the azette

Queen's University's newspaper of record since 1969 ■ queensu.ca/gazette ■ November 7, 2017









One of the most beautiful campuses in Canada, Queen's University only becomes more striking during the fall as the changing of the leaves adds a splash of vibrant colour to the pale tones of the limestone buildings.

See more photos on Page 5



Funding powers sustainability efforts gazette

University and city partnering to reduce energy and water consumption, as well as greenhouse gas emissions

BY COMMUNICATIONS STAFF

Queen's is continually working to reduce its carbon footprint and on Thursday, Oct. 26 the university received more than \$700,000 in funding from Utilities Kingston in support of a number of projects aimed at cutting energy and water consumption and greenhouse gas emissions

The \$717,915 in funding, provided in part through provincial Save on Energy programs that are powered by the Independent Electricity System Operator, accounts for grants and incentives for projects completed in 2017, primarily as a result of realized water and electricity savings.

Much of the funding is related to the university's CAPit program, a \$10.7-million comprehensive energy conservation project with international energy services company Honeywell. The project has a target of reducing the university's greenhouse gas emissions by over 2,600 metric tonnes of carbon dioxide, the equivalent of taking 944 mid-sized cars off of Canadian

"Queen's has placed a priority on financial and environmental sustainability. This funding enabled the university to expand the CAPit project, reducing our utilities expenditures while, at the same time, significantly cutting our impact on the environment," says Donna Janiec, Vice-Principal (Finance and Administration). 'The CAPit program has been a success, and we thank Utilities Kingston for their contribution supporting these conservation



Donna Janiec, Vice-Principal (Finance and Administration) accepts a cheque from Sean Meleschuk, Vice-President of Utilities Kingston, in recognition of Queen's University's efforts to reduce greenhouse gas emissions as well as energy and water consumption.

measures.'

When complete this December, the CAPit project will have implemented more than 170 individual energy conservation measures in 66 campus buildings. These include the installation of low-flow fixtures to reduce water usage, upgraded lighting and building climate controls to reduce energy consumption, as well as heat recovery systems and improvements to building envelopes.

The measures are already having a positive effect.

By the end of 2017, Queen's will have saved 185,000 m3 in water, enough to service 3,700 four-per-

son homes for a year. Similarly, electricity consumption will have been reduced by 2.95 GWh, enough to power 295 average Ontario homes for a year.

"We applaud the university's commitment to reduce energy and water consumption, and cut greenhouse gas emissions. Queen's' efforts to install water and energy conservation measures help extend the useful life of municipal utility infrastructure and further our progress towards meeting provincially-mandated electricity conservation targets. All this, while making a positive impact on the environment," says

Sean Meleschuk, Vice-President of Utilities Kingston. "Our unique multi-utility model provides our customers with one-stop access to water, gas and electricity conservation programs. We are proud to partner with local businesses and institutions as we help build a better community."

The Queen's Climate Action Plan is available online (queensu.ca/principal/prioritiesand-initiatives/climate-action-

More information about the CAPit program is available on the Sustainability Office website queensu.ca/sustainability/.

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Michael Fraser

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Submissions are welcome, and may be emailed to *andrew.carroll@queensu.ca*. The editor reserves the right to edit or refuse any submission. Views expressed or implied are those of individual contributors or sources quoted and do not necessarily reflect . university policy.

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Feedback sought on undergraduate orientation

BY PHIL GAUDREAU, SENIOR **COMMUNICATIONS OFFICER**

If you would like to help shape the future of undergraduate orientation, there are many ways you can take part.

The Undergraduate Orientation Review Working Group has announced its community consultation plan which will help inform the working group's report to Principal Daniel Woolf on the future of undergraduate orienta-

"The purpose of the working group is to review all aspects of our direct-entry undergraduate student orientation experience, and articulate a vision for orientation that achieves shared goals

around community-building, inclusivity, accessibility, safety, and responsibility," says Teri Shearer, Deputy Provost (Academic Operations and Inclusion). "We are committed to creating an environment where all incoming students to Queen's experience a welcoming and inclusive orientation that reflects and embraces the diversity of our entire student popula-

Members of the Queen's community, Queen's alumni, and residents in the broader Kingston community who are interested in providing feedback on orientation

- attend one of the working group's meetings;
 - invite the working group to

one of your meetings;

- request a one-on-one meeting with one member of the working group;
- send a submission for the group to consider to orientation.review@queensu.ca

In addition, the group will be hosting two university-wide town hall sessions.

The first will take place on Nov. 22 at 1 pm in Robert Sutherland Hall, Room 202. The second will be held Nov. 27 at 5:30 pm, also in Robert Sutherland Hall, Room 202.

The Undergraduate Orientation Review Working Group was formed by Principal Woolf in August to recommend changes to undergraduate orientation, in-

cluding both university orientation and student society orientation activities, which will make orientation more welcoming and inclusive for all members of the Queen's community. As part of this effort, the working group is looking at ways that student associations, student groups, and the university can work together to develop a cooperative framework, including mechanisms for training and educating students on diversity and inclusion. The final report and its recommendations will be delivered to the principal by March 1, 2018.

For more information on the working group, visit the Office of the Principal website (queensu.ca/principal/).



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A bigger, better 'home away from home'

Four Directions Aboriginal Student Centre set to double in size as part of expansion and renovation project

BY COMMUNICATIONS STAFF

Queen's Four Directions Aboriginal Student Centre is doubling in size.

The design process for the expansion of the centre, to the house next door to its 146 Barrie St. location, is now underway. Renovations to both buildings are expected to begin in the new year.

"As enrolment among Indigenous students increases at Queen's, we recognize that Four Directions has outgrown its space," says Ann Tierney, Vice-Provost and Dean of Student Affairs. "In line with recommendations of the TRC Task Force, we are excited to be creating a new, larger 'home away from home' for students, with more amenities, staff, as well as programming and community-building opportuni-

The university has engaged Two Row Architect, a firm based in Six Nations that has worked on many post-secondary campuses. Consultations with students, staff, faculty, and community members took place over the summer, to identify values, goals and aspirations for the new facility. These include learning, inclusivity, the presence of craft, the importance of food, connection to the earth and the integration of natural materials, natural light and views.



Four Directions Aboriginal Student Centre is expanding to include the building at 144 Barrie St., with renovations to both buildings expected to begin early in 2018.

The current plan is for one building to be used for gatherings and activities, including feasts and cultural programming, while the other will be offices, where students will meet one-on-one with staff, and student study spaces, including a first-floor library.

We want to create more

spaces for all of our students to gather, connect, and learn," says Kanonhsyonne (Janice Hill), the university's inaugural Director of Indigenous Initiatives, who served as director of the Four Directions Aboriginal Student Centre for the past seven years. "Expanding the centre is an important part of the

reconciliation work underway at Queen's. It will help us continue to build relationships across campus and in the local community, and increase the visibility and awareness of Indigenous cultures, knowledge, teachings and sup-

The \$600,000 project is being

"Expanding the centre is an important part of the reconciliation work underway at Queen's. It will help us continue to build relationships across campus and in the local community, and increase the visibility and awareness of Indigenous cultures, knowledge, teachings and supports."

- Kanonhsyonne (Janice Hill), **Director of Indigenous Initiatives**

primarily funded by the Division of Student Affairs. The federal government is also contributing through an Enabling Accessibility Fund grant for upgrades that will make both buildings more accessible. During construction, the centre will remain open while work is done on the second building. Operations will then temporarily move to the new building, as the current centre is renovated.

Learn more about the Four Directions Aboriginal Student Centre at queensu.ca/fdasc/.

Read about the recommendations of the university's Truth and Reconciliation Commission Task Force (queensu.ca/provost/ committees-and-reports/truthand-reconciliation-commissiontask-force).

Students accessing Indigenous self-identification mechanism

also gives Indigenous students the

opportunity to consent to being

contacted by an Indigenous stu-

dent services staff member. To

quested outreach.

date, almost 60 students have re-

Vanessa McCourt, Aboriginal

BY CANDICE PINTO, INTERN, **DIVISION OF STUDENT AFFAIRS**

More than 100 students with Indigenous ancestry have chosen to self-identify to the university within the first few months of the launch of a new mechanism in the SOLUS student information sys-

Self-identifying provides students with the opportunity to become part of the Aboriginal com-

munity at Queen's, practice and/or learn more about their culture, and access resources like tutoring services, scholarships, cultural workshops, and on-campus Eld-

nism, comprising five questions,

Some students choose to selfidentify to the university during the application process, but until now, that has been the only time they can formally do so. This voluntary and confidential mecha-

Advisor at Four Directions, says she is connecting with students from several faculties and "We're seeing a lot more grad-

uate and professional students self-identifying who we otherwise may not have known about" says Ms. McCourt. "Many students, especially graduate students, may have had to leave an Indigenous community at their previous school, and come to Queen's without a connection or way to form those communities here. By selfidentifying, and receiving resources like the Four Directions E-Newsletter, students are able to foster those new relationships here at Queen's. I am also in touch with some distance students who

are accessing services and sup-

The mechanism is being promoted across campus through posters, the distribution of bookmarks and brochures, on social media and an on-line hub of information. A new video and poster series launched this month. In the video, Indigenous students and recent grads talk about why they choose to self-identify.

"I've never not self-identified. It has made me more comfortable with myself," says Taylor Bluhm (NSc'18). "It's nice to talk to people who are going through the same things as you are. If I ever have a question about absolutely anything, Four Directions is always there to help answer my questions."

"I wouldn't have gotten involved with so many things if I didn't self-identify," adds Thomas Dymond (Meds'20). "Students unions, different projects, and ultimately jobs, that all came from

getting involved, getting to know people, and being a part of a community."

The mechanism was developed with funding from the Ontario Ministry of Advanced Education and Skill Development's Targeted Initiatives Fund.

This month, Ms. McCourt and Paul Pearsall, Associate University Registrar (Student Information Systems), are presenting at a national post-secondary systems conference about the mechanism, its development, and the results to

The mechanism was developed by a student-led project team, and included a campus-wide consultation with students, faculty members, staff and other institutions to come up with a set of optional questions that aims to encourage self-identification.

To learn more about Indigenous self-identification at Queen's, visit queensu.ca/fdasc/self-identifv.





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Kellie Hart and James Ligthart are the co-chairs of the Queen's United Way Campaign Committee. This year the committee has a goal of raising \$320,000 for the United Way of Kingston, Frontenac Lennox and Addington.

Giving back to the Queen's, **Kingston communities**

BY COMMUNICATIONS STAFF

Organizing the annual fundraising campaign for the United Way of Kingston, Frontenac Lennox and Addington requires a team effort, with hundreds of volunteers and staff members taking part.

At Queen's, the largest workplace campaign for the United Way KFLA, the effort is led by a cross-campus committee comprising representatives from all aspects of the university, from administration and staff to faculty, retirees and students.

This year the Queen's United Way Campaign Committee has set a fundraising goal of \$320,000, accounting for close to 10 per cent of the United Way KFL&A's budget.

Leading the Queen's United Way Campaign Committee are cochairs Kellie Hart and James

For both, their support of the United Way started before they arrived at Queen's, and once they joined the university it was an easy decision to get involved.

Through her participation in the campaign committee, Ms. Hart says she realized that she can make a difference at Queen's and within the larger community.

"Giving to your community is important for me because you get so much more back," Ms. Hart says. "I took part in the Seeing is Believing Tour and that really

opens your eyes to the extent of services that the United Way helps to fund and how important those services are to the community."

As a major employer in Kingston, Queen's can contribute so much to the community that houses it and is home to its employees and students, she adds.

Along with his Queen's committee work, Mr. Ligthart has participated in the United Way KFLA Next Gen, which brings together volunteers ages 25 to 40 who are interested in becoming future

"For me, volunteering for the United Way is a way to support an organization that gives opportunity to people in our community who may otherwise not have it, helping them take the next step forward that they can turn into an opportunity for something else and grow from that," he says.

At Queen's he has found that the campaign draws strength by reaching across campus and inviting a diversity of ideas and contributions. It all adds up to a greater positive impact.

"We are very fortunate to have a large workforce but within that it allows for a lot of differentminded people to come to the table with the campaign committee, from different departments, different faculties, to come together with one goal in mind but have lots of different avenues towards getting the campaign exposure and helping reaching into different areas of our large campus," Mr. Ligthart says.

During their time as committee members, and now co-chairs, both have found that along with the positives of helping others, they have also benefitted by meeting and working with their colleagues from across the Queen's commu-

nity.
"We have a great team to work with and it is very motivating when you have a group of people who are committed and want to make a difference along with you," Ms. Hart says. "Just knowing the good things that Queen's can do for the community and knowing that you are part of that and that you can make that happen is very rewarding.'

The fundraising campaign is currently underway and helps the United Way support community agencies. Last year, more than 55,000 people benefited from United Way KFL&A-funded pro-

Queen's community members can back the United Way through payroll deduction, a one-time gift, credit card, cheque or cash. To make a donation online through the United Way's ePledge system, simply go to queensu.ca/unitedway. Please note that if you donated last year and selected the auto-renewal action, no further action is required unless you would like to change your donation.



Karla McGrath, Executive Director of Queen's Law Clinics and Director of the Family Law Clinic, speaks after receiving the Ban Righ Foundation Mentorship Award at the Isabel Bader Centre for the Performing Arts.

Honouring inspirational women leaders

BY COMMUNICATIONS STAFF

Contributions made by women at Oueen's University and within the Kingston community were in the spotlight Friday, Oct. 20 as the 2017 Ban Righ Foundation Inspiring Women Awards were handed out during the gala held at the Isabel Bader Centre for the Performing Arts.

Karla McGrath, Executive Director of Queen's Law Clinics and Director of the Family Law Clinic, received the Ban Righ Foundation Mentorship Award while the Ban Righ Foundation Leadership Award was presented to Susan Belyea, PhD candidate and instructor in Kinesiology and Health Studies and founder of the local food reclamation charity Loving Spoonful

Inspiring talks and performances were provided throughout the evening, including from alumni Amma Bonsu and

Sangeeta Shakrawar, Queen's Dance Club, She Sings Choir, and Juno Award-winning singer Lynn Miles.

Founded in 1974, the Ban Righ Centre at 32 Bader Lane, is a welcoming, safe space and resource centre for mature women students, providing advice, financial assistance, daily soup, female faculty mentors, quiet study spaces, and community. Visit the Ban Righ Centre website for more informa-

The Ban Righ Foundation, the centre's volunteer Board of Directors, has established two special awards. The Ban Righ Foundation Mentorship Award recognizes a Queen's faculty member who has inspired and supported women in achieving their goals; the Ban Righ Foundation Leadership Award honours a woman who has fostered opportunities for others, and made a positive contribution to the Kingston community.



Susan Belyea, right, PhD candidate and instructor in Kinesiology and Health Studies, reveals her T-shirt as she receives the Ban Righ Foundation Leadership Award from Sylvie Charlebois and Georgette Frye.

queensu.ca/gazette November 7, 2017 Campusnews



One of the best places on campus for taking in the colours of autumn is the Snodgrass Arboretum, located in front of Summerhill.



Leaves litter the grass near Summerhill but they won't be there for long as crews from Physical Plant Services are always busy cleaning the campus grounds.



Autumn aura

Autumn at Queen's is always a beautiful time of year with vibrant colours on trees and clinging vines providing a sharp contrast to the limestone buildings.

Whether it's an unseasonably warm and bright morning or a gloomy, cold afternoon, the reds and yellows stand out against the countless shades of gray.

Across campus the pathways are littered with fallen carpets of scarlet and gold, but look closer and hidden gems can be found all around, tucked away in courtyards and behind walls.

While autumn signals the end of summer there is still so much beauty to take in.



After an unseasonably warm start to the autumn, a cold snap brought out the vibrant colours of the trees lining University Avenue.



There are fewer vines around campus this year due to the stonework on many buildings, however, the ones that remain continue to bring a flash of colour to the limestone.



All along University Avenue, trees were turning red and yellow before the rains arrived and washed the leaves away.



Some of the most beautiful scenes on campus in autumn are to be found in hidden away locations.

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

The road less travelled

This column was first published through the Equity Office's 'Together We Are' blog

BY HAZEM AHMED

It might sound a cliché, but looking back to my past 15 years, I apparently have been taking the roads less travelled whether consciously or perhaps subconsciously. Starting back in 2002, when I decided to pursue my undergrad studies in computer science - not electrical engineering (like many of my high school peers) nor medical sciences (like my siblings). I enjoyed studying computer science, so much so that I earned my BSc with highest honors. Not only that, but I was also offered a full-scholarship to pursue my graduate studies at Queen's School of Computing, but again I chose a less-travelled road with a specialization in bioinformatics, which is the intersection between computer science and medical sciences.

Studying at Queen's was a truly life-changing experience although my first year as an international student was a bit challenging. I needed some time to adapt to the new environment, culture, and long distance from my family back home in Egypt. However, when I started participating in extracurricular and social activities at Queen's (e.g., elected student rep for University Senate) and the broader Kingston community (e.g., member of the organization team of the Kingston Multicultural Arts Festival), the challenges turned into opportunities. I received several awards at the departmental-level (featured in the PhD Handbook of the School of Computing), university-level (Dean's Graduate Award), provincial-level (Ontario Graduate Scholarship), and prestigious nationallevel awards (NSERC Canada Graduate Scholarship and Post-Doctoral Fellowship). I would not have had similar opportunities if I did not push the border of my

comfort zone, if I did not travel to study at Queen's, if I did not take a less-travelled road.

During my second year at Queen's, I participated in a workstudy program. There were several on-campus job openings available at that time in the university library, cafeteria, Information Technology Store and one at the Equity Office. I know many students already work in the university library, cafeteria, ITS store, but I did not want to choose a common road. I applied to the Equity Office. While there I had a unique opportunity to learn more about equity issues in the workplace and the hiring process. A six-month web developer position led to over a six-year programmer/analyst position. I was recommending and implementing IT solutions to transform many of the office's processes; therefore, producing a significant impact in the office and the broader Queen's community. I would not have made a similar impact, had I

worked at a library or ITS store. I would not have left a footprint, had I picked a common road.

After completing my graduate studies in bioinformatics, the most common road was obviously becoming a professor. But once again I did not take the obvious road. I moved to industry - I am now a data scientist at General Electric Aviation. Aviation is a data-intensive industry, where data science has the potential to offer impactful insights and revolutionize existing traditional ways used to address their multifaceted business challenges. I feel honoured to be part of the digital journey of one of the world's largest companies and work on the most demanding problems of the world's biggest airlines.

A former student of a bioinformatics course that I once taught recently approached me asking for career advice and whether he should go with the mainstream or pursue a unique graduate program overseas. I told him un-

doubtedly travel and explore your far-reaching options, not the easiest ones. But then I told him this is not an "advice"; it is perhaps a biased opinion based on my own personal experience. You should take the road that you think is better for you, not what somebody's else "thinks" is better for you. The point is NOT to take the less-travelled road just for the sake of being different; the point is to take the road that you can make a difference through.

At least this is what I have been doing. This is what have made much difference in my career

Hazem Ahmed completed his MSc and PhD degrees in Computer Science from Queen's University in 2009 and 2014, respectively. During his graduate studies, Dr. Ahmed worked at the Queen's Equity and Human Rights Offices for several years building desktop and web-based tools to manage equity training data and analyze university's survey results.

ple to be one in which he helped to

liveslived

Lives Lived is a space to share your memories of a Queen's community member who recently died. Email your submissions to andrew.carroll@queensu.ca

John Freeman - A mentor to all

BY DON A. KLINGER AND DENISE STOCKLEY

John Freeman was born on a military base and lived much of his childhood moving. It was during his childhood that John honed his resiliency skills and developed the ability to make any place feel like home. These early experi-

ences led him to pursue a Bachelor's of Education degree at Queen's University, and a subsequent teaching career in teaching, primarily in primary schools in



John Freeman

rural Saskatchewan. While gaining experience as a teacher, John also began to question foundational aspects of teaching and learning. What does it mean to be a successful teacher? A successful learner? These questions led John to pursue a Master's Degree in Education at Oueen's and then a doctorate from Michigan. He rejoined Queen's as a faculty member in education in 1997, and later would be cross-appointed to School of Health Sciences and Kinesiology.

Professionally, John was recognized for his work as a teacher and mentor, his success in reshaping the Social Policy and Evaluation Group and his international work with the Health Behaviour in School-Aged Children project. His ongoing contributions certainly contributed to his promotion to professor. More recently, John became the chair of the General Research Ethics Board, a fantastic opportunity in which John excelled, as he was able to mentor students and researchers in their own research practices - another way to give back to the broader community. John developed deep friendships with both colleagues and students alike and cared about each person on an individual level. Nevertheless, John's lasting legacy will always be related to his work with students, both undergraduate and graduate. John inspired his students and he was equally inspired by them. It was always a highlight for Dr. John Freeman to be with his students on their day of convocation and his smile was often as big as or bigger than the smiles of the graduating students and their families. John was a "proud supervisor" to his students and he deeply valued his collection of his

students' convocation pictures posing with him. John's admiration for students led to the Rose A. Freeman Memorial Award, named in honor of John's mother, and given annually to a teaching assistant who directly contributes to the learning of B.Ed. students in the Faculty of Education at Queen's University.

Outside of the university, John believed in community and volunteered for and contributed to various organizations to raise awareness, to support those in need, and to give back. He encouraged others to reach out and find a place to volunteer that suited them. John was driven and motivated by the ongoing desire to always try to help fix things, to make things better, and to do his part. It is no wonder that John's dissertation and graduate teaching focused on the concept of "motivation."

John was passionate about sports, and he had an encyclopedic knowledge of a surprising number of sports and athletes. However, John's relationships with sports was "complicated." He complained to all who would listen when a student gave him a gift of kayak lessons; however, after a few lessons, John became a

regular kayaker on the river by his home in Gananoque. John's passion for sports was most obvious in his support for teams such as the Toronto Blue Jays and the Ottawa Redblacks, and especially for Roger Federer, who, as John claimed with deep conviction, is undeniably the greatest tennis player of all time. These same passions extended to John's love and knowledge of pop culture: books, television, movies and music (John could give you the No. 1 song for your birthdate). Best Book, he was still reading the 100 best books of all time but his copies of the Bible were well worn from his daily readings; Best TV show, Buffy the Vampire Slayer followed by Veronica Mars; Best Movie, The Usual Suspects; and of course, the best singer, Kelly Clarkson. Yes, John was quirky that way.

John's passion for learning, teaching, and for people was evident in everything he did. He had an amazing sense of humour, but could balance that with serious discussions as needed. He used storytelling to gently, or not so gently, guide and push people in the right direction – or at least the direction they should go. John wanted every interaction with peobring out their best or to make things alright in the world, even when they really were not alright at all. He was always willing to listen or offer advice, and always seemed to know what needed to be done. He was a mentor throughout his life. John Freeman loved people deeply, and John lived for opportunities to develop new friendships and to create long-lasting experiences with these friends. He literally had friends all over the world whom he loved to spend time with in person, emailing, texting, or even over the phone. And when John could not be there to help create a memory, he found other ways. He was a closet rug hooker, and made beautiful rugs as gifts for friends and looked forward to their surprise that making rugs was something he enjoyed in his evenings. He wrote the most unique Christmas cards: no two were alike and each reflected where his thoughts were at the exact moment when he took pen to paper. Those of us who counted John as friend all have at least one memorable story that will remain with us for years to come.

John Freeman died Aug. 1 and continues to be missed by those whose lives he touched.

Queen's in the news

Highlights of Queen's experts in the media from Oct. 20-Nov. 1

NEWSPAPERS

Robert Morrison's (English Language and Literature) piece for The Conversation about Gord Downie's lyrical legacy ran in the National Post, Toronto Star and the Kingston Whig-Standard.

Sharry Aiken (Law) says in the Toronto Star that the Canadian refugee system is working, but says the refugee board is under-re-



sourced and cannot process claims fast enough; says the majority of refugees crossing from the US to Canada have genuine asylum claims in Metro News.

Joan Tranmer (School of Nursing) commented on shift workers and the risk of hypertension in the Kingston Whig-Standard.

Nick Bala (Law) was interviewed by the Toronto Star about the Motherisk legal case.

Jacalyn Duffin (School of Medicine) was interviewed as an expert by publications around the world including International Business Times about an Italian woman sweating

David Skillicorn (School of Computing) and Christian Leuprecht (Policy Studies) were interviewed by the National Post about a Wi-Fi secu-

Judith Davidson (Psychology) commented on sleep and

menopause in the Globe and Mail.

Mohamed Khimji (Law) told the Globe and Mail that he would have told Finance Minister Bill Morneau to comply with the intent of the regulations around financial disclosure.

Sam McKegney (English Language and Literature) says in Metro News that breaking into the writing field is particularly difficult for Indigenous people.



Christian Leuprecht (Political Studies, School of Policy Studies) says there seems to be too much emphasis in the RCMP on rote learning and not enough focus on original thinking and educating cadets on the complexities of the communities they are going to serve in the National Post.

ONLINE

Chris O'Callaghan (Public Health Sciences) was interviewed by CP24 and globalnews.ca about the passing of Gord Downie.

John Andrew (Smith School of Business, Environmental Studies) told ctvnews.ca that coworking spaces allow large companies to avoid committing to a typical 10year-plus lease, which is costly to get out and can limit future moves. The story also appeared in Canadian Press newspapers across Canada.

Allan Manson (Law) discussed the youth criminal justice system

with Yahoo! Canada in connection with the La Loche school shooting.

Nicholas Bala (Law) says in The Lawyer's Daily that parental relocation cases are often very difficult after a BC appeal court overturned a decision on relocation issue in a custody case.

Ariel Salzmann (History) told CBC Online that it's the historic experience of Turkey in dealing with religious dress that shows how facecovering bans, like the one in Quebec, actually backfire.

Mohamed Khimji (Law) says in The Lawyer's Daily that while there appears to be more shareholder engagement in the gover-



nance of public corporations, there is a lack of data showing how shareholder voting operates in practice.

Andrew Graham (Smith School of Business, School of Policy Studies) told Reuters the Liberals are politically very astute in a whole bunch of areas but in issues management and parliamentary management they seem to be ham-fisted.

James Miller (School of Religion, Languages, Literature and Cultures) discussed the differences between the U.S. and China and their leaders in a piece for The Conversation.

TELEVISION

Kip Pegley (Drama and Music) discussed Gord Downie's legacy and The Tragically Hip's relationship with Canada in interviews with Global News and the Kingston Whig-Stan-

Don Drummond (Business, Policy Studies) discussed how Canada, Mexico and the U.S. would fare if NAFTA ended with CBC's On The

Jacalyn Duffin (School of Medicine) commented on CNN on an Italian woman sweating blood.

Lisa Kerr (Law) appeared on CBC's Sunday Edition talking about prison terms and our sentencing system.

Elspeth Murray (Smith School of Business) was interviewed by CBC about young Canadians creating new firms.



David Murakami Wood (Surveillance Studies Centre) discussed security concerns and the upcoming Olympic Games on CTV's Your Morn-

Christian Leuprecht (Political Studies) commented on an Ontario terror suspect on Global National

John Andrew (Smith School of Business, Environmental Studies) discussed the possible overvaluation in some Canadian real estate markets with CTV National Network

Kathy Brock (Political Studies, Smith School of Business, School of Policy Studies) discussed the political fallout surrounding the Canadian Government's proposed tax plan with Business News Network (BNN): The Street.

Alex Mitchell (Smith School of Business, Surveillance Studies Centre) told Business News Network (BNN) that both Ottawa and Toronto would be able to support Amazon's new headquarters, but thinks the company will likely choose a location in the U.S.

RADIO

David Skillicorn (Computing) discussed a new report on cybersecurity with CBC Radio.

MAGAZINE

Robert Morrison's (English Language and Literature) piece for The Conversation on The Tragically Hips lyrics appeared in Maclean's Maga-



zine. He also discussed Gord Downie's legacy on the CKWS Morning Show, and with La Presse.

Sam McKegney (English Language and Literature) discussed the new Indigenous Voices Award with Quill and Quire.

Amanda Ross-White (Health Sciences, Library and Archives) had her column on sleeping positions and pregnancy published by Today's Par-

Queen's Reads exploring Canadian identity

BY COMMUNICATIONS STAFF

With more than 4,000 free copies of this year's Queen's Reads book, The Break, distributed to students, and discussion groups underway, the university's common reading program is preparing to hold its first campus-wide event: a panel on what it means to be Canadian.

The campus community is in-

vited to gather on Wednesday, Nov. 8 at 6:30 pm in Wallace Hall in the John Deutsch University Centre to ask questions and hear from students, staff and faculty members from a breadth of faculties and schools, as they talk about being Canadian in light of

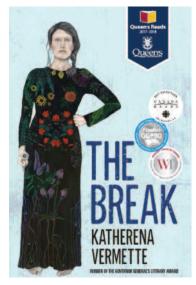
The panelists are:

• Lee Airton (Professor, Edu-

- Thomas Dymond (Med'20)
- · Audrey Kobayashi (Professor, Geography and Planning)
- Robert Lovelace (Professor, Global Development Studies)
- Barrington Walker (Professor, History)
- Lauren Winkler (ArtSci'17,

"We are so fortunate to have such a distinguished group of Oueen's community members participating in Queen's Reads," says Kevin Collins, Coordinator, Student Development in the Student Experience Office. "The panel will share their diverse perspectives on what it means to be a Canadian, to discuss intersectionality in relation to identity, and to investigate why Canada 150 celebrations can be problematic and how we can work together to better incorporate reconciliation into our daily lives."

The Break, by Winnipeg author Katherena Vermette, tells an intergenerational story of a Metis family as they navigate the effects



The Break by Katherena Vermette is the focus of the 2017 Queen's Reads program.

of trauma. It was a finalist for the Governor General's Literary Award, shortlisted for CBC's Canada Reads 2017, and is the recipient of the 2017 Amazon First Novel award

Free copies of the novel will be available for all Queen's students at the panel event. Everyone is encouraged to attend, even if you haven't read the book.

This term's discussion groups, which focus on the first half of the book and include a bookmark-making activity are being held on Monday, Nov. 13, Wednesday, Nov. 22 and Tuesday, Dec. 5. Registration is available online

Learn more about Queen's Reads and all of the program activities planned this term and throughout academic year, including a campus visit by Ms. Vermette in March.

The Break explores important messages related to identity, diversity, Indigenous culture, intergenerational trauma, sexual violence and resilience. If support is needed at any time to help readers navigate these topics, there are resources available for students, as well as for faculty and staff.

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International partnership celebrates first graduate

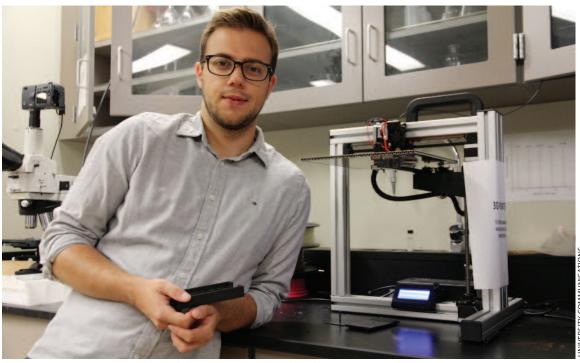
BY PHIL GAUDREAU, SENIOR COMMUNICATIONS OFFICER

A quick glance at Matthias Hermann's resume shows he's not afraid of the occasional international adventure.

Since beginning his bachelor's degree in chemistry in his native Germany in 2011, Mr. Hermann (MSc'17) has conducted short-term research projects in China and Australia, as well as his home country. Recently, he added Canada to the list after completing a dual degree master's program in chemistry – a partnership between Queen's University and Universität Stuttgart.

"I planned on spending some time abroad as part of my master's, and when I heard about this program I knew it would be a good fit," says Mr. Hermann (Sc'17). "I wanted a longer term abroad, exposure to a different academic and cultural environment, and a chance to improve my English. Through this program I got all of that – plus I graduated with two master's degrees."

Mr. Hermann recently successfully completed his thesis defense, earning his Queen's Masters of Science in Chemistry and becoming the first graduate of the dual degree program. At the same time, he earned his Master's of Chemistry degree through his home university in Germany as



Matthias Hermann (MSc'17) poses with his invention – a device which detects cadmium in drinking water. Mr. Hermann has completed a dual degree master's program in chemistry – a partnership between Queen's and Universität Stuttgart.

part of this two-year partnership program. Mr. Hermann's thesis revolved around a device to detect cadmium in drinking water in a way that is portable, easy-touse, and affordable.

Mr. Hermann had to adjust to differences in the Canadian higher education system – at Stuttgart, for example, master's theses don't require a defense. Adding to the pressure, representatives from both Queen's and Stuttgart were present for his defense.

During the visit by Stuttgart, their Dean of Chemistry, Cosima Stubenrauch, held an information session for Queen's students about the dual master's degree program.

"About a dozen students attended, and when I asked them to raise their hands if they thought this was something they might want to do every one of them raised their hand," says Hans-Peter Loock, head of the Department of Chemistry at Queen's. "We are hoping to increase our international footprint, and agreements like these help our students gain a wider variety of experiences in high performing environments."

Before the visit by Stuttgart representatives, Cally Li (Artsci'17) had already made up her mind. She started in the MSc degree program at Queen's this fall, and will be heading to Germany in 2018.

"I was looking for a way to stay at Queen's one more year, but I was also looking for a way to move on and try something new next year," says Ms. Li. "I am looking forward to the opportunity to build some international connections and try something new. I have heard a lot of good things about Stuttgart's labs and their standard of work."

Students from Stuttgart are also emailing Dr. Loock to learn about life in Kingston. Dr. Loock says, ideally, they would like to see multiple students from Stuttgart studying at Queen's and vice versa each year.

"Successful research groups must be internationally networked – it's part of doing science," Dr. Loock says. "Setting up these agreements takes effort and buy-in, but exchanging students with a top German university like Stuttgart allows our graduate students to get the best of both worlds. And, as I discovered when I was an international student in Canada: you stay at a place long enough and sometimes it becomes home."

Perhaps that will be Mr. Hermann's experience, as he recently decided to complete his PhD in Chemistry at Queen's.

Global entrepreneurship network expands to Shanghai

BY PHIL GAUDREAU, SENIOR COMMUNICATIONS OFFICER

Freshly minted Queen's entrepreneurs looking to get their start in Asia now have some additional support.

The Dunin-Deshpande Queen's Innovation Centre (DDQIC)'s Global Network, a group of alumni and senior business leaders around the world, has added a network node in Shanghai. The node marks the fifth link in the Global Network, and the first in Asia.

"A node in Shanghai is the next logical step for us, and will be a boost to our ability to support entrepreneurship and innovation activities at Queen's and beyond," says Greg Bavington (Sc'85), Executive Director of the DDQIC. "Our growing network will help entrepreneurs emerging from our program solidify their manufacturing strategy and tap into one of the world's largest markets."

Joining Queen's in Shanghai for the announcement of the node



Greg Bavington, Executive Director of the Dunin-Deshpande Queen's Innovation Centre, speaks during an alumni event in Shanghai on Oct. 25.

was Iris Technologies, a startup launched by Colin Harding (Com'17) and Conor Ross (Sc'16). The company is focused on solving the problem those with a concussion, migraine, or eyestrain often have when using computers.

The company is in the midst of implementing a manufacturing strategy for the region.

"As a technology company looking to grow sales and expand its manufacturing capabilities, doing business in Asia is almost a necessity," says Mr. Ross. "It is my hope that this Global Network node will help hardware startups tackle their biggest challenge – bringing a high-quality product to market – and to achieve this faster and with better products. We are grateful for the support of the DDQIC team and their efforts to support entrepreneurs like us."

The Queen's China Liaison Office, located in Shanghai, and the department of Alumni Relations are supporting the recruitment of the first volunteer members of this new node. The China Liaison Office was founded in 2007 and its existence underscores the importance of the country to Queen's global ambitions, says Associate Vice-Principal (International) Kathy O'Brien.

"Building relationships in China is a priority for Queen's," says Ms. O'Brien. "The university sent 47 students on exchanges to China in 2016-2017, and has almost 300 identified alumni in mainland China. The Shanghai

node of the Global Network is an exciting opportunity to engage our strong and committed Queen's alumni community in building Queen's-China connections, and to leverage and recognize their talents by making them an integral partner to what we are

The DDQIC, Alumni Relations, and Office of the Associate Vice-Principal (International) are seeking Shanghai-based alumni, business leaders, and other supporters who are willing to volunteer their time advising and assisting Queen's student entrepreneurs. In addition to supporting alumni entrepreneurs as they seek to build connections globally, the network also helps review the pitches of student entrepreneurs who are a part of the Queen's Innovation Centre Summer Initiative program.

Those interested in participating in the Global Network program or learning more about it should visit the DDQIC's website (queensu.ca/innovationcentre/).

queensu.ca/gazette November 7, 2017 Campusher S

Fostering sustainable social change

BY SARAH LINDERS, SENIOR **COMMUNICATIONS OFFICER**

Two Queen's University graduates, who each received \$25,000 in funding from the OceanPath Fellowship, are now busy pursuing community-focused experiential projects in East Africa.

Hanna Chidwick (Artsci'17) and Nabeela Jivraj (Artsci'17), are two of this year's OceanPath Fellows, and are currently in Tanzania and Kenva, respectively.

The year-long OceanPath Fellowship, coordinated by the Coady Institute, offers community-focused experiential learning opportunities to up to 12 graduating students every year from Queen's, as well as three other universities. New graduates have the chance to bring new ideas to, and work closely with, communities to foster sustainable and positive social change - both within Canada, and around the world.

Ms. Chidwick's project in Moshi, Tanzania – located at the base of Mount Kilimanjaro – is a partnership with the Pamoja Tunaweza Women's Centre, a local health clinic, to build health support for elderly people.

"Because elderly people in Moshi are living longer, there are more chronic diseases such as diabetes that many have to deal with," says Ms. Chidwick.



Hanna Chidwick (Artsci'17) and Nabeela Jivraj (Artsci'17), are two of this year's OceanPath Fellows, and are currently in Tanzania and Kenya, respectively.

Ms. Chidwick arrived in September and is working on building peer-to-peer social supports to help seniors who may feel isolated due to taking care of family, physical immobility or lack of finances to access healthcare or social sup-

"So far, the clinic staff and I have consulted with many of the elderly people in the Rau neighbourhood, along with the local chairman," she says. "It's been interesting to see the changes in the project because of our direct engagement with the elderly so far.

Building partnerships and fostering relationships with people to create a foundation for community support is key to sustainability and success. The support offered through the fellowship has been invaluable. I look forward to building on the strengths of the Moshi community by connecting directly with people and working towards a real impact."

Meanwhile in Mikei, Kenya, Ms. Jivraj's project is centred on the provision of access to water, sanitation and hygiene, working in partnership with Rieko Kenya, a locally-based organization run by members of the community.

The Mikei community has just begun the process of mobilizing resources to drill a deep well to serve the whole area. Since she arrived in Kenya in late September, Ms. Jivraj has been working on improving educational programs for the community until funding for more safe water sources is secured.

"The education piece will be important to drive behavioural change once additional infrastructure is available," says Ms. Jivraj.

The unique political situation in Kenya has put many projects on pause during the election re-run period, including action on her project. Nonetheless, Ms. Jivraj says that having the chance to connect with and learn from com-

munity members, people doing similar projects, and witnessing the practicalities of projects operating during the election period has been a valuable learning experience.

The next deadline for 2018-19 applications to the fellowship is Nov. 16. Both Ms. Chidwick and Ms. Jivraj highly recommend the experience and are grateful for support from their professors in the Queen's Department of Global Development Studies, particularly Paritosh Kumar.

"This experience has reinforced the importance of experiential learning," says Ms. Chidwick. "I would encourage students with a passion for learning and working in partnership with a community to reach out to their professors and apply."

"As a life sciences student, having the opportunity to work in a practical setting during my degree was both unique and formative. I've also learned a lot about myself during the process," says Ms. Jivraj. "I'd definitely recommend the fellowship to students from any discipline who have a passion for working with people, and are up for a challenge!

Students interested in applying for the fellowship can contact Queen's Oceanpath Advisor, Katie Fizzell (oceanpath@queensu.ca) in Oueen's Career Services.

Summit attendees seeking to make an impact

BY COMMUNICATIONS STAFF

Across the globe people are keenly aware of how social and environmental factors are critical to the health and prosperity of our communities. As efforts to achieve the United Nations' Sustainable Development Goals are pursued by business, governments, and communities worldwide, students from the Smith School of Business are seeking to make their impact.

Hosted by Smith's Centre for Social Impact, the 13th annual Social Impact Summit provides unique opportunities for Queen's students and our broader community to learn from today's trailblazers who are scaling solutions to today's toughest challenges.

The summit, being held on Queen's campus on Friday, Nov. 10 and Saturday, Nov. 11, brings together leading academics and practitioners to foster discussion on a wide variety of issues and topics that will empower them to move forward and make a social impact. This year's theme is 'Fierce and Furious.'



Among the list of speakers for the 13th annual Social Impact Summit are, clockwise from top left: Valérie Courtois, Director of the Indigenous Leadership Initiative; Zita Cobb, co-founder and CEO of the Shorefast Foundation and Innkeeper of the Fogo Island Inn; Geoff Green, founder and President of Students on Ice Foundation; and Chef Michael Smith and Chastity Smith, proprietors of The Inn at Bay Fortune.

"The Social Impact Summit, along with the Social Innovation Bootcamp that was held Oct. 13-14, are opportunities for students to engage with leading professionals in the area of social finance, social

entrepreneurship, social innovation," says Joanna Reynolds, Associate Director, Centre for Social Impact. "The summit allows students to reflect upon their values and to understand from seasoned

professionals how values apply to business and community life.

As always, the summit offers an excellent lineup of speakers, including an opening keynote address on Friday by Zita Cobb, cofounder and CEO of the Shorefast Foundation and Innkeeper of the Fogo Island Inn.

A full day of learning and networking activities follows on Saturday, including morning keynote sessions featuring speakers Geoff Green, founder and President of Students on Ice Foundation, Chef Michael Smith and Chastity Smith, proprietors of The Inn at Bay Fortune, and Valérie Courtois, Director of the Indigenous Leadership Initiative. The afternoon has a full schedule of panel sessions and workshops.

The Social Impact Summit is open to the Queen's and the Kingston communities, but registration is required (smith.queensu.ca/centres/socialimpact/summit/register.php).

Delegates expected to attend the Social Impact Summit include Queen's students in the Com-

merce programs as well as the MBA and Master of International Business programs. Many of whom are enrolled in the Certificate in Social Impact Program.

The Centre for Social Impact wishes to thank the OLG for their continued support of the Social Impact Summit. Visit the Centre for Social Impact's website for the complete agenda.

The Centre for Social Impact at Smith School of Business was established in 2004 with a mission to educate students and foster education, research, and advocacy on issues impacting our local and global communities. Every year, the Centre presents and supports a wide range of programming for students, staff, faculty, and members of the Queen's community to learn about the processes and practices that drive social impact – including the practice of values-based leadership and, social innovation, which refers to an innovative product, process or program that profoundly and positively changes a social system and is widely recognized a key driver of solutions to such complex issues. For more information email csi@queensu.ca.

BY LEIGH CAMERON, RESEARCH

PROMOTION COORDINATOR

Leading the way in research at Queen's

The recipients of the 2017 Prize for Excellence in Research are committed to building connections. Whether it be between organic compounds and metals or scholars and Indigenous communities, each scholar has established themselves as leaders in their fields, working to connect their studies to the world at large. Spanning disciplines across the university, the 2017 PER recipients are Sam McKegney (English), Liying Cheng (Education), Cathleen Crudden (Chemistry), Pascale Champagne (Civil Engineering),

Awarded annually in five areas (humanities, social sciences, natural sciences, engineering, and health sciences), the awards have been the signature internal research prize since 1980, and represent an important investment by Queen's in recognizing research and scholarship. Recipients are some of the top scholars in their fields, and they are each awarded a prize of \$5,000 as well as the chance to give a public lecture on their research in the spring. More information on the public lectures will be made available in early

and Denis O'Donnell (Medicine).

"I would like to extend my sincerest congratulations to this year's Prize for Excellence in Research recipients," says John Fisher, Interim Vice-Principal (Research). "This prize is a testament to the level of research excellence



This year's recipients of the Prize for Excellence in Research are, clockwise from top left: Cathleen Crudden (Chemistry); Pascale Champagne (Civil Engineering); Sam McKegney (English); Denis O'Donnell (Medicine); and Liying Cheng (Education).

found at the university, and a true mark of excellence for these scholars. Each researcher has made a significant, long-standing impact in their field. I look forward to watching them receive their prize at fall Convocation and to hearing their public lectures in the spring."

Sam McKegney (English) is an associate professor whose research has greatly impacted considerations of the ethical roles of settler scholars in Indigenous Studies. He has written many articles on environmental kinship, Indigenous prison writing, and the Truth and Reconciliation process. Dr. McKegney's 2014 book *Masculindians* explored the connections between constructions of

racial and gender identities by interviewing North American Indigenous artists, and received an honourable mention for The Canadian Women's and Gender Studies Association's Outstanding Scholarship Award.

Liying Cheng (Education) has helped to redefine language assessment practices around the globe. A professor in the Faculty of Education and director of the Assessment and Evaluation Group, Dr. Cheng's research into how effective assessment practices can lead to enhanced language teaching and learning outcomes for second language students has influenced education policy, curriculum, pedagogy, and language

assessment practices. She is highly respected in the international education community for her research into "washback," or the impact of language assessment practices on language learning and teaching.

Cathleen Crudden (Chemistry) is the Canada Research Chair in Metal Organic Chemistry and an internationally-recognized scholar whose discovery of how the bonding of organic compounds to metals in well-defined monolayers has garnered global attention from many different fields. She is an expert in synthetic organic chemistry, and has demonstrated bond formation reactions that were thought to be impossible by other scholars. Dr. Crudden has made immense strides in her field, and she now maintains extensive international collaborations with many researchers.

As the Canada Research Chair in Bioresource Engineering and Director of the Beaty Water Research Centre, Pascale Champagne (Civil Engineering) is an internationally-recognized researcher with an innovative and diverse research program in the fields of environmental engineering and bioresource management. Her research program focuses on topics of critical importance in Canada and internationally, and pillars in achieving sustainable development, including low energy and low impact eco-engineered systems for the treatment of wastewater, as well as using renewable resources in the creation of novel routes for the production of bioenergy, biofuels and bioproducts. Many of her projects are in collaboration with private industries, government/regulatory agencies, and municipalities.

Denis O'Donnell (Medicine) is a world-class respiratory physiologist specializing in the mechanisms of breathlessness and exercise limitation in patients with chronic lung disorders. His research in this field has been so influential that the respiratory community has named the critical lung hyperinflation point corresponding to an abrupt increase in intolerable breathlessness in patients with chronic obstructive pulmonary disease (COPD) the 'O'Donnell Threshold." He served as Chair of best practices guidelines for COPD management in Canada, has published extensively in top respiratory journals and has served on numerous international scientific panels and journal editorial boards.

Queen's researchers are renowned for their success in garnering research accolades, and the university ranks second nationally for external faculty research awards and honours, according to Maclean's. Queen's is also a member of the U15 group of Canadian research-intensive universities, and our faculty and students are advancing research programs that have real world impact and are addressing global challenges.

Eisenhauer recognized for major contributions to global cancer research

BY DAVE RIDEOUT,
COMMUNICATIONS OFFICER

The Canadian Cancer Research Alliance (CCRA) has recognized Professor Emerita Elizabeth Eisenhauer with its award for Exceptional Leadership in Cancer Research for her preeminent work in the field of cancer clinical trials, cancer treatment and drug delivery, and cancer research strategy and development.

Dr. Eisenhauer, renowned for her research in ovarian cancer, malignant melanoma, and malignant brain tumours, is one of only six recipients who will be formally presented with CCRA awards at the organization's biennial scientific conference next week.

"I feel very honoured to have received this recognition from the Canadian Cancer Research Alliance," says Dr. Eisenhauer.
"CCRA has brought together research funding agencies from across the country to develop common strategies and shared investments designed to prevent, diagnose and treat cancer – work that I have long supported."

In 1982, Dr. Eisenhauer was instrumental in creating the Investigational New Drug (IND) Program for the Canadian Cancer Trials Group (CCTG), based at Queen's University. Under her directorship, the IND program offered an opportunity for clinical investigators and patients to obtain new cancer drugs and contribute to their evaluation and development. During her tenure, which ended in 2012, Dr. Eisenhauer presided over 200 phase I-III clinical trials involving more than 5,500 patients and more than 100 new cancer-fighting

drugs. Many of these drugs led to new international standards of cancer treatments.

From 2006 to 2017, Dr. Eisenhauer also assumed several other national leadership positions, including roles as president of the National Cancer Institute of Canada; expert lead, Research at the Canadian Partnership Against Cancer; and co-chair of the CCRA. Most recently, she served as head of oncology at Queen's before her retirement in June 2017.

Looking ahead, Dr. Eisenhauer says there has been excitement around emerging immune treatments and molecular-targeted medicines for cancer, but she stresses that it would be a mistake to focus solely on a few treatment areas.

The CCRA conference runs from Nov. 5-7 in Vancouver.



queensu.ca/gazette November 7, 2017 Oncampus



Heavy pre-cast concrete panels are lifted into place on the north side of the Innovation and Wellness Centre. The panels are being trucked in from Ottawa.

IWC taking shape

BY PHIL GAUDREAU, SENIOR **COMMUNICATIONS OFFICER**

Large pre-cast concrete panels are hoisted into the air, expertly maneuvered into place, and connected with the outer walls of the

On another side, glass panels weighing 230 kilograms each are lifted and slipped into the aluminum housing, becoming part of the building's southeastern face.

The Innovation and Wellness Centre (IWC) is taking shape now that demolition work is complete. Workers aim to have the structure largely closed in within the next few weeks, using tarps to cover some sections. The whole building should be entirely enclosed by the end of the year, allowing the internal work to proceed without interference from the weather.

"The project is proceeding well

and we are taking steps to ensure the site, and neighbouring buildings, are ready for the winter," says Robert Polegato, one of the Project Managers in Physical Plant Services. "There will be some impacts to traffic around the site in the coming weeks, and we are reminding everyone to exercise patience and caution when driving, walking, or cycling past the IWC."

As part of the remaining exterior work, large slabs of concrete are being brought in on trucks. Once the installation of panels on the southern and western sides of the building begins, likely in late November, there will also be a lane reduction on Union in front of the centre while additional panels are brought to the site.

Updates regarding the Innovation and Wellness Centre project will be posted on the Gazette website (queensu.ca/gazette/).

On the road again

Queen's University engineering lab redesigns bicycle for teenager with cerebral palsy

BY ANNE CRAIG. **COMMUNICATIONS OFFICER**

Janessa Gerhardt has a cool, new set of wheels thanks to Queen's University engineer Claire Davies and a team of fourth year students working in her Building and Designing Assistive Technology Lab.

The Napanee teenager, who is living with cerebral palsy, had been trying for years to find a bike that would suit her limited range of motion. Her search came up empty until her physiotherapist Karen Forbes met up with Dr. Davies, who proposed a solu-

"We attended a special adaptive bike fair last spring but no bike worked for Janessa so she left in tears," Ms. Forbes says. "We met with Claire soon after and she proposed a solution."

Dr. Davies says she tasked a team of her fourth-year students with redesigning the crankshaft of a three-wheeled bicycle, which was the main area of concern. Due to her limited range of motion, Ms. Gerhardt was unable to pedal a traditional bicycle. Now, she rides up to two or three kilometers twice a day which is critical for someone confined to a power wheelchair, according to her therapist.

"Most kids her age who are at her level of mobility are confined to a power chair and that isn't healthy," she explains. "Janessa understands the health benefits of exercise so it's important for her to be active. Obesity is a genuine concern which affects all ar-



Janessa Gerhardt has a bicycle that suits her limited range of motion thanks to the work of, from left, students Elizabeth Hoskin, Louise Munro, Andrew Gowthorpe, as well as Claire Davies (Mechanical and Materials Engineering), and physiotherapist Karen Forbes.

eas of health, especially for those with limited mobility.

During a media event on campus, Ms. Gerhardt couldn't stop smiling or talking about her bicy-

"It gives me exercise and freedom and my legs work like they are supposed to," she says. "It's really fun. If it wasn't for Karen, Claire and their team, I wouldn't be riding at all."

Dr. Davies says the vision for

her multidisciplinary lab at Queen's, which includes occupational therapists and physical therapists, focuses on designing and building assistive devices to increase the independence of individuals with disabilities. Research includes assistive learning devices for children with visual impairments and Nintendo Wii software to prevent older adults from falling by improving their



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Invitation to provide feedback to **Queen's Principalship Review**

BY COMMUNICATIONS STAFF

Queen's University Chancellor Jim Leech recently sent out an email to all staff, students, and faculty inviting everyone to complete a survey on the present state and future development of the university and of the principalship. Chancellor Leech is the chair of the Joint Board/Senate Committee to Review the Principalship that was established earlier this term when Daniel Woolf indicated he wishes to be considered for a third and final term. He will complete his current term in June 2019.

The committee wants to hear

from members of the Oueen's community and the feedback it receives will help inform its discussions. The committee is planning to submit its recommendation on reappointment to the Board of Trustees in December.

The email was sent out by the University Secretariat's Office on behalf of the chancellor on Wednesday, Oct. 25 to faculty, student, and staff Queen's email ac-

The email includes a link to the online survey where people can share their thoughts confidentially as well as a link to a webpage with information that may be

helpful, including a letter from Principal Woolf. Please note that anonymous responses are not per-

The survey will remain open until Nov. 17, 2017 at noon and access to it is only from the email invitation.

If you do not wish to complete the survey or you did not receive the email invitation, you can visit the Joint Board-Senate Committee to Review the Principalship webpage to find out more about how to contribute your feedback. You may also email

univsec@queensu.ca with any questions you may have.

ONCAMPUS queensu.ca/gazette • November 7, 2017

Collaborating with Indigenous communities on research

BY PHIL GAUDREAU, SENIOR **COMMUNICATIONS OFFICER**

Several recommendations within the Oueen's Truth and Reconciliation Commission Task Force final report challenged researchers across the university to ensure they are engaging Indigenous communities in culturally appropriate and respectful ways.

To help share the perspectives of both Indigenous and non-Indigenous researchers and build competency at Queen's, the School of Graduate Studies, the Aboriginal Council of Queen's University (ACQU), and Four Directions Aboriginal Student Centre hosted a three-hour session about "Research Collaboration with Indigenous Communities.

More than 80 faculty and students attended the workshop, which included a keynote address and panel presentations by masters student Jon Aarssen; PhD candidate Natasha Stirrett; Heather Castleden, Associate Professor and Canada Research Chair in Reconciling Relations for Health, Environments, and Communities; and Marlene Brant Castellano, Co-Chair of Aboriginal Council of Queen's University. The event concluded with a talking circle which included all participants.

"This event is one way our school is responding to the recommendations of the Truth and Reconciliation Commission report at Queen's, a number of which speak to how we engage in research with Indigenous communities," said



Queen's Adjunct Professor Alex McComber (DSc'16) delivers a lecture about Indigenous research collaboration. More than 80 faculty and students attended the workshop on "Research Collaboration with Indigenous Communities."

Marta Straznicky, Associate Dean in the School of Graduate Studies and one of the event organizers. "The strong attendance at this workshop is a testament to the need for this type of information.

This presentation was the realization of months of effort by the School of Graduate Studies to better educate its students on how to engage Indigenous communities in research – being ever mindful of the adage "nothing about us without us". The workshop idea originated this summer, when the School of Graduate Studies and the ACQU established a Committee on Indigenous Research Collaboration. The committee includes representation from the ACQU, the School of Graduate Studies, Four Directions Aboriginal Student Centre, and other faculty members and students.

The workshop represents phase one of a longer-term plan to help broaden access by First Nations, Métis, and Inuit communities and organizations to the research resources of the university, appropriate to community needs and priorities. The School is also seeking to promote and develop the skills and intercultural competencies of graduate students and faculty for community-engaged research with, and by, Indigenous Peoples. Moving forward, The School of Graduate Studies will aim to provide students and faculty with the knowledge to build strong, mutually respectful, and durable research collaborations between Queen's University and

"This event is one way our school is responding to the recommendations of the Truth and **Reconciliation Commission report** at Queen's, a number of which speak to how we engage in research with Indigenous communities. The strong attendance at this workshop is a testament to the need for this type of information."

- Marta Straznicky, Associate **Dean, School of Graduate Studies**

Indigenous communities, added Dr. Straznicky.

As an example of a successful research collaboration, Queen's Adjunct Professor Alex Mc-Comber (DSc'16) gave a keynote address about a project within the Kahnawà:ke Moĥawk Territory aimed at supporting health promotion and diabetes prevention in local schools. This major and longterm effort united the local community and Montréal-based researchers. Dr. McComber said the approach of those original researchers, who incorporated community feedback and Indigenous ways of knowing into their work, resulted in a balanced relationship and served as a positive model for this type of research.

"Sometimes students come in with an idea, and when we hear the idea we think, 'Well, that's interesting but the way that they're talking about it is never going to work,' so we sit with the student

and talk with them," he said, reflecting on researchers approaching the Kahnawà:ke community leaders. "I remember the last time we told a student this she almost started to cry, thinking her idea was no good, and I said 'No, the idea is awesome! But we need to help you understand [community participatory research]'. When she came back around, she understood what we were wanting her to learn, and how she could contribute back to the community."

Dr. McComber noted, in the past, researchers would fly into Indigenous communities, gather information, and leave without contacting the community again; the next time the information would be seen was when a report was published. He suggested aspiring researchers should instead make the goal of their work to create new knowledge in collaboration with Indigenous communities and to build relationships that bring about understanding on both sides.

"As up and coming researchers...you have two ears, two eyes, and one mouth," Dr. McComber said in closing. "Come in with respect, and be open to being challenged and doing things differently.'

The session was part of an annual two-day Indigenous Research Symposium organized by the Four Directions Aboriginal Student Centre. In addition to the Friday workshop, the symposium explored the themes of this year's Queen's Read title, The Break, from an Indigenous perspective.

grad studies

THESIS DEFENCES 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.

Wednesday, Nov. 8

Agnes Elizabeth Ladon, Art History, 'The Art of Arctic Sovereignty: Towards Visualizing the North as Canadian, 1927-1974', Supervisors: J. Brison, L.L. Jessup, 320 Ontario Hall,

Friday, Nov. 24

Aaron Douglas Springford, Mathematics & Statistics, 'Spectral Analysis of Time Series With Latent and Irregular Times'. Supervisors: D.J. Thomson, G.K. Takahara, 521 Jeffrey Hall, 10 am.

Tuesday, Nov. 28

Xilong Yuan, Chemistry, 'Development of Green Chromatographic Techniques and Stimuli-Responsive Materials Based on Co2-Switchable Chemistry'. Supervisors: R.D. Oleschuk, P.G. Jessop, 515 Chernoff Hall, 1:30 pm.

Wednesday, Nov. 29

Kimberley Anne Foley, Public Health Sciences, 'Measuring the **Quality of Personal Care in Patients Undergoing Radical Radiotherapy** for Prostate Cancer'. Supervisors: W.J. Mackillop, P. Groome, 311 Carruthers Hall, 1 pm.

Thursday, Nov. 30

Md Shahrear Igbal, Computing, 'Towards A Security Framework for Smartphone Operating Systems'. Supervisor: M. Zulkernine, 524 Goodwin Hall, 1 pm.

Thursday, Nov. 30

Scott Lougheed, Environmental Studies, 'Disposing of Risk: The Biopolitics of Recalled Food and the (Un)Making of Waste'. Supervisor: M.J. Hird, 402B Gordon Hall, 9:30 am.

Monday, Dec. 4

Muhammad Farrukh Rafiq, Art History, 'Nationalism and Pre-Raphaelite Art'. Supervisor: J. Helland, D120 Mac-Corry Hall, 1 pm.

Tuesday, Dec. 5

Hao Li, Electrical & Computer Engineering, 'Advanced Downconversion Mixers for CMOS Radio Frequency Integrated Circuits' Supervisor(s): C.E. Saavedra, 428 Walter Light Hall, 10 am.

Thursday, Dec. 7

Iman Faraji, Electrical & Computer Engineering, 'Improving Communication Performance in HPC Clusters with GPU Accelerators' Supervisor: A. Afsahi, 428 Walter Light Hall, 1:30

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events calendar

FALL CONVOCATION All ceremonies are at Grant Hall

Tuesday, Nov. 14, 10 am Ceremony 1: School of Graduate Studies, Smith School of Business, School of Medicine, Faculty of Law Honorary Degree Recipient: John

Degrees and Diplomas: PhD, MSc, LLM, MBA, MFin, MIB, MMA, MEI, MIR, GDB, GDAP, DRPR, BCOMH, MD, JD

Tuesday, Nov. 14, 2:30 pm Ceremony 2: School of Graduate Studies, Faculty of Engineering and Applied Science, Faculty of Applied Science

Honorary Degree Recipient: Oliver (Theopolis) Jones, LLD Degrees, Diplomas and Certifi-

cates: PhD, MSc, MA, MEng, MASc, MES, MPI, GCCRE, BASc, BScH, BSc, BAH, BA

Wednesday, Nov. 15, 10 am **Ceremony 3:** School of Graduate Studies, Faculty of Arts and Science Degrees and Diplomas: PhD, MSc, MA, MScAS, MPH, MPA, BScH, BSc, BAH, BA, BPHEH, BPHE

Wednesday, Nov. 15 2:30 pm **Ceremony 4:** School of Graduate Studies, School of Nursing Honorary Degree Recipient: Debbie Docherty, DSc

Degrees, Diplomas and Certificates: PhD, MSc, MN, MNSc, MScHQ, MScAH, MScOT, MScPT, GDAH, BNSc, PHCNP, CNP

Thursday, Nov. 16, 10 am Ceremony 5: School of Graduate Studies, Faculty of Arts and Science Degrees and Diplomas: PhD, MSc, MA, MAC, MAAL, AMGD, BScH, BSc, BAH, BA, BCmpH, BCmp, BFAH, BFA, **BMus**

Thursday, Nov. 16, 2:30 pm Ceremony 6: School of Graduate Studies, Faculty of Education Honorary Degree Recipient: David Bouchard, LLD

Degrees and Diplomas: PhD, MEd, PME, GDPI, BEd, DEd

Wednesday, Nov. 8-Friday, Nov. 10 **Annual Gem and Mineral Sale at**

Miller Musuem

Come to the Miller Museum's annual Gem and Mineral Sale in the **Department of Geological Sciences** and Geological Engineering. Queen's geology alumni-owned businesses, Grenville Minerals and Alpine Gems, will be set up in the museum to sell beautiful cut gemstones, natural minerals and crystals, fossils, and decorative geological items from 9 am-5 pm daily. A portion of the sales comes back to the museum to fund new exhibits, and the delivery of the popular educational programs for local school groups, nature groups, cubs, brownies and all others with an interest in

Thursday, Nov. 9, 4:30-6 pm The Dr. Andrew and Margaret Bruce **Visiting Scholar in Surgical** Innovation

The Deptartments of Surgery and Urology invite you to a special presentation by Professor Zoltan Takats, PhD - Faculty of Medicine, Department of Surgery, Imperial College London, UK. "What Do the Molecules Tell Us? - The quiet revolution of chemical information" Precision medicine requires precise information to be presented to the surgeon in real time while in the operating room. Join us as Dr. Takats talks about his invention, the iKnife, an

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operative tool that can detect cancer at the time of surgery and the implications this technology will have on future surgeries. School of Medicine/Abramsky House, Atrium and Room 132A - Britton Smith Lecture

Friday, Nov. 10, 10:45-11:15 am Remembrance Day Service

Queen's annual secular Remembrance Day Service in Grant Hall. The guest speaker is Nathan Thanyehténhas Brinklow. Classes are cancelled between 10:30-11:30 am.

Friday, Nov. 10-Saturday, Nov. 11

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Social Impact Summit

The Social Impact Summit is an engaging and inspiring conference program that brings together leading academics and practitioners to expose delegates to a variety of issues and topics in the area of Social Impact and Responsible Leadership. This two-day Summit is a mixture of keynote speakers, panel discussions, skill building workshops and networking opportunities designed to educate and inspire delegates to be impactful and responsible leaders both in their careers and in their local communities. The Centre is thrilled to announce that Zita Cobb.

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Co-Founder and CEO of Shorefast Foundation and Founder and Innkeeper of the Fogo Island Inn will provide the keynote address on Friday, Nov. 10. Goodes Hall

Monday, Nov. 13, 5-6:30 pm **Queen's Reads Discussion Group** Parts 1 & 2

Come join our first Oueens Reads reading group where we will be discussing the first two parts of the Break. The session will be led by a trained facilitator and will finish with a bookmark making activity. Hosted at Four Direcetions Aboriginal Student Centre.

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Women's cross country team wins OUA title

BY COMMUNICATIONS STAFF

The No. 1 Queen's Gaels women's cross country team took the OUA championship in Windsor on Saturday, Oct. 28 led by a gold medal performance from Branna MacDougall. The men's team also put in a strong performance, claiming the bronze

The Gaels dethroned the 13time reigning champion Guelph Gryphons, finishing with 37 points, 25 points ahead of the silver medalist Toronto Varsity Blues (62). The Gryphons earned the bronze medal with 79 points.

Second-year runner Branna MacDougall finished first overall in the women's 8km race, becoming the second consecutive Gael to earn OUA MVP honours after Claire Sumner won the title in 2016. MacDougall crossed the finish line in a time of 27:19.5.

Close behind MacDougall were fellow first-team All-Stars Amy Stephenson in fourth in 27:43.3 and Claire Sumner in fifth in



The Queen's Gaels women's cross country team won the OUA championship in Windsor on Saturday, Oct. 28 earning the team their first provincial banner in 13 years.

27:46.1. Molly Steer was named a second-team All-Star finishing 10th in a time of 28:35.2 and Taylor Sills rounded out the Queen's scorers in 17th in a time of 29:16.9.

The Gaels men earned the

bronze medal with 85 points behind Guelph (41) and McMaster (50). Eric Wynands finished fourth in a time of 30:45.3 taking firstteam All-Star honours while teammate Mark Schmidt took the final

second-team All-Star spot finishing 14th in a time of 31:06.4.

The 2017 U SPORTS Cross Country Championships are being hosted by the University of Victoria on Sunday, Nov. 12.

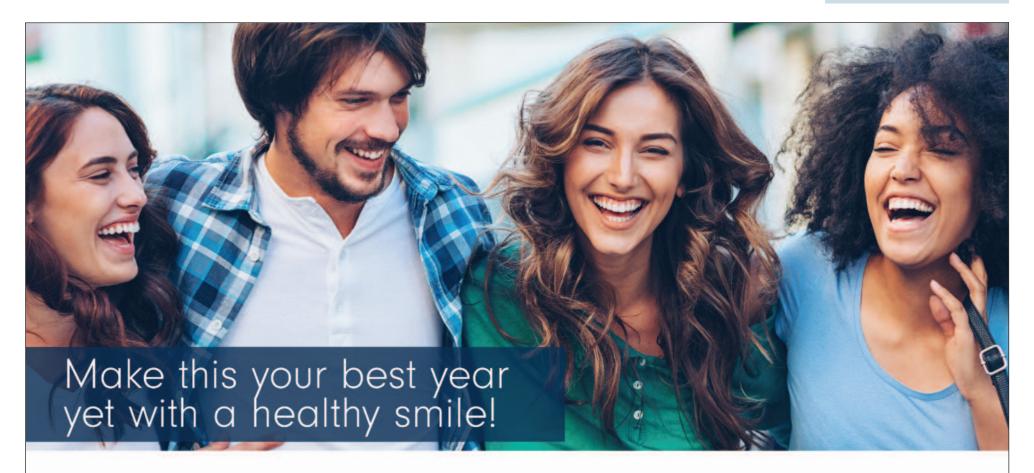
fit tips

Afternoon boost

Many of us know the afternoon slump rather well. Your energy level goes down and it's hard to focus. Physical activity does a lot to help beat the afternoon

- Do leg lifts to get blood flowing during those long meetings.
- Substitute a short walk for a break instead of browsing the in-
- Use washrooms on another floor and take the stairs.
- Do shoulder rolls every time you check your email.
- · Sit on a yoga ball when doing work at your desk.

Taking a physical activity break around 3 p.m. will help you stay focused and work more efficiently. It's normal to get dozy in the afternoon. Be aware of what's affecting your body and your energy level. Make sure you get enough sleep, eat a healthy lunch, and fit in some physical activity.



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books

Without Walls or Barriers: The Speeches of Premier David Peterson Edited by Arthur Milnes and Ryan Zade

In June 1985, David Peterson was sworn in as the leader of Ontario's first Liberal government in forty-two years. This collection of speeches explores the activist agenda the London, Ontario, lawyer pursued through his premiership and Peterson's agenda, which sought to ensure all Ontarians were able to participate fully in provincial society. When Peterson was asked what he viewed as his most important accomplishment, he thought for a brief moment and then whispered with obvious emotion, "breaking down walls and barriers." Through his speeches, readers can see Premier Peterson on the wider Canadian stage by addressing the economic challenges faced by the federation - most notably free trade - and by supporting the Meech Lake Accord, which was designed to bring Quebec into the constitutional

His speeches also show him on the global stage, engaged in the challenges of the transformation of world politics and Canada's trading relationship with the United States. By the time Peterson's premiership had come to an end in 1990, the Berlin Wall had fallen, Europe was increasingly integrated, a fragmented

Without Walls or Barriers



Soviet Union was beginning to collapse, the Canada-United States Free Trade Agreement was in full force and effect, and the age of globalization had begun.

Through this selection of speeches, the editors also present insights into a range of other figures, from former premiers and Peterson's political contemporaries to the British royal family. Particularly powerful tributes include Nelson Mandela's first visit to Canada and Peterson's eulogy for MPP Dalton McGuinty, Sr., the father of Ontario's 24th premier.

COMMITTEES

Advisory Selection Committee for the next Vice-Principal (Advancement)

Principal Daniel Woolf has convened, and will chair, a committee to advise him on the appointment of a new Vice-Principal (Advancement). Tom Harris' term will end on June 30.

The committee members are:

- · Daniel Woolf, Principal and Vice-Chancellor (Chair)
 - Sue Bates, QUAA President
- · Janet Dancey, Professor, Department of Oncology
- Kevin Deluzio, Dean, Faculty of Engineering and Applied Science
- Marcia Finlayson, Professor and Vice-Dean, School of Rehabilitation Therapy
- Michael Fraser, Vice-Principal (University Relations)
- · Liz Gorman, Associate Director, Alumni and Student Engagement
 - Adam Grotsky, SGPS President
- Jeannette Hepburn, Executive Director, Development & Alumni Re-
- Jennifer Li, AMS President • Rebecca Luce-Kapler, Dean, Fac-
- ulty of Education • Kathleen Macmillan, Trustee **Emerita**
- Patty McHenry, Principal Gifts Officer, Office of Advancement

- Stephanie Simpson, Director, Human Rights Office (equity representative)
- Dan Tisch, Board of Trustees
- · Rosie LaLande, Executive Assistant, Office of the Principal (Recording Secretary)

APPOINTMENTS

Anthony Sanfilippo reappointed as associate dean, Undergraduate Medical Education

Dean Richard Reznick is pleased to announce that Benoit-Antoine Bacon, Provost and Vice-Principal (Academic) at Queen's University, has reappointed Dr. Anthony Sanfilippo as Associate Dean of Undergraduate Medical Education, Faculty of Health Sciences, for a five-year period beginning July 1,

Dr. Sanfilippo will be entering his third term in the position as Associate Dean, which he has held since 2007. Anthony Sanfilippo has been a member of Queen's faculty since 1989 and is currently a full Professor in the Department of Medicine, Division of Cardiology.

Under Dr. Sanfilippo's leadership, the undergraduate medical education program has made dramatic gains. In 2015, it received an eightyear accreditation status, and in 2016, a glowing QUQAPs review.

Under his direction, the entire undergraduate program mounted an innovative competency-based curriculum, and now has one of the highest student satisfaction indices in the country.

Dr. Sanfilippo graduated from Queen's University with his Bachelor of Sciences in 1976 and Doctor of Medicine in 1981. Dr. Sanfilippo undertook residency in Internal Medicine at Queen's and became Chief Resident in Internal Medicine in 1984. Dr. Sanfilippo subsequently underwent his Clinical Training Fellowship in Cardiology at Queen's University. He then completed his research fellowship as a Research Clinical Fellow in the Cardiology Unit at Massachusetts General Hospital, Harvard University School of Medicine in 1989.

Dr. Sanfilippo has been involved with a variety of professional organizations and committees, taking on the role of President of the Canadian Society of Echocardiography from 1997 to 2002, and leading the development of guidelines and accreditation processes for the practice of Echocardiography in Ontario. Widely recognized as an expert in the field of cardiology and medical education, Dr. Sanfilippo has also given over 150 presentations over the course of his career.

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: J1017-0565 Position Title: Educational Developer (Indigenous Curriculum and Ways of Knowing)

Department or Area: Teaching & Learning Portfolio

Length of term: 2 years Closing Date: Nov. 22

Grade: 10

Competition Number: J1017-0695 Position Title: Simulation Laboratory Manager

Department: School of Nursing Salary: \$58,454/Year

Grade: 8

Length of term: Until Jan. 31, 2019 Closing Date: Nov. 26

Competition Number: J1017-0617 Position Title: Executive Director of Development, Faculty of Arts and

Grade: 12

Job Type: Permanent (Continuing) Closing Date: Nov. 20

Additional Information: Interested candidates are invited to send re sume and letter of interest to

QueensFAS@kciphilanthropy.com

Competition Number: J0917-0648

Position Title: Program and Event Coordinator

Department: Office of Professional **Development and Educational** Scholarship

Salary: \$51,545/Year Grade: 7

Job Type: Permanent (Continuing) Closing Date: Nov. 12

Competition Number: J0917-1569 Position Title: Health Education Research Associate

Department: Office of Professional **Development and Educational** Scholarship

Salary: \$58,454-\$73,068/Year Grade: 8

Length of term: Continuing Closing Date: Nov. 12

Competition Number: J0917-1536

Position Title: Community Outreach Coordinator

Department: Standardized Patient Program

Salary: \$45,458/Year Grade: 6 Hours per Week: 14

Length of term: 2 years Closing Date: Nov. 13

Additional Information: Salary to be pro-rated based on 40% time.

Successful Candidates

Job Title: Learning Management System Assistant (USW Local 2010) Department: Faculty of Arts & Science-Continuing Distance Studies Competition: J0617-0585

Successful Candidate: Sean Mayo

Job Title: Program Manager (USW

Local 2010)

Department: Department of Medi-

Competition: J0717-0363 Successful Candidate: Genevieve Bureau

Job Title: Student and Faculty Liai-

Department: International Centre for the Advancement of Community Based Rehabilitation (ICACBR) **Competition:** J0617-0049

Successful Candidate: Ndinda Msiska

Job Title: Coordinator of Academic Personnel (USW Local 2010) **Department:** Faculty of Education-CTE

Competition: J0517-1012

Successful Candidate: Julie Lackie (Continuing Teacher Education)

PUZZLE SOLUTIONS

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



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