

INVESTING IN SUCCESS

Queen's celebrates an historic decade of philanthropy as campaign soars past \$500 million goal

INITIATIVE CAMPAIGN



Thanks to the collective dedication and generosity of volunteers and donors, more than \$640 million has been donated to Queen's during the 10-year Initiative Campaign, furthering the university's top priorities in teaching, research and athletics and recreation. Story on Page 4.

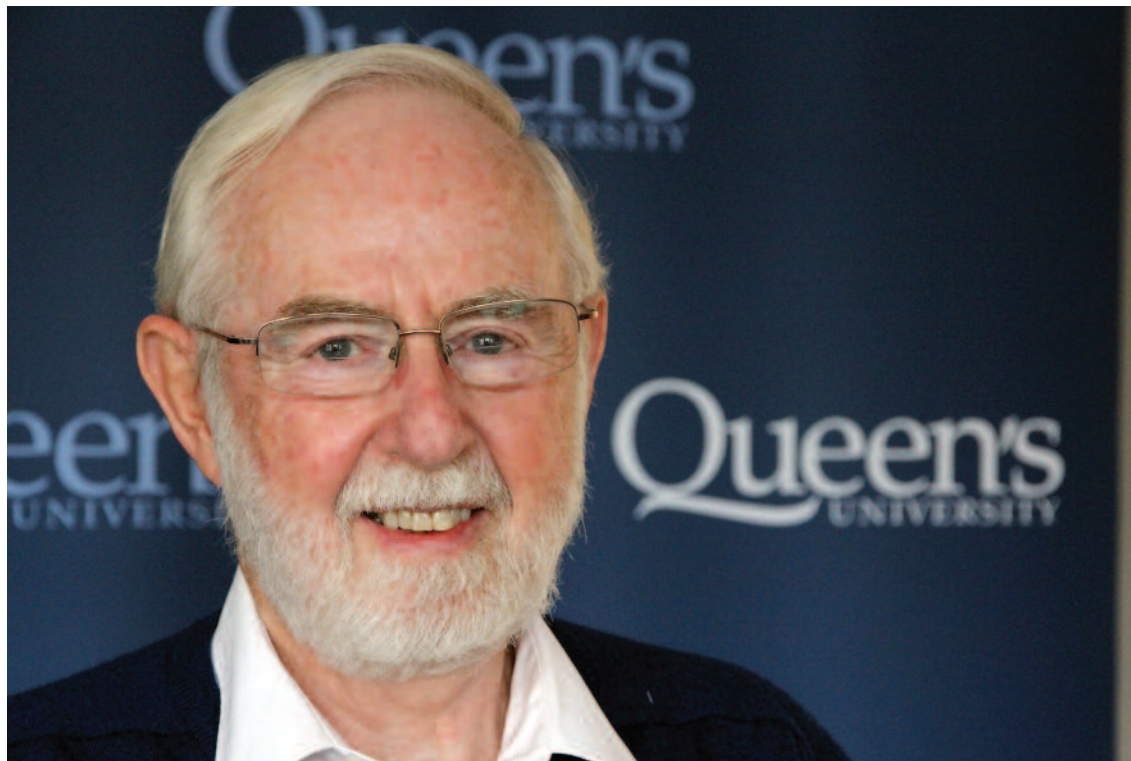
Welcome to the Academy

BY CHRIS ARMES,
COMMUNICATIONS OFFICER

Queen's University Professor Emeritus Art McDonald's research on neutrino oscillations has garnered widespread acclaim from the scientific community. His work has earned him, amongst other honours, the Killam Prize in the Natural Sciences, the 2015 Nobel Prize in Physics and an appointment as a Companion of the Order of Canada. Included in that group is his recent election to the US National Academy of Sciences (NAS).

"It is a great honor to be elected as a foreign associate of the National Academy of Sciences of the United States," Dr. McDonald says. "With my graduate work at Caltech, a professorship at Princeton and extensive collaboration with US scientists throughout my research career, particularly in the SNO experiment, this honor is very significant to me. I have really valued my connections to the United States scientific community."

Dr. McDonald is joined by 20 fellow researchers from 14 countries who were named Foreign Associates of the Academy. Their election to the academy comes in recognition of their distinguished and continuing achievements in original research. Of the 465 foreign associates in the Academy, Dr. McDonald is one of only 18 Canadians. Foreign associates are nonvoting members of the Academy, with citizenship outside the United States.



Queen's University Professor Emeritus and Nobel Laureate, Art McDonald, has been elected as a foreign associate to the National Academy of Sciences in the United States.

"Dr. McDonald is one of the most distinguished Canadian physicists of his generation," says Dr. Steven Liss, Vice-Principal (Research). "Election to the National Academy of Sciences is a tremendous international honour and a testament to his leadership, and to the fundamental importance and impact of his groundbreaking research on neutrinos."

Dr. McDonald's research, conducted at the Sudbury Neutrino Observatory, determined neutri-

nos are capable of changing their type – indicating that they have mass. He remains involved in research at SNOLAB, including the DEAP experiment, which has developed one of the most sensitive experiments ever with the goal of direct detection of dark matter. Dr. McDonald is also a collaborator on the SNO+ experiment which will look for a rare radioactivity called neutrinoless double beta decay to provide further information on the basic properties of neutrinos.

The Academy boasts a total number of 2,291 active members. Established under a congressional charter signed by President Abraham Lincoln in 1863, the National Academy of Science recognizes achievement in science and provides science, technology, and health policy advice to the US federal government and other organizations.

To learn more about the US National Academy of Sciences visit nasonline.org.

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QUEEN'S UNIVERSITY VICE-PRINCIPAL (UNIVERSITY RELATIONS)

Michael Fraser

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UNIVERSITY COMMUNICATIONS

Student Code of Conduct approved

BY COMMUNICATIONS STAFF

On May 6 the Queen's University Board of Trustees approved a revised Student Code of Conduct, which forms the foundation for the new student non-academic misconduct system at Queen's.

"This review was guided by the university's interest in ensuring the well-being and safety of our students," says Daniel Woolf, Principal and Vice-Chancellor. "I would like to thank the advisory committee for its work in drafting the student code of conduct and all of those who contributed to the review process."

The Queen's University Advisory Committee on Non-Academic Misconduct (ACNAM), chaired by Principal Woolf, began an extensive consultation process with the Queen's community in

October 2015.

The committee was established following direction from the Board of Trustees, advising the university to review its current non-academic misconduct policies and procedures with the aim of improving the system to better support student safety, health and wellness.

"As members of the Queen's community, students are expected to adhere to and promote Queen's values of honesty, trust, fairness, respect and personal responsibility. It is these values that are intended to inform and guide student conduct, as they foster mutual respect for the dignity, property, rights and the well-being of others," says Principal Woolf.

The review continued throughout the 2015-16 academic year,

concluding in April 2016. Feedback received during this review both informed and contributed to the drafting of the Student Code of Conduct. In addition to consultations held with various groups, the Queen's community was invited to comment on the revised Student Code of Conduct in April.

Committee membership included:

- Daniel Woolf, Principal and Vice-Chancellor (Chair)
- Alan Harrison, Provost and Vice-Principal (Academic) (Vice-Chair)
- Heather Black, University Council
- Chris Cochrane, SGPS President
- Kanivanan Chinniah, AMS President
- Caroline Davis, Vice-Principal (Finance and Administration)

- Bill Flanagan, Dean, Faculty of Law

- Deborah Knight, Associate Professor, Senate

- Lon Knox, University Secretary

- Palmer Lockridge, Student Senator

- Ann Tierney, Vice-Provost and Dean of Student Affairs

The committee also included the following non-voting advisors:

- Michael Fraser, University Relations
- Dan Langham, Environmental Health and Safety
- Lisa Newton, University Counsel
- David Patterson, Campus Security and Emergency Services
- Stephanie Simpson, Human Rights Office
- Harry Smith, University Ombudsman



Queen's
UNIVERSITY

Finding Robert Sutherland

BY ANDREW CARROLL,
GAZETTE EDITOR

Thanks to some undergraduate research a little more light has been shed on the life and times of Robert Sutherland, one of the most important and intriguing figures in the early history of Queen's.

Despite his role in saving the university from a financial crisis by bequeathing his entire estate of \$12,000 upon his death in 1878, there is precious little known about Sutherland.

That dearth of information drew the attention of Amelia Briggs-Morris (Artsci'16) as she looked into the history of the Department of Classics as part of a Work-Study program under the supervision of Classics Professor Barbara Reeves. Like Queen's, the department is celebrating its 175th anniversary, and is reviewing its history.

"Robert Sutherland was one of the first people that Dr. Reeves suggested we look into," Ms. Briggs-Morris says.

The big details of Sutherland's story are fairly clear. He made his way from Jamaica to Ontario and eventually studied at Queen's, becoming the first known university student and graduate of colour in Canada. He would earn 14 academic honours while at Queen's. Later he would become British North America's first known black lawyer and practiced law in the southwestern Ontario town of Walkerton for 20 years.

An impressive story certainly, but one lacking in fine details.

Dr. Reeves and Ms. Briggs-Morris first turned to the Queen's University Archives and while there were boxes of information on the majority of important early figures at Queen's, Sutherland's history amounted to a "skimpy" folder.

"There are people with boxes and then for Sutherland there's just this tiny little file," Ms. Briggs-Morris says. "I've been telling my friends about him but no one has ever heard about him even though he's a very important figure. When



Amelia Briggs-Morris (Artsci'16) presents a poster displaying the research she conducted into Robert Sutherland to Principal Daniel Woolf, as Barbara Reeves (Classics) looks on. Through her research Ms. Briggs-Morris located and documented Sutherland's funerary monument and translated the Latin inscription.

they do hear about him, however, people are awestruck."

The duo set out to add to that story, but with a Classics twist.

Sutherland's funerary monument, created under the order of Principal George Grant and placed upon a plot paid for by alumnus and eventual Supreme Court Justice James MacLennan in Toronto's Mt. Pleasant Cemetery, featured a Latin inscription written by Rev. James Williamson, a prominent professor at Queen's.

However, the record of this monument involved a "fuzzy" image with no details about the inscription.

It was a gap in the story that simply had to be filled.

"When you look at it, he basically saved the university and there isn't even a picture of him," Ms. Briggs-Morris says. "Queen's had honoured him at the time but there isn't even really a proper record of this honour. And it was only recently that they named Sutherland Hall after him."

Latin and Classics made a nat-

ural fit so during Reading Week Ms. Briggs-Morris traveled to Toronto, located Sutherland's grave and took a photo of the monument. With the support of Dr. Reeves, the inscription was then translated.

"Sutherland is one of Queen's and Classics' most important alumni and Queen's honoured him after his death with a Latin funerary monument. Yet the monument itself has received almost no attention," says Dr. Reeves. "In association with Queen's and Classics' 175th anniversary, there was a clear need to document this monument and its Latin inscription. The resulting research, which has highlighted both what is present and missing from the epitaph, provides new avenues for understanding Queen's and Canada in the 1870s."

Their translation reads: "In memory of Robert Sutherland B.A. who lived 46 years and on June 2, 1878, died. The University of Queen's college, his heir, placed this monument lest his loyalty to his alma mater falls into oblivion."

Curiously, the epitaph makes no mention of Sutherland's date of birth, birthplace, family members or his profession, all of which were common on contemporary monuments.

