



BUILDING A DIVERSE COMMUNITY



UNIVERSITY COMMUNICATIONS

The Principal's Implementation Committee on Racism, Diversity, and Inclusion is tasked with reviewing past reports on issues of racism, diversity, and inclusion at Queen's and will submit to the principal by March 31, 2017 a list of actions to be implemented that identify priorities, timelines, and measures to evaluate the success of implementation. The committee members are: (top row, l-r) student Dev Aransevia, staff member Rosie LaLande (Executive Assistant to the Principal and committee secretary), staff member Tim Tang, Professor Laeeque Daneshmend. Bottom row, l-r: Professor Yolande Chan, staff member Nilani Loganathan, and student Hana Chaudhury. See related story on Page 2



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New website launched

BY COMMUNICATIONS STAFF

A new website that details the work and processes of the Principal's Implementation Committee on Racism, Diversity, and Inclusion is now available at queensu.ca/implementationrdi.

The website is meant to inform the Queen's community of the committee's ongoing work and will be updated with new information, including dates for community forums, as it arises.

Convened by Principal Daniel Woolf in early 2017, the committee is tasked with expeditiously reviewing past reports on issues of racism, diversity, and inclusion at Queen's. The group will submit to the principal by March 31, 2017 a list of actions to be implemented that identify priorities, timelines, and measures to evaluate the success of implementation.

"We are looking for input from the Queen's community on the implementation priorities of past report recommendations," says Yolande Chan, Professor, Smith School of Business, and committee co-chair. "We want to hear from students, faculty, and staff at community forums in March and via email implementationrdi@queensu.ca. If you have expertise or suggestions, please get in touch."



Tasked with reviewing past reports on issues of racism, diversity, and inclusion at Queen's the Principal's Implementation Committee on Racism, Diversity, and Inclusion will submit a report to the principal by March 31.

Volume 45, Number 4, 2017

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Subscriptions are \$30 per year.

QUEEN'S UNIVERSITY VICE-PRINCIPAL (UNIVERSITY RELATIONS)

Michael Fraser

The *Gazette* is published biweekly during the academic year (September – April) and monthly during the Spring and Summer months (May – August) by University Communications, Richardson Hall, Queen's University, Kingston, ON Canada, K7L 3N6.

Submissions and letters 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.

SCHEDULE

Issue date: March 7
Ad booking deadline: Feb. 17
Ad artwork deadline: Feb. 24
Noon editorial deadline: March. 1

Issue date: March 21
Ad booking deadline: March 3
Ad artwork deadline: March 10
Noon editorial deadline: March 15

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Chancellor appointed special advisor on Canada Infrastructure Bank

BY CHRIS ARMES, COMMUNICATIONS OFFICER

Queen's Chancellor Jim Leech (MBA'73) has been appointed the Special Advisor to the Prime Minister on the Canada Infrastructure Bank. In making the announcement on Friday, Feb. 10, Prime Minister Justin Trudeau cited Chancellor Leech's decades of managerial experience in business and the not-for-profit sectors.

"The renewal of aging infrastructure and creation of new infrastructure is a hot topic around the world – governments of all stripes and at all levels are seeking to modernize their economic backbones," Chancellor Leech says. "I believe that, if done right, an Infrastructure Bank will give Canada a competitive advantage in the global quest for infrastructure funding and development. I am honoured that the prime min-



Chancellor Jim Leech

ister has asked me to contribute to moving the bank from concept to reality."

After graduating from the Queen's Masters of Business Administration program in 1973, at the top of his class, Chancellor Leech entered the financial services and real estate industry. In 2001, he was selected to establish the private investment arm of the Ontario Teacher's Pension Plan be-

fore being appointed president and CEO in 2007. During his term, he oversaw the plan's growth to become the largest single-profession pension plan in Canada, responsible for investing \$150 billion for 310,000 teachers before retiring in 2014.

"During his term as chancellor, Jim Leech has worked tirelessly as an advocate for and representative of Queen's," says Michael Fraser, Vice-Principal (University Relations). "We are certain that he will bring this same unflagging effort to this new role. Queen's offers Chancellor Leech our most sincere congratulations as he takes on this new responsibility."

Chancellor Leech also serves in leadership roles with the MasterCard Foundation, the Toronto General & Western Hospital Foundation and 32 Signal Regiment.

"Mr. Leech brings with him immense knowledge and experience,

and I am confident that he will help ensure a smooth and successful launch of the Canada Infrastructure Bank," says Prime Minister Trudeau. "This is about making sure our public dollars go farther and are used smarter, as we make historic investments in infrastructure to create middle class jobs today and sustained economic growth for years to come."

In his new role, Chancellor Leech will be tasked with guiding an implementation team, engaging with stakeholders, providing strategic advice, and overseeing the recruitment of board members for the Canada Infrastructure Bank.

The bank, announced in the 2016 Fall Economic Statement, will be responsible for investing at least \$35 billion from the federal government in large infrastructure projects across Canada.



At the head of the class

Queen's physicist James Fraser receives prestigious 3M National Teaching Fellowship

BY CHRIS ARMES,
COMMUNICATIONS OFFICER

James Fraser (Physics, Engineering Physics and Astronomy) has received the prestigious 3M National Teaching Fellowship from the Society for Teaching and Learning in Higher Education (STLHE).

Dr. Fraser is the eighth Queen's professor to be made a 3M Fellow, with the most recent being John Smol (Biology) in 2009.

"The 3M National Teaching Fellowship recognizes exceptional academics who go above and beyond to foster a stimulating educational experience for their students," says Daniel Woolf, Principal and Vice-Chancellor at Queen's. "Dr. Fraser works tirelessly to instill an appreciation and understanding of physics in his students – encouraging them to participate as active partners in the exchange of knowledge. On behalf of the entire Queen's community, I wish him our most sincere congratulations on this distinguished award."

Throughout his career, Dr. Fraser has received praise and recognition for his unique, student-driven approach to teaching. As opposed to the traditional lecture format, in which students are presented with information to absorb, Dr. Fraser uses the assigned readings and the questions that they raise to guide the teaching process. By encouraging small group collaboration and discussion, the students are able to apply what they have learned and work through questions in a way that promotes a deeper understanding of the subject matter.

"It is a tremendous honour to be named a 3M National Teaching Fellow," says Dr. Fraser "I am truly grateful for the immense support and encouragement I've received during my teaching ca-



James Fraser (Physics, Engineering Physics and Astronomy) speaks at an event recognizing his being awarded the 3M National Teaching Fellowship from the Society for Teaching and Learning in Higher Education on Thursday, Feb. 16 at Stirling Hall. Dr. Fraser is the eighth faculty member at Queen's to be made a 3M Fellow.

reer from my departmental colleagues, my teaching assistants and the students themselves."

Dr. Fraser was previously awarded the 2016 Medal for Excellence in Teaching Undergraduate Physics from the Canadian Association of Physicists, and the Queen's Alumni Award for Excellence in Teaching in 2012. He is also a recipient of the Chancellor A. Charles Baillie Teaching Award.

Dr. Fraser's receipt of the 3M Fellowship is the latest major achievement for the Department

of Physics, Engineering Physics and Astronomy – which has helped Queen's cement its reputation as a world leader in research and education in the field. Queen's is home to 2015 Nobel Prize recipient Art McDonald, as well as Gilles Gerbier, the Canada Excellence Research Chair in Particle Astrophysics. In 2016, the Canada First Research Excellence Fund provided Queen's with a significant investment to support the creation of the Canadian Particle Astrophysics Research Centre (CPARC).

"I can't think of a more deserving recipient of this award than James," says Marc Dignam, Head of the Department of Physics, Engineering Physics and Astronomy. "Since his arrival in the department, he has been a driving force behind the continual innovation and renewal of our courses. His impact on the first year physics course, in particular, cannot be overstated. I firmly believe that his innovative, student-focused approach has not only improved the learning outcomes and student satisfaction in this key

"It is a tremendous honour to be named a 3M National Teaching Fellow. I am truly grateful for the immense support and encouragement I've received during my teaching career from my departmental colleagues, my teaching assistants and the students themselves."

— James Fraser

course, but has also resulted in significant growth in physics majors at Queen's."

Queen's recognizes the importance of promoting active learning and student engagement to enhancing the student learning experience. Experiential learning activities help students apply what they have learned inside the classroom and allow them to deepen their knowledge and skills. This commitment to experiential learning is exemplified through a wide range of practical, hands-on learning opportunities embedded in academic programs – such as such as internships, practica and service learning.

The 3M National Teaching Fellowship is amongst the most prestigious recognitions of excellence in educational leadership and teaching in the post-secondary sector. Founded in 1986 through a partnership between the Society for Teaching and Learning in Higher Education and 3M Canada, up to 10 Canadian academics annually are named fellows. Fellows become life members of the society – taking part in its annual meeting and working to create new ways to foster academic excellence.

For more information on the 3M National Teaching Fellowship, please visit the website stlhe.ca/awards/3m-national-teaching-fellowships/.

UNIVERSITY COMMUNICATIONS

Honorary Degree Nominations for 2018

Honorary Degree Nominations for 2018 Information and Nomination form available online <http://www.queensu.ca/secretariat/senate/honorary-degrees> or contact the University Secretariat at 613-533-6095.

Deadline for submission of nominations:
Friday, March 1, 2017



As part of Healthy Heart Week at Queen's – Feb. 13-17 – Peer Health Educators Jennifer Williams, left, and Lindsay MacLennan hand out Friend-Grams and chocolates at the Queen's Centre on Tuesday, Feb. 14, Valentine's Day. Daily events were held across campus to encourage students to prioritize heart health and show them how easy it can be to be heart healthy.



McDonald among honorary degree recipients

BY COMMUNICATIONS STAFF

Queen's University has unveiled its honorary degree recipients for 2017, and the list includes Nobel Prize Laureate and Queen's University Professor Emeritus Art McDonald.

Fifteen other people will join Dr. McDonald in accepting an honorary degree in recognition of their outstanding contributions in the fields of academia, business, politics, scientific research, and the arts.

The university will present the honorary degrees during 2017 convocation ceremonies.

SPRING 2017

James Rutka

James Rutka (Meds'81) is a professor in the Department of Surgery at the University of Toronto and a pediatric neurosurgeon with a clinical practice at the Hospital for Sick Children. Dr. Rutka's primary research and clinical interests relate to the science and surgery of human brain tumours and epilepsy. He has more than 450 peer-reviewed publications. Dr. Rutka is an Officer of the Order of Canada. During his studies at Queen's, he was quarterback for the Gaels, leading the football team to a Vanier Cup victory in 1978.

Dr. Rutka will receive his honorary degree on Thursday, May 25 at 2:30 pm.

Stephen J.R. Smith

Stephen J.R. Smith (Sc'72) is one of Canada's leading entrepreneurs in the financial services industry. He is renowned for innovation in information technology and financial structuring in the Canadian mortgage industry. Mr. Smith is an avid supporter of post-secondary education. In 2015, he made a \$50-million investment in business education at Queen's in order to equip the leaders of tomorrow with the skills to sustain Canada's business, economic, and social development.

Mr. Smith will receive his honorary degree on Tuesday, May 30 at 2:30 pm.

Gurujai and Jaishree Deshpande

Gurujai (PhD'79) and Jaishree Deshpande are trustees of the Deshpande Foundation, which strengthens ecosystems that create significant social and economic impact through entrepreneurship and innovation. Their joint gift along with the Dunin Foundation in 2016 is allowing Queen's to ex-



UNIVERSITY COMMUNICATIONS

In recognition of their work as entrepreneurs and philanthropists, as well as supporters of Queen's University, Gurujai (PhD'79) and Jaishree Deshpande will receive honorary degrees at this year's spring convocation ceremonies.

pand its innovation programming for students through the Dunin-Deshpande Queen's Innovation Centre.

Dr. Deshpande has pursued an entrepreneurial career for the last three decades. He was involved either as the founder, a founding investor or chairman of several companies. Ms. Deshpande earned a Master of Science in Physics in 1975 from the Indian Institute of Technologies (IIT) and a Master in Computer Science in 1989 from Boston University. She currently serves as a trustee for the Museum of Science in Boston and is involved with HESTIA Fund – a fund established to support after-school programs for low-income children in Massachusetts.

The Deshpandes will receive their honorary degrees on Wednesday, May 31 at 10 am.

David Skegg

Sir David Skegg is an epidemiologist and public health physician based at the University of Otago in New Zealand. His research focuses mainly on the causes and control of cancers, especially breast and cervical cancer, and the use of epidemiological methods to study benefits and risks of medicines. As Vice-Chancellor of the University of Otago from 2004 to 2011, he took a strong interest in opportunities for international collaboration. He promoted discussions that led to the establishment of the Matariki Network of Universities, of which Queen's and the University of Otago are founding members.

Dr. Skegg will receive his honorary degree on Friday, June 2 at 10 am.

John Alderdice

John Alderdice, Baron Alderdice, played a significant

role in the development of the Irish peace process and the negotiation of the 1998 Good Friday Agreement as leader of the Alliance Party of Northern Ireland. He then stepped down as Alliance Leader and accepted an appointment as Speaker of the new Northern Ireland Assembly. He retired as Speaker and Member of the Legislative Assembly in 2004. For many years, he served as a Consultant Psychiatrist and Senior Lecturer in Psychotherapy at Queen's University Belfast. He established the Centre for Psychotherapy in Belfast. He continues as an active member of the House of Lords, but has stepped back from front-line party politics to focus on his academic and practical involvement in situations of violent political conflict.

Lord John Alderdice will receive his honorary degree on Monday, June 5 at 10 am.

Otto Naumann

Otto Naumann is the leading

name in Old Master paintings in the United States and is one of the most respected figures in the international art scene. Dr. Naumann is renowned for his exceptional "eye" for quality and for his skills in connoisseurship. Having made a name for himself specializing in Dutch and Flemish art, Dr. Naumann has handled more Rembrandts than any other living dealer and is the only dealer alive who has sold a painting by Vermeer.

Dr. Naumann will receive his honorary degree on Tuesday, June 6 at 10 am.

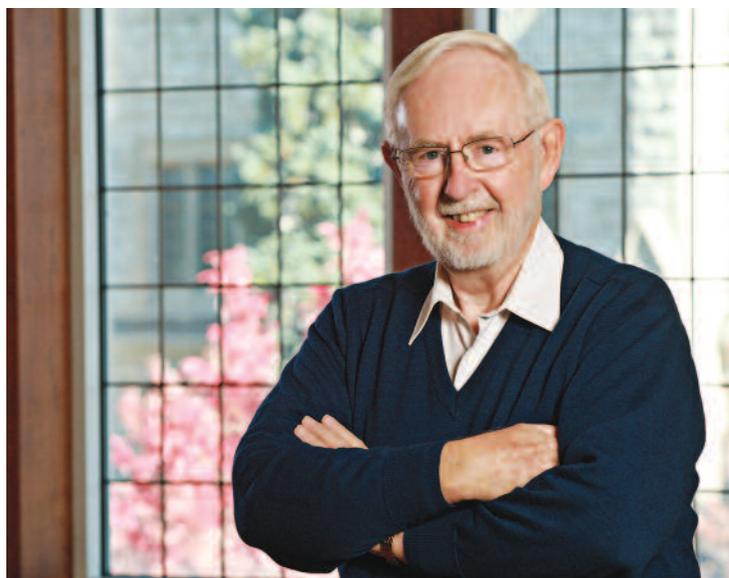
Frank McKenna

Frank McKenna has held numerous leadership positions in both the public and private sector. From 1987–1997 he was premier of New Brunswick. He served as Canadian ambassador to the United States from 2005–2006. He is currently deputy chair of TD Bank Group, chairman of Brookfield Asset Management, and is on the board of Canadian Natural Resources.

Mr. McKenna will receive his honorary degree on Thursday, June 6 at 2:30 pm.

Art McDonald

Art McDonald is a professor emeritus in the Department of Physics, Engineering Physics and Astronomy. Dr. McDonald shared the 2015 Nobel Prize in Physics for his longtime research and groundbreaking findings into neutrinos – sub-atomic particles considered the basic building blocks of the universe. He continues research on neutrinos and dark matter at the SNOLAB underground laboratory and is a member of the



Professor Emeritus Arthur McDonald, the co-winner of the 2015 Nobel Prize in Physics, will receive an honorary degree from Queen's during this year's spring convocation ceremonies.

PHOTO BY BERNARD CLARK

Board of Directors of the Perimeter Institute of Theoretical Physics.

Dr. McDonald will receive his honorary degree on Wednesday, June 7 at 10 am.

Fredy Peccerelli

Fredy Peccerelli has dedicated his life to upholding human rights and dignity through the application of forensic sciences. He is an internationally renowned and recognized human rights defender and forensic anthropologist, and founding member of the Forensic Anthropology Foundation of Guatemala (FAFG). As FAFG's executive director, Mr. Peccerelli leads the development and implementation of a system that applies victim investigation, forensic-archaeology, forensic-anthropology, and forensic-genetics to uncover the identity of victims of mass human rights abuses, and the truth behind their disappearance.



Mr. Peccerelli will receive his degree on Thursday, June 8 at 10 am.

Donald Bayne

Donald Bayne (Arts'66, Law'69, EMBA'01) is a partner with Bayne, Sellar, Boxall, a firm practising exclusively criminal law in Ottawa. Mr. Bayne has practised criminal law exclusively for the past 45 years. He has been designated a specialist in criminal litigation by the Law Society and has conducted trial and appellate advocacy at all levels of courts in Canada and at public inquiries around the world.

Mr. Bayne will receive his honorary degree on Friday, June 9 at 2:30 pm.

Justice Kin Kee Pang

Justice Kin Kee Pang (Arts'70), a member of Hong Kong's senior judiciary, will receive his honorary degree on May 20 in Hong Kong.

FALL 2017

Please note, Queen's has not yet confirmed the Fall 2017 convocation schedule.

- **Debbie Docherty**, educator, social worker, community volunteer
- **Oliver Jones**, jazz pianist
- **John Rae**, Arts'67, active political participant and businessman
- **David Bouchard**, author and educator

Bringing research and policy together

BY ANDREW CARROLL,
GAZETTE EDITOR

As the newest Queen's National Scholar, Diane Orihel is still settling in at the university.

The QNS in Aquatic Ecotoxicology, Dr. Orihel's research looks into the fate and effects of contaminants in the environment. Specializing in freshwater ecosystems, she uses an ecosystem approach to ecotoxicology.

"Traditionally, toxicology has focused on short-term assessments of the direct toxicity of a chemical on a model organism," she explains. "Such experiments are informative but that's not what actually happens in the real world. The real world is complex – contaminants released from smoke stacks or sewage outfalls often change as they enter and move through aquatic ecosystems, and affect not only individual plants and animals, but whole food webs. By using an ecosystem-based approach to ecotoxicology, I unravel the intricacies of how chemicals behave in our lakes and wetlands and the impacts they have on everything from plankton to fish."

As the QNS, Dr. Orihel is jointly-appointed to the School of Environmental Studies and Department of Biology. It's an ideal set up she explains and was one of the biggest draws for coming to Queen's. Her work, she says, while grounded in science, is always framed in terms of environmental policy.

"All of my research starts with the question: what is the policy need and what are the scientific data required to address that policy need?" she says. "Being able to have a foot in the Department of Biology and a foot in the School of



The Queen's National Scholar in Aquatic Ecotoxicology, Diane Orihel's research looks into the fate and effects of contaminants in freshwater ecosystems.

Environmental Studies is a very good match for me because that's what I do. For me, science doesn't stop at the scientific publication. I work hard to bring my science to the public and to engage decision makers, so that together we can make strides toward solving our most pressing environmental problems."

For example, her research has already contributed to: linking atmospheric mercury deposition and methylmercury concentrations in fish; understanding nutrient recycling and toxic algal blooms in freshwater lakes; and probing the degradation of a common flame retardant in the natural environment.

