

WORLD-LEADING RESEARCH



PHOTO BY LARS HAGBERG

Nobel Laureate and Professor Emeritus Arthur McDonald speaks at an unveiling event for the Arthur B. McDonald Canadian Astroparticle Physics Research Institute, a partnership of eight universities and five affiliated research organizations, held Thursday, May 10 at the Isabel Bader Centre for the Performing Arts.

Institute named in honour of Nobel Laureate

BY ANNE CRAIG,
COMMUNICATIONS OFFICER

Queen's University is cementing its reputation as a world leader in astroparticle physics with the official launch of a new national research network dedicated to understanding some of the universe's deepest mysteries.

The Arthur B. McDonald Canadian Astroparticle Physics Research Institute is a partnership of eight universities and five affiliated research organizations. Headquartered at Queen's, the institute came to fruition as a result

of the \$63.7 million investment the university received in 2016 from the Government of Canada's Canada First Research Excellence Fund.

"The launch of this new institute represents a major step forward for our efforts to create a world-leading astroparticle physics research network, building on an area of research expertise for the university and Canada," says Queen's Principal Daniel Woolf. "We are also honoured today to be naming this new institute after one of Canada's most accomplished and celebrated

"The launch of this new institute represents a major step forward for our efforts to create a world-leading astroparticle physics research network, building on an area of research expertise for the university and Canada."

— Principal Daniel Woolf

researchers, Nobel Laureate and Queen's emeritus professor Dr. Arthur B. McDonald."

Over the past year and a half,

the institute has been building momentum, appointing a scientific director and recruiting 13 new faculty members (out of 15 designated positions) from around the world. In total, 100 people, including faculty, staff, and students across the country will be members of the institute, all working to advance its research and outreach goals.

"This new institute will bring together unique expertise from across Canada and leverages over \$255 million of federal investment, with matching amounts from provincial partners, sup-

porting astroparticle physics research over the last 20 years, including the leading experiments at the Sudbury Neutrino Observatory (SNO) and the SNOLAB," says Tony Noble, Scientific Director of the McDonald Institute. "Although the dimensions of the particles we are studying are minute, the implications of these discoveries are monumental and fundamental to the very properties of science and our understanding of the formation and evolution of the universe."

Continued on Page 4

New interim provost appointed

Tom Harris moves into role after Benoit-Antoine Bacon is named next president of Carleton University

BY COMMUNICATIONS STAFF

Principal Daniel Woolf announced on Friday, May 4 the appointment of Tom Harris as interim provost and vice-principal (Academic), effective July 1, 2018.

Dr. Harris will move to the role from his current position as vice-principal (Advancement). He will succeed Provost Benoit-Antoine Bacon who announced on Tuesday, May 1 his upcoming departure from the university to become the president and vice-chancellor of Carleton University in Ottawa this summer.

“Vice-Principal Harris is an experienced and knowledgeable senior leader who will provide continuity on the university executive team and ensure progress on the many strategic priorities being implemented by the provost’s office,” says Principal Woolf. “These include such important initiatives as enhancing indigeneity, diversity and inclusion on campus, supporting the hiring of 200 new faculty over five years as part of faculty renewal, implementing our internationalization strategy, promoting research and innovation, and completing the \$100 million Innovation and Wellness Centre.”

Last summer, Vice-Principal Harris announced he would be stepping down as head of Advancement at the end of June 2018. His new appointment will see him stay on the university’s executive team until a new provost is recruited, following a search process that will include the university’s next principal.

“The leadership at Queen’s is strong and committed to driving



Tom Harris, left, has been appointed interim provost and vice-principal (Academic) effective July 1, replacing Benoit-Antoine Bacon, right, who is leaving Queen’s to become the president and vice-chancellor of Carleton University.

progress on our strategic directions. I’m looking forward to working closely with people across the university as interim provost and vice-principal (Academic),” says Vice-Principal Harris.

Vice-Principal Harris has deep roots at Queen’s. He graduated from the university with a Bachelor of Science in 1975 and returned in 1986 as a faculty member and Queen’s National Scholar in the Department of Chemical Engineering. He was department head before serving as dean of the Faculty of Engineering and Applied Science from 1996 to 2007. He then became vice-principal (Advancement) in 2010 and successfully led the Initiative Campaign, with benefactors contributing \$640 million for a range of university priorities, well over the original target of \$500 million.