Armed with this information, Ms. Briggs-Morris then wrote a commentary, and contextualized the monument in regard to Principal Grant, Professor Williamson and Justice MacLennan and presented the work at the Inquiry@Queen's undergraduate research conference.

Ms. Briggs-Morris is proud that she has added to Sutherland's story. The work also demonstrated the value of undergraduate research, says Dr. Reeves.

"Really, the value of these Inquiry@Queen's-type projects is that the students get to sink their teeth into something themselves," she says. "I was pointing Amelia in directions but she was then going and doing the work and also coming back with information that I was completely unaware existed. And that's a wonderful thing."

Sexual Violence Prevention and Response Coordinator appointed

BY COMMUNICATIONS STAFF

The university's inaugural Sexual Violence Prevention and Response Coordinator will join Queen's on May 24.

Barbara Lotan's office will be the central point of contact for students, staff and faculty, and will coordinate campus wide-education, response, support, training and prevention initiatives. The office will be housed within Queen's Human Rights and Equity Office.

"I am pleased with the progress we have made to date in addressing, and responding to, the important issue of sexual violence," says Provost Alan Harrison, Provost and Vice-Principal (Academic) "We welcome Ms. Lotan to this new role. The university has also enhanced the profile of its support services on and off campus, introduced new education programming for students, and developed new resources and training for students, staff and faculty."

Ms. Lotan has been engaged in a variety of prevention and intervention activities throughout Eastern Ontario and has worked collaboratively with community stakeholders, including other service providers, to assist clients as they navigate support systems. Ms. Lotan's experience with the Sexual Assault and Domestic Violence Program at the Perth & Smiths Falls District Hospital provided her with an opportunity to be actively involved in all aspects of the program, including direct service delivery and program management.

"Barbara Lotan brings considerable experience to this position and will play a leading role in helping Queen's build on our progress to date," says Irène Bujara, University Advisor on Equity and Human Rights.

The establishment of this position, which followed a recommendation in the Report of the Sexual Assault Prevention and Response Working Group, is an outcome of the work undertaken by an implementation team, which has been prioritizing the working group's recommendations and setting timelines for next steps.

Visit the Student Affairs website (queensu.ca/studentaffairs) for more information about the services and supports available at Queen's.

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Honorary Degree Nominations for 2017

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 August 12, 2016





Queen's Bands enter during the Initiative Campaign launch event held inside Grant Hall in October 2012. Queen's is celebrating the successful conclusion of the Initiative Campaign, the most ambitious fundraising campaign in the university's 175-year history.

Initiative Campaign soars past its goal

BY COMMUNICATIONS STAFF

Queen's University is celebrating the success of the Initiative Campaign, the most ambitious fundraising campaign in its 175-year history, which concluded on April 30. Thanks to the collective dedication and generosity of volunteers and donors, more than \$640 million has been donated to Queen's University during the 10-year Initiative Campaign, surpassing the \$500 million goal set at the beginning of the campaign in 2006.

"This is a proud moment in Queen's history. The university is enormously grateful to all of our volunteers and donors who recognize the value of a Queen's education, and have invested in making one of Canada's top universities even better," says Daniel Woolf, Queen's Principal and Vice-Chancellor.

More than 60,000 individual donors, including 35,000 alumni, contributed to the campaign since it was launched in 2006. Funds donated during the Initiative Campaign have furthered the university's top priorities in teaching, research and athletics and recreation.

Over \$85 million has been used

"This is a proud moment in Queen's history. The university is enormously grateful to all of our volunteers and donors who recognize the value of a Queen's education, and have invested in making one of Canada's top universities even better."

— Principal Daniel Woolf

to support student assistance programs, including the creation of 473 new student awards and 22 new chairs and professorships. Campuses and facilities at Queen's have already improved greatly as a result of donations during the Initiative Campaign with further investments to be made in a number of priority areas.

"I would like to extend my most sincere gratitude to the volunteers, donors, alumni and supporters who have contributed to the Initiative Campaign over the past 10 years," says Gord Nixon, Chair of the Initiative Campaign. "Their efforts have contributed greatly to the campaign, and the excitement and momentum that inspires others to make the same commitment to Queen's."

Campuses and facilities at Queen's have improved greatly as a result of donations during the Initiative Campaign. These investments support the university's programs and its people, including experiences beyond the classroom that enable the Queen's community to make a significant impact on society as an informed citizenry, nationally and internationally.

In addition to the funds raised, support from the three levels of government provided an additional \$94 million that was not included in the Initiative Campaign total.

Queen's partnered with the federal and provincial governments to build Queen's School of Medicine, and received support from the federal, provincial and municipal governments to bring the Isabel Bader Centre for the Performing Arts to fruition.

This support was essential in making these projects possible and the university is enormously grateful for these investments.

More than \$115 million has been committed in future estate gifts against the university's parallel goal of \$100 million, which is counted outside of the Initiative Campaign total.

Through the Lens



Provost Alan Harrison makes a presentation at the Aboriginal Council of Queen's University on Monday, May 9. At left are Principal Daniel Woolf and Ann Tierney, Vice-Provost and Dean of Student Affairs. At right is Don Ames of Undergraduate Admission and Recruitment.



Members of the Aboriginal Council of Queen's University gather in a circle at the beginning of the Kairos blanket exercise held at the Mohawk Community Centre in Tyendinaga.



Incoming Provost Benoit-Antoine Bacon reads one of the historic moments of Aboriginal history during the Kairos blanket exercise held during the Aboriginal Council of Queen's University meeting.

An exercise in Aboriginal learning

Members of the Aboriginal Council of Queen's University took part in a Kairos blanket exercise during their most recent meeting, held at the Mohawk Community Centre in Tyendinaga on Monday, May 9.

Facilitated by Laura Maracle, Aboriginal Student Success Strategist, and Vanessa McCourt, Aboriginal Advisor, of Four Directions Aboriginal Student Centre, the exercise is an interactive learning experience

aimed at teaching Indigenous rights history. Developed in response to the 1996 Report of the Royal Commission on Aboriginal Peoples, the blanket exercise covers over 500 years of history in a one-hour participatory workshop. Participants take on the roles of Indigenous peoples in Canada and while standing on blankets that represent the land, they interact and learn about pre-contact, treaty-making, colonization and resistance.

UNIVERSITY COMMUNICATIONS

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Course redesign breaks new ground

BY ANDREW CARROLL,
GAZETTE EDITOR

Jill Atkinson (Psychology) knows that she is joining some very select company.

Dr. Atkinson is the 2016 recipient of the Chancellor A. Charles Baillie Teaching Award, which recognizes undergraduate, graduate or professional teaching that has had an outstanding influence on the quality of student learning at Queen's University.

She is being recognized for her redesign and teaching of the large introductory psychology course "Principles of Psychology" (Psychology 100), in a blended learning format that includes small interactive group sessions, called active learning labs. Professor Wendy Craig, Head of the Department of Psychology and Dr. Atkinson's nominator, says the new model "has had an exceptional effect on the quality of student learning at Queen's University."

"The redesign of the first-year psychology course to focus on active learning broke new ground in the Faculty of Arts and Science," says Jill Scott, Vice-Provost (Teaching and Learning). "What impresses me is the rigour with which Dr. Atkinson has evaluated the impact of the changes on student learning, setting a high standard for evidence-based practices in teaching and learning."

Dr. Atkinson says the award is an honour and counts some of the award's previous winners as mentors. She is also proud to be recognized amongst the many amazing



Jill Atkinson (Psychology) is the 2016 recipient of the Chancellor A. Charles Baillie Teaching Award for her work in redesigning "Principles of Psychology" (Psychology 100), in a blended learning format.

teachers that Queen's offers.

"I know many of the past winners and have learned important lessons about teaching from several of them. To be included in this group is truly an honour," she says. "I also know a number of other colleagues who reflect on their teaching practice, systematically make changes and evaluate these changes in an effort to improve their students' learning. I therefore appreciate the difficult decision the committee must face each year when faced with so many deserving nominees."

With the redesign, all of the approximately 1,800 students who take the course participate in a small interactive learning lab every week as well as a lecture. The new model also resulted in the design and launch of "Applied Research in Higher Education" (PSYC 400). This senior undergraduate course combines a research seminar with practical training in teaching realized via the facilitation of the learning labs. Through this students gain experience in the principles of course design, including the identifica-

tion of learning outcomes, high quality teaching practices and outcome assessment.

While Dr. Atkinson recognized that the redesign project would be difficult and lengthy, she also knew that it would be worth the effort. Early on she turned to fellow psychology faculty member Ingrid Johnsrude to share her vision as well as the work.

"Relentlessly scientific and willing to work at all hours, she made the years we invested in this project rewarding," Dr. Atkinson says. "It was truly a team effort

and I could not have done it without her. Overall, it has been a wonderful opportunity, investigating and applying effective pedagogical techniques while helping to train the next generation of teachers."

Dr. Craig calls Dr. Atkinson a "pioneer in course redesign and evaluation at Queen's" for this work.

"The efforts of Dr. Atkinson are a model for the Faculty of Arts and Science and the university for improving the quality of student learning," Dr. Craig wrote in her nomination. "The results of her work have set a precedent for not only how to improve the quality and method of our teaching but to also include an evaluation framework that ensures we as a university are having the positive outcomes of teaching."

Following the redesign, the Faculty of Arts and Science is now using the blended learning course developed by Dr. Atkinson as a model for 11 other large introductory-level courses with a combined enrolment of approximately 8,000 students.

The Chancellor A. Charles Baillie Teaching Award is presented annually at Fall Convocation. It is awarded annually for activities that lead to improved learning, including curriculum development, educational leadership, design and delivery of out-of-classroom educational experiences, or classroom teaching and supervision. All full-time and part-time faculty members are eligible for this award.

UNIVERSITY COMMUNICATIONS

Building healthy relationships

BY ANNE CRAIG,
COMMUNICATIONS OFFICER

The Promoting Relationships and Eliminating Violence Network (PREVNet) has received renewal funding of \$1.2 million from the Government of Canada to continue its work in reducing bullying. PREVNet is co-led by Queen's University researcher Wendy Craig and York University researcher Debra Pepler.

"The prevention of violence through the promotion of healthy relationships at an early age is the cornerstone for a competitive, healthy and productive society," Dr. Craig says. "Over the next several years, we will continue to partner with governments, corporations and youth-serving organizations to leverage our most suc-

cessful evidence-based resources, adapt them for many different groups, and put them into the hands of those involved with children and youth in all the places where they live, learn, and play."

Launched in 2006, PREVNet is a not-for-profit network of 122 leading Canadian research scientists, their graduate students, 27 universities and 62 national child and youth organizations. Its mission is to stop bullying in Canada and promote safe and healthy relationships for all Canadian children.

The partnership model for PREVNet is unique in the world. A network of leading researchers and youth-serving partners exchange knowledge on a national scale to promote the well-being of

children. The group leverages the latest scientific research in the creation and implementation of a wide range of tools, strategies and programs.

"Bullying remains a problem for youth in communities across Canada," says Daniel Woolf, Queen's Principal and Vice Chancellor. "PREVNet has made a tangible difference in reducing the prevalence of bullying and this funding from NCE will continue to support the efforts of both Dr. Craig and Dr. Pepler and their network. This renewal funding will surely help advance PREVNet's efforts."

Partners include the Canadian Red Cross, Companies Committed to Kids, Facebook Canada, Family Channel, Kids Help Phone, TELUS, Big Brothers Big

Sisters of Canada, Boys and Girls Clubs of Canada, Girl Guides of Canada, UNICEF Canada, and many others.

"We thank the NCE for providing PREVNet with the opportunity to create a 'made in Canada' solution," Dr. Pepler says. "This unique partnership model has led to a cohesive, orchestrated approach across different systems, such as mental health, education and public health, so we can address bullying prevention in a comprehensive and evidence-based way. In Canada and beyond, PREVNet is recognized as the authoritative voice for the prevention of bullying and the promotion of healthy relationships."

Also receiving renewal funding are Children and Youth in

Challenging Contexts (CYCC) and Translating Emergency Knowledge for Kids (TREKK). In total, the three organizations received \$3.6 million over the next four years.

"These networks demonstrate how the results of basic research can be used to inform evidence-based policies and practices. By putting the latest knowledge into the hands of people at the front lines, they help ensure that children and youth across Canada will receive better care and live in a safer environment," says Kirsty Duncan, Minister of Science.

These investments are the result of the most recent competition for the Networks of Centres of Excellence Knowledge Mobilization initiative.

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

A stunning finish for Initiative Campaign

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

BY DANIEL WOOLF, PRINCIPAL AND VICE-CHANCELLOR

Ten years ago, Queen's launched the Initiative Campaign with a goal of raising \$500 million to advance the university's mission, while a separate goal of confirming \$100 million in future estate gifts was also established. Today, I am pleased to report that our benefactors have enabled us to reach and exceed our ambitious goals in spectacular fashion.



The campaign officially concluded on April 30, and although we are still finalizing the official total, I can tell you that the Initiative Campaign's final tally will exceed \$640 million. Additionally, future gifts to Queen's total \$115 million. The Queen's family was "all in" for the Initiative Campaign, with 35,000 members of our Queen's alumni among the contributors. Notably, 97 per cent of all gifts were directed to specific campaign priorities, and nearly all of our campaign priorities were realized, with several projects on the cusp of completion. Certainly,

the momentum of the Initiative Campaign will inspire us to continue seeking out new opportunities.

Our federal, provincial and municipal governments provided an additional \$94 million towards two campaign priorities, the new building for Queen's School of Medicine and the magnificent Isabel Bader Centre for the Performing Arts. Government support was essential in making these projects possible and the university is enormously grateful for these investments.

The numbers and the projects are impressive, but the enduring legacy will be found in the impact the funds will have on our programs of teaching and research, our ability to attract talented students and faculty, and our capacity to provide leadership and personal growth opportunities for students to enrich their non-academic interests. We will be reminded of our community's generosity every time we welcome a student to Queen's who wouldn't otherwise be able to afford it, and as we attend concerts at the Isabel or football games at Richardson Stadium.

In so many ways, the campaign lives on.

I am truly astonished by the success of this endeavour. When I first took on the role of principal, I must admit that the ambitious fundraising goal made me a little

nervous. However, over the last six years, I have been continually reminded of Queen's strong and generous community of which we are all a part. There are many people to thank for their hard work on this campaign including our many volunteers, our students, our faculty leaders, our advancement staff across Queen's, our

trustees, senators, and councillors, and of course, our Campaign Cabinet.

Thank you for your enduring support and for proudly championing the dreams we have for this university.

In the coming weeks and months, we will release a detailed breakdown of the Initiative Cam-

campaign, including stories about the impact that this unprecedented fundraising effort has had on our students, our professors, our staff members, and our campuses – stories that will become an important part of the history of this university and the legacy we leave for later generations of the Queen's family.



The month of May marks the beginning of Spring Convocation at Queen's University, whether it's 2016 or 1946, when this photo, from Queen's University Archives, was taken. Front row, from left: Principal Wallace; Rev. F.S. Milliken; Rev. Dr. R.S.K. Seeley; Premier George Drew; Chancellor C.A. Dunning; R.S. McLaughlin LL.D.; J.M. MacDonnell; and Rev. John MacNab. Back row, from left: Principal H.A. Kent; Dean D.S. Ellis; Dean G.S. Melvin; and Dean R.O. Earl.

Alumni walking 500 miles for Parkinson's

The following was first published on the Dean On Campus blog (meds.queensu.ca/blog/).

BY RICHARD REZNICK, DEAN, FACULTY OF HEALTH SCIENCES

Harry McMurtry and Sue Thompson went to the same high school, both studied at Queen's, and being athletically inclined, both played varsity sports. And yet despite being in the same place at the same time many times in their young lives, the two never met until decades later. It wasn't because of their hometown or university connection; it was because of a mutual diagnosis of Parkinson's disease.



Harry was diagnosed with Parkinson's disease in 2005. Just five years later, his career was cut short, and he retired from the legal profession. Since his diagnosis, Harry has been raising awareness about the disease, and raising funds to support Parkinson's research.

Just over a year ago, Harry set a plan in motion to walk 500 miles for Parkinson's. In 2011, Harry had deep brain stimulation surgery, performed by Dr. Andres Lozano, who I appointed as head of neurosurgery when I was chair at University of Toronto.

"In 2014, my specialist adjusted the stimulation so that it virtually eliminated my involuntary movements," says Harry. "Amongst other benefits, my gait improved dramatically. Later that year, while walking in Central Park, I thought of walking as an activity

that demonstrated I was living well with Parkinson's. At that moment, I came up with the concept of connecting my new home city with my former one. Five hundred miles is the approximate distance from New York City to Toronto."

As the planning began, Harry started to promote his '500 Miles for Parkinson's' walk and a friend of Sue Thompson's shared the initiative with her through social media. Sue has Parkinson's disease too, and was compelled get involved. The two connected, and soon Sue had jumped on board to walk the 500 miles along with Harry.

The walk, which entails up to 15-mile distances each day, will take a total of 45 days. This amount of physical activity is an incredible feat for anyone with Parkinson's disease.

In order to make this walk a reality, Harry has been supported by many volunteers who are working behind the scenes. Here at Queen's, Jasmin Cameron, an adjunct instructor in the School of Rehabilitation Therapy and Dr. Karen Graham from the Department of Emergency Medicine, have led a team that is organizing a series of events in order to celebrate the walkers as they pass through Kingston and to raise funds for the cause.

It is incredible to see how this grassroots effort has snowballed, and to see that a truly interprofessional team has come together to support the team's health needs. In addition to event planning, Jasmin will coordinate the walkers' therapy needs on the ground during the walk, while Dr. Tom Miller, who is a Queen's medicine alumnus (Med'89) will provide

medical oversight for the walkers and for the therapists. Given the unpredictable impacts of endurance walking on three persons with Parkinson's Disease, the team will engage physiotherapists, athletic therapists and massage therapists who will be available to provide treatment both on rest days and during the walk.

I wish Harry and Sue all the best in their walk, and I invite you to welcome them to Kingston on June 7 at 5:30 pm at Fort Henry's Discovery Centre.

A list of all of the walk's Kingston events can be viewed at healthsci.queensu.ca/announcements?id=451, while more information about 500 Miles for Parkinson's can be found at fivehundredmiles.org/

My thanks to Jen Valberg for her help in preparing this blog.

Queen's in the news

Highlights of Queen's experts in the media from April 15-May 6

NEWSPAPERS

Jennifer Bossio (Psychology) commented on her research on how circumcision affects the sensitivity of the penis in *Vice Canada*, *Daily Mail* (UK), and *Men's Health*.



Chris Kilford (CIDP) discusses the tough choices facing the federal government in upcoming defence review, in the *Times-Colonist*.

Martha Bailey (Law) was interviewed by the *Salt Lake Tribune* about polygamy.

Eugene Lang (Policy Studies) commented in the *National Post* on the U.S. ballistic missile defence system.

Justin Connidis (Law) was interviewed by the *National Post* on an innu lawsuit.

Art Cockfield (Law) and **Christian Leuprecht** (Political Studies) had their op-ed on the CRA published in the *Globe and Mail*.

David Strong (Mechanical and Materials Engineering) spoke to the *Kingston Whig-Standard* for a story on how student creations make a disabled man's life a little easier.

William Kymlicka (Philosophy, Law) had his op-ed "Zoos and circuses: The wrong kind of education about animals" published by the *Globe and Mail*.

John Smol (Biology) was in the *Iran Daily* for an article on how warmer temperatures affect lakes in oil sands region.

Stephen Van-ner (Medicine) spoke to the *Kingston Whig-Standard* about co-leading \$12.5 million, 17 centre study on Irritable Bowel Syndrome.



Lisa Kerr (Law) told the *Globe and Mail* that solitary confinement rules must be written in law.

Kenneth Wong (Business) was in the *National Post* for an article on how attracting A-list athlete Josh Donaldson is a coup for water startup Flow.

Elizabeth MacEachern (Education) was interviewed by the *Ottawa Citizen* for an article on a new program that focuses on play-based education.

Kieran Moore (Emergency Medicine, Family Medicine) talked to the *Napanee Guide* about a conference that brought together expert to talk about ticks.

Wendy Craig (Psychology) was featured in the *Kingston Whig-Standard* after her child-advocacy research group received new federal funding; spoke to the *Kingston Whig-Standard* for UNICEF report card a wake-up call for Canada.

David Lyon (Sociology) was interviewed by the *Toronto Star* for "Surveillance and predictive policing: Welcome to the 'safety state' of tomorrow."

Janet Allen (Art) was featured in articles on Queen's unveiling Rembrandt masterpiece in Kingston EMC, *Kingston Whig-Standard*, CKWS TV and Station 14.



Kristan Aronson (Medicine) spoke to the *Kingston Whig-Standard* about her research that shows shift work is linked to an increased risk of breast cancer.

Kathy Brock (Political Studies) was interviewed by the *Vancouver Sun* about how funds funneled into BC ridings paid off in three election night wins.

Udo Shuklenk (Philosophy) had his op-ed "Why should we respect physicians who are conscientious objectors to assisted-death?" published by the *Montreal Gazette*.

ONLINE

Gunnar Blohm (Biomedical and Molecular Sciences) says that commercialization of Transcranial direct-current stimulation (tDCS) devices, while technique is still in early phases and not fully understood, is "irresponsible," on *CBCNews.ca*.

Roel Vertegaal (School of Computing) had his new device the HoloFlex covered in a number of publications including *The Verge*.

Jennifer Pukall (Psychology) spoke to *globalnews.ca* about research on circumcision and penis sensitivity.

Christian Leuprecht (Political Studies) was interviewed by *ctvnews.ca* after a Canadian-run hospital was bombed in Syria.

Steven Liss (Vice-Principal (Research)) was on *CBC Online* talking about how a more collaborative approach is needed to treat Lyme Disease.



James Carson (History) talked to CKWS TV after the City of Kingston nominated Molly Brant to appear on bank note.

RADIO

Andre Juneau (Institute of Intergovernmental Relations) was on *CBC Radio* discussing the resignation of Pierre Karl Peladeau as head of the Parti Québécois.



Warren Mabee (Geography, School of Policy Studies) spoke to *CBC Radio* regarding oil prices continuing to strengthen, but implications for Canada are unclear.

John-Kurt Plinius (Business) was interviewed on *AM900 CHML Hamilton* about whether or not the sharing economy can be applied to restaurant-type businesses.

Kip Pegley (Music) was featured on *NewsTalk 770* (Calgary) talking about how the death of Prince shook the music world.

John Smol (Biology) discussed lakewater protection on *Earth Day CJOB Winnipeg* talk radio.