Another advantage Queen's of-

fered Dr. Orihel is its proximity to the Queen's University Biological Station (QUBS). A mere 45-minute drive north and she is immersed in her research environment. At the same time Dr. Orihel is excited to be working with some of the leading experts in water issues, in Canada and around the world, at Queen's.

The QNS program was established in 1985 with the objective of attracting outstanding early and mid-career professors to Queen's to "enrich teaching and research in newly-developing fields of knowledge as well as traditional disciplines."

Dr. Orihel definitely fits the mold.

Her ecotoxicology research ad-

resses two of the leading environmental issues in Canada.

Currently, the Government of Alberta is looking at reintegrating wastewater from oil sands mining and upgrading that is currently stored in tailings ponds. First, however, the water, billions of litres, will have to be treated.

Dr. Orihel wants her research to contribute to ensuring that downstream aquatic life isn't detrimentally impacted.

"We need to rigorously test in a realistic setting whether existing treatment technologies effectively reduce the toxicity of tailings pond water. Academia, government, and industry need to partner on this important issue. Only then can we be confident that re-

leasing this waste water will not change the ecological integrity of downstream ecosystems and the vital services they provide to local First Nations and other communities."

At the same time, Dr. Orihel is part of an NSERC strategic project that is looking into the effects of diluted bitumen (dilbit) spills on freshwater ecosystems. It is a timely topic, she says, as there are a number of pipelines transporting unconventional oils such as dilbit, but little understanding of how these materials behave following a spill and what effects they have on freshwater ecosystems.

"Obviously, we have to do everything we can to prevent oil spills, but inevitably, things can go wrong and these spills do occur," she says. "We need to be properly prepared to respond to spills in freshwater environments. We need to learn how dilbit behaves in fresh water and what treatments are best to apply to minimize the negative impacts of these spills."

After completing her undergraduate studies at the University of British Columbia, Dr. Orihel earned a Masters of Natural Resource Management from the University of Manitoba, and a PhD from the University of Alberta. Most recently she was a Banting and Liber Ero Postdoctoral Fellow at the University of Ottawa.

To learn more about Dr. Orihel's research, visit her website (dianeorihel.wordpress.com).

For more on the Queen's National Scholar program, visit the QNS page on the Provost's website (queensu.ca/provost/teaching-and-learning/queens-national-scholar-program).

UNIVERSITY COMMUNICATIONS

Grant provides boost for Queen's Elder Law Clinic

BY COMMUNICATIONS STAFF

One of the only clinics of its kind in Canada, the Queen's Elder Law Clinic (QELC), has received a \$25,000 grant from the United Way.

The funding will enable the clinic to provide help to a greater number of Kingston-area seniors while also providing students more experiential learning opportunities.

"The clinic has grown substantially, to the point that it now requires a full-time director," says Christian Hurley, the director of QELC and the Queen's Business

Law Clinic (QBLC).

Blair Hicks joined QELC last May on a part-time basis as review counsel. Thanks to the charity's funding, she will assume the role of director in April. This will enable Hurley to focus his full-time efforts on QBLC, which is also rapidly expanding.

"I'll be able to pass the torch to her," Hurley says. "It's going to enable the Elder Law Clinic to grow at a quicker pace and pursue other avenues available to us."

It also means the clinic, which dealt with 102 separate matters for 69 clients in 2016, can bring on more students and increase its

visibility.

Hicks runs her own estate planning practice in Kingston and works with issues related to elder law every day.

"I come from an education background so I enjoy working with students and seeing the progress people make when they are learning a new skill," she says. "It was an easy fit."

The clinic deals with a wide range of issues affecting seniors and regularly assists their clients to prepare wills, powers of attorney and guardianship applications. QELC students are often asked to help their clients under-

stand their legal rights and obligations in a number of different contexts.

"It's not boxed in, per se. It's a broad area of law," Hurley says. "We also give presentations to stakeholders in the community."

These include care workers, doctors, nurses, social workers and the Kingston Police.

QELC is also teaming up with the Queen's Prison Law Clinic to provide legal assistance to older inmates, which Hurley chalks up as a product of the collaborative workspace at Queen's Law Clinics.

"While inmates are incarcer-

ated, they often need someone to help with their outside affairs.

Preparing a power of attorney can address this issue; however, many inmates do not have the means necessary to retain a lawyer to do this sort of work," Hurley says.

Hurley applied for the grant in October, and pitched QELC's case to the United Way in November. He was advised that the application was approved just before the holidays.

"It's a very popular clinic. Last year we received applications from 54 students seeking one of the eight available caseworker positions," he says.

viewpoint

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

QMP: A learning opportunity like no other

The following is a guest blog written by Queen's Model Parliament co-chairs Jasmine Lagundzija, (Artsci'18) and Brandon Jamieson, (Artsci'17).

For three days every January, 350 students from Queen's University travel to Ottawa to participate in the country's largest and oldest model Parliament conference. For the past 70 years, Queen's Model Parliament (QMP) has given young Canadians the opportunity to engage with politics firsthand as they hone their debating skills and draft legislation to address some of the nation's most pressing issues, all while seated in the House of Commons.

The conference begins in September, when more than 500 students from nearly every discipline apply for the opportunity to attend QMP. Then, through random lottery, 338 students have the opportunity to attend the conference as delegates. When they are admitted to the conference, they are bound to one of the five major political parties in Canada. After electing a party leader, the delegates are free to roam as party leaders canvass and campaign to have delegates join their party. After two weeks of campaigning and a leadership debate, delegates may either rejoin the party they were first bound to, or they may switch to a new party. As is practice by convention, the party with the most members will form

government. Then, for four months, delegates meet weekly in their respective caucuses to draft legislation that will be debated on in full session of the House in January.

Simultaneously, the QMP Journalism Program kicks off. Ten students are admitted to the conference to adopt the role of the press. While delegates are drafting legislation, canvassing for their party, and preparing for the conference, the journalists are interviewing, critiquing, and publishing their work in the bi-weekly Parliamentary Post. The Press Corp travels to Ottawa with the delegates and continue their work, holding our would-be-politicos to account for their policies. At the end of the conference, they are invited to attend a live-taping of CBC's Power & Politics – a small reward for their work.

While in the House, guest speakers are invited to preside over debate on bills as Speakers of the House. Just this year we were privileged to welcome the Rt. Hon. Justin Trudeau, the Hon. Bill Morneau, British High Commissioner Howard Drake, Rosemary Barton, among countless others. After presiding over debate, speakers have the chance to share their own personal experiences and have a conversation with delegates.

The bills presented at QMP are wide ranging in their scope and subject. They cover topics on

everything from the environment, to Indigenous affairs, foreign affairs to the future of the CBC.

However, the topic of bills tends to reflect the broader concerns of young Canadians today. How can we address the ever pressing threat posed by climate change? What is Canada's role in a quickly adapting global political landscape? It is hard not to remain hopeful about the future of the country when students willingly choose to attend this conference to debate these issues, for no reason other than their own personal satisfaction. The solutions presented are often innovative, comprehensive, and occasionally humorous. However, this reflects a broader light-hearted tone delegates adopt when debating issues. Debate isn't divisive and partisanship isn't poisonous.

The students leave with more than just the memories. The experience they have is just learning outside the classroom. They leave with a greater grasp on the legislative and procedural functions of our government and a more acute understanding of the complex issues we face as a nation. They hear of the value and importance of remaining engaged citizens through voting and community service. They appreciate the necessity of debate with equal parts respect and consideration. They have taken away skills that will continue to better them throughout their educational en-

deavours, their future careers, and, most importantly, as private citizens.

For us, as the co-chairs of this year's conference, we had the privilege of working with a team of talented individuals and a network of hundreds of alumni to deliver this annual experience. Without hesitation, we volunteered 15 to 20 hours per week of our time on preparing for those three days. We were always motivated by the prospect that we were having at least a small, but hopefully a profound impact on

the leaders of today and tomorrow. In our conversations with QMP alumni such as the Hon. Peter Milliken, the Hon. John Baird, and Nik Nanos, they frequently cite how their time at QMP shaped and inspired their desires to continue a life in politics. And for the past 70 years, there have been thousands of students just like them who drew on their time as students sitting in the House of Commons.

This column was first published on the Principal's Blog (queensu.ca/connect/principal/).



QUEEN'S MODEL PARLIAMENT

For the past 70 years, Queen's students have traveled to Ottawa in January to take part in Queen's Model Parliament. In this image from the 2015 event, students fill the House of Commons as they take part in the country's largest and oldest model Parliament conference. Over three days, participants debate, draft legislation and hear from numerous guest speakers, including sitting prime ministers, party leaders and members of the media.

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

'A gentleman of pure heart'

If you knew Muhammad Fayyaz, you knew his smile.

A professor in the Department of Sociology for more than 25 years, and a pillar of the Islamic community in Kingston for nearly a half century, Dr. Fayyaz died Jan. 18 at St. Mary's on the Lake Hospital. He was 86.

Born in a village in Punjab, Pakistan, Dr. Fayyaz was naturally drawn to learning and was the top student in his school and university days. He became an example for other family members to pursue education. After earning a diploma in journalism and working as a journalist he would further his studies and received a gold medal for his Masters in Sociology from Punjab University in Lahore, Pakistan. Then, on a full



Muhammad Fayyaz

scholarship, he would leave for the United States where he would

earn his PhD at Cornell University in Ithaca, N.Y.

Following his doctoral studies Dr. Fayyaz returned to Pakistan and taught for five years at Punjab University.

He would arrive at Queen's in 1970 as a visiting associate professor in the Department of Sociology. In 1973 he became an associate professor and then a professor in 1980. He retired from Queen's in 1996.

Away from the university, Dr. Fayyaz played a crucial role in the community as a founding member of the Islamic Society of Kingston.

When he first arrived at Queen's there were few Muslim families in Kingston. With no mosque the community members would gather on campus for

weekly prayers and other functions.

Eventually a mosque would be built, with Dr. Fayyaz playing an important role in helping write the constitution for the Islamic Society of Kingston.

Above all else, however, Dr. Fayyaz was a family man. In 1965 he married his wife Shamshad Bano, and they had a wonderful marriage of 51 years.