Vice-Principal Harris is also an

internationally-recognized researcher for his work in mathematical modelling and applications of statistics in chemical engineering. He is a fellow of the Chemical Institute of Canada and Canadian Academy of Engineering and received the Golden Apple from the Queen’s Engineering Society for Excellence in Teaching and Learning.

Dr. Harris will be succeeded on July 1 as vice-principal (Advancement) by Karen Bertrand, who is joining Queen’s from Guelph University where she is associate vice-president, Major Gift Advancement, as previously announced.

Dr. Bacon will serve as the 15th president and vice-chancellor of Carleton University.

“This is an exciting opportunity for Benoit, and I look forward to continuing to work with him, in my capacity as chair of the Council

of Ontario Universities, in his new role as president of Carleton University,” says Principal Woolf. “He has demonstrated strong leadership and has made significant contributions to Queen’s; I wish him success, and thank him for all he has done to advance our university’s academic mission, promote research, strengthen our international presence, and enrich the student experience. Queen’s has a long tradition of recruiting and training leaders, and I am sure that Benoit’s experiences here, and in his prior roles, will stand him in good stead at Carleton.”

Dr. Bacon joined Queen’s in 2016 from Concordia University where he was also provost. During his time as Queen’s provost, he has worked with the deans to design and implement an ambitious five-year faculty renewal plan aiming to hire 200 outstanding new full-time professors, worked to enhance indigeneity, diversity and inclusion on campus, and accelerated the implementation of Queen’s International Strategy.

He also led the negotiations towards Queen’s highly successful second Strategic Mandate Agreement with the Government of Ontario.

Committed to research and innovation at Queen’s, he made important modifications to the budget model to better support research, contributed to the naming and expansion of the Dunin-Deshpande Queen’s Innovation Centre, and oversaw the construction of the \$100-million Innovation and Wellness Centre which will open in the fall of 2018.

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Planning underway to welcome students for fall term

BY COMMUNICATIONS STAFF

The 2017-18 academic year has just wrapped up, but Queen’s is already encouraging students, staff, faculty and the near-campus community to think ahead to the 2018 fall term.

The university is introducing several changes to the fall term schedule, including changes to residence move-in day and the first day of classes.

More than 4,500 students will be moving in to their residence on the Saturday of Labour Day weekend, Sept. 1, 2018, instead of the usual Sunday.

Thousands of upper-year students living in the near-campus community are also expected to arrive in town over that weekend.

With so many people moving around the campus area on the Saturday, the impact on local traffic will be significant.

“We are working closely with our municipal community partners to plan for the increase in traffic on the Saturday, ensuring new students know what to do and where to go when they arrive, and making the community aware of changes to the first-week schedule,” says Ann Tierney, Vice Provost and Dean of Student Affairs. “Our goal is a smooth weekend for everyone, as we welcome our students to Queen’s and the Kingston community.”

The changes also include starting classes on the first Thursday in September and are the result of the introduction of a fall break

into the academic calendar. Following the residence move-in day and welcome to campus on Saturday and Sunday, faculty-specific orientation activities will take place Monday, Sept. 3 through Wednesday, Sept. 5. Regular classes will run Thursday and Friday, and will be followed by continued faculty-specific and university orientation events throughout the weekend.

There are several varsity games and campus activities scheduled all week.

Advancing move-in by one day, and starting classes the following Thursday, retains six days of orientation activities, has minimal impact on sessional dates, offers a new four-day break in late October, during a high-stress period in

the term, and maintains pre-exam study days in December.

Reducing the time between move-in and the start of classes is also consistent with the recommendations of a working group that reviewed undergraduate orientation and developed a shared vision for an inclusive and accessible welcome to Queen’s.

“We will be communicating with our students, faculty, staff and the community over the summer to ensure they have accurate and timely information around the changes being introduced this September to move-in and orientation week,” Tierney adds.

Information and updates for new students can be found at the Residences and Housing webpage (residences.housing.queensu.ca).



Queen's UNIVERSITY

Ahmed Hassan receives E.W.R. Steacie award

Professor in the School of Computing is one of only 10 Queen's faculty to be honoured with this prestigious NSERC fellowship

BY ANNE CRAIG,
COMMUNICATIONS OFFICER

Canadian leader in software engineering, Queen's University professor Ahmed Hassan was honoured with the 2018 E.W.R Steacie Memorial Fellowship. He is only the 10th Queen's faculty member to receive this prestigious honour, since the award's creation in 1965.

The award is presented annually to up to six researchers nationwide by the Natural Sciences and Engineering Research Council of Canada (NSERC) to enhance the career development of outstanding faculty members who have earned a strong international reputation for their original research. Fellows receive a research grant of \$250,000 over two years and are relieved of teaching and administrative duties during this period.

The *Gazette* recently interviewed Dr. Hassan, who holds the NSERC/BlackBerry Industrial Research Chair in Software Engineering and the Canada Research Chair in Software Analytics at the School of Computing, about this prestigious research award.

What does the E.W.R. Steacie Memorial Fellowship mean to you and your research?

Before I talk about what it means, let me briefly tell you about what I do. My research uses machine learning and data analytics to dig into the rich, yet rarely explored, stores of information associated with software systems. We analyze not only the computer code of these systems, but every piece of information gathered during their development and operation: design notes, prior code changes, user reviews, debugging



Ahmed Hassan (School of Computing), back row centre, stands between Minister of Science and Minister of Sport and Persons with Disabilities Kirsty Duncan and Prime Minister Justin Trudeau, along with other recipients of the 2018 E.W.R Steacie Memorial Fellowship, following a meeting on Parliament Hill in Ottawa on Tuesday, May 1.

histories, online discussions, and logs. By mining through these rich yet rarely-leveraged information sources, we can intelligently guide and support the evolution of these complex systems. For example, we can figure out that a system is not performing as expected even though no one ever documented the expected behaviour, or truly knows it (such is the case for most complex large-scale systems nowadays). We can also foretell future troubles long before they impact users. This line of work is called Mining Software Repositories (MSR), a field of research that I co-founded around 15 years ago.

The Steacie Fellowship is a huge honour and an incredible acknowledgment of not only my team's work but also of the whole MSR field. Each year NSERC awards six Steacie Fellowships across all science and engineering fields nationwide. In the past 50-

plus years, only 13 computing researchers ever received this great honour. Hence, the fellowship is a great recognition of the impact of our work and the importance of the MSR field on software systems and society in general. The award is also a huge vote of confidence for other Canadian researchers in the MSR field, given Canada's commanding position in this field.

I am very grateful for the wonderful support from everyone at the School of Computing and many others throughout Queen's. It feels great to have Queen's at the podium.

As one of the top software engineering researchers in Canada, what is your most important contribution so far and what was its impact?

Research results in any engineering discipline are best judged by their impact on practice, a good amount of my team's innovations

are already adopted in practice and are in use on a daily basis. However, over the years I have come to the realization that people are really what shapes a field more than our greatest ideas. I am very grateful to the continuous support and hard work of my team.

The work I am most proud of is growing and nurturing a very vibrant and top-notch team of international leaders. Over the years, I strived to ensure the diversity of my team, the Software Analysis and Intelligence Lab (SAIL), with members coming from all over the world – Bangladesh, Belgium, Brazil, Canada, China, Egypt, Ethiopia, Germany, India, Iran, Japan, Mexico, the Netherlands, Pakistan, Thailand, Vietnam, Russia, Saudi Arabia, and the United States, just to name a few. It is truly an amazing experience seeing such diverse backgrounds working together and excelling on the world stage.

Today, many of them are leaders at very successful companies in Canada, including IBM, BlackBerry, and Amazon. Being a professor myself, I am particularly proud of the ones who became professors. Seventeen of my prior lab members are now tenured or tenure-track professors at research-intensive universities on every continent except South America. To put things in perspective, over the past five years, half of all new software engineering faculty positions in Canada (eight out of 16) and Australia (three out of six) are from SAIL at Queen's. These researchers continue to have a strong and demonstrable impact on software research and practice worldwide through their own trainees and by serving im-

portant leadership roles in some of computing's top conferences and journals.

What goals are you setting for yourself in regards to research?

My goals remain the same – doing top research with a strong and measurable impact on practice. That said, the Steacie Fellowship gives me the freedom to think of the next big step and to take much higher risks than I would usually take so we can ensure that Canada maintains its leadership in software engineering research and practice worldwide.

What advice do you have for students starting their careers in computer science?

Never underestimate your ability to change the world. Computing is a young and very welcoming field. Your chances of meeting and interacting with the researchers from your textbooks are high, and these people are friendly, supportive, and quite often willing to take great chances and risks on you. I co-founded MSR as a PhD student and I became Canada's youngest Industrial Research Chair with support from NSERC and BlackBerry, thanks to people who are willing to take big risks on a younger me.

Anyone can produce world-leading research as long as they are committed and are not afraid to tackle the hard problems. Canada is a software engineering powerhouse and a leader in computing. We are shaping and enabling many of today's innovations (from deep learning to mobile email). There are many amazing opportunities and tons of hard problems waiting for you, so come join us as we shape the future of our world.

Four Queen's faculty named Canada Research Chairs

BY DAVE RIDEOUT,
COMMUNICATIONS OFFICER

Every year, the Government of Canada invests approximately \$265 million through the Canada Research Chairs (CRC) Program to attract and retain some of the world's foremost academic talent. On May 3, 2018, four Queen's researchers were appointed to Tier 1 and Tier 2 CRC roles – two of whom have been newly selected and two who were renewed for another term.

"The Canada Research Chairs Program continues to nurture exciting research being conducted at institutions across the country," says John Fisher, Interim Vice-

Principal (Research). "Here at Queen's we are very proud to have not only two of our current chairs renewed to their roles, but to also have two faculty members appointed as brand new chair holders. Their leadership within their respective academic disciplines represents the research excellence our university strives to achieve."

Tier 1 Chairs are recognized by their peers as world leaders in their respective fields, while Tier 2 Chairs are recognized as emerging leaders in their research areas. Queen's will receive \$200,000 per year over seven years for each Tier 1 Chair and \$100,000 per year over five years for each Tier 2 Chair. Currently, Queen's is home to over

40 Canada Research Chairs.

Developed in 2000, the CRC program promotes research excellence in engineering, natural sciences, health sciences, humanities, and social sciences.

Queen's new and renewed CRCs are:

Guojun Liu (Chemistry) has been renewed at the Tier 1 Canada Research Chair in Materials Science. Dr. Liu's research is focused on the development of nanostructured polymer materials for various applications, including the refinement of filters that may be able to separate water from organic solvents.

Zongchao Jia (Biomedical and Molecular Sciences) has been re-

newed as the Tier 1 Canada Research Chair in Structural Biology. Dr. Jia and his team are working to understand and affect the function of several atypical protein enzymes in both bacteria and humans with the aim of developing antibiotic and therapeutic applications.

Gabor Fichtinger (Computing) has been newly appointed as the Tier 1 Canada Research Chair in Computer Integrated Surgery. Dr. Fichtinger's research program will concentrate on novel technologies for minimally invasive medical interventions that use computational imaging, spacial navigation, and robotics to transcend human limitations, and ultimately improve

accuracy and precision.

Kyla S. Tienhaara (Australian National University) has been newly appointed as the Tier 2 Canada Research Chair in Economy and Environment. Dr. Tienhaara is joining Queen's from the Australian National University, and will be analyzing the merits of 'Green Keynesianism' – an economic model in which governments take on more active and regulatory roles to bolster both economic growth and the adoption of climate change mitigating measures.

Visit the Canada Research Chair Program website (chairs.chaires.gc.ca) for more information.



PHOTOS BY BERNARD CLARK



It was a time for celebration as the Arthur B. McDonald Canadian Astroparticle Physics Research Institute was unveiled during a special ceremony, top, at the Isabel Bader Centre for the Performing Arts on Thursday, May 10. A number of special guests attended the event, including Kate Young, Parliamentary Secretary for Science, who shared a photo with Dr. McDonald, bottom left. Also unveiled was a new Visitor Centre for the McDonald Institute at Stirling Hall, bottom right. Cutting the ribbon, were, from left: Barbara Crow, Dean, Faculty of Arts and Science; Nathalie Ouellette, Communications, Education and Outreach Officer for the McDonald Institute; Tony Noble, Scientific Director of the McDonald Institute; and Benjamin Tam, a graduate student in the Department of Physics, Engineering Physics and Astronomy.

Queen's and partner institutions launch national research centre

From Page 1

In addition to advancing research into areas such as the mysteries surrounding dark matter and neutrino science, the institute has a mandate for scientific outreach and to develop unique undergraduate and graduate student programming and opportunities.

"The McDonald Institute's extensive research community and availability of funding for undergraduate and graduate students means that students will be able to contribute to the astroparticle physics community and the larger physics community as a whole," says Liz Fletcher, master's student, McDonald Institute. "By fostering of an amazing research environment across all of the McDonald Institute partner institutions, there will be an increase in opportunities for students to get involved, especially at the undergrad level, from summer positions to thesis and independent study projects."

Along with the official launch

and naming, the McDonald Institute also unveiled a new Visitor Centre located in Stirling Hall at Queen's along with a new website. The Visitor Centre will feature a virtual reality setup that will allow guests to travel through space and experience a solar storm. The centre will also have an augmented reality sandbox that will teach guests about gravitational fields in an interactive and tactile manner.

"Centres like the McDonald Institute Visitor Centre can help us better understand the world and learn how scientists like Dr. McDonald and his colleagues are working to bring light to a dark universe and discover answers to its many mysteries," says Dean Barbara Crow. "What is so great about this space is that it makes complex scientific problems and research accessible and understandable for community members, teachers, and students of all ages who are interested in learning more about how the universe works."

For Dr. McDonald, the creation of the institute will enable the continuation of his research and keep Canada and Queen's in a leading position within the field.

"With SNOLAB, Canada has become an international centre for the experimental elements of astroparticle physics," says Dr. McDonald. "Our new institute adds to that strong international capability through the development of a strong personnel component within Canada – it has created a new generation of researchers in this field."

"Additionally, the institute creates an intellectual centre for interaction between theorists and experimentalists on topics at the cutting edge of particle astrophysics. This is already resulting in a number of experiments at the forefront of topics that will help us to understand the world around us and how it has evolved.

"With the institute, I am convinced that this will continue and keep Canada and Queen's as a leader in this area of research."

Distinguished University Professor program to recognize exceptional faculty

BY COMMUNICATIONS STAFF

Queen's University has created a new program to celebrate some of its top internationally recognized researchers. The Distinguished University Professor program was recently approved by the Senate and it will be open to all individuals holding a full-time academic appointment at Queen's.

"The Distinguished University Professor designation is the highest research-related honour the university can bestow on a faculty member whose pre-eminent contributions to research in a particular field of knowledge are recognized both nationally and internationally," says Principal Daniel Woolf. "As a reflection of the highly prestigious nature of the program, the number of awards shall normally be limited to approximately one per cent of those holding academic appointments at Queen's."

A call for nominations will be issued each fall to the university community and a special advisory committee will meet to consider all nominations put forward in the winter. It will then make a recommendation to the principal on which nominees, if any, should be designated as a Distinguished University Professor.

Once a professor has been chosen for the designation, they will then have the opportunity to select from a list of approved honorific names to form part of their official title, which will be styled as "[Honorific Name] Distinguished University Professor." As an example, the professor could then be known as the "Jane Smith Distinguished University Professor."

"The creation of this list of honorific names also creates an opportunity for the university to celebrate people who have made significant and lasting contribu-

tions to Queen's and to Canadian society," says Principal Woolf. "Along with being incredible researchers and educators, many of those up for consideration were also trailblazers who through their work at Queen's and beyond promoted the rights of women, Indigenous Peoples, and racialized people."

A small working group has been created to develop a long list of honorific names and everyone in the Queen's community is invited to submit suggestions, keeping the following criteria in mind:

- Names are intended to reflect a wide variety of academic and personal backgrounds of individuals with a connection to Queen's;
- The individuals should have had a significant impact nationally or internationally in their field of study or work;

- Names shall normally be those of persons who are deceased or who otherwise are at such a stage in their life and career such that their legacy is well-established; and

- Individuals who have already been honoured with the naming of a building on campus will not normally be considered, as the working group feels that the program is an opportunity to recognize those whose contributions have not yet been acknowledged in a prominent way at the university.

Once the list of honorific names is finalized, names can be added or removed over time as it will be reviewed every three to five years. To suggest possible names for the program, send an email to senate@queensu.ca.

The terms of reference for the program, and the membership of the working group, are available on the website of the University Secretariat (queensu.ca/secretariat).

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Honorary degrees recognize exceptional leaders

The presentation of honorary degrees is one of the many traditions of convocation. This spring, seven recipients will be honored during the ceremonies. All recipients were selected by Queen's community members for their contributions to the local community, Canadian society, or the world.

The honorary degree recipients this year include:

Phil Gold
Doctor of Science DSc
Ceremony 2: Thursday, May 24 at 2:30 pm

Phil Gold is the executive director of the Clinical Research Centre of the McGill University Health Centre at the Montreal General Hospital (MGH) and the Douglas G. Cameron Professor of Medicine and Professor of Physiology and Oncology at McGill University. He has served as the Inaugural Director of the Goodman Cancer Centre, Chairman of the Department of Medicine at McGill, and Physician-in-Chief at the MGH.



Dr. Gold's early research led to the discovery and definition of the Carcinoembryonic Antigen (CEA), and the subsequent CEA blood test. In 2006, the Phil Gold Chair in Medicine was inaugurated at McGill University. Dr. Gold was inducted into the Canadian Medical Hall of Fame in 2010, and also received the Life Time Achievement Award from McGill University and the inaugural McGill University Faculty of Medicine Global Achievement Award in 2011.

Dr. Gold has received national and international recognition throughout his career, including the Gairdner Foundation Annual International Award (1978), Medizinische Hochschule, Germany (1978), the Johann-Georg-Zimmerman Prize for Cancer Research (1978), the Isaak Walton Killam Award in Medicine of the Canada Council (1985), the National Can-

cer Institute of Canada R.M. Taylor Medal (1992), the Queen Elizabeth II Jubilee Medal (2002), and many other accolades, including honorary degrees from a number of universities.

Isabel Bassett
Doctor of Laws LLD
Ceremony 5: Friday, May 25 at 4 pm

Professionally, Isabel Bassett was chair and CEO of TVOntario, MPP and Minister of Citizenship, Culture and Recreation for the Government of Ontario, and host and producer of award winning documentaries on CFTO TV, which focused on social issues such as sexual abuse, mental health, and teen gangs.

Now retired, Ms. Bassett is a facilitator using her know-how and connections to work for gender parity. She advocates to get young people more involved in politics and for more diversity on boards and in senior management positions. She is now adding her voice in support of the McMichael Gallery to awaken the public to Canada's little known treasure house of Canadian Art.

Indira Samarasekera
Doctor of Science DSc
Ceremony 12: Thursday, May 31 at 4 pm

Indira Samarasekera served as the 12th president and vice-chancellor of the University of Alberta from 2005 to 2015. She also served as vice-president (Research) at the University of British Columbia from 2000 to 2005. She is currently a senior advisor for Bennett Jones LLP and serves on the Board of Directors of the Bank of Nova Scotia, Magna International, and TransCanada. Dr. Samarasekera was appointed by the prime min-



ister to serve as a federal member to the Independent Advisory Board for Senate Appointments until 2017.

Dr. Samarasekera is internationally recognized as one of Canada's leading metallurgical engineers for her ground-breaking work on process engineering of materials, especially steel processing. Dr. Samarasekera was appointed an Officer of the Order of Canada in 2002 for outstanding contributions to steel process engineering. In 2014, she was elected to the National Academy of Engineering in the U.S., the profession's highest honour.

As a Hays Fulbright Scholar, she earned an MSc from the University of California in 1976 and a PhD in metallurgical engineering from the University of British Columbia in 1980. She has received honorary degrees from the Universities of British Columbia, Toronto, Waterloo, Montreal, and from Western University in Canada, as well as Queen's University in Belfast, Northern Ireland.

Valerie Tarasuk
Doctor of Science DSc
Ceremony 13: Friday, June 1 at 10 am

Valerie Tarasuk is a professor in the Department of Nutritional Sciences and Dalla Lana School of Public Health at the University of Toronto.

Dr. Tarasuk's research includes Canadian food policy and population-level dietary assessment, but much of her career has focused on income-related problems of food access in Canada. She played a pivotal role in the implementation of food insecurity monitoring in Canada and has helped spearhead efforts to use monitoring data to inform programming and policy decisions. Dr. Tarasuk has led PROOF, an interdisciplinary research program investigating household insecurity in Canada,



since 2011. In 2017, Dr. Tarasuk was honored by the Canadian Nutrition Society with the Earle Willard McHenry Award for Distinguished Service in Nutrition.

John Baird
Doctor of Law LLD
Ceremony 14: Friday, June 1 at 2:30 pm

John Baird served as a senior cabinet minister in the Government of Canada. Mr. Baird spent three terms as a Member of Parliament and four years as Minister of Foreign Affairs. He also served as President of the Treasury Board, Minister of the Environment and Infrastructure, and Leader of the Government in the House of Commons. In 2010, he was selected by MPs from all parties as Parliamentarian of the Year. He is currently a senior business advisor with Bennett Jones LLP.

Mr. Baird holds an Honours Bachelor of Arts in Political Studies from Queen's. He volunteers his time with Community Living Ontario, the Prince's Charities, and is a board member of the Friends of Israel Initiative.

Hugh Segal
Doctor of Law LLD
Ceremony 15: Monday, June 4 at 10 am

Now the fifth elected principal of Massey College and a strategic advisor at the law firm of Aird and Berlis, LLP, Hugh Segal has spent his career in such public service roles as the associate Cabinet Secretary (Federal-Provincial Affairs) in Ontario and the chief of staff to the prime minister. In Ontario, he was involved in the negotiations to patriate the Canadian constitution and create the Charter of Rights and Free-



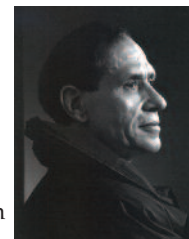
doms. Mr. Segal chaired the Senate Committee on Foreign Affairs and International Trade and the Special Senate Committee on Anti-Terrorism between 2005 and 2014. He served as Canada's special envoy to the Commonwealth and a member of the Commonwealth Eminent Persons Group on reform and modernization, human rights, and rule of law.

A former president of the Institute for Research on Public Policy in Montreal, a senior fellow of the Canadian Institute of Global Affairs, and a distinguished fellow of the Munk School of Global Affairs, the Queen's School of Policy Studies, and the Smith School of Business, Mr. Segal holds honorary doctorates from the Royal Military College of Canada and the University of Ottawa.

Douglas Cardinal
Doctor of Law LLD
Ceremony 21: Wednesday, June 6 at 2:30 pm

Originally from Calgary, Douglas Cardinal's architectural studies at the University of British Columbia took him to Austin, Texas, where he achieved his architectural degree and found his passion for human rights initiatives. Mr. Cardinal has become a forerunner of philosophies of sustainability, green buildings, and ecologically designed community planning.

Mr. Cardinal has received many national and international awards, including 20 honorary doctorates, gold medals of architecture in Canada and Russia, and an award from the United Nations Educational Scientific and Cultural Organization (UNESCO) for best sustainable village. He was also titled an Officer of the Order of Canada, one of the most prestigious awards that can be given to a Canadian, and he was awarded the declaration of 'World Master of Contemporary Architecture' by the International Association of Architects.



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The Faculty of Education welcomed more than 300 new teacher-candidates in the Bachelor of Education and Diploma of Education programs on Wednesday, May 2, the first day for the programs. The new arrivals will spend the next 16 months at Queen's apart from their practicum placements.



Queen's University Faculty of Education

view point

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

A more inclusive, diverse, and welcoming institution

In this column, first published on the Principal's Blog (queensu.ca/connect/principal/), Principal Daniel Woolf reflects on the year that has gone by since the publication of the Principal's Implementation Committee on Racism, Diversity, and Inclusion (PICRDI) final report, and the Truth and Reconciliation Commission (TRC) task force final report.

BY DANIEL WOOLF, PRINCIPAL AND VICE-CHANCELLOR

Just over a year ago, the Principal's Implementation Committee on Racism, Diversity and Inclusion (PICRDI) and the Truth and Reconciliation Commission (TRC) Task Force



presented their final reports about how to make Queen's a more inclusive, diverse, and welcoming institution, and one that also values and reflects Indigenous histories and perspectives. Since then, many people across the institution have been working towards these goals and I'm pleased with the progress we have made so far.

In April, we released the one-year implementation reports for PICRDI and TRC and in the reports you will find very extensive updates on all of the initiatives and projects that have taken place. This first year has focused on building the foundation we need to guide long-term, sustainable change.

Most notably, this includes expanding Deputy Provost Teri Shearer's profile to cover our diversity and inclusion portfolio, establishing the University Council on Anti-Racism and Equity

The long-term change we are striving for will only happen when everyone – students, faculty, staff, and the broader community – is both committed to and engaged in the process, and understands that being a diverse, inclusive and welcoming institution enhances our academic mission, our student experience and our research. We will be a stronger, better Queen's for doing this work.

(UCARE), instituting the Office of Indigenous Initiatives and appointing Kanonhsyonne (Janice Hill) as the first Director of Indigenous Initiatives, as well as having all areas of the university develop and implement their own plans for addressing the TRC and PICRDI recommendations.

We need to continue the dialogue that has begun with all members of the community.

The long-term change we are striving for will only happen when everyone – students, faculty, staff, and the broader community – is both committed to and engaged in the process, and understands that being a diverse, inclusive, and welcoming institution enhances our academic mission, our student experience, and our research. We will be a stronger, better Queen's for doing this work.

There is a saying, "Nothing worth having comes easy." Certainly we believe that having a diverse, inclusive, and welcoming institution is not just worth having, but something we must have. To get there takes a lot of hard work, and we've seen a tremendous effort over the past year.

However, I want to emphasize

that we will not consider our work to be complete once we have 'checked all the boxes' on the lists of recommendations. We must continue to prioritize and work towards these ideals.

New ideas and initiatives will also emerge and be championed from every corner of the university. I encourage you to read the implementation reports to get a better understanding of what we have collectively accomplished.

I thank everyone who has contributed to these initiatives over the past year and those who continue to lead the charge. I look forward to 'year two', using the momentum we have built to create positive change at Queen's.

The Principal's Implementation Committee on Racism, Diversity, and Inclusion (PICRDI) final report, and the Truth and Reconciliation Commission (TRC) task force final report are available at the principal's website (queensu.ca/principal/).

lives lived

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

'Proudest achievements were the works of his students'

BY JAMES STAYER

Klaus Hansen, Professor Emeritus (History), died on March 29, 2018, at the age of 86 from complications of Parkinson's disease at Arbour Heights long-term care facility in Kingston.

He had suffered from this illness in a particularly severe form since October 2015, when he was no longer able to remain at his home with his wife, Joan. He suffered from dementia connected with his illness during his last two years and five months, loyally supported by his wife and four children, Eric, Chris, Evan, and Britt, as well as by his younger brother, Uwe.

In his last years Klaus, although no longer himself a practising Mormon, was preoccupied with his family's connection to the Church of Jesus Christ of Latter-day Saints, which began when his paternal grandmother and several of her children, among them his father Heinrich, were baptized in



Klaus Hansen

the chilly waters of Kiel harbour in the fall of 1917. So Klaus grew up a Mormon in the Third Reich. During the war Klaus and Uwe were evacuated to Ebermannstadt in northern Bavaria to escape Allied bombing, and were soon joined by their mother, Minna Paetau Hansen. When American tanks occupied Ebermannstadt on April 14-15, 1945, Klaus was soon befriended by the Americans. Having already learned English in school, and showing his life-long gift for languages, Klaus was soon acting as a translator. After the German surrender, Mormon connections served the Hansens well. His father Heinrich became a liaison officer between the U.S. military government and local German authorities in three southwest German counties; and Klaus, who accompanied his father to interview for that job, made such an impression with his fluent English (with a perfect American accent) that he was hired on the spot as an office assistant by the American authorities.

Finally, in 1951, the Hansens sailed from Hamburg to New York, got jobs in Syracuse, with the help of a Mormon sponsor, and bought a 1935 Packard for \$100, which they drove to Utah –

the Mormon center that Heinrich had long aspired to reach. Their destination was Provo, the home of Brigham Young University, where Klaus was encouraged to enroll, and directed into jobs to earn money to pay for his tuition. Eventually Klaus's mother got a job as an RN and the three male Hansens worked at Utah State Hospital, Utah's mental institution. Klaus's education was interrupted in 1953, when he was called to the Swiss-Austrian LDS mission. Returning to BYU, he completed a BA, then an MA in history, finishing in August 1959. Meanwhile, he met Joan Patricia Dunn, a native of Rockaway Beach, New York City. Joan had been an Air Force officer, converted to Mormonism, and attended BYU, earning a BA and an MA. They married on Dec. 28, 1959, beginning a marriage of 58 years.

Klaus completed his PhD at Wayne State University, Detroit, in 1963. He taught at Ohio State and Utah State University, before coming to Queen's in 1968, where he taught until his retirement in 1996. He specialized in antebellum U.S. history, and wrote at his retirement that his proudest achievements were "the works of his stu-

dents, who have published on Perry Miller, Emerson and Rousseau, Mormonism and American culture, and the feminism of 19th-century farm women." Klaus taught graduate and undergraduate courses at Queen's, supervised 20 MA theses, and four PhDs. His courses explored the social realities of slavery in the U.S. South before the Civil War, and the wave of religious revivals that spread over western New York State's "Burned-over District" in the early 19th century. Here Klaus was studying the American world from which the Mormons arose. He had ambitions to publish on wider subjects than Mormonism, but in fact his significant published legacy centers on Mormonism – specