While counting kicks and sleeping on your left side aren't a guarantee that you'll have a safe and healthy pregnancy, they are easy, low cost ways to reduce the risk.

lives lived

Queen's remembers Gord Downie

BY COMMUNICATIONS STAFF

Queen's University is mourning the death of Gord Downie (Artsci'86, LLD'16), lead singer of The Tragically Hip, a Queen's graduate and honorary degree recipient.

Downie died Tuesday, Oct. 17 in Toronto from brain cancer. He was 53.

"I'm saddened to learn of Gord Downie's death after a long and brave fight against cancer," says Principal Daniel Woolf. "Apart from his enormous musical contributions with Kingston's own The Tragically Hip, Gord devoted much of his energies during his final years to causes close to him, particular those connected with Indigenous reconciliation."

Downie graduated from Queen's in 1986, majoring in film studies. During his time at the university he and fellow band members Gord Sinclair



Gord Downie (Artsci'86, LLD'16) performs during The Tragically Hip's final tour. Downie died Tuesday, Oct. 17 in Toronto from brain cancer.

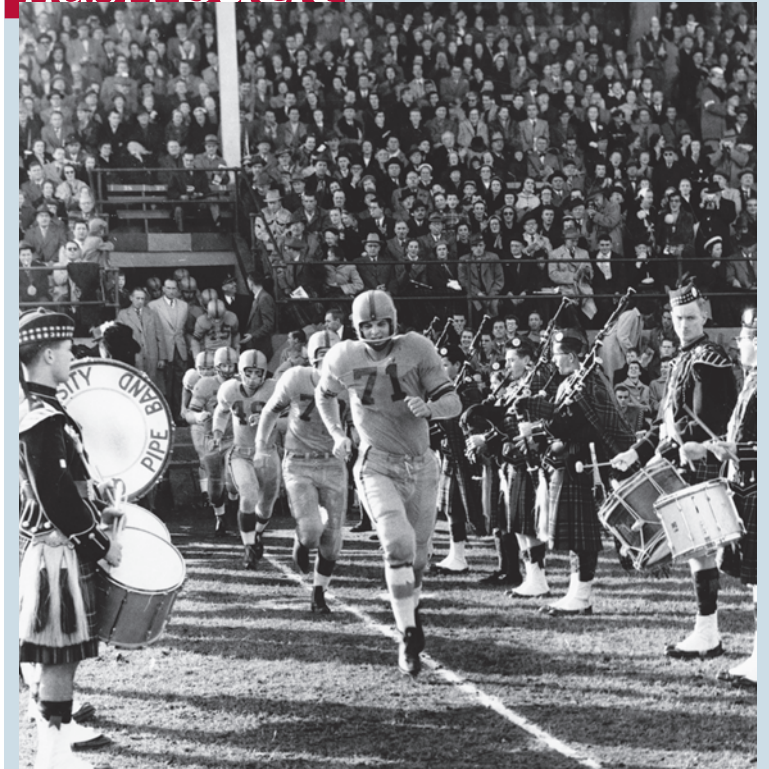
(Artsci'86), Rob Baker (BFA'86), Paul Langlois and Johnny Fay formed The Tragically Hip.

Over the next three decades the band remained connected with the university and in May 2016 Queen's conferred honorary degrees upon them. However, Downie was absent from the convocation ceremony. Days later he announced that he had been diagnosed with glioblastoma, an ag-

gressive form of brain cancer.

That summer, the band embarked on a final tour and raised funds in support of brain cancer research. On April 4, 2017, the Canadian Cancer Society recognized The Tragically Hip with a commemorative plaque in honour of their support for cancer clinical trials at the Canadian Cancer Trials Group, which is housed at Queen's.

flash back



The Queen's Gaels football program has a long and storied history, having won four Vanier Cups as well as three straight Grey Cup games in 1922-24. This photo from 1955 shows the "Golden Gaels" running onto the field with the Queen's University Pipe Band at Richardson Stadium.

Queen's in the news

Highlights of Queen's experts in the media from Oct. 5-19

NEWSPAPERS

Kip Pegley (Dan School of Drama and Music) discussed the relationship between politics and music with the London Free Press.



Ken Wong (Business) discusses the history of Sears Canada with the Toronto Star following the company's announced shutdown.

Arthur Cockfield (Law) wrote for The Globe and Mail about the Law Society of Upper Canada's demand that their members sign a "Statement of Principles".

Don Klinger (Education) discussed the relationship between gender and literacy achievement in Ontario schools in the Kitchener-Waterloo Record.

Arthur McDonald (Physics, Engineering Physics and Astronomy, SNOLAB) wrote about the relationship between fundamental science and technological innovation for the Chronicle Herald.

John Smol (Biology) says in the

Globe and Mail that scientists don't have the luxury to disregard the observations of northern Indigenous peoples who are on the front line of climate change.

Bruce Pardy (Law) commented in the National Post in regards to a new policy being pushed by the Upper Canada Law Society, saying at the core of free speech is the liberty to criticize the content of the law.



ONLINE

Don Drummond (School of Policy Studies) and **David Walker** (Executive Director of Policy Studies) commented on cbc.ca on long hospital wait times.