For his daughter, Aaliya Fayyaz (ArtSci '95), Dr. Fayyaz was a wonderful father, always making her feel that she was the most important thing in his life. He was her unconditional champion in all matters.

Not surprisingly, he was a wonderful grandfather who enjoyed and looked forward to his

time with his three grandchildren.

A gentleman of pure heart, he inspired and touched many lives during his time.

He was an avid fisherman, gardener and reader. He was born with a green thumb and the family always had a surplus of vegetables, with much of it being given away to friends and neighbours.

A man of many talents Dr. Fayyaz wrote poetry in Punjabi and Urdu. He wrote songs that were sung on national radio and television by the top singers of the day in Pakistan.

This Lives Lived column was written with the assistance of Aaliya Fayyaz.

Queen's in the news

Highlights of Queen's experts in the media from Feb. 1-16

NEWSPAPERS

Sharry Aiken

(Law) commented on the government's response to the recent influx of refugee claimants entering Canada through a Manitoba border crossing, as well as the lack of a firm decision on whether or not the Safe Third Country Agreement will continue to be upheld, in the *Globe and Mail*, *National Post* and *Toronto Star*.

Jonathan Rose (Political Studies) discussed the federal government's announcement that it would not continue to pursue electoral reform, in the *Ottawa Citizen* and the *Huffington Post*; told the *Kingston Whig-Standard* there were signs all along that the Liberals' effort to change how Canadians vote was not going to amount to much.

David Gordon (Geography and Planning) discussed the rollout of data from the 2016 census as well as the utility of the data collected, in *The Canadian Press*.

Richard Reznick (Dean, Faculty of Health Sciences) looked at the potential impact of the resignation of the Ontario Medical Association executive team on patient care and the future direction of the association, in the *Toronto Star*.

Dick Zoutman (School of Medicine) discussed draft recommendations issued by a panel at McMaster University to address proper pre-



scribing of opioids to combat abuse potential in the *Belleville Intelligencer* and *Kingston Whig-Standard*.

Louis Delvoie (Centre for International and Defence Studies) discussed the strengths of Canada's institutions and the outstanding qualities of its people in the fourth of a series of columns published in the *Kingston Whig-Standard*.

Jason Gallivan (Centre for Neuroscience Studies) had a news story on his research into how our brains create possible actions before we make a decision published in the *Daily Mail*.

Allyson Harrison (Psychology) co-authored an op-ed published by the *Toronto Star* on the case of York Region school board trustee Nancy Elgie, explaining how a concussion Ms. Elgie experienced may have played a role in the controversy around her actions last November.

Tina Dacin (Business) discussed the outcry against Canadian e-commerce firm Shopify for continuing to host a webstore run by Breitbart News, in the *Globe and Mail*.

Kenneth Wong (School of Business) was interviewed by the *Globe and Mail* about Sleep Country Canada winning its injunction over Sears; told the *Montreal Gazette* that Restaurant Brands, the owner of Tim Hortons and Burger King, is targeting specific customers with its advertising. His comments also appeared in



other Postmedia newspapers.

Christopher Cotton (Economics) commented in the *Vancouver Province* that imposing a limit and getting rid of the corporate donations would level the playing field in terms of political fundraising.

ONLINE

Christian Leuprecht (Political Studies) discussed the Safe Third Country Agreement through a security perspective, on *CBCNews.ca*; says we need to make sure we work with U.S. border patrol and state troopers to try to intercept suspicious vehicles long before they make it to the border on *CBCNews.ca*.

John Smol (Biology, School of Environmental Studies) discussed with *Vice Canada* what lessons can be learned by U.S. researchers from Canada's censored scientists as they try to resist President Donald Trump.

Sharry Aiken (Law) called for the suspension of the safe-third country agreement in response to the executive order signed by President Trump in *Global Research*.

William F. Flanagan (Dean, Faculty of Law) commented in *Canadian Lawyer* on the continuing debate in the legal community over whether or not Trinity Western University's law program should be accredited in Canada.



Marc Epprecht (Global Development Studies) discusses the reasons behind a unique trend in education levels in the small sub-Saharan nation of Lesotho in *OZY*.

Jonathan Rose (Political Studies) examined whether the "alternative facts" style of the current U.S. administration has begun to seep north, as well as the dangers of such a development for democracy, on *CBC-News.ca*.

Kathleen Lahey (Law) commented on *globalnews.ca* about gender and the upcoming budget; was interviewed by *iPolitics* and said this is a historic time in regards to gender and the budget but there is work to be done to represent all sides.

TELEVISION

Chris Kilford (CIDP) discussed the first meeting between Canadian Minister of Defence Harjit Sajjan and US Secretary of Defence James Mattis, on *CTV News Network*.

Anita Jack-Davies (Geography and Planning) explained the significance of Black History Month in providing an opportunity to discuss the experiences and contributions to Canadian culture of Black Canadians, on *CKWS*.

Mark Rosenberg (Geography and Planning) explained what information can be gleaned from the



2016 Census data, on *CTV News Network*, in the *Globe and Mail*, and on *CKWS*.

Christo Aivalis (History) told *CKWS-TV* that many NDP and Green Party voters backed the prime minister because of his election promise for electoral reform.

Christian Leuprecht (Political Studies) discussed the situation where groups of people are walking to Canada and claiming refugee status on *CBC TV*; discussed the meeting between Canada's defence minister & the US defence secretary in Washington yesterday, as well as related topics such as calls for increased military spending by NATO members on *Global TV*.



RADIO

Christo Aivalis (History) told *NewsTalk 680* that the struggle to define the Conservative and NDP parties in their respective leadership races has been influenced by politics south of the border.

MAGAZINES

Sharry Aiken (Law) discussed the use of AI technology as a tool in preparing immigration documents in *Canadian Business Magazine*.

David Gordon (Geography and Planning) analyzed the 2016 Census, in *Maclean's Magazine*.

Queen's Family Health Team celebrates 10th anniversary

BY ANNE CRAIG,
COMMUNICATIONS OFFICER

For the past 10 years, the Queen's Family Health Team (QFHT) have taken a leadership role in providing health care in a timely and efficient manner to their patients. The service offers a collaboration of physicians, resident physicians, nurse practitioners, nurses, social workers, a dietitian, a pharmacist, and various clerks and other forms of administrative support – all working together to provide patient-centred care.

By offering such a wide range of health services, department head Glenn Brown says they are giving their patients the best care possible.

"I truly believe in this model," says Dr. Brown, who will soon be stepping down as the head of the team. "Queen's University has taken a leadership role in developing the family health team model



Helping celebrate the 10th anniversary of the Queen's Family Health Team, were, from left: Dr. Glenn Brown, Head, Department of Family Medicine; Dr. Ruth Wilson, Professor; Diane Cross, QFHT Clinic Manager; Dr. Walter Rosser, Professor Emeritus; and Dr. Karen Hall Barber, QFHT Physician Lead

and our patients are benefitting. Our patients want a relationship with the members of team and we are providing that."

The department got its start in 1965. At the time, it was located in a five-room family care unit based

at Kingston General Hospital. It was in 1971 that the department became an academic unit at Queen's. In 1975, a family medicine teaching centre was built at 220 Bagot St. The centre included a number of professionals from

various specialties. Notably absent, however, was an obstetrician.

"We have moved far beyond the days when doctors worked in silos, they now work in professional groups," says Dr. Brown, who uses flu shots as an example of how efficient family health teams can be. "When I worked alone, I didn't track which of my patients didn't get flu shots. Now I have a team behind me that ensures my patients are reminded of their flu shots and my success rate has increased. We use a similar method for pap tests and breast cancer screening for example."

To ensure patients are getting full support, the QFHT is always expanding and improving its services.

"We have a number of different baby programs, weight management and health eating programs, pain management clinics, just to name a few," says Karen Hall Bar-

ber, QFHT lead physician. "These programs allow us to focus on prevention and identify issues before they get bigger."

With all of the positive, there is some negative.

"The government has lost some faith that the model is working but politicians are also aware data is limited in regards to patient satisfaction. All the studies available are showing family health teams are working," says Dr. Hall Barber. "Part of the issue is the inequality of services available from family health teams. They aren't all the same and that can lead to dissatisfaction."

Dr. Brown agrees and says the Queen's model can lead others to success.

"We need to make sure all citizens have access to the services because part of the issue is the equality of services. We are trying to help by expanding our own services to show this model can work. And it does work."

through the lens



SUPPLIED PHOTOS

The School of Graduate Studies hosted the Create an Impact Reception for the more than 200 graduate students and post-doctoral fellows who currently hold Tri-council research grants on Feb. 8 at the Biosciences Auditorium. Also attending the event were faculty members and Principal Daniel Woolf, above photo at left, and Brenda Brouwer, Dean, School of Graduate Studies, above photo at right.



gradstudies

EVENTS

Join the School of Graduate Studies for a Big Data PechaKucha Research showcase, which is part of the Big Data 175 series, at the University Club at 6:30 pm on March 1. Graduate students from a variety of disciplines whose research looks at Big Data will present their ideas in the fun and engaging PechaKucha 20x20 style to the Queen's and Kingston community. Refreshments will be served. RSVP to sgseven@queensu.ca. For more information about the presentations, see queensu.ca/sgs/big-data-showcase.

THESIS DEFENSES

Wednesday, Feb. 22

Alyssa Cull, Pathology & Molecular Medicine, 'The Role of Tet2 in Normal and Malignant Macrophage Activation'. Supervisor: M. Rauh, 121 Bracken Library, 9 am.

Monday, Feb. 27

Colleen Elizabeth Webber, Public Health Sciences, 'Availability and Quality of Colonoscopy Resources and the Colorectal Cancer Diagnostic Interval'. Supervisors: P. Groome, J. Flemming, 311 Caruthers Hall, 1:30 p.m.

Tuesday, Feb. 28

Thanh Huynh Duy Nguyen, Computing, 'Applying Statistical Process Control to Automate the

Analysis of Performance Load Tests'. Supervisor: A.E. Hassan, 524 Goodwin Hall, 1:30 pm.

Wednesday, March 8

Alyssa Abraham, Art History, 'The Reception of Correggio's Two Altarpieces for Modena in their Confraternity Settings'. Supervisor: C.S. Hoeniger, 402B Gordon Hall, 2 pm.