David Hanes (Astronomy) spoke with *CKNW Vancouver* about what the transit of Mercury can teach us about our galaxy.

TELEVISION

Don Drummond (School of Policy Studies) was on *TVO's The Agenda With Steve Paiken* talking about why numbers matter deeply in modern society.

Erin Weinberg (English Language and Literature) talked with *CKWS TV* for a piece on Shakespeare's enduring influence, 400 years after his death.

Kathleen Lahey (Gender Studies, Law) spoke to *Global TV National* about parental leave policy changes proposed by the federal government.

Incoming students invited to SOAR this summer

BY COMMUNICATIONS STAFF

Making the transition to university life can be hectic, but for incoming Queen's students and their families, July's Summer Orientation to Academics and Resources (SOAR) program offers them a chance to learn about their new living and learning environment and connect with peers, upper-year students, staff and faculty ahead of the school year.

SOAR introduces first-year stu-

dents and families to campus services and resources, information about living in residence and new academic expectations, and includes academic advising for Arts and Science students.

New this year is the opportunity for students with food allergies and students who require academic accommodations to consult one-on-one with specialized service providers.

Students and families can meet with Food Services staff to talk

about customized dining hall meals and food outlets on campus; Queen's Student Accessibility Services will also be available to speak to students with disabilities, one-on-one, about the registration and accommodation process and documentation requirements.

"One of our key priorities this year is to facilitate early support for incoming students with allergies or any accessibility needs," says Vice-Provost and Dean of Student Affairs Ann Tierney, who

recently chaired a review on the university's services and supports for students with allergies and who is leading a review of the university's academic accommodation policies.

"SOAR provides an opportunity for these students to connect with Food Services staff and dining hall chefs to learn about managing their allergy on campus and it allows students with accommodation needs to meet with advisors before the start of the school

year to discuss a plan designed to support their academic success."

SOAR days for students in Arts and Science are Thursday, July 7 to Sunday, July 10; students going to the Bader International Study Centre are invited to campus on Friday, July 8 and Saturday, July 9; SOAR for students in Commerce and in Engineering and Applied Science will run on Friday, July 15 and Saturday, July 16, and Nursing students can attend on Saturday, July 16.

Also new this year are summer webinars for those unable to attend on-campus SOAR events. Topics include moving in to residences, international student transition, academic support, and student life.

"We look forward to welcoming the incoming class to SOAR on campus in July and increasing online opportunities for engaging with first-year students who can't make it to Kingston," says Ms. Tierney. "We want to do all we can to ensure they are well prepared to start their student experience at Queen's."



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QUIET WRITING TIME

Are you finding it hard to write?

Friday mornings are set aside in the Stauffer Fireplace Room for faculty and post-docs to quietly write.

The next session is **June 24**.

More at www.queensu.ca/vpr



Four members of the Queen's community are marking 45 years of continuous service, from left: Diane Dumbleton; Susan Office; Alistair MacLean and Deborah Stirton-Massey.

Celebrating dedicated service

BY COMMUNICATIONS STAFF

Queen's recognized its employees who have reached milestone achievements of continuous service at the university on Tuesday, May 10 during the annual Cele-

bration of Service.

A total of 154 staff and faculty members were honoured for their contributions while reaching employment milestones of 25, 30, 35, 40 and 45 years at Queen's during the ceremony at Ban Righ Dining

Hall.

The dinner event, attended by the recipients, their families and friends, as well as Principal Daniel Woolf, was led by Dan Bradshaw, Interim Associate Vice-Principal (Human Resources).



Staff and faculty marking milestone achievements of continuous service gathered at Ban Righ Dining Hall for the annual Celebration of Service, which was hosted by Dan Bradshaw, Interim Associate Vice-Principal (Human Resources), above right. Below, staff and faculty marking 30 years of continuous service at Queen's University gather for a photo together.



Celebration of Service

45 YEARS

Diane Dumbleton
Alistair MacLean
Susan Office
Deborah Stirton-Massey

40 YEARS

James Archibald
Helen Campbell
Lilian Cook
Bill Cooper
Terena Grice
Alan Harrison
Lucy Lloyd-Batson
Wanda Parkes
Kathleen Reed
Ken Rose
Peter Skensved
Joyce Titley
Laurie Young

35 YEARS

Ronald Anderson
Jennine Ball
Richard Birtwhistle
Barbara Brooks
Dianne Conner
Margot Coulter
Kimberly Dow
Paul Finn
Darcia Fuller
Janice Glasgow
Susie Greyling
Stephen Hall
John Hanes
Debbie Harrington
Catharine Jackson Clarke
Deborah Lahey
Elinor MacDonald
Elizabeth MacDonald-Pratt
Jennifer MacIntyre
Pam Manders
Leisa McDonald
Michael O'Connor
Tammy O'Neil
Andrew Pollard
Robert Reid
Karen Spilchen
Terry Stover
Myron Szewczuk
Sandra Vincent
Virginia Walker

30 YEARS

Brad Amell
Mark Badham
Angela Balesdent
Rodney Berndt
Michael Birk
Heather Blower
Ed Briceland
Reg Byrom
Richard Chaykowski
Don Conners
Constance Deschamps
Mark Duttie
Tim Fort
Christina Fowler
Brent Gallupe
Anne Godlewska
Linda Grant
Douglas Greenaway
Paul Halladay
Tom Harris
Larry Harris
Michael Hefferon
Herbert Henderson
Cheri Horton
Robert Hughes
Mark Jones
Ernst Kani
Cheryl King-Van Vlack

Nancy Leake

Stephen Leighton
W. George Lovell
Carol MacAdams
Susan MacDonald
Harold Mah
Karen Merrill
Jay Morgan
David Needham
Johana Ng
Carol Noel

Stephen Pang
William Paterson
Kenneth Pearce
Patricia Peppin
David Pichora
William Plaxton
David Rappaport
Leda Raptis

Elaine Quigley Savor

Gregor Smith
Robert Snetsinger
Joanne Surette
Lewis Tomalty
Robert Twort
Rena Uptis
Lee Watkins
Wayne Westfall
David Wilson

25 YEARS

Stephen Anderson
Doris Bell
Michael Cahill
Yolande Chan
Fran Crawford
Maria Dickson
Ken Edwards
William Flanagan
Devon Garvie
Steve Gillen
Peter Greer
Allen Head
Simon Hesp
Janet Hiebert
Rhonda Hodgson
Marg Hogan
Dianne Hyde
Judith Irwin
Kevin Jackson
Don Kersey
Lawrence Killen
David Lyon
Kim McAuley
Olivia Middleton
Frank Milne
Raoul Mohammed
Laird Monahan
Douglas Munoz
Larry Pattison
Kelly Petrunka
Susan Phillips
John Pierce
Mary Pople
Jane Reeves
Jane Rogers
Robert Ross
Julie Salverson
Wendy Schuler
Bonnie Stewart
Sandra Turcotte
Stephen Vanner
Lucinda Walls
Roger Ware
Margaret Wilson
Maxine Wilson
John Witjes
Steve Young
John Young
David Zelt
Dick Zoutman

Finding a place for art

BY ANDREW CARROLL,
GAZETTE EDITOR

When a post-secondary institution and company work together it doesn't always have to only be about business.

There is room for conversation, for sharing and, clearly, for art.

The Faculty of Education recently unveiled a new piece of art that was created specifically for it by educational technology firm Desire2Learn (D2L). The three-panel painting, created by D2L's artist-in-residence Kristyn Watterworth, is now mounted prominently at the centre of Duncan McArthur Hall where it can be viewed by practically anyone who enters the building.

As Rebecca Luce-Kapler, Dean of the Faculty of Education, explains, the art piece got its start when Don Klinger, Associate Dean Graduate Studies and Research, found out about Ms. Watterworth. He then pitched the idea to D2L CEO John Baker who was happy to comply.

"Don Klinger and I brought him down and showed him the space, and at that time our Aboriginal garden was in full growth," Dr. Luce-Kapler explains adding that Mr. Baker took photos of the garden as well as the proposed wall space. "You could see there was that sense of different kinds of education – that old brick wall and here's this garden growing outside. So I think this piece captures that sense of all the dimensions of education."

Once she saw the space she would be working with, Ms. Watterworth says she realized that she could create a large three-panel piece. The theme of past, present and future lined up well and she started creating the paintings, which draw on influences of abstract expressionism and futurism.

With the first panel she says she tried to create the dynamic of what education looked like in the



Kristyn Watterworth, artist-in-residence for educational technology firm Desire2Learn (D2L), talks about her art piece after it was unveiled at Duncan McArthur Hall. The three-panel piece was created specifically for the Faculty of Education following a request from Dean Rebecca Luce-Kapler and Don Klinger, Associate Dean Graduate Studies and Research.

past, where "knowledge was passed between people, always one-on-one, very central." The image is dark and has a circular feel to it but remains static.

For the present, Ms. Watterworth says there's still a darkness, and "it's very structured, very compartmentalized. While there is movement it remains distinctive."

The last panel presents a more hopeful vision, incorporating the shift in technology where "learning will be global" and more far-reaching.

"I tried to create that movement within that piece," she says. "It's really lit up and there are different changes in perspective and lighting. It feels more like glass than the others. They are very tactile and the last one is more smooth,

"I think that art in institutions offers the people who work in that environment opportunities for reflection. They improve the work environment. They improve the learning environment by giving you moments to pause and look into something and draw meaning out."

— Alan Wilkinson

flat and easy – and enlightened."

Located on Student Street within Duncan McArthur Hall, the painting also highlights the role that art can play in a working and learning environment, says Alan Wilkinson, Assistant to the Associate Dean Undergraduate Studies, who has played a role in

arranging many of the art pieces in the building.

"I think that art in institutions offers the people who work in that environment opportunities for reflection. They improve the work environment. They improve the learning environment by giving you moments to pause and look into something and draw meaning out," he says. "That creates a dialogue and it can recur over and over. In addition, certain works of art speak to people very individually and very powerfully and that work of art can be a touchstone from one day to another, one week to another and it can provide a valuable support for what a student is doing within the building and what faculty members do as well."

A fresh look for 175th

BY COMMUNICATIONS STAFF

University Marketing has released the visual identity and graphic standards for the Queen's 175th anniversary.

"Faculties, departments and units across campus are planning many events and activities to celebrate the anniversary," says Helena Debnam, Executive Director, University Marketing. "The logo and visual identity allow organizers to unite their activities under the 175th banner and raise the profile of their anniversary celebrations. We also encourage campus to begin using the double hashtag #queensu and #queensu175 in social media as it applies."

The Queen's 175th anniversary graphic was designed to complement the Queen's logo and should be used in conjunction with the university logo. The visual identity guide illustrates the vertical and horizontal orientations of the logo and outlines the size restrictions and proportions.

Units and departments may special order Queen's letterhead with the 175th logo by ordering online through Queen's Printing (queensu.ca/printing).

The 175th Anniversary Visual Identity Guide should be consulted for direction on the application of logos, colours and other design elements. The guide is available for download, along with approved graphics and templates, on the Queen's Visual Identity website (queensu.ca/identity/175th-anniversary/guide).

If you have any questions about applying the visual standards or the correct use of the 175th logo, please consult with University Marketing.



UNIVERSITY COMMUNICATIONS

graduatestudies

SGS Events

Banting Postdoctoral Fellowship – Information session

Graduate Students, Post-doctoral Fellows and Queen's Faculty and Staff are invited to an information session on the Banting Postdoctoral Fellowship.

When: May 17, 11 am-noon
Where: 302 Gordon Hall, Career

Services Workshop Room

During the session, a successful applicant, a past member of the adjudication committee, and the coordinator for the internal pre-selection at Queen's will give brief presentations on best practices for successful applications. This is followed by a Q&A period.

This information session is intended for those interested in applying for the Banting fellowship (at

Queen's or at other institutions), and for faculty and staff who are considering supporting an application at Queen's.

Open Thesis Defenses:

Wednesday, May 18

Shaohua Wang, Computing, 'Assisting End-Users in Filling Out Web Services'. Supervisor: Y. Zou, 524 Goodwin Hall, 10 am.

Wednesday, June 1

Chengfeng Xiao, Biology, 'The White Gene and Locomotor Recovery from Anoxia in *Drosophila*'. Supervisor: R.M. Robertson, 3110 Bio-Sciences Complex, 1:30 pm.

Monday, June 13

Titia Willemien Praamsma, Civil Engineering, 'Rock Outcrops in the Canadian Shield: An Investigation of Contamination Transport from Sur-

face Sources in Fractured Rock Aquifers'. Supervisor: K.S. Novakowski, 212 Ellis Hall, 10 am.

Wednesday, June 29

Jennifer Miron, Nursing, 'Academic Integrity and Senior Nursing Undergraduate Clinical Practice'. Supervisor: K. Sears, 108 Catarqui Bldg., 1 pm.

Innovators Entrepreneurs & Collaborators

Building a clean-tech future in Kingston

The Innovators, Entrepreneurs, and Collaborators series profiles regional innovations, startups and collaborations that are flourishing and which engage Queen's faculty, staff and/or students.

BY IAN COUTTS

Enviro Innovate Corporation is building a pipeline. That's not what you might expect to hear from a clean-tech business, but the "pipeline" in question moves innovative ideas to the market instead of oil or gas. This pipeline also flows in two directions. As well as bringing local innovators' best ideas about clean energy to the world, it funnels funding and support from around the world to researchers at Queen's and its partners. And over time, it's going to pump talent and business activity into Kingston and the region.

Incorporated in 2015 and located in Kingston's Innovation Park, Enviro Innovate is the product of two entrepreneurs – Tom Thompson and Paul Scott. Self-described "finance guys," they both have connections with clean energy going back over two decades.

Thompson's interest dates from 2002 when he began working with a Canadian scientist who had developed a technology capable of economically removing up to 50 per cent of the carbon dioxide in the emissions from coal-fueled power plants, and more than 95 per cent of all oxides of sulphur and nitrogen and heavy metals, including mercury. The search for financing had Thompson relocating to Boston in 2007 and ultimately to founding a company called Eco Power Solutions of which he was CEO.

Scott became interested in clean energy while working on a project in China.

"You can't go to China without grasping the importance of clean-tech," he says.

The two men met in 2012 when Scott was working with a company developing a technology that removed mercury from power plant emissions. Both men also have Kingston and Queen's connections – Thompson grew up here, while Scott, a native of Bermuda, had family in Kingston and did his undergraduate and MBA degrees at Queen's.

Thompson had an idea for a successor company to Eco Power Solutions, but what he had in mind, he says, was not just a firm selling one product, but a business-incubator that could develop



PHOTO BY SUZY LAMONT

Entrepreneurs Tom Thompson and Paul Scott started up Enviro Innovate, a clean-tech accelerator located at Innovation Park.

"a suite of clean technology products."

"When Tom told me this idea," says Scott, "I was all over it."

The concept for Enviro Innovate was born.

The duo was keen to partner with an academic institution, which is hard to do in the United States – many American schools jealously guard their intellectual property, which can make it hard for external parties to collaborate.

In contrast, the partnership with Queen's developed quickly. After first reaching out to Kimberly A. Woodhouse, Dean of the Faculty of Engineering and Applied Science, in the first week of July 2014, they received a call back within a week and a meeting was set up for late August.

The Industry Partnerships team at Queen's, working under the direction of Vice-Principal (Research) Steven Liss, carried the torch following the initial meeting to determine how the university could collaborate. Six months after their first contact Queen's and Enviro Innovate signed a letter of agreement. A master research and commercialization collaboration

agreement was completed in May 2015.

The collaboration gives Enviro Innovate visibility and access to Queen's researchers working in the clean energy sector, one of the university's strengths. Queen's has what is known as a "creator-owned policy." That means any idea a researcher develops is their property, so the company can work directly with them. Queen's may get involved through its technology transfer organization, PARTEQ Innovations, but strictly to help advance the commercialization of promising discoveries.

For Queen's, one attractive element of the relationship is what Dr. Liss calls Enviro Innovate's "sectoral approach." They aren't limited to carbon dioxide emission controls or new energy technologies; they take a look at everything that falls under the broad category of clean energy.

"They open up a pipeline" – there's that word – "to a broader sector," he says.

Queen's also gets the benefit of what Thompson refers to as "our Rolodex" – the network of international connections the two have built up. Thanks to this, says Dr.

Liss, "They can get ideas to market faster."

Signing an agreement is all well and good, but as Dr. Liss puts it, "When the rubber really hits the road is when you start actually putting researchers in touch with these sorts of people."

The work Enviro Innovate is currently doing with Kim McAuley (Chemical Engineering) is a preview of the kinds of cooperation Queen's will be seeing more of in the future. One of the projects that Thompson had undertaken with his previous clean energy initiative was the construction of a demonstration facility, in essence a model power station, in Louisville, Ky., where they could study the effectiveness of their pollution-reduction technology. Between 2010 and 2013, they gathered data on its operation as they boosted performance efficiencies to world-beating specifications, in particular increasing carbon dioxide capture up to 80 per cent.

They want to use this data to help them develop their next generation carbon dioxide-capture module. Enter Dr. McAuley, who excels in the creation of mathematical models of chemical processes. She and her group are analyzing the data in order to simulate the process operation and provide further insights on its optimization. Enviro Innovate is financing this collaboration and underwriting McAuley's graduate student, Nam Hoa Tran.

Enviro Innovate has also connected other companies with Queen's researchers in a similar fashion to solve technical problems.

"It builds credibility for us that we can bring serious people to the table. And every time we turn around with a new technology, we find expertise here," says Scott. "We really didn't realize how deep the clean-tech strengths were at Queen's."

Thompson and Scott both name Janice Mady, the Director of Industry Partnerships at Queen's, and Edward Thomas, the Assistant Director, as the reason why access to key talent is so easy. They are part of a larger team based at Innovation Park that helps scholars, entrepreneurs, executives, administrators and public officials solve problems, fund R&D, launch start-ups, expand businesses and attract investment capital.

"This would not work if we didn't have this relationship with these two individuals," says Scott.

Thompson and Scott will also be speaking at clean energy conferences across the globe in the next year, beating the drum as it were, for Queen's, Innovation Park and Kingston.

"We think there are opportunities to bring people from outside Canada here," says Scott. "People are always trying to steal companies from Toronto and bring them to Kingston. I think the model is to bring the international clean-tech innovation community here."

If they structure their companies appropriately, says Scott, they can take advantage of research tax credits worth up to 65 cents for each dollar spent.

Ultimately, the benefits of this partnership will extend beyond Queen's and Enviro Innovate. Thompson and Scott hope to make Kingston a centre for clean technology. "We are encouraging other companies to come here," says Thompson. "We're talking about talented people, and with talent will come more talent and that will bring funding. We're talking about creating good, high-paying jobs – engineers, researchers, project managers."

It is something the region needs.

"Kingston has a world-class university, certainly one of the most research intensive in Canada. Kingston also attracts, trains and employs a large number of highly educated people. But we've seen a lot of good ideas come out of Kingston and Queen's that for whatever reason weren't retained here," says Dr. Liss. "Enviro Innovate provides an anchor that will keep ideas here and attract them from outside, too. The firms that set up here will give our students opportunities through internships or sponsored research, and encourage those with an entrepreneurial bent. If we get a real cluster of firms, then students may stay here after they graduate."

It's important, too, says Dr. Liss, that two entrepreneurs with strong Kingston and Queen's connections, chose to come back here.

"Clearly this is a signal to our alumni and to people here in Kingston that there are opportunities here, a lot of great research that could enhance all our lives down the road," he says. "That they wanted to come back here is a visible vote of confidence in our world-class research and in the potential of this region."

"It's the kind of thing we'd like to see more of, frankly."

Researchers unveil holographic smartphone

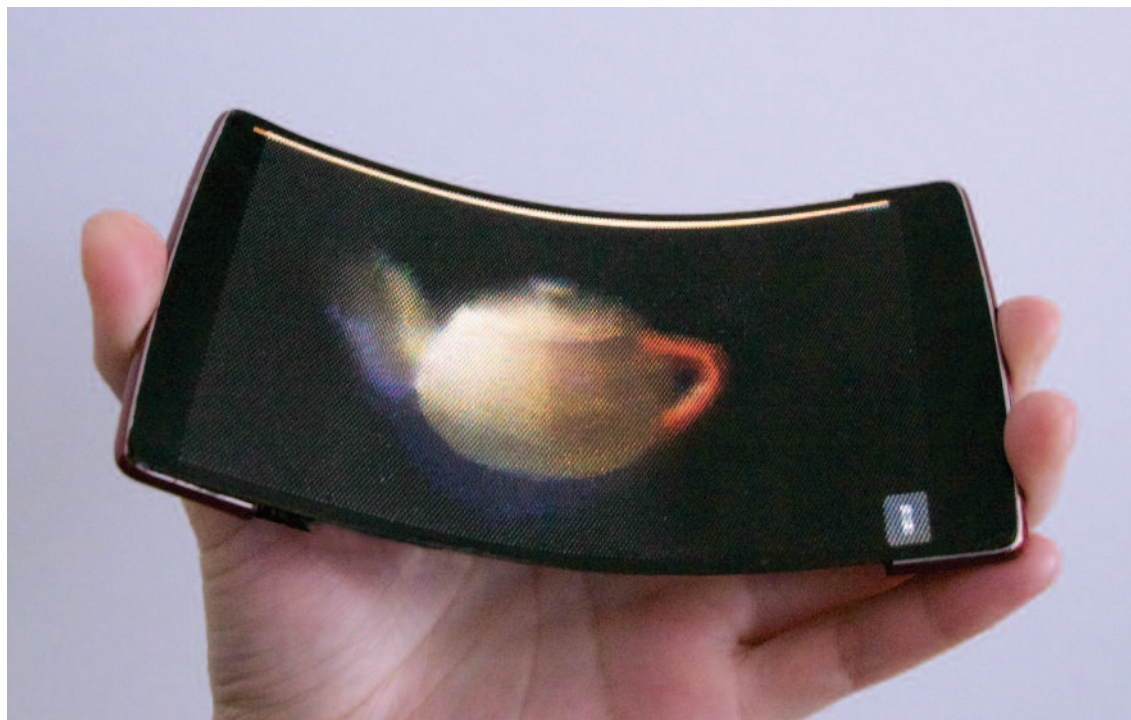
BY CHRIS ARMES,
COMMUNICATIONS OFFICER

Researchers at the Human Media Lab at Queen's University have developed the world's first holographic flexible smartphone. The device, dubbed HoloFlex, is capable of rendering 3D images with motion parallax and stereoscopy to multiple simultaneous users without head tracking or glasses.

"HoloFlex offers a completely new way of interacting with your smartphone. It allows for glasses-free interactions with 3D video and images in a way that does not encumber the user," says Roel Vertegaal (School of Computing), Director of the Human Media Lab.

HoloFlex features a 1920x1080 full high-definition Flexible Organic Light Emitting Diode (FOLED) touchscreen display. Images are rendered into 12-pixel wide circular blocks, which create the full view of the 3D object from a particular viewpoint. These pixel blocks project through a 3D printed flexible microlens array consisting of more than 16,000 fisheye lenses, creating a 3D image in 160 x 104 resolution that which can be viewed from any angle simply by rotating the phone.

Building on the success of the ReFlex flexible smartphone, HoloFlex is also equipped with a



Designed by researchers at the Human Media Lab at Queen's University, HoloFlex is capable of rendering 3D images with motion parallax and stereoscopy to multiple simultaneous users without head tracking or glasses.

bend sensor, which allows the user to bend the phone as a means of moving objects along the z-axis of the display. HoloFlex is powered by a 1.5 GHz Qualcomm Snapdragon 810 processor and 2 GB of memory. The board runs Android 5.1 and includes an Adreno 430 GPU supporting OpenGL 3.1.

Dr. Vertegaal envisions a number of applications for the new functionality of the HoloFlex technology. A first application is the use of bend gestures for Z-Input to facilitate the editing of 3D models, for example, when 3D printing. Using the touchscreen, a user can swipe to manipulate objects in the x and y axes, while squeezing

the display to move objects along the z-axis. Due to the wide view angle, multiple users can examine a 3D model simultaneously from different points of view.

"By employing a depth camera, users can also perform holographic video conferences with one another," Dr. Vertegaal says. "When bending the display users

"HoloFlex offers a completely new way of interacting with your smartphone. It allows for glasses-free interactions with 3D video and images in a way that does not encumber the user."

— Roel Vertegaal

literally pop out of the screen and can even look around each other, with their faces rendered correctly from any angle to any on-looker."

HoloFlex also can be used for holographic gaming. In a game such as Angry Birds, for example, users would be able to bend the side of the display to pull the elastic rubber band that propels the bird. When the bird flies across the screen, the holographic display makes the bird literally pop out of the screen in the third dimension.

Queen's researchers will unveil HoloFlex in San Jose, Calif., at the top conference in human-computer interaction, ACM CHI 2016, on May 9. This research was supported by Immersion Canada Inc. and the Natural Sciences and Engineering Research Council of Canada (NSERC).

For more information on the HoloFlex, visit hml.queensu.ca/holoflex.

HUMAN MEDIA LAB

Promoting science to young Canadians

BY CHRIS ARMES,
COMMUNICATIONS OFFICER

Two Queen's University projects will promote engineering and mathematics to young Canadians – including Aboriginal students – with support from the Natural Sciences and Engineering Research Council of Canada (NSERC).

"Both of these programs deserve applause for their work fostering an interest in and instilling a passion for engineering and mathematics in youth," says Steven Liss, Vice-Principal (Research). "Congratulations to both the Aboriginal Access to Engineering program and Dr. Colgan on their continued efforts and leadership to champion STEM education."

Aboriginal Access to Engineering (AAE) within the Faculty of Engineering and Applied Science has received \$228,900 over three years from the NSERC PromoScience program. The outreach initiatives of AAE aim to get more Aboriginal youth excited about



Science Rendezvous Kingston is one of two Queen's University projects promoting engineering and mathematics to young Canadians to receive support from the Natural Sciences and Engineering Research Council of Canada (NSERC).

science and mathematics and encourage them to consider engineering as a potential career path.

"We are thrilled that NSERC has recognized the opportunities and potential that Aboriginal Access to Engineering opens up for Indigenous youth," says AAE Director Melanie Howard (Artsci'95,

Ed'98). "We look forward to engaging more frequently with Indigenous youth through culturally relevant and exciting STEM enrichment experiences, and inspiring youth in Indigenous communities to see themselves as future engineers."

One of only three undergradu-

ate support programs for Aboriginal engineering students in Canada, AAE is also the only program with a corresponding K-12 outreach component.

AAE sets up interactive displays at various community events throughout the summer, engaging youth through storytelling, games and activities to help them learn about the importance of engineering within an Indigenous context.

The program also works extensively with teachers and schools in First Nations to inspire linkages between culture and technology in the elementary science curriculum. Aboriginal youth also have opportunities to visit Queen's each year and learn more about engineering through in-person meetings.

AAE will use the funding from PromoScience to extend its long-term, reciprocal relationships with proximate Indigenous communities and to strengthen the quality of its outreach and educational efforts.

Lynda Colgan (Education) is

spearheading the other Queen's project that received NSERC funding. With the \$20,000 PromoScience grant, Dr. Colgan is bringing the Mathematics Midway to this year's Science Rendezvous Kingston. The attraction features mathematics-related puzzles and games.

"Two years ago, I was fortunate enough to place a student for a practicum at the Museum of Mathematics in New York City," Dr. Colgan says. "As part of a street festival in Manhattan, they ran a Math Midway, which was an opportunity to play games with math and experience the more artistic, whimsical side of math. I thought, 'that sounds like so much fun!'"

NSERC's PromoScience Program offers financial support for organizations working with young Canadians to promote an understanding of science and engineering (including mathematics and technology).

For more information on the PromoScience program, visit nserc-crsng.gc.ca/.

PHOTO BY GARRETT ELLIOTT

Making the most of time outside classroom

BY ANDREW CARROLL,
GAZETTE EDITOR

While many university students were taking a break or catching up on their studies during reading week, Tia Wilson (Artsci'19) was in Lima, Peru, bringing basic healthcare to the thousands of people living in the sprawling city's slums.

The volunteer trip was coordinated by MEDLIFE, an international organization working to improve the lives of those living in a number of slums in Peru and Ecuador through clinics, education and development projects.

Ms. Wilson says that working in the medical clinic and helping with a local development project was an "incredible experience" that offered "hands-on, real learning" that will stay with her as she moves forward with her education and future career path.

She also knows that she helped make a difference.

"In the five days they were there we treated 880 people," she says. "So that is 880 people's lives we impacted just through the course of that week and probably many more."

Before leaving for Peru, Ms. Wilson launched a successful 50-50 fundraising campaign – with half of the funds covering the cost of the trip and the other half going



During Reading Week, Tia Wilson (Artsci'19) traveled to Lima, Peru, on a volunteer trip coordinated by MEDLIFE where she gained experience helping others through clinics, education and development projects.

to MEDLIFE to provide supplies for the clinics and projects as well as the salaries of the doctors and dentists involved.

She quickly found out that not all learning takes place in a classroom.

Once in the Peruvian capital, Ms. Wilson was put to work at the mobile medical clinic where, over the next five days, she worked alongside healthcare professionals on everything from teaching chil-

dren about dental hygiene to handing out medication at a triage station to providing support at a gynecology clinic.

There also were connections that will stay with her – the boy with the amputated arm who wanted a piggyback ride, the little girl who drew on her legs while she painted stairs, the woman with the malignant tumour in her breast who was beginning chemotherapy.

What also stays with her is seeing the disparity in the standards of living, not only between Canada and Peru but within Lima itself.

"Access to healthcare is something that you take for granted when you are here (back in Canada)," she says. "But if the nearest hospital is a 30-minute trek down a rocky hill and you can injure yourself even worse on the way down, a lot of people just

"In the five days they were there we treated 880 people. So that is 880 people's lives we impacted just through the course of that week and probably many more."

— Tia Wilson

won't bother. Seeing that in that perspective is really eye-opening and changing and makes (the trip) worth every penny. The experiences are priceless."

These experiences, she adds, have given her a broader perspective regarding her life back in Canada and at Queen's. They have made her stronger.

"The experience helps you not get as stressed, (such as during exam time) because you are able to rationalize it," she says. "Even sharing experiences is really important and a lot of people find that helpful as well to hear that from someone when they are having a rough time. Again it's one thing to hear and it's another thing to witness it firsthand."

Ms. Wilson first found out about the opportunity through the Queen's chapter of MEDLIFE.

To find out more visit the organization's website www.medlifeweb.org/.

eventscalendar

Thursday, May 19, 7-9 pm Women's Full Moon Ceremony

Ceremony for women honouring grandmother moon, giving gratitude and thanksgiving for all that we have. New to this ceremony? No worries, all women are welcome! Please bring a dish for potluck, water, tobacco, drum/rattle (if you have one), long skirt (if you wish to wear one). At the Four Directions Aboriginal Student Centre.

Friday, May 20, Noon-1 pm Lunch & Learn: Ask a Dietitian

Are you getting all the nutrients, vitamins and minerals each day? Calcium for women, what are the facts? Eating for two, baby and you? Vegetarian, diet can it be balanced? Bring your questions and ask a registered dietitian! You will also be provided with great cookbook ideas and information you can take with you! Mackintosh-Corry Hall, Room B176

Friday, May 20, 2-3:30 pm Electrifying Medicine PA Day Program

Ever wonder why a balloon sticks to your hair? Spark your interest in cur-

rent and static electricity and discover how they've been used in medicine in the past 200 years. Recommended for ages 8-12 (accompanying adults welcome). Pre-registration required. Museum of Health Care, Ann Baillie Building National Historic Site (32 George St.) Cost: \$3/participant (no charge for adults) Pre-registration required: Call (613) 548-2419, email info@museumofhealthcare.ca, or book online.

Wednesday, May 25, 9 am-Noon New Staff Orientation

Human Resources invites all newly-hired employees to an orientation session. Join us for an informative discussion that includes presentations from various University departments and services as well as essential human resources information. Mackintosh-Corry Hall, Room B176.

Wednesday, May 25, 1:30-3:30 pm It's Elementary, my Dear Watson - Teaching and Learning Through 'Intelligent' Simulation

In this session, Ametros Learning presents their Digital Simulation Platform which utilizes natural lan-

guage processing and IBM Watson's cognitive computing capabilities to engage communication students in realistic client simulation. Initially developed for the Ryerson Professional Communications program, this next generation platform has been garnering strong student support for its immersive and instructional quality. Mackintosh Corry, Large Collaboration Space.

Wednesday, May 25, 2:45-4 pm Tour and Tea: New Men at the Agnes

Explore two exciting new acquisitions in our European and Canadian collections: Rembrandt's Portrait of a Man with Arms Akimbo and The Insolvent Subalterns Paying Morning Visits by Sir Edmund Yeamans Walcott Henderson. The tour is followed by a delicious tea in Etherington House. Fee: \$9 per person. Call 613-533-2190 to register. Space is limited.

Thursday, May 26, 11:30 am- 1:30 pm Opening Reception for Neighbours, An art exhibition about Kingston and Katarokwi

Join us for the Opening Reception

for Neighbours an art exhibition about Kingston and Katarokwi by the Grade 4/5 Students of Sydenham Public School, teacher Sarah McCourt & Artist in Residence Nancy Douglas, which will take place in The Studio. The exhibition runs from May 27-June 17 by appointment.

Friday, May 27, 8 am-Noon Quiet Writing Time for Faculty and Post-Docs

The office of the Vice-Principal (Research) is pleased to team up with the Library to offer communal space for quiet writing on a monthly basis to Queen's faculty and post-docs. Space is limited, and registration is recommended to ensure a spot. Fireplace Reading Room, Stauffer Library

Sunday, May 29, 1:30-4:30 pm The African Beat

Celebrate African culture at the Agnes Etherington Art Centre with great food and art-making at this drop-in event. A highlight of the event: from 2 to 3, Julian Gregory leads a drumming workshop open to all ages. Bring your own drum.

Monday, May 30, 1-4 pm Best Practices

A strong internal control environment helps an organization to efficiently and effectively meet its objectives while ensuring compliance to applicable laws, regulations and policies. During this interactive session, participants will learn about roles and responsibilities with regards to maintaining internal controls at Queen's as well as tips for preventing and detecting fraud in the workplace. This session will also highlight some of the recent policy and process changes at the university and discuss how these impact internal controls. Mackintosh-Corry Hall, Room B176

Friday, June 3- Tuesday, June 7 Canadian Mathematics Educators Study Group Conference

The 40th conference of the Canadian Mathematics Educators Study Group (CMESG/GCEDM) is being co-chaired by Jamie Pyper, and Peter Taylor from Mathematics and Statistics. About 150 Canadian mathematicians and mathematics educators are expected to attend.

Spring Convocation

Ceremony 1: Thursday, May 19 at 10 am - School of Graduate Studies, Smith School of Business

Guest Speaker: Mr. Stephen J.R. Smith
Degrees: Master of Finance (MFIN); Master of International Business (MIB); Master of Management Analytics (MMA); Master of Entrepreneurship and Innovation (MEI); Graduate Diploma in Business (GDB); Master of Public Administration (MPA); Master of Industrial Relations (MIR)
 Ceremony at Grant Hall

Ceremony 2: Thursday, May 19 at 2:30 pm - Faculty of Health Sciences, School of Medicine

Honorary Degree Recipient: The Tragically Hip, LLD
Degrees: Doctor of Medicine (MD)
 Ceremony at Grant Hall

Ceremony 3: Friday, May 27 at 10 am - Smith School of Business

Guest Speaker: Justice Gloria Epstein
Degrees: Master of Business Administration (MBA) - Cornell - Queen's; Executive
 Ceremony at Grant Hall

Ceremony 4: Friday, May 27 at 2:30 pm - Smith School of Business

Guest Speaker: Ms. Valerie Mann
Degrees: Master of Business Administration (MBA) - Queen's; Accelerated
 Ceremony at Grant Hall

Ceremony 5: Monday, May 30 at 2:30 pm - School of Graduate Studies, Smith School of Business

Honorary Degree Recipient: Donald Creighton Rae Sobey, LLD
Guest Speaker: Mr. Rob Marsh
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Bachelor of Commerce - Honours (BComH)
 Ceremony at the Athletics and Recreation Centre (ARC)

Ceremony 6: Wednesday, June 1 at 10 am - School of Graduate Studies, Faculty of Engineering and Applied Science

Guest Speaker: Mr. Richard McCreary
Degrees: Doctor of Philosophy (PhD); Master of Applied Science (MASc); Master of Engineering (MEng); Bachelor of Science in Engineering (BScE)
 Ceremony at Grant Hall

Ceremony 7: Wednesday, June 1 at 2:30 pm - School of Graduate Studies, Faculty of Engineering and Applied Science

Honorary Degree Recipient: P. Kim Sturgess, DSc
Degrees: Doctor of Philosophy (PhD); Master of Applied Science (MASc); Master of Engineering (MEng); Bachelor of Science in Engineering (BScE)
 Ceremony at Grant Hall

Ceremony 8: Wednesday, June 1 at 6:30 pm - School of Graduate Studies, Faculty of Engineering and Applied Science

Guest Speaker: Richard McCreary
Degrees: Doctor of Philosophy (PhD); Master of Applied Science (MASc); Master of Engineering (MEng); Diploma in Community Relations for the Extractive Industries (GCCRE); Bachelor of Science in Engineering (BScE)
 Ceremony at Grant Hall

Ceremony 9: Thursday, June 2 at 10 am - School of Graduate Studies, Faculty of Arts and Science

Guest Speaker: Dr. Stephen Loughheed
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc)
 Ceremony at Grant Hall

Ceremony 10: Thursday, June 2 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science

Guest Speaker: Dr. Steven Smith
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Science (Anatomical Sciences) (MScAS); Master of Arts (MA); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA)
 Ceremony at Grant Hall

Ceremony 11: Friday, June 3 at 2:30 pm - School of Graduate Studies, Faculty of Law

Honorary Degree Recipient: Ronald C. McCallum, LLD
Degrees: Doctor of Philosophy (PhD); Master of Laws (LLM); Juris Doctor (JD)
 Ceremony at Grant Hall

Ceremony 12: Monday, June 6 at 10 am - School of Graduate Studies, Faculty of Health Sciences - School of Nursing, Faculty of Arts and Science

Honorary Degree Recipient: Eileen K. Hutton, DSc
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Arts (MA); Master of Nursing (MN); Master of Nursing Science (MNSc); Master of Science in Healthcare Quality (MScHQ); Primary Healthcare Nurse Practitioner Diploma (DPHNP); Primary Healthcare Nurse Practitioner Certificate (CNP); Bachelor of Nursing Science (BNSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA)
 Ceremony at Grant Hall

Ceremony 13: Monday, June 6 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science

Honorary Degree Recipient: Piers Handling, LLD
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Arts (MA); Master of Applied Science (MASc); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA); Bachelor of Music (BMus)
 Ceremony at Grant Hall

Ceremony 14: Tuesday, June 7 at 10 am - School of Graduate Studies, Faculty of Arts and Science

Honorary Degree Recipient: Debra June Pepler, DSc
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Arts (MA); Master of Art Conservation (MAC); Bachelor of Science - Honours (BScH); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA); Bachelor of Fine Art - Honours (BFAH); Bachelor of Fine Art (BFA)
 Ceremony at Grant Hall

Ceremony 15: Tuesday, June 7 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science

Honorary Degree Recipient: Ali Velshi, LLD
Degrees: Doctor of Philosophy (PhD);

Master of Arts (MA); Master of Environmental Studies (MES); Diploma in Risk Policy and Regulation (DRPR); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA)
 Ceremony at Grant Hall

Ceremony 16: Wednesday, June 8 at 10 am - School of Graduate Studies, Faculty of Arts and Science

Honorary Degree Recipient: Brian Yealland, DD
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Arts (MA); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA); Master of Divinity (MDiv); Master of Theological Studies (MTS)
 Ceremony at Grant Hall

Ceremony 17: Wednesday, June 8 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science

Honorary Degree Recipient: Wendy Jane Crewson, LLD
Degrees: Doctor of Philosophy (PhD); Master of Arts (MA); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA)
 Ceremony at Grant Hall

Ceremony 18: Thursday, June 9 at 10 am - School of Graduate Studies, Faculty of Arts and Science

Guest Speaker: Dr. Audrey Kobayashi
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Arts (MA); Master of Applied Science (MASc); Master of Urban and Regional Planning (MPL); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA); Bachelor of Computing - Honours (BCmpH); Bachelor of Computing (BCmp)
 Ceremony at Grant Hall

Ceremony 19: Thursday, June 9 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science

Guest Speaker: Dr. Pamela Dickey Young
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Arts (MA); Master of Applied Science (MASc); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA)
 Ceremony at Grant Hall

Ceremony 20: Friday, June 10 at 10 am - School of Graduate Studies, Faculty of Arts and Science, Faculty of Education

Honorary Degree Recipient: Stephen H. Safe, DSc

Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Arts (MA); Master of Education (MED); Professional Master of Education (PME); Master of Public Health (MPH); Master of Science in Occupational Therapy (MScOT); Master of Science in Physical Therapy (MScPT); Graduate Diploma in Aging & Health (GDAH); Graduate Diploma in Professional Inquiry (GDPI); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA); Diploma in Education (DEd); Bachelor of Education (BED)
 Ceremony to be held in Grant Hall

Ceremony 21: Friday, June 10 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science

Guest Speaker: Dr. Amy E. Latimer-Cheung
Degrees: Doctor of Philosophy (PhD); Master of Science (MSc); Master of Applied Science (MASc); Master of Arts (MA); Bachelor of Science - Honours (BScH); Bachelor of Science (BSc); Bachelor of Arts - Honours (BAH); Bachelor of Arts (BA); Bachelor of Physical and Health Education - Honours (BPHEH); Bachelor of Physical and Health Education (BPHE)
 Ceremony at Grant Hall

ACROSS

- 1) Slender-waisted stingers
- 6) Screen material
- 10) Texter's "I think ..."
- 13) Philanthropist Brooke ___
- 14) IHOP supply
- 15) Young gent
- 16) Fox animated sitcom that features Moe's Tavern
- 18) Raw rock
- 19) Foldable shelter
- 20) Some jams consist of these
- 21) Times to revel
- 22) Strands via blizzard
- 24) Roll-call reply
- 26) Falcons' home (Abbr.)
- 27) "The Four Seasons" composer
- 30) Prefix with "net" or "mural"
- 33) Guitarist Eddy
- 35) Stone vessel
- 36) Fiddle stick?
- 37) NBC sitcom that featured Duke's bar
- 39) DJIA listings (Abbr.)
- 40) Gridder Manning
- 41) Like stray cats
- 42) Land of Luxor
- 44) Sudden digression
- 46) Passenger-screening gp.
- 47) Dessert wine
- 48) Drag racers
- 52) Hatchery sound
- 54) Arrive by plane
- 57) "Video" singer India. ___
- 58) Motorists' org.
- 59) AMC drama that featured the Los Pollos Hermanos restaurant
- 61) Terse reproof
- 62) "I wanna!"
- 63) River of Paris
- 64) UFO crew
- 65) Hardy lass
- 66) Fall flower

EAT, DRINK AND WATCH TV!

By Elizabeth C. Gorski

1	2	3	4	5	6	7	8	9	10	11	12		
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DOWN

- 1) Naomi of "King Kong"
- 2) Pale with fright
- 3) Shorthand pro
- 4) Antebellum's opposite
- 5) ___ Lanka
- 6) Video game island
- 7) Suffix with "switch"
- 8) Natural tanner
- 9) Some printers, briefly
- 10) CBS sitcom that featured the Tropicana nightclub
- 11) Colt carrier
- 12) Works of Pindar
- 14) Made cotton candy
- 17) Pony Express load
- 21) Historic time
- 23) White House aide
- 25) Hillary's conquest
- 27) Colorado resort
- 28) Cough soother
- 29) Research org.
- 30) Skeptic's snort
- 31) The Big Easy, for short
- 32) ABC drama that featured the Bang Bang Bar
- 33) Dodge reintroduced in 2013
- 34) July 4 honoree
- 38) How squatters live
- 43) Some band rehearsal areas
- 45) Org. with an elephant mascot
- 46) Novelist Morrison
- 48) Do a nature walk
- 49) Round trip?
- 50) TV journalist Sawyer
- 51) Passover feast
- 52) Cracker spread
- 53) Toward sunrise
- 55) NASA moon landers, briefly
- 56) Candied veggies
- 59) Crunchy sandwich
- 60) Code-cracking org.

athleticsand recreation

Summer fun and learning at Q Camps

BY COMMUNICATIONS STAFF

Summer is almost here and that means it's time for Q Camps.

Once again Queen's University is offering a wide array of camps throughout the summer for children ages four to 18, where they can learn from high-level athletes and musicians, dancers and swimmers.

In addition to the always popular sports camps, Athletics and Recreation has expanded on the theme camps by adding additional weeks to several camps including Super Hero Training, Little Learners, Dance, Drama & Improv, Glee Club, Travel Our City and Guitar Camp.

"The best part of our Summer Camp program is there are so many options, that there truly is a camp for everyone," says Matt Pendergast, this year's supervisor for Q Camps. "We have sport specialty camps for basketball, volleyball, football, fencing and ulti-

mate; and many music, drama, dance, writing, swimming, and sports camps. All of the camps have some athletic component to them whether that's playing dodge ball or other GLO games in the Combative Room or activities in the gym, in addition to the programmed camp activities."

Pendergast knows the Q Camps program very well as he enters his third summer, after previously working as a counsellor and assistant supervisor.

"My personal experience with the camps has been great. Queen's Athletics and Recreation is an amazing place to work with very friendly staff," he says. "Our staff group for camps is quite close as well, many of us being varsity athletes at the university, which creates a bit of a connection from the start. The cohesion our staff has really benefits the camps as a whole."

Pendergast says that other strengths of the program include



Children play a game of Ultimate on Tindall Field during one of the many Q Camps offered by Athletics and Recreation last summer.

UNIVERSITY COMMUNICATIONS

the top-quality facilities at the Athletics and Recreations Centre (ARC) that allows Queen's to offer activities that campers may not have the opportunity to take part in elsewhere. He also says that

he's in charge of a cohesive staff group that enjoys working together and with the kids.

For more information, including a full list of camps, and to register, visit gogaelsgo.com.

fittips

Get walking

What can a little walk do? According to research, a lot! Moderate physical activity, such as walking, offers health benefits.

Here are a few examples:

- The American Cancer Society reported that an hour of daily walking may reduce a woman's risk of getting breast cancer by 14%, as well as colon cancer for both men and women. Walking is a proven cancer fighter!

- American Heart Association has stated that walking briskly for up to 30 minutes can prevent and control high blood pressure that can lead to stroke, reducing your risk by up to 27%.

- A University of California study found that age-related memory decline was lower in women who walked more. There have also been several studies that show that walking lowers the incidence of dementia and Alzheimer's disease.

You know the science behind the benefits of walking regularly so now it's time to lace up your shoes and Get Your 150!

ARE YOU IN?

GIVE BEFORE JUNE 30 TO RESERVE YOUR SPOT IN HISTORY.

GOGAELSGO.COM/STADIUM



for the record

Committees

Advisory Selection Committee for the Vice-Principal (Facilities, Properties and Sustainability)

Principal Daniel Woolf has convened and will chair a committee to assist him on the appointment of the newly-established Vice-Principal (Facilities, Properties and Sustainability).

The committee members are:

- Daniel Woolf, Principal and Vice-Chancellor (Chair)
- Toby Abramsky, Trustee
- Irène Bujara, University Advisor on Equity and Human Rights
- Natalie Cann, Professor, Department of Chemistry
- Caroline Davis, Vice-Principal (Finance and Administration)
- Kevin Deluzio, Professor, Mechanical and Materials Engineering
- David Gordon, Professor, Geography and Planning
- Bruce Griffiths, Director, Housing and Hospitality Services
- Donna Janiec, Associate Vice-Principal (Finance)
- Steven Liss, Vice-Principal (Research)
- Anne Martineau, Executive Assistant to the Principal (Recording Secretary)
- Steve Millan, Business Officer, Smith School of Business
- Megan Sheppard, Associate Vice-Principal (Budget and Planning)
- Martha Whitehead, Vice-Provost and University Librarian
- John Witjes, Associate Vice-Principal (Operations and Facilities)
- Cameron Yung, Rector-elect

Award for Excellence in Graduate Student Supervision

The School of Graduate Studies invites nominations of faculty members for consideration for the 2016 Award for Excellence in Graduate Student Supervision. The purpose of this award is to recognize those outstanding supervisors who demonstrate excellence in advising, monitoring and mentoring their graduate students. Two awards will be presented at the fall 2016 convocation: one in the Social Sciences and Humanities, and one in Life Sciences, Natural Sciences and Engineering. Award nomination forms and guidelines are available from the Office of the Dean, School of Graduate Studies (deansgsr@queensu.ca) or at www.queensu.ca/sgs. Nomination packages should be submitted to the Dean, School of Graduate Studies, Queen's University, Gordon Hall 425, 74 Union St., Kingston, Ont. K7L 3N6 by 4 pm on Thursday, May 26, 2016.

Notices

Renewal, tenure, promotion applications

Under the terms of the Collective Agreement between Queen's and Queen's University Faculty Association for faculty, librarians and archivists, Aug. 15 is the deadline for regular faculty to apply for renewal, tenure or promotion; librarians and archivists to apply for renewal, continuing appointment or promotion; and adjuncts to apply for promotion. Members must notify their unit head of their intent to apply for renewal,

tenure, continuing appointment, or promotion by July 1.

Articles that refer to these procedures include: Article 24 – Employment Equity; Article 30 – Renewal, Tenure and Promotion for Tenure-Track and Tenured Faculty Members; Article 31 – Renewal, Continuing Appointment and Promotion for Librarian and Reappointment and Promotion of Adjunct Members; and Appendix O – Aboriginal Participation in Renewal, Tenure or Promotion Committees (or in the case of Librarian and Archivist Members, Continuing Appointment).

Summer Studentship in Cancer Research

Queen's Cancer Research Institute (QCRI) is pleased to announce the names of this year's recipients of the Craig Jury Memorial Summer Stu-

dentship in Cancer Research. This endowment fund was established in 2005 through a gift from Mrs. Erma Jury (Arts'63) in memory of her son Craig, and is awarded on the basis of high academic achievement and a demonstrated interest in cancer research, to a full-time undergraduate student in the Faculty of Health Sciences or the Faculty of Arts and Science to participate in a summer studentship in the Cancer Research Institute.

Thanks to matching funds from the Terry Fox Transdisciplinary Training Program in Cancer Research in partnership with Canadian Institutes of Health Research (CIHR), QCRI was able to offer three additional Craig Jury Memorial Summer Studentships in Cancer Research. Congratulations to the four recipients in the Division of Cancer Biology and

Genetics (CBG) in QCRI:

- Justin Cowen, a second year BScH (Biochemistry) student under the direction of Dr. Peter Greer (project title: "The Merlin/NF2 tumor suppressor").
- Jasmine Lee, a third year BScH (Life Sciences) student under the direction of Dr. David Berman (project title: "Functional roles of epigenetically silenced genes in prostate cancer progression").
- Sarah Maritan, a fourth year BScH (Life Sciences) student under the direction of Dr. Lois Mulligan (project title: "Exploring pro-invasive signaling proteins in colon cancer").
- Emma Smith, a fourth year BScH (Life Sciences) student under the direction of Dr. Susan Cole (project title: "Structure-function studies of the hinge regions of the organic anion transporter, MRP1").

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:** Competition: 2016-138

Job Title: Professional Development Officer (Master Public Health Program) (USW Local 2010)

Department: Public Health Sciences

Hiring Salary: \$57,160 (Salary Grade 8)

Hours per Week: 35

Appointment Terms: Continuing Appointment

Closing Date: 20-May-2016

■ **Competition:** 2016-133

Job Title: Associate Director, Gift Planning

Department: Department of Development, Gift Planning

Hours per Week: 35

Appointment Terms: Continuing Appointment

Closing Date: 29-May-2016

■ **Competition:** 2016-132

Job Title: Web & Database Developer (USW Local 2010)

Department: Queen's School of English, Faculty of Education

Hiring Salary: \$50,405 (Salary Grade 7)

Hours per Week: 35

Closing Date: 23-May-2016

■ **Competition:** 2016-070

Job Title: Associate Director, Gift Services

Department: Gift Services, Advancement Services

Hours per Week: 35

Closing Date: 24-May-2016

■ **Competition:** 2016-065

Job Title: Senior Development Officer (USW Local, 2010)

Department: Development, Office of Advancement

Hiring Salary: \$60,770 (Salary Grade 9)

Hours per Week: 35

Appointment Terms: Term Appointment (36 months)

Closing Date: 26-May-2016

■ **Competition:** 2016-016

Job Title: Assistant Dean, Student Life and Learning

Department: Division of Student Affairs

Hours per Week: 35

Appointment Terms: Continuing Appointment

Closing Date: 27-May-2016

Apply To: Jane Griffith

Queens@odgersberndtson.com

■ **Competition:** 2016-110

Job Title: Project Officer

Department: International Centre for the Advancement of Community Based Rehabilitation

Hiring Salary: \$44,452 (Salary Grade 6)

Hours per Week: 35

Appointment Terms: Term appointment until Dec. 1, 2017.

Closing Date: 15-Jul-2016

Apply To: Dr. Heather Aldersey
hma@queensu.ca

Successful Candidates

Job Title: Information Security Officer

Department: Information Technology Services

Competition: 2015-229

Successful Candidate: Denise Ernst

■ **Job Title:** Executive Director, Student Wellness Services

Department: Division of Student Affairs

■ **Competition:** 2015-142

Successful Candidate: Jennifer Dods

■ **Job Title:** Recruitment Representative (USW Local 2010)

Department: Undergraduate Admission and Recruitment

Competition: 2016-028A

Successful Candidate: Maura MacKenzie

■ **Job Title:** Clinic Director

Department: Psychology Clinic

Competition: 2015-346

Successful Candidate: WITH-DRAWN

■ **Job Title:** Mobile Specialist (USW Local 2010)

Department: Information Technology Services

Competition: 2016-061

Successful Candidate: Christina Slack

■ **Job Title:** Program Manager

Department: Smith School of Business, Toronto Facility

Competition: 2016-047

Successful Candidate: Katharine Gagnon

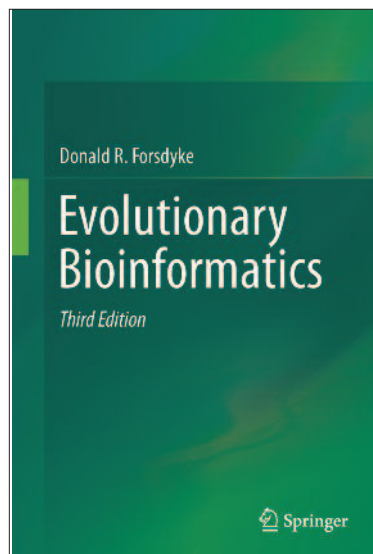
books

Evolutionary Bioinformatics by Donald R. Forsdyke (Biomedical and Molecular Sciences)

Now in its third edition and supplemented with more online material, this book aims to make the "new" information-based (rather than gene-based) bioinformatics intelligible both to the "bio" people and the "info" people. Books on bioinformatics have traditionally served gene-hunters, and biologists who wish to construct family trees showing tidy lines of descent.

While dealing extensively with the exciting topics of gene discovery and database-searching, such books have hardly considered genomes as information channels through which multiple forms and levels of information have passed through the generations.

This "new bioinformatics" contrasts with the "old" gene-based bioinformatics that so preoccupies previous texts. Forms of information that we are familiar with (mental, textual) are related to forms with which we are less familiar (heredi-



tary). The book extends a line of evolutionary thought that leads from the 19th century (Darwin, Butler, Romanes, Bateson), through the 20th (Goldschmidt, White), and into the 21st (the final works of the late Stephen Jay Gould).

Long an area of controversy, diverging views may now be reconciled.

PUZZLE SOLUTION





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