Damon Dagnone (Emergency Medicine) had his op-ed on medical education published in The Conversation.

Christopher Booth (Medicine, Oncology) spoke to CBC about the challenging debate about whether it's acceptable to expose patients to

toxic and expensive drugs for limited survival gains.

Robert Morrison (English Language and Literature) wrote for The Conversation about John Lennon and Yoko Ono's relationship with Canada and their meeting with Pierre Trudeau.



Peter Hodson says in the National Observer that there is a huge amount of research information that the Canadian government has chosen to ignore when deciding to approve oil pipelines.

Craig Goldie (Medicine, Oncology) examines the evolving nature of palliative care in Canada for The Conversation, National Post and Maclean's Magazine.

Amanda Ross-White (Health Sciences Library) wrote for The Conversation about strategies pregnant women can use to lower the risk of still birth.

Claudio Soares (School of Medicine, Psychiatry) commented in Healio that clinical practice and re-

search are moving into the era of technology.

David Walker (Executive Director School of Policy Studies) says it is crucial that new investments in health care be targeted at 'anti-gridlock' initiatives in CBC Online.

Evan Dudley (Smith School of Business) says Apple's deals at the beginning of the year were really because the Fed and the Bank of Canada were on two different interest rate tracks, in Financial Pipeline.

Gerald Evans (Biomedical and Molecular Sciences, Division of Infectious Diseases) says Canada may be in for a miserable flu season in globalnews.ca.



TELEVISION

Christian Leuprecht (Political Studies) appeared on BNN talking about a proposed cannabis tax; spoke to Global National about the mass shooting in Las Vegas.

Nathalie Ouellette (Physics, Engineering Physics and Astronomy)

discussed the harvest moon on the CKWS Morning Show, and contrasted the science of space exploration with the fictional university of Star Trek for The Conversation Canada and the National Post.

Judith Davidson (Psychology, Health Sciences) spoke to Global National News about a new report from StatsCan regarding Canadian sleep habits.



RADIO

Ed Struzik (Institute for Energy and Environmental Policy) discussed how and why wildfires are becoming more frequent and more extreme with CKNW NewsTalk 980.

Warren Mabee (Geography and Planning, School of Policy Studies) discussed Canada's lesser-known carbon-fighting policies with the National Post, and commented on Energy East's pipeline decision with CBC Radio.

Students hard at work in the community

BY PHIL GAUDREAU, SENIOR COMMUNICATIONS OFFICER

It may be early into the new academic year but Queen's students are already hard at work in the classroom and in the community.

"We are proud of the work that so many students are doing to improve their communities," says Palmer Lockridge (Artsci'17), the Alma Mater Society's Vice-President (University Affairs). "Queen's students have a long and proud tradition of volunteerism and leading the way on fundraising and community involvement. They recognize that they are members of a broader community while at Queen's and have a responsibility to contribute meaningfully."

Soon after the new group of students arrived for the fall term,

garishly attired engineering students fanned out into the broader Kingston area selling chocolate covered nuts in partnership with four local Rotary Clubs. This year's "Go Nuts" fundraiser brought in \$20,000 in support of a number of local charities.

The engineering students were also busy in late September with their annual "Fix'n'Clean" volunteering effort. About 360 students gave up their time to help Kingston residents in need of assistance over a weekend in September. In total, the group helped 70 members of the community with some yard work, painting, organizing, and cleaning, and they plan to do it again this winter.

"Through my position with EngSoc I have the unique opportunity of witnessing the full breadth of the events we organize



First-year students gather in the main gym of the Athletics and Recreation Centre as they prepare for the annual Shine Day in September.

to do our part in giving back," says Jordan Pernari (Sc'19), Director of Community Outreach with the Engineering Society. "Whether it was by raising over \$4,000 during our Terry Fox Run, having over 100 people join the Canadian Blood Service's stem cell database, or doubling the number of volunteers participating in Fix'n'Clean this year from last year, our students' kindness truly knows no bounds. I'm amazed by the overwhelmingly positive and enthusiastic response we've seen so far."

Also in September, the Shinerama Campaign at Queen's got underway as part of national university-based campaigns supporting cystic fibrosis research. The

campaign includes the annual Sidewalk Sale; Shine Day, which formally introduces first-years to the campaign; and a tour of the town. Funds are still being raised, with one final event scheduled for Oct. 21. Campaign organizer Leah Slater (Artsci'18) with the Arts and Science Undergraduate Society says it has been a 'successful year' and they look forward to announcing the total on Oct. 29.

One recently concluded student campaign was organized by the MBA student Charity Gala Team. Their campaign runs through the spring and summer culminates in a gala event at the end of August. This year's campaign, in support of St. Vincent de

Paul Society Kingston, raised over \$20,000 – far exceeding the campaign goal of \$15,000.

"It was a really positive experience and I joked that I would love to come back next year and participate again," says Elizabeth Pratt (MBA'18), who chaired the campaign. "One of the reasons this year's campaign was so successful is that we were able to bring the community into the campaign and drive more attendance from outside Queen's. I hope future classes keep building on that reputation."