Thursday, March 9

Michael Vossen, Philosophy, 'Acting in Light of One's Acting: Practical Reasoning and the Excellences'. Supervisor: D.J. Bakhurst, 307 Watson Hall, 9 am.



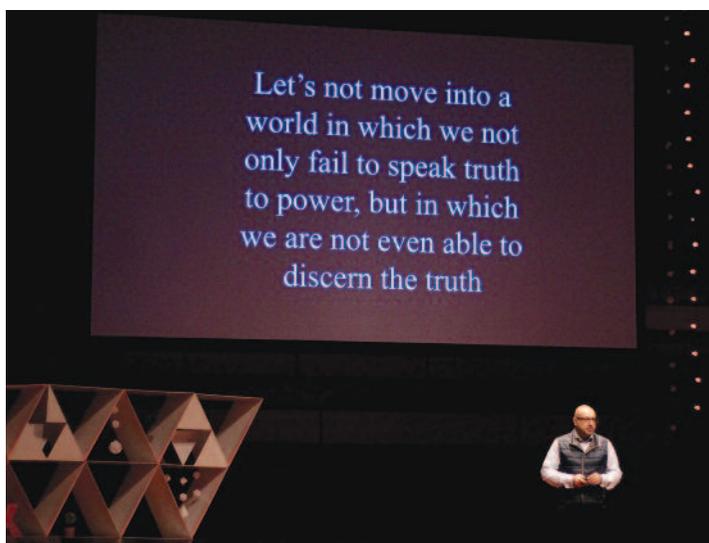
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through the lens



SUPPLIED PHOTO

MSNBC anchor and correspondent Ali Velshi, a Queen's alumna, takes to the stage of the Isabel Bader Performing Arts Centre as one of the featured speakers at TEDxQueensU 2017 on Sunday, Jan. 29. Held for the seventh year, the student-organized event aims to showcase Queen's creativity, ingenuity, and innovation while at the same time hosting amazing speakers from around the world.



PHOTO BY GREG BLACK

The first cohort of the four-semester Bachelor of Education program fill the lecture hall at Duncan McArthur Hall during the opening day in 2015. The program graduated its first class this past August.

Encouraging first results

BY ANDREW CARROLL,
GAZETTE EDITOR

Starting in 2015, Bachelor of Education programs across Ontario were required to expand from two semesters to four. With the change, the Queen's Faculty of Education decided on a format that differed from other universities. Instead of following the traditional path of two terms per academic year with a summer break, the faculty created a program of four consecutive terms for those pursuing a B.Ed. after completing an undergraduate degree.

The first cohort of teacher candidates in this revised Consecutive program graduated in August 2016 and the feedback from the graduates, as well as school recruiters, has been very encouraging, says Don Klinger, Acting Associate Dean Undergraduate Studies.

"We are getting very positive comments from schools who hire our teachers. They are very impressed by the students from our program – their maturity and their depth of thought, their understanding of educational issues and their desire to become teachers," he says.

The main reason, Dr. Klinger explains, is that committing to 16 more months of studies after completing a four-year undergraduate program takes a significant amount of dedication.

One of the strengths of the four-term program is that teacher candidates have a greater amount of learning opportunities. What the faculty has found, Dr. Klinger says, is that the students are now

able to diversify their teaching toolbox. As one example, the faculty now provides new courses such as Indigenous Education.

"Students just loved that course. The structure was extremely popular and gave students a new perspective and they never would have got that in the previous program," Dr. Klinger says. "We are expanding their horizons. We are trying hard not to use the program just to go into more depth of the same things but to give them new experiences and new things to look at. They do get depth but they also get new ideas and perspectives."

For Francesca Pang (BFA'15, Ed'16), the expanded learning opportunities were very valuable.

"I think the strength of the new program is the earlier graduation time and inclusion of more courses and practicum time. As an Intermediate/Secondary teacher candidate, I found the additional classes, such as Grade 7/8, Transitions and the Indigenous Education courses, to be very relevant and helpful," says Ms. Pang, the Education Coordinator for Varley Art Gallery of Markham.

As with any program, there always is room for improvement. Currently, a task force involving students, faculty and staff members is looking at further revisions.

One issue is that students are finding they have little downtime. Also, with no summer breaks students have less time to work during their studies.

"Currently, we're looking at ways to maximize breaks here and there for students throughout the

program so they are not feeling overwhelmed," Dr. Klinger says. "We're also finding ways to increase our support services to help students both financially and their well-being throughout the program."

On the infrastructure side, Duncan McArthur Hall is feeling the strain. An older building, it was not designed as a year-round facility and this has put a greater pressure on systems such as air conditioning. However, the nicer weather has also allowed for a new learning environment with an opportunity to create an outdoor classroom.

"Overall, the first time through the four-term program has been a positive and valuable learning experience," Dr. Klinger says.

Applications to the program have increased, he adds, and Queen's has no problem meeting its enrollment targets.

"I think that speaks to the viability of the model that we've chosen," he says. "Most of the students who come here are not local. We are not a commuter campus. You have to make a choice to come here. So I think this model is a sounder model for us because it reduces financial constraints in terms of housing and gets the graduates to the job market sooner, more than eight months before their peers at other universities. And students entering Concurrent Education right out of high school will similarly benefit from this new program."

To learn more about the Bachelor of Education program visit the Faculty of Education website (educ.queensu.ca/).



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Learning to cook and connect

BY ANDREW CARROLL,
GAZETTE EDITOR

A new initiative through the Chaplain's Office is teaching students how to get the most out of their food budget while also helping them connect with elders.

When Chaplain Kate Johnson (MDiv'06) started up a financial literacy program for students in 2014 it quickly became clear that many participants were struggling with their food budget.

"When we started the financial literacy program students were consistently telling me that one of the things that made it difficult for them to manage their money is that they spend a lot on food because they don't know how to cook and they are eating out a lot," Ms. Johnson says. "They also perceive that they don't have time to cook and they are shopping at the most expensive grocery stores, buying ready-made foods."

The obvious solution was to offer cooking classes but the question was who would be teaching. Ms. Johnson turned to the Queen's Women's Association (QWA), whose members were ready and willing.

The result – Cooking With Grandmas.

Through the program, small groups of students visit the QWA house at 144 Albert St. and a team of 'grandmas' teaches them how to prepare a few nutritious recipes



Chaplain Kate Johnson, third from left, started up the Cooking With Grandmas program to help teach students how to cook quick, easy, and affordable meals and enlisted the support of Queen's Women's Association members, including, from left, Carol Sirman, Marion Bot, Leslie Comfort, Linda Kenney and Karen Nickel.

made with basic and readily-available ingredients. Once the cooking is complete, everyone sits down for a meal and the students go home with some leftovers.

At the same time the students gain some socialization time with

community elders, which has had a more positive effect than Ms. Johnson expected.

"Students walk in and you can see them relax, they feel at home and know they will be eating a home-cooked meal," she says. "It's

more than physically nourishing, it's spiritually nourishing as well. It's financially sensible, nutritionally sensible, and then there is some good company and conversation."

Many of the recipes are suited

"Students walk in and you can see them relax, they feel at home and know they will be eating a home-cooked meal. It's more than physically nourishing, it's spiritually nourishing as well. It's financially sensible, nutritionally sensible, and then there is some good company and conversation."

— Chaplain Kate Johnson

for batch cooking which allows the students to freeze and store the meals for later. If they are living with other students they can work together and share meals as well for a greater variety.

Vegetable crumble, yam casserole, meatloaf, bread pudding, rice primavera with zucchini and soups of all kinds, the recipes are easy, nutritious and reasonable.

"The research suggests that millennials prioritize nutrition," Ms. Johnson says. "Cooking with Grandmas gives students the skills to emphasize nutrition in a way that works with student timetables and budgets."

The next event is March 1 at 5:30 pm and the menu will focus on chili – veggie and con Carne

To learn more about the program or to participate in Cooking With Grandmas, email the Chaplain's Office (chaplain@queensu.ca) or call 613-533-2186.

UNIVERSITY COMMUNICATIONS

A record-setting weekend of creativity

BY ANDREW CARROLL,
GAZETTE EDITOR

After successfully hosting the first-ever QHacks last year, the student-organizers of the event were ready to take it to the next step.

That was after getting some much-needed sleep of course.

The numbers tell the story. For the second annual hackathon at Queen's, it attracted more than twice the number of participants at 485 and twice the amount of sponsorships. The aim was to make the event bigger and better, says Anuj Arora (Artsci'17), a founding member and the Head of Strategic Partnerships for QHacks.

More than 1,600 applications came in, showing the increasing interest in the event.

"We have applicants from everywhere," Mr. Arora says. "We have applicants from Egypt, from California, from London, from



Principal Daniel Woolf tries out a virtual reality project during the second annual QHacks event, hosted at Queen's Feb. 3-5. The event attracted 485 participants.

France. There are people from more than 100 schools that have applied."

A Major League Hacking event, QHacks was held the weekend of

Feb. 3-5. In between there was lots of hard work creating new technologies, little sleep, but also many opportunities for participants to advance their knowledge.

The focus of the event is on building the individual project, as well as skills, connections and networks for the participants.

"It's about building and using creativity – building something tangible with this creativity that you have," Mr. Arora says. "The original hackathon was a bunch of coders sitting around a table saying, 'Let's get some pizza, let's see what we can build and let's help each other out.' Even though it now has become more commercialized and sponsors have come on board, we want to maintain that original hackathon concept, and keep the reward within – I came here to build, to show that I can do it, to develop and learn."

The goal of a hackathon is for teams to work together to build or create a new technology. Projects started before the event are not permitted. It has to be created completely at the hackathon.

Early in the program, a wide range of workshops were avail-

able for the teams to learn new skills that they can apply to their projects. Then it is down to work. There's 36 hours and very few of those are dedicated to sleep.

The projects were displayed Sunday in Ellis Hall with the final ceremonies following in Grant Hall. A panel of judges picked the top three projects.

Other awards were also up for grabs throughout the weekend in mini-competitions such as working on a coding project without testing the code before the final product is submitted. The cleanest code wins. There are also awards for Best Sustainability Hack, Best Mental Health Awareness Hack, Best Healthcare Hack as well as the best use of specific technologies.

Half of the participants came from Queen's and there is always a mix of hackathon veterans and rookies.

For more information about QHacks, visit qhacks.io/.

SUPPLIED PHOTO

Taking a new approach to technology transfer

BY COMMUNICATIONS STAFF

A recent external review of the university's support for technology transfer and commercialization was undertaken to guide the university in developing a response to a recommendation by the board of directors of PARTEQ Innovations (PARTEQ) that the university consider integration of PARTEQ services within the university.

PARTEQ currently acts as the technology transfer agent for Queen's. Its mission is to provide researchers with intellectual property and commercialization expertise they need to advance their discoveries to benefit the public.

The external reviewers observed that PARTEQ's self-funded business model faces challenges due to changes in government grant funding in recent years. Furthermore, universities increasingly view technology transfer as a support service for researchers, rather than a for-profit endeavour.

Based on those observations, technology transfer capabilities are now being integrated as a shared service within the Vice-Principal (Research) portfolio in order to service the research needs of faculty members and enhance experiential learning opportunities for students. Furthermore, the external review recommended seamlessly integrating technology transfer capabilities with industry engagement and entrepreneurship services.

Queen's is implementing those recommendations by integrating the PARTEQ, Industry Partnerships, and Innovation Park teams as a shared service within the Vice-Principal (Research) portfolio. In conjunction with this announcement, Steven Liss, Vice-Principal (Research), has asked Jim Banting, CEO and President of PARTEQ, to lead the transition

process as the new assistant vice-principal (partnerships and innovation).

"Supporting researchers who seek to engage in knowledge translation or commercialization activities remains a high priority for the university," says Steven Liss, Vice-Principal (Research). "This new structure will allow us to build on our strengths and enhance our collaborations with industry, investors, community organizations, and other universities, both nationally and globally."

Dr. Banting has more than 15 years of business development experience, with a particular focus in the life science sector. He joined PARTEQ as President and CEO in 2014 after spending several years working the biotech sector in the United States.

After graduating from Queen's in 1993 with an honours degree in Life Sciences, Dr. Banting went on to earn his doctorate in pharmacology at Queen's. His career began as a co-founder of the Queen's spin-off company Vaxis Therapeutics.

"Dr. Banting and his team will provide strategic direction to enhance and grow partnerships and collaborations with industry, and to support knowledge translation and the various avenues for the commercialization of research," Dr. Liss says. "Within this new structure, we will seek to enhance our support to faculty – and increasingly undergraduate and graduate students – to secure Queen's position as a dynamic and innovative institution."

More information about the External Review of Technology Transfer and Commercialization is available on the Office of Vice-Principal (Research) website at queensu.ca/vpr/reports/external-review-technology-transfer-and-commercialization.



UNIVERSITY COMMUNICATIONS

Research by Jason Gallivan, above, and Randy Flanagan (Neuroscience/Centre for Neuroscience Studies) shows that when presented with two action options, the brain's motor neurons prepare for both possibilities before deciding which action to take.

Research reveals order in which brain makes movement decisions

BY ANNE CRAIG,
COMMUNICATIONS OFFICER

New research by Jason Gallivan and Randy Flanagan (Neuroscience/Centre for Neuroscience Studies) reveals that, when humans are presented with two action options, the brain's motor neurons prepare for both possibilities before deciding which action to take.

This finding supports the idea that the brain represents the world as a series of possible actions and objects to interact with.

"Whether you're navigating a route to work or browsing produce at the grocery store, our brains are constantly making decisions about movement," Dr. Gallivan says. "Even outside your conscious awareness, your motor system appears to always be operating in the background, coming up with potential actions. Should I reach for the red or green apple? When should I cross the street?"

Neuroscientists have long debated which comes first – the decision about which target to act on or the movement plan. Motor decisions in the brain happen so quickly that determining the order in which these processes take place is challenging. For this re-

search, Drs. Gallivan and Flanagan devised a task that separated visual targets from the movement needed to reach them.

Sixteen volunteers were asked to steer a cursor towards one of two targets, but the catch was they had to start the movement before finding out which target they'd have to pick.

"When you're forced to launch an action without knowing which target is going to be selected, people simply launch actions that are right down the middle, between the targets," Dr. Gallivan says. "This minimizes the corrections needed to reach each target. However, we don't know whether this reflects a deliberate strategy to aim in between the target locations or a byproduct of two possible movements having been prepared in parallel."

In a twist, there was a hidden feature in the task. At first, the position of the cursor matched the position of the hand exactly, but with each repetition of the task, the cursor slipped a little bit more out of sync with the hand. Because the change was so gradual and because the volunteers couldn't see their hand, people were unaware that they gradually compensated for the hand-cursor mismatch by altering their hand

"Whether you're navigating a route to work or browsing produce at the grocery store, our brains are constantly making decisions about movement."

— Jason Gallivan

movement.

When the researchers analyzed the data, they found the volunteers' hand movements were the average of the movement paths needed to reach the two potential targets, and not an average of the visual target directions. This suggests that people were unconsciously preparing for the two potential movements prior to having selected the final target.

"Our work portends itself to the design of more intelligent robotics," Dr. Gallivan says about the results. "Whereas we have been able to design computer programs that can beat the grandmasters at chess, we have yet to design a robot that can interact with the world in a way that matches the manual dexterity of a five-year-old child."

The research was recently published in *Cell Reports*.



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through the lens



Queen's staff, students, and faculty attended the latest in the International at Home music series at the Isabel Bader Centre for the Performing Arts on Feb. 7. Also attending the event was Queen's Provost Benoit-Antoine Bacon, top left, who took the time to speak with international students. Ahead of the performance, attendees were treated to an informal talk with Evergreen Club Contemporary Gamelan, left.



UNIVERSITY COMMUNICATIONS

Awards provide opportunities for Syrian refugees

BY ANDREW CARROLL,
GAZETTE EDITOR

At the start of the school year, among the many new arrivals at Queen's were four students who had taken a very different path to the university.

The students are from Syria, and they arrived at the university to continue their studies thanks in part to support from Queen's Syrian Refugee Opportunity Awards.

It is a new beginning for the students – a new opportunity, a new university, and a new language and new culture.

Settling in took time, but with help from fellow students, faculty and staff at Queen's, each of the students has found their footing. A solid foundation has been created and now, already in their second term, they are moving forward, excited about what the future holds.

"Here at Queen's you can find a lot of helpful people. They like to help you with everything," says Yaman Alankar, a first-year engineering student. "Also, the profes-

sors are very helpful. The system of courses here, I like it so much. When you do a project for example, with your teammates, you cooperate with them you share ideas with them and that's actually a very, very cool thing."

Tariq Abughofa, a master's student at the School of Computing, adds that he has felt welcomed to the university and to Kingston. The support he has received from his academic supervisor, in particular, has helped make the transition much easier.

"It was really good for me, the past few months," he says. "Also, at the academic level I like how the university is like a community for the students. It's really a lovely community and Kingston is a really good community."

Having grown up in the Syrian capital Damascus, he says that he also enjoys the natural setting found on campus and in Kingston, a very different environment from the metropolis of nearly 2 million before the outbreak of war.

Both know they are fortunate

to have made it this far. And while difficulties remain, they also know that they are on the path to achieving their goals.

"The opportunity when I arrived here at Queen's was really good for me," Mr. Abughofa says. "I have opportunities that I wouldn't have otherwise."

The Syrian Refugee Opportunity Awards were created at Queen's in 2015 in response to the ongoing refugee crisis in Syria. The awards include tuition and living expenses for students starting any first-year undergraduate degree program or any master's level program at Queen's. The awards are renewable, with full tuition, and a portion of living expenses covered for the length of the degree.

The students were recruited through Queen's ongoing partnership with the World University Service of Canada (WUSC) student refugee program, which is supported financially by the university and student activity fees from undergraduate and graduate students.

"Establishing these student

awards allows the Queen's community to support youth displaced by the conflict in Syria," says Principal and Vice-Chancellor Daniel Woolf. "It is encouraging to hear from these students about their positive experiences since arriving at the university thanks to the support of the Queen's WUSC student committee and the many members of the Queen's community."

It's an opportunity all of the recipients are grateful for.

"We just want to thank everyone who helped us to get this opportunity," Mr. Alankar says. "It has really changed our lives for the better. It gives us a future. We feel like we are home, people here are so kind."

Members of the Queen's community may continue to contribute towards supporting students who have been displaced from Syria at give.to/queens.ca/give/index.php/search/action/search/?search_string=Syria.

gina karkoulis B.A., M.Sc.
SALES REPRESENTATIVE

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eventscalendar

Thursday, Feb. 23, Noon-1 pm Mindfulness - Terry Haynes

This will be an opportunity to find out what mindfulness is all about and its importance to stress reduction in our lives. Better health and wellbeing result when we reduce our stress levels through present-awareness. This will be an experiential session with guided meditations, a place to come and just BE for an hour. Terry is an MBSR (Mindfulness Based Stress Reduction Teacher) here in Kingston who has seen firsthand the extraordinary healing effects a daily meditation practice can have on oneself. Ban Righ Centre

Monday, Feb. 27, 2:30-4 pm Equity & Human Rights Tri-Awards

The Equity and Human Rights Offices will present the 2016 Tri-awards in the areas of Employment Equity, Human Rights and Accessibility. In keeping with the spirit of the 175th anniversary, this year's recipients focus on alumni (grad/under-grad students and staff or faculty who has previously worked at the institution). The recipients this year are; Katie Charboneau (Steve Cutway Accessibility Award), Sheila Devine (Employment Equity Award) and Diane Kelly (Human Rights Initiatives Award). The event will host a panel discussion with the recipients, presentation of the awards by Provost and Vice-Principal (Academic), Benoit-Antoine Bacon and light refreshments to follow. All are welcome and we ask that you RSVP to equity@queensu.ca. Agnes Etherington Art Centre

Tuesday, Feb. 28, Noon-1 pm Centre of International Defence Policy Speaker Series - Adam Chapnick