You will also start to see the Room to Read Queen's Chapter kick into high gear in November as part of their annual 'Literacy Awareness Week'. The club is affiliated with the international not-for-profit which focuses on literacy and gender equality in education in many developing countries. Co-Chairs Crista Leung (Con.Ed'18) and Kathleen Waterston (Artsci'19) say you can expect to see Room to Read's literacy awareness campaign around campus, including posters and sales. Their biggest fundraiser takes place in January in Stauffer Library, as club members camp out as part of their "Live-in-for-Literacy" initiative.

For a full listing of clubs at Queen's, including the many charitable clubs and their fundraising and volunteering efforts, visit myams.org/clubs-directory.

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Essay earns global writing award

BY ANDREW CARROLL,
GAZETTE EDITOR

When Eden Gelgoot completed her final term paper for the course Conservation Principles: Cultural Heritage Preservation (ARTH 404), she knew that it was a solid work, involving many long hours of effort, from preliminary research to writing to editing.

Happy with the final product she decided to submit it to the Undergraduate Awards, an international essay competition based out of Ireland recognizing top undergraduate work. This year there were nearly 6,500 submissions from 299 institutions in 47 countries.

Weeks passed and she thought little more of the competition.

She went on to graduate from Queen's with a BSc (Honours) with a major in life sciences and a minor in art history. She completed an internship at Johns Hopkins Hospital in Baltimore where she participated in clinical shadowing, did promotional work for the Academy of Clinical Excellence, and worked on a project that uses paintings to promote a humanistic approach to health care delivery. During the summer, she worked as a head counsellor at a residential summer camp in Algonquin Park.

Then, in September, Ms. Gelgoot was notified that her essay, *The role of the UNESCO World Heritage List in the commemoration of World War II*, was judged the



Edén Gelgoot (Artsci'17) is headed to Dublin, Ireland to present her essay *The role of the UNESCO World Heritage List in the commemoration of World War II*, after it was selected as a Global Winner for the Undergraduate Awards.

Global Winner in the Art History & Theory category. As a result she has been invited, all expenses paid, to present her work in Dublin at the UA Global Summit in November. The essay also will be published in *The Undergraduate Journal*.

"I am excited to travel to Ireland to present my work and to meet people from schools all around the world. I really didn't

think anything would come from it so I was pretty shocked when I heard the news," she says. "It has given me a boost of confidence in my own abilities in terms of writing and creating a work of original research."

Ms. Gelgoot had taken a course in second year, Culture and Conflict, with Cathleen Hoeniger (Art History and Art Conservation) which eventually led her to enroll

in Conservation Principles in her fourth year.

"The reason I took this second course with Dr. Hoeniger is that it offered the intersection between the arts and sciences that I was looking for," she says. "The field of art conservation offers the potential to combine my interests in terms of the technical aspects of art conservation and of the art historical components as well."

During the course, students look into aspects of cultural heritage preservation and conservation through discussions, readings and presentations, with a focus on the development of UNESCO and the World Heritage List. The course culminated in a research project that required students to examine two cultural heritage sites on the World Heritage List.

It was her initial interest in Auschwitz that led her to investigate the role of the World Heritage List in the commemoration

"Coming from a Jewish background I was interested in Auschwitz. I was interested in not only looking at the Holocaust but also the Hiroshima bombing and how the World Heritage List helps to commemorate the injustices that happened and to further the memories of these events."

– Edén Gelgoot

of the Second World War.

"Coming from a Jewish background I was interested in Auschwitz," she says, adding that UNESCO itself was developed as a response to the Second World War. "I was interested in not only looking at the Holocaust but also the Hiroshima bombing and how the World Heritage List helps to commemorate the injustices that happened and to further the memories of these events."

Turnitin available through onQ

BY COMMUNICATIONS STAFF

Turnitin, a text-matching tool that can be used to encourage and maintain academic integrity, is now fully integrated with the onQ learning management system and is available for any course at Queen's University.

During the 2017 Winter Term, the university conducted a test run of the tool in approximately 10 undergraduate, graduate, and on-line courses. This pilot provided a useful test of the supporting technology and information on how to integrate the tool into academic courses, says pilot participant Richard Ascough, Associate Dean (Teaching and Learning), Faculty of Arts and Science.

"Turnitin is a powerful tool for student engagement with the skills of scholarly writing," he says. "I used it to help my students refine and nuance how they integrated secondary sources as

conversation partners into their research essay writing."

Turnitin is currently used by numerous post-secondary institutions across North America, with more than 25 million users – instructors and students – globally. While it is primarily seen as a tool to help detect plagiarism in course assignments, Turnitin can also be used to support the development of scholarly writing skills. Once a paper is submitted to Turnitin, the program provides a report on how closely it compares to previously written material through an analysis of word patterns. The writer can then address the issues before making a final submission.

Turnitin is now available for any instructor who wishes to use it, but Dr. Ascough says that it is important for instructors to start planning early before introducing the tool to a course.

"Like any new pedagogical tool, integrating Turnitin into my

course took some up-front time investment, both in learning the technology and in thinking carefully through designing for its use pedagogically," he says. "It did, however, pay off in terms of student learning. I would definitely build on my initial forays by integrating further in subsequent course offerings."

Support for instructors is being provided by the Centre for Teaching and Learning (CTL). For detailed instructions on integrating Turnitin into a course, visit the Turnitin page on the CTL website. Instructors looking for assistance with the integration can contact the IT Support Centre at 613-533-6666. Support sessions for setting up Turnitin in onQ and making best use of the tool are available every Thursday from 2-3 pm in the CTL. For more information or to book a session, contact Selina Idlas, onQ Educational Technology Analyst.



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The future of entrepreneurship at Queen's

Greg Bavington (Sci'85) has signed on for a second five-year term as executive director of the Dunin-Deshpande Queen's Innovation Centre (DDQIC), overseeing student and community entrepreneurship initiatives at Queen's. The Gazette sat down with Mr. Bavington to learn more about him, and talk about plans for the term ahead.

Tell us how you came to be at Queen's, and why you decided to renew for a second term.

"One of the first things I tell people is I am a bit of a misfit at a university. My background is very different from that of most people who work and teach at Queen's. But one of the things I have noted in my career, and something which we teach our students in the DDQIC, is the importance and power of diversity on a team.

I spent 28 years in the private sector and I still have a foot in the private sector. The last 20 years of my career were spent in entrepreneurial roles, which requires a very different mindset than being an employee. When I exited my last company in 2012, I had planned to do a lot more cycling and sailing. But it happened to be just a couple of months before the first version of what is now called the Queen's Innovation Centre Summer Initiative program was launching, and I was member of University Council at the time.

Then-Dean Kim Woodhouse (of the Faculty of Engineering and

Applied Science) asked if I could spend some time that summer helping out. I knew I wanted to do something very different.

By the end of the summer, I saw that nothing could be more different. All that change was great... and it also happened to be an institution that I had a lot of room for in my heart. I am a proud alumnus and I could see, as the summer went on, how somebody who is a bit of a misfit could be welcomed and supported and could help a lot by adding on to what Queen's was already doing in terms of supporting entrepreneurs and innovators."

Paint a picture for us of how far things have come in the last five years for Queen's innovation and entrepreneurial efforts.

"The overarching feeling that first summer, in 2012, was that this was going to be the start of something big.

We realized our program and our goals had significant alignment with Queen's overall strategy and priorities. One priority the university recognized was that it had to elevate its international importance. Another is that it had to elevate its research prominence – the visibility of the impact it makes on society through the research it does. The third theme was that it had to do a better job of supporting innovation and entrepreneurship, particularly but not exclusively student led. I suppose the fourth would



As executive director of the Dunin-Deshpande Queen's Innovation Centre (DDQIC), Greg Bavington (Sc'85) oversees student and community entrepreneurship initiatives at Queen's University.

be how Queen's serves the community in which it sits – a social and economic development mandate.

We hit one of those themes in a very small way that first year in supporting student entrepreneurship. The last few years have been spent really building out those other themes.

On the international side, we have launched our Global Network, incubated companies that have had an international impact or won international recognition, and we have just started turning our minds more seriously to social enterprise, (creating businesses which both make money and improve the community around them), both internationally and regionally.

What do you see in the coming five years? How will the DDQIC grow and change?

"The pillars I talked about are pretty durable. Sometimes a gigantic success creates a centre of excellence that is difficult to anticipate – like having a Research in Motion (now) Blackberry fall into the lap of your region which could completely shake up the innovation ecosystem. I predict it could happen in Kingston. I don't dare predict which industry it would be in, but if it happened that would be something we would have to acknowledge and support. It could even start in our centre – there's every chance it could.

Being adaptable is important because our centre has grown significantly. It becomes more of a

challenge to remain adaptable as you grow. We have to embrace the growth while trying to stay nimble.

We also need to build out the social enterprise side of our offering. We do some of this already within our existing programs, but to do it really well, we need some dedicated or specialized effort. One of our team members is going to the Deshpande Foundation in India for three months this winter. That's an institution that has knocked it out of the park in terms of scaling and making real economic and social impact with the projects they have executed on. We want to see how they have done it, learn about their successes and failures, and give some very careful thought about what is translatable to the Canadian situation. We know there are significant portions of Canadian society that have not fully participated in the success we call Canadian society. We have a lot to learn from places like India.

Our connection with scholarly research is a big theme going forward. We have to knit our various disciplines, connections, and research together more energetically and thoughtfully, ensuring that every piece of intellectual property that is generated at this place gets a serious looking-at by the people who can determine whether it is something that should be brought out into the light of day and tested by the market."

Queen's a finalist for global engagement award

BY DAVE RIDEOUT,
COMMUNICATIONS OFFICER

Queen's University is one of four finalists for the Institutional Award for Global Learning, Research & Engagement, an annual honour handed out by Association of Public and Land-grant Universities (APLU). The award recognizes an institution at the leading edge of inclusive and comprehensive efforts to internationalize their campus.

Also nominated are the University of Calgary, Michigan State University, and the University of Washington. The winner will be announced at the 2017 APLU Annual Meeting in Washington, D.C. Nov. 12-14.

"Increasing Queen's visibility and relevance internationally has been, and continues to be, a cen-

tral strategic priority," says Benoit-Antoine Bacon, Provost and Vice-Principal (Academic). "To be recognized by the APLU as a North American leader in global research and outreach is an indication that our efforts are paying off and that we are heading in the right direction."

Queen's has been selected as a finalist because of its broad range of internationalization initiatives and achievements.

"In 2015, we launched our first-ever Comprehensive International Plan that set ambitious four-year targets for international research engagement, mobility, student recruitment and enrolment, and campus-based international activities," says Kathy O'Brien, Associate Vice-Principal (International). "Already, we've exceeded our objectives for international enrolment and for intercultural training programs on campus, and we're on course to meet our 2019 goal of increasing

undergraduate exchange participation by 25 per cent."

The APLU also recognized Queen's for academic accomplishments like Arthur McDonald's Nobel Prize-winning work in physics, and the 10-year, \$24 million grant from the Mastercard Foundation's Scholars Program to develop Ethiopia's first occupational therapy program in partnership with the University of Gondar.

"Queen's is committed to building a diverse and inclusive community where interdisciplinary and cross-cultural learning and research are fundamental," says Ms. O'Brien. "Scientific breakthroughs are often achieved through international knowledge sharing and partnerships, and our students need to acquire the skills and connections that will help them succeed on the global stage once they graduate. This recognition from the APLU further inspires our efforts to position Queen's as a world leader."

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Queen's In the World



Alumni of all ages returned to Queen's for Homecoming, including the most recent graduates of Queen's University who took part in Reunion Zero

A warm welcome for alumni

Homecoming 2017 has come and gone but for thousands of returning alumni, the memories will last for years.

Countless hours of planning and preparations by Queen's staff and volunteers went into organizing a wide range of events throughout the weekend, from class reunions, to conferences and galas, and the ReUnion Street Festival, which was headlined by musician Serena Ryder on Saturday night.

The Tricolour Guard – alumni who graduated 50 or more years ago – were once again celebrated and they led the way – along with volunteer reunion organizers – in the return of the halftime parade at the Homecoming football game.



For many, Homecoming is a family affair, including three generations of the MacDonalds – Atticus Sangha, Kathleen (MacDonald) Sangha, and Lori MacDonald, above. Below, University Council member Susan Lounsbury (Sc'82), attends the Homecoming game with husband Bruce Lounsbury (Sc'80) and son Patrick Lounsbury (Sc'07).



Many reunions were held for classes celebrating milestones, such as Applied Science'72, above, a group that included Stephen Smith, a financial supporter of Queen's and namesake of the Smith School of Business. Below, the Tricolour Guard – alumni who graduated 50 or more years ago – took part in the halftime parade during the football game.





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Investing in research

BY COMMUNICATIONS STAFF

Letters of intent are being requested for two funding competitions open to researchers and scholars at Queen's University – the 2017-2018 Queen's Research Opportunities Funds (QROF) and the Social Sciences and Humanities Research Council Institutional Grant (SIG) competitions.

The QROF provides researchers and scholars financial support to accelerate their programs and research goals, and offers opportunities to leverage external funding to build on areas of institutional research strength.

Through a federal government block grant provided to Queen's by SSHRC, the recently-redesigned SIG competition supports social sciences and humanities researchers with funding for research project development, pilot study work, or to attend or run knowledge-mobilization activities like workshops, seminars or scholarly conferences.

"Championing research and scholarly excellence is a cornerstone of our mission at Queen's University," says John Fisher, Interim Vice-Principal (Research). "The QROF allows us to make our largest internal investment in research, scholarship and innovation by supporting researchers striving to take their work to the next level. With SSHRC's recent redesign of the allotment of funding from the SIG, we are poised to reinvigorate research in the social sciences and humanities, further strengthening scholarship in the SSHRC disciplines."

The QROF competition consists of four funds:

- **The Research Leaders' Fund** – for strategic institutional commitments to aspirational research in support of the university's research strengths and priorities

- **The International Fund** – assist in augmenting the university's international reputation through increased global engagement

- **The Arts Fund** – designed to support artists and their contributions to the scholarly community and to advancing Queen's

- **The Post-Doctoral Fund** – to both attract outstanding post-doctoral fellows to Queen's and to support their contributions to research and to the university

The SIG competition provides funding through two granting programs:

- **SSHRC Explore Grants** – support social sciences and humanities researchers at any career stage with funds to allow for small-scale research project development or pilot work, or to allow for participation of students in research projects

- **SSHRC Exchange Grants** – support the organization of small-scale knowledge mobilization activities in order to encourage collaboration and dissemination of research results both within and beyond the academic community, as well as allow researchers to attend or present research at scholarly conferences and other venues to advance their careers and promote the exchange of ideas

More information is available on the Office of the Vice-Principal (Research) website (queensu.ca/vpr/).

CFI funds research into dark matter, optical science

BY ANNE CRAIG,
COMMUNICATIONS OFFICER

Queen's University physics researchers Stephen Hughes and Anthony Noble, and their Canada Foundation for Innovation (CFI) collaborators, have received a combined \$4.8 million in funding from the CFI Innovation Fund.

Dr. Noble's team is building a next-generation detector, PICO 500L, that will search for dark matter while Dr. Hughes and his CFI collaborators, including co-lead James Fraser, will establish a Queen's Nanophotonics Research Centre to explore the behaviour of light and light-matter interactions on the nanometre scale.

The funding was announced by Kirsty Duncan, Minister of Science, as part of a CFI investment of more than \$554 million in 117 new infrastructure projects at 61 universities, colleges, and research hospitals across Canada.

"This funding is critical to ensuring Queen's researchers are competitive on the global stage and have the tools necessary to continue their innovative research and technology development," says John Fisher, Interim Vice-Principal (Research). "As one of the top-ranked research-intensive universities in Canada where physics is an area of institutional research strength, Queen's will benefit greatly from this investment."



Anthony Noble, left, and Stephen Hughes have been awarded \$4.8 million in funding from the Canada Foundation for Innovation.

According to Dr. Hughes, photonics is the science of generating, controlling, and detecting the fundamental particles of light (photons), and is now poised to be a key technological driver of the 21st century in much the same way that electronics were for the 20th century.

"However, as devices and optical structures continue to shrink, we have started to enter a new realm of optical technology termed 'nanophotonics,' wherein the behaviour of light on the nanometre scale, and of the interaction of nanometre-scale objects with light, is substantially different," explains Dr. Hughes. "We propose to explore and exploit the optical science that will underpin next-generation nano and quan-

tum optical technologies, while unlocking entirely new regimes of light-matter interaction."

The PICO 500L detector will be located at the SNOLAB facility for astroparticle physics, located two kilometres underground in Sudbury.

"Building on prior success, the international PICO collaboration has embarked on a program to build a next generation detector," says Dr. Noble, who is also director of the Canada Particle Astrophysics Research Centre. "This detector, PICO 500L, will employ a unique technology that will give it world-leading sensitivity in the search for the mysterious dark matter, which is known to pervade the Universe but has yet to be observed unambiguously on earth."

grad studies

THESIS DEFENCES

Wednesday, Oct. 25

Soheil Fatehi Pouladi, Civil Engineering, 'Evaluation of Passive Reduction of Salts and Nutrients from Greenhouse Effluent Using Vegetated Bioreactors'. Supervisors: B.C. Anderson, B.C. Wootton, 212 Ellis Hall, 1 pm.

Thursday, Oct. 26

Jennifer Turnidge, Kinesiology & Health Studies, 'An Exploration of Coaches' Leadership Behaviours in Youth Sport'. Supervisor: J. Côté, 210 Kinesiology Bldg., 10 am.

Friday, Oct. 27

Alyn James Matthew Johnson, Law, 'The Canadian Non-Delegation Doctrine: An Architectural Imperative'. Supervisor: B.B. Parry, 300 Macdonald Hall, 10 am.

Friday, Oct. 27

Ian Robert Fanning, Cultural Studies, 'Inini Ádisókán (Man Stories): Masculinities Among the

Mámiwinini (Algonquin People)'. Supervisor: S. McKegney, 402B Gordon Hall, 2:30 pm.

Friday, Oct. 27

Jun Wang, History, 'Shizhe Shengcun (Survival of the Fittest): The Development of Social Darwinist Ideas in China Since 1865'. Supervisor: E.M. Hill, 122 Watson Hall, 2:30 p.m.

Friday, Oct. 27

Maria Pia Banzhaf, Cultural Studies, 'Towards a Cognitive Poetics of Puppetry'. Supervisors: N. Rewa, V.A. Kuhlmeier, A. Morehead, 307 IBCPA, 3 pm.

Tuesday, Oct. 31

Alexander Cushing, Mining Engineering, 'Sulfide Flotation in Complexing Media and Bacterial Degradation of Cu(II)-TETA Complexes in an Aqueous'. Supervisor: S. Kelebek, 350 Goodwin Hall, 1 pm.

Friday, Nov. 3

Ramy Awad, Civil Engineering, 'Performance of Geomembranes to Contain PCBs, Brine and Reverse-Os-

mosis Water'. Supervisor: R.K. Rowe, 212 Ellis Hall, 9:30 a.m.

Friday, Nov. 3

Amanda Tracey, Biology, 'Functional Size Traits in Plants: When Bigger Isn't Better'. Supervisor: L.W. Aarssen, 3110 BioSciences, 9 am.

Tuesday, Nov. 7

Sadaf Tahmasebi, Chemistry, 'Electrochemistry, Electrocatalysis and Materials Science of Bulk Pt and Nanoscopic Pt, PtNi, PtCo and Ni(OH)₂ Materials: Preparation, Characterization, Catalytic Activity and Corrosion'. Supervisor: G. Jerkiewicz, 515 Chernoff Hall, 2:30 pm.

Tuesday, Nov. 7

Afolasade Oluwatosin Fakolade, Rehabilitation Science, 'A Needs Assessment to Inform the Development of a Dyadic Physical Activity Intervention for People With Moderate to Severe MS Disability and Their Family Caregivers'. Supervisor: M. Finlayson, 035G Louse D. Acton Bldg., 10:30 am.

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athletics & recreation

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14

Gaels put on Homecoming show

fit tips

BY COMMUNICATIONS STAFF

The Queen's Gaels (3-4) defeated the York Lions (1-6) 52-34 at Richardson Stadium in front of a Homecoming crowd of 7,542 Tricolour faithful on Saturday, Oct. 14.