Please join us for a Speaker Series featuring Dr. Adam Chapnick. He will be presenting: "Harper Era in Canadian Foreign Policy." For more information please visit queensu.ca/cidp/adam-chapnick-harper-era-canadian-foreign-policy Visit our Facebook page facebook.com/CIDPQueens/ to RSVP. Robert Sutherland Hall Rm: 448

Tuesday, Feb. 28, 9:30 am -12:30 pm Freedom to Read Week Pop-Up Exhibit

Join the library in celebrating Freedom to Read Week! We will have banned books, both contemporary and rare books, from across the library. We will have buttons and treats to give away. Stop by and tell us why you love reading banned books! Joseph S. Stauffer Library

Tuesday, Feb. 28, 6-9 pm Engineering Society Startup Workshop

Learn what you don't learn in lectures. This comprehensive three hour workshop will teach you the ins and out of project management, team communication, user interface and experience design, version control and issue tracking systems and more. It's completely free, pizza will be provided and there will be some awesome giveaways from our sponsors. Beamish-Munro Hall, Rm: 314

Wednesday, March 1, 4-7 pm Majors Night (Arts & Science)

Choosing a program is one of the largest decisions students make in university. It's important to make an

informed choice – but it doesn't have to stress you out. Members from each Departmental Student Council (DSC) will be available at individual booths to answer questions about their experiences with the programs offered by each department. You'll be able to compare the different programs you're considering and explore whether they fit your interests and future goals. Advisors from Academic Advising, Career Services, and PASS will also be present to answer specific questions about choosing a program and where to find career resources at Queen's. Grand Hall

Thursday, March 2, 2:30-3:30 pm Info Session: Sexual Violence Policy and the Role of the SVPRC

This is an opportunity for students/staff/faculty to ask the Sexual Violence Prevention & Response Coordinator questions about her

role on campus and about the Sexual Violence Policy. Please contact bjl7@queensu.ca if you have any accessibility requirements. Levana Gender Advocacy Ctr. Gray House

Friday, March 3, 10:30 am-Noon "CLASSICS PRESENTS..." Speaker Series

Dr. Seth Bernard, Assistant Professor, Department of Classics, University of Toronto -Porta Esquilina, Anio Vetus, San Vito: Interpreting two millennia of Roman urbanism on the Esquiline Hill. This paper presents the results of an archaeological study of the Roman and Medieval structures beneath the fifteenth-century church of San Vito, not far from Santa Maria Maggiore and modern Termini Station, on Rome's Esquiline Hill. The church was built into the Esquiline gate, which permitted traffic to enter and exit the archaic city walls along a vital route connecting Rome with

eastern Latium. The site was also near one of the city's earliest major neighborhoods, whose growth was supported by the Anio Vetus, Rome's second earliest aqueduct. The location thus represented a crucial node in the pre-modern topography. Watson Hall, Rm: 517

Friday, March 3, 1-3 pm Anxiety in the Academy: a discussion

The Philosophy Department Equity and Women's Concerns Committee presents Anxiety in the Academy. What is anxiety? How can we recognize it? What are some coping strategies? When should we get help? Where can we find it? With special guest speaker Jennifer Dods, Director of Student Wellness, and a panel of faculty and students. Mackintosh-Corry Hall, Rm: D216

ACROSS

- 1) Certain informal parent
- 6) Wooded valleys
- 11) Female pronoun
- 14) ___ of expertise
- 15) Bye-bye, in Burgundy
- 16) Pin number?
- 17) Object on Israel's flag
- 19) Interject
- 20) Burning
- 21) Suitable material?
- 23) Annoying inconvenience
- 26) Professed
- 28) FBI employee, briefly
- 29) Eve's mate
- 31) Jacob's twin
- 32) Unedited version
- 34) Petticoat junction?
- 36) Blueprint detail, in short
- 39) Most spooky
- 41) Brandy cocktail
- 43) Words with "precedent"
- 44) Senate helper
- 46) Having an irregular edge
- 47) Spot in the distance
- 49) Point to the right
- 51) Harden
- 52) Barnum and Bailey's business
- 55) Home for an old king
- 57) Guiding beliefs of a group
- 58) In a lively manner
- 60) Doctor in a 1964 movie
- 61) Campus VIP
- 66) Nightmare street of film
- 67) Down provider
- 68) Barbecue leftover
- 69) "Sayonara!"
- 70) Run-down in appearance, as a motel
- 71) Furry weasel cousin

DOWN

- 1) ___ de deux
- 2) Dinner scrap
- 3) Ammo in a harmless shooter
- 4) Legal aides, informally
- 5) Recently
- 6) Baby's word for 1-Across
- 7) Japanese protein source
- 8) Cats have nine of them
- 9) Welcoming garland
- 10) Makes soapy bubbles
- 11) Business seed money
- 12) Steeplechase obstacle
- 13) Called off
- 18) Left the scene
- 22) Desk drawer item
- 23) Hellish place
- 24) See things the same way
- 25) First base?
- 27) Prefix for "circle"
- 30) ___ spumante (Italian wine)
- 33) Total disaster
- 35) Sailing the Atlantic
- 37) Renoir's prop
- 38) Minotaur's home
- 40) Verb for Simon
- 42) Unfastens
- 45) Longed for
- 48) Boot-wearing felines?
- 50) Sing "shooby-doo" and such
- 52) Paparazzi target, briefly
- 53) Venice setting
- 54) Dodge
- 56) Historical Alabama march site
- 59) Results may do this, in commercials
- 62) Make a sheepshank
- 63) Flow back
- 64) Business card no.
- 65) Prior, to poets

TWINKLE OF ONE'S EYE

By Carl Cranby

1	2	3	4	5	6	7	8	9	10	11	12	13
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57					58		59					
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66				67					68			
69					70					71		

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5			8		6		7	
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1	8	2						
		3		6				

A number may not appear twice in the same row or in the same column or in any of the nine 3x3 subregions.

Women's fencing team captures bronze

WOMEN'S FENCING

The Queen's Gaels claimed the bronze at the OUA Women's Fencing Championship hosted Feb. 11-12 at the Athletics and Recreation Centre.

The overall gold went to the Western Mustangs and the RMC Paladins claimed silver.

Queen's also picked up a pair of individual medals on Saturday, with Lily Jiang winning gold in the sabre while Jessie Pollett finished with silver in the foil.

On Sunday the Gaels sabre quartet of Kori Speck-Altenpohl, Lily Jiang, Karen Zeng and Tina Zhang won bronze.

WRESTLING

The Queen's Gaels didn't find their way onto the podium at the OUA Wrestling Championship hosted by McMaster but came close with a pair of fourth-place finishes by Michael Tremblay (82kg) and Tina Marr (63kg).

In the overall races both the men's and women's teams finished seventh. The powerhouse



The Queen's Gaels women's fencing team claimed the overall bronze at the OUA championships.

teams from Brock won both overall titles.

SWIMMING

The Queen's Gaels men's swimming team accumulated 130 points to finish ninth at the OUA swimming championships in Toronto

while the Gaels women's team tallied 136 points to finish 10th overall.

The men's team was led by Steven Lee who had a pair of fourth-place finishes for the Gaels in the 50-metre and 100-metre

breaststroke events and a fifth-place finish coming in the 200-metre breaststroke.

On the women's side Jenny led the way with a first-place finish in the B final of the 200-metre backstroke, a ninth overall result.

fittips

Active and healthy

Researchers at Cambridge University concluded that exercise that burns around 100 calories a day, such as a brisk, 20-minute daily walk, can reduce the risk of premature illness by 16-30 per cent!

Remember:

- Small amounts of physical activity each day can have substantial health benefits for people who are physically inactive
 - 20 minutes would make a difference, but you should be looking to do more – 150mins/week
 - Physical activity has many health benefits and should be an important part of our daily life
 - Start by standing up every 30 minutes from your desk!
 - Go for a 20-minute walk on your lunch hour
 - Take the stairs
- Be creative, be active, be healthy

SUPPLIED PHOTO

Wisdom teeth extractions

Sedation dentistry

Invisalign®  invisalign®

General dentistry

Orthodontics ~ Teeth Whitening ~ Dentures
 Root Canal Therapy ~ Non-surgical Gum Therapy
 Snoring & Sleep Apnea Treatment
 Jaw Joint Treatment (TMJ) ~ Hygiene Services



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HONORARY DEGREES

The Senate Committee on Honorary Degrees invites nominations for the award of an Honorary Degree at the 2018 convocation ceremonies. Nominations should be submitted to the University Secretariat by March 1, using the form available on the Secretariat's website (queensu.ca/secretariat/). If you are a faculty member hoping to submit a nomination, it should be coordinated with other nominations from your faculty by sending it to your department head, who will send it to the dean of your faculty. A completed nomination form is essential for the information of the committee, and the committee places particular emphasis on the section of the form that focuses on reasons for awarding the degree. Questions or concerns, can be brought to the attention of the Secretariat at senate@queensu.ca or 613-533-6095.

NOMINATIONS

The Provost's Advisory Committee for the Promotion of the Arts invites nominations for the Brockington Visitorship, the Chancellor Dunning Trust Lectureship, the George Taylor Richardson Memorial Fund, the Robert Sutherland Visitorship and the Rosen Lecture Series. In order to encourage the broadest possible range of nominations, any person or group within the Queen's community is eligible to make a nomination. The deadline for submission is March 31. Send one electronic copy of submission to provost@queensu.ca

Brockington Visitorship

To invite a person of international distinction to come to Queen's University to deliver a public lecture and to meet formally and informally with faculty and students.

Chancellor Dunning Trust Lectureship

The Chancellor Dunning Lecturer will be expected to deliver a public lecture that promotes the understanding and appreciation of the supreme importance of the dignity, freedom and responsibility of the individual person in human society.

George Taylor Richardson Memorial Fund

This fund provides grants to support public performances and exhibitions for the benefit of the Queen's and broader Kingston communities.

Robert Sutherland Visitorship

The purpose of the Robert Sutherland Visitorship is to enable dialogue and inspire action around race-related, equity, and justice issues in order to shape our citizens of tomorrow.

Rosen Lecture Series

The purpose of the series is to enable the wider community to better understand the living and vital tradition of Judaism, its relationship to other religious traditions and its role in the development of contemporary civilizations, and to explore the historical role played by Jews and Jewish thought.

books

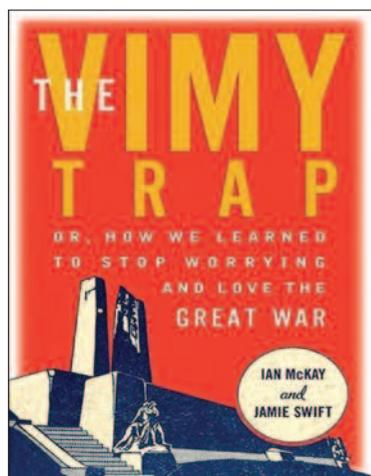
The Vimy Trap or, How We Learned To Stop Worrying and Love the Great War by **Ian McKay (History)** and **Jamie Swift (Smith School of Business)**

The story of the bloody 1917 Battle of Vimy Ridge is, according to many of today's tellings, a heroic founding moment for Canada. This noble, birth-of-a-nation narrative is regularly applied to the Great War in general.

Yet this mythical tale is rather new. "Vimyism" – today's official story of glorious, martial patriotism – contrasts sharply with the complex ways in which veterans, artists, clerics, and even politicians who had supported the war interpreted its meaning over the decades.

Was the Great War a futile imperial debacle? A proud, nation-building milestone?

Contending Great War memories have helped to shape how later wars were imagined. *The Vimy Trap* provides a powerful probe of com-



memoration cultures.

This subtle, fast-paced work of public history – combining scholarly insight with sharp-eyed journalism, and based on primary sources and school textbooks, battlefield visits and war art – explains both how and why peace and war remain contested terrain in ever-changing landscapes of Canadian memory.

humanresources

Job postings

Details regarding job postings – internal and external – can be found at queensu.ca/humanresources/jobs. Applications for posted positions are accepted by email only to working@queensu.ca before midnight on the closing date of the competition.

■ **Competition:** 2017-050
Job Title: Coordinator, Research Activities and Communications (USW Local 2010)
Department: Vice-Principal (Research)

■ **Hiring Salary:** \$57,732 (Salary Grade 8)

■ **Hours per Week:** 35

■ **Appointment Terms:** Term Appointment (until Jan. 21, 2019)

■ **Closing Date:** 24-Feb-2017

■ **Competition:** 2017-048

■ **Job Title:** Program Coordinator
Department: Agnes Etherington Art Centre

■ **Hiring Salary:** \$50,909 (Salary Grade 7)

■ **Hours per Week:** 35

■ **Appointment Terms:** Continuing Appointment

■ **Closing Date:** 26-Feb-2017

■ **Competition:** 2017-033

■ **Job Title:** Associate Director, Master of Finance

■ **Department:** Smith School of Business

■ **Hours per Week:** 35

■ **Appointment Terms:** Continuing Appointment

■ **Closing Date:** 27-Feb-2017

■ **Apply To:** working@queensu.ca

■ **Competition:** 2017-049

■ **Job Title:** Internship Coordinator (USW Local 2010)

■ **Department:** Career Services

■ **Hiring Salary:** \$44,897 (Salary Grade 6)

■ **Hours per Week:** 35

■ **Appointment Terms:** Term Appointment until April 27, 2018.

■ **Closing Date:** 02-Mar-2017

■ **Competition:** 2016-415

■ **Job Title:** Manager, Budget

■ **Department:** Planning and Budgeting

■ **Hours per Week:** 35

■ **Appointment Terms:** Term Appointment (1 year)

■ **Closing Date:** 31-Mar-2017

■ **Apply To:** working@queensu.ca

■ **Competition:** 2017-055

■ **Job Title:** Internal Controls Manager

■ **Department:** Internal Audit

■ **Hours per Week:** 35

■ **Appointment Terms:** Continuing Appointment

■ **Closing Date:** 08-Mar-2017

■ **Competition:** 2017-056

■ **Job Title:** Elevator Mechanic (CUPE

Local 229)

■ **Department:** Physical Plant Services

■ **Hourly Rate:** 39.56

■ **Hours per Week:** 37.5

■ **Appointment Terms:** Continuing Appointment

■ **Closing Date:** 02-Mar-2017

Successful Candidates

■ **Job Title:** General Accounting Senior Analyst (USW Local 2010)

■ **Department:** Financial Services

■ **Competition:** 2016-254

■ **Successful Candidate:** Phebe Palmer (Financial Services)

■ **Job Title:** Senior Business Analyst (USW Local 2010)

■ **Department:** School of Computing

■ **Competition:** 2016-324

■ **Successful Candidate:** Benjamin Hall (School of Computing)

■ **Job Title:** Finance Manager

■ **Department:** School of Rehabilitation Therapy

■ **Competition:** 2016-259

■ **Successful Candidate:** Lisa McKee (Planning and Budgeting)

■ **Job Title:** Career Counsellor - Law (USW Local 2010)

■ **Department:** Faculty of Law

■ **Competition:** 2016-270

■ **Successful Candidate:** Withdrawn

■ **Job Title:** Alumni Outreach/Advancement Coordinator (USW Local 2010)

■ **Department:** Geological Sciences and Geological Engineering

■ **Competition:** 2016-288

■ **Successful Candidate:** Lorna Dumond (Geological Sciences and Geological Engineering)

■ **Job Title:** Office Assistant (USW Local 2010)

■ **Department:** Chemistry

■ **Competition:** 2016-317

■ **Successful Candidate:** Elisa Bulak (Chemistry)

■ **Job Title:** Aboriginal Community Outreach Liaison (USW Local 2010)

■ **Department:** Four Directions Aboriginal Student Centre

■ **Competition:** 2016-309

■ **Successful Candidate:** Lisa Doxta-

tor (Four Directions Aboriginal Student Centre)

■ **Job Title:** Financial Analyst (USW Local 2010)

■ **Department:** Housing & Ancillary Services

■ **Competition:** 2016-279

■ **Successful Candidate:** Chris Hegarty (Financial Services)

■ **Job Title:** Accessibility Services Advisor (USW Local 2010)

■ **Department:** Student Wellness Services

■ **Competition:** 2016-300

■ **Successful Candidate:** Jason Harris (Student Wellness Services)

■ **Job Title:** Instructional Designer (USW Local 2010)

■ **Department:** Biomedical & Molecular Sciences - BHSc Program

■ **Competition:** 2016-314

■ **Successful Candidate:** Marisa Lavrotore (Continuing & Distance Studies)

■ **Job Title:** Staff Lawyer

■ **Department:** Faculty of Law - Queen's Prison Law Clinic

■ **Competition:** 2016-192

■ **Successful Candidate:** Paul Quick

■ **Job Title:** Departmental & Financial Assistant (USW Local 2010)

■ **Department:** Continuing and Distance Studies

■ **Competition:** 2016-241

■ **Successful Candidate:** Amanda Meekel

■ **Job Title:** Caretaker (CUPE Local 229)

■ **Department:** Physical Plant Services

■ **Competition:** 2016-204

■ **Successful Candidate:** Laura Kennedy (Physical Plant Services)

■ **Job Title:** Millwright (CUPE Local 229)

■ **Department:** Physical Plant Services

■ **Competition:** 2016-233

■ **Successful Candidate:** Trevor Homer

■ **Job Title:** Senior Research Engineer

■ **Department:** Chemical Engineering

■ **Competition:** 2016-268

■ **Successful Candidate:** Ying Zhang

PUZZLE SOLUTIONS

9	1	5	4	2	8	7	3	6
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TWINKLE OF ONE'S EYE By Carl Cranby

P	O	P	P	A	D	E	L	L	S	S	S	H	E
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B	Y	E	S	E	E	D	Y	S	A	B	L	E	



SUPPLIED PHOTOS

The Dunin-Deshpande Queen's Innovation Centre (DDQIC) recently led a delegation of students from Queen's University to attend the Development Dialogue 2017 Conference in Hubballi, India. The social innovation conference is hosted by the foundation created by Gururaj and Jaishree Deshpande. The delegation consisted of student alumni of the Queen's Innovation Centre Summer Initiative (QICSI) program, representatives from student-led conferences and members of the DDQIC executive.



Students find inspiration to create social change

BY COMMUNICATIONS STAFF

In late January, the Dunin-Deshpande Queen's Innovation Centre (DDQIC) led a delegation of students from Queen's University to attend the Development Dialogue 2017 Conference in Hubballi, India.

The delegation consisted of student alumni of the Queen's Innovation Centre Summer Initiative (QICSI) program, representatives from student-led conferences and members of the DDQIC executive.

utive. The conference, hosted by the Deshpande Foundation, not only allowed the group to have the opportunity to engage in panels regarding global entrepreneurship but the delegation also had the chance to visit the sites of a variety of NGOs and start-ups that are leading social innovation in the region.

Included amongst the delegates was Kerry Readwin, a Queen's student and co-founder of Northsprout, a QICSI initiative that is developing a soil additive

to improve water efficiency and increasing crop yields.

"The entrepreneurial drive I saw to create an impact in people's day-to-day lives reminded me of the importance of staying true to the mission of your business endeavours," says Ms. Readwin. "The network of people all over the world trying to make our world a better place is truly inspiring. I can't wait to take what I have learned and use it to drive my own startup forward."

This sentiment was also shared by another Queen's delegate, Louisa Walch, co-chair of Enactus Queen's, a community of student, academic and business leaders committed to using the power of entrepreneurial action to transform and build a more sustainable future at both Queen's and the broader community.

"The challenges we face in Canada are different than in India, but there are still many that exist. The Deshpande Foundation inspired me to think positively

about the ability to make change happen, and to commit time on eradicating identified issues," says Ms. Walch.

It is clear that the conference has motivated both young women to look beyond their immediate scope and advocate for ethical change to build sustainable initiatives and create social change within their communities.

To learn more about the Dunin-Deshpande Queen's Innovation Centre visit queensu.ca/innovationcentre.

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