After the York Lions picked up a pair of early points off punts through the endzone, the Gaels struck with quarterback Nate Hobbs connecting with Matteo Del Brocco for a 46-yard touchdown toss. Kicker Nick Liberatore converted and then added a field goal a few minutes later.

Queen's kept rolling with interceptions by Wesley Mann and Nelkas Kwemo, and Hobbs found Del Brocco again after the second pick to give the Gaels a 17-2 lead in the first quarter.

York made a field goal but then the Gaels struck again with touchdowns for receiver Jeremy Pengast and running back Jake Puskas. As the half wound down,



Linebacker Nelkas Kwemo makes an interception as the Queen's Gaels face the York Lions in the Homecoming football game on Saturday, Oct. 14 at Richardson Stadium. The Gaels won the game in convincing fashion 52-34.

Hobbs found Rudy Uhl for another major and the Lions added a touchdown of their own for a score of 40-13 after two quarters.

The halftime break saw members of the Tricolour Guard take to the field to march in a special Homecoming parade. The Tri-

colour Guard is made up of Queen's alumni who graduated from Queen's 50 or more years ago.

Alumni celebrating their 50th reunion received a special medal, while Tricolour Guard inductees were given a commemorative pin.

As both teams made their way back onto the field for the third quarter, the Queen's defence continued to shine. Kwemo picked up his third sack of the season, taking down Lions quarterback Brett Hunchak for a loss of five yards.

On their next drive, Hobbs found Puskas who ran for 68 yards before being tackled on the two-yard line. In scoring territory, powerful Puskas punched it in for his second touchdown of the game.

On their next drive, the Lions conceded their second safety of the game. After a few exchanges of possession, Liberatore hit his third and longest field goal of the game from 42-yards out.

Burning calories

It's the little stuff that counts. Most people focus on trying to find time for a 30-minute workout, and yet, moving throughout the day is just as important.

- Clean up! Move your trashcan away from your desk, so instead of a reach-and-toss, you've got to go for a short walk to throw things away.

- Fidget! According to a study from the Mayo Clinic, simply tapping your foot during your favorite songs throughout the day can help you burn up to 350 calories.

- Stand tall! If you want to slim down and boost your confidence, good posture is the first step. It will help you burn extra calories and can even make you look 10 pounds thinner.

- Have a giggle! Laughing for 10-15 minutes a day burns an additional 50 calories. If you do it every day, that's 350 calories a week by enjoying a good joke.



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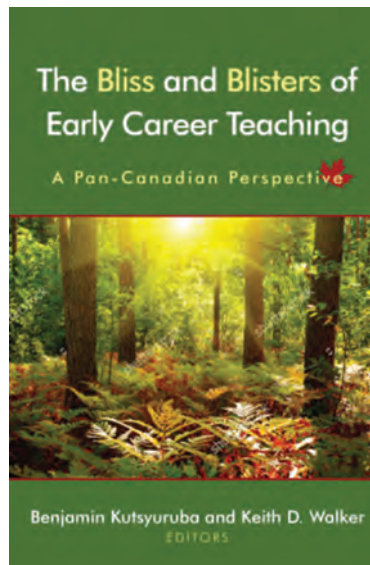
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books

The Bliss and Blisters of Early Career Teaching - Edited by **Benjamin Kutsyuruba (Education)** and Keith Walker

The Bliss and Blisters of Early Career Teaching gathers together more than 40 teacher educators, beginning teachers, program coordinators, teacher association and ministry of education experts, teacher mentors, mentors of mentors, school administrators, and educational researchers to provide a unique, pan-Canadian set of perspectives. Anchored with explorations of the differential impact of teaching induction and mentorship programs on the early-career teachers' retention across Canada (a multi-year research project funded by the Social Sciences and Humanities Research Council of Canada (SSHRC)), this book is an excellent resource for teacher educators and teacher mentors, for educational scholars, for school administrators, for pre-service teacher candidates and for new teachers who wish to hear the voices of their colleagues, mentors, and experts from across-Canada. The book offers both wide and deep perspectives, with a rich array of descriptions of and prescriptions for both the difficult and the delightful realities associated with being a new teacher. The book contains personal



reflections and poems, programmatic and comparative case studies, findings from the surveys and interviews, and stories of creative approaches to induction of new teachers, mentorship, and the development of mentoring cultures. This is a hopeful and resource-filled book for those who already agree or wish to consider the proposition that diligent thoughtful efforts to ensure that beginning teachers are well-supported will ultimately benefit the well-being and quality of learning experienced by multiple generations of students.

for the record

COMMITTEES Joint Board/Senate Committee membership announced

Principal and Vice-Chancellor Daniel Woolf's current term is scheduled to conclude on June 30, 2019 and he has advised the Chair of the Board of Trustees that he wishes to be considered for a third and final term. Accordingly, a Joint Board/Senate Committee to Review the Principalship has now been established to solicit and review submissions, in confidence, on the present state and future development of the university and on the principalship. The Joint Committee is charged with formulating a recommendation for the Board of Trustees on whether the principal should be reappointed following completion of his current term.

Membership of the Joint Board/Senate Committee to Review the Principalship has been determined as per the Terms of Reference and approved by Senate and the Board of Trustees. The Joint Committee is made up of nine members of the Board of Trustees and nine members of the Senate, in addition to Chancellor Jim Leech, who will chair the committee.

COMMITTEE MEMBERS

- Jim Leech, Committee Chair

- Theodore Christou, Senate
- Hazel Claxton, Board of Trustees
- Kevin Corey, Senate
- Laeeque Daneshmend, Senate
- Ginette Denford, Board of Trustees
- Petra Fachinger, Senate
- Adam Grotzky, Senate
- Cathy Lemmon, Senate
- Jennifer Li, Senate
- Susan Lounsbury, Board of Trustees
- Colin Lynch, Board of Trustees
- Kelly McKinnon, Board of Trustees
- Donald Raymond, Board of Trustees
- Richard Reznick, Senate
- Darryl Robinson, Senate
- Daniel Tisch, Board of Trustees
- Mary Wilson Trider, Board of Trustees
- Cam Yung, Board of Trustees

Photos and biographical statements of each member is now available on the Queen's Secretariat and Legal Counsel website (queensu.ca/secretariat/).

Selection Committee to find new Head of the Department of Mechanical and Materials Engineering

Christopher Mechefske's term as Acting Head in the Department of Mechanical and Materials Engineering ends Dec. 31, 2017.

In accordance with the Article 41 of the Collective Agreement between Queen's University Faculty Association and Queen's University, a

selection committee has been formed to assist the Provost and Vice Principal (Academic) in the selection of a department head. The Selection Committee has the following membership:

- Elected faculty: Ron Anderson, Claire Davies, Mark Daymond, Michael Rainbow, and David Rival.
- Appointed Members: Natalie Tanczak (undergraduate student), Mark Kellenberger (PhD candidate), Andrew Bryson (staff member), Kent Novakowski, Head, Civil Engineering.
- Non-Voting Member: Kimberley McAuley, Associate Dean, School of Graduate Studies.
- Chair: Kevin Deluzio, Dean, Engineering and Applied Science.
- Recording Secretary: Dayna Smith, Engineering and Applied Science.

Members of the university community are invited to comment on the present state and future prospects of the Department of Mechanical and Materials Engineering and to submit names of possible candidates for the headship to Dean Kevin J. Deluzio (Chair), c/o Dayna Smith (dayna.smith@queensu.ca) Faculty of Engineering and Applied Science by Oct. 27, 2017. Letters will be reviewed by the selection committee and will become part of the record of decision-making.

human resources

Job postings

Full details regarding job postings – as well as the application process – can be found at queensu.ca/humanresources/careers.

- **Competition Number:** J1017-0284
Position Title: Digital Communications Officer
Department or Area: Office of Advancement
Salary: \$58,454
Grade: 8
Length of term: One year
Closing Date: Nov. 13
- **Competition Number:** J1017-0412
Position Title: Research Technician
Department or Area: Civil Engi-

- neering
Salary: \$40,086/Year
Grade: 5
Job Type: Permanent (Continuing)
Closing Date: Oct. 30
- **Competition Number:** J1017-0459
Position Title: Financial Coordinator
Department or Area: Chemistry
Salary: \$51,545/Year
Grade: 7
Job Type: Permanent (Continuing)
Closing Date: Nov. 6
- **Competition Number:** J0617-1075
Position Title: Cancer Research Study Coordinator
Department or Area: Canadian Cancer Trials Group

- Salary:** \$58,454/Year
Grade: 8
Job Type: Permanent (Continuing)
Closing Date: Nov. 9
- **Competition Number:** J0717-0519
Position Title: Manager, Alumni Marketing and Communications
Department or Area: Office of Advancement
Salary: \$62,145-\$82,858/Year
Grade: 9
Job Type: Permanent (Continuing)
Closing Date: Nov. 1

Successful Candidates

- **Job Title:** Loans Program Assistant (USW Local 2010)
Department: Office of the University Registrar

- Competition:** J0617-0625
Successful Candidate: Dustin Reid
- **Job Title:** Head Coach, Men's Soccer
Department: Athletics & Recreation
Competition: 2017-208
Successful Candidate: Christian Hoefler
- **Job Title:** Senior Development Officer (USW Local 2010)
Department: Faculty of Engineering and Applied Science
Competition: J0617-0848
Successful Candidate: Tyson Champagne
- **Job Title:** Art Conservation Laboratory Technician (CUPE Local 254)
Department: Art History & Art Conservation
Competition: 2017-210

- Successful Candidate:** Terry O'Reilly (Studio BFA)
- **Job Title:** Undergraduate & Office Assistant (USW Local 2010)
Department: Philosophy
Competition: J0617-0645
Successful Candidate: Noreen Haun (Studio BFA)
- **Job Title:** Student and Faculty Liason
Department: International Centre for Advancement of Community Based Rehabilitation
Competition: J0617-0049
Successful Candidate: Ndinda Msiska
- **Job Title:** Aboriginal Recruitment Representative (USW Local 2010)
Department: Four Directions
Competition: J0617-0265
Successful Candidate: Joseph Brant

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2	9	6	1	4	8	7	3	5
1	5	4	7	9	3	2	6	8
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6	2	1	8	7	5	3	4	9
4	8	3	6	1	9	5	7	2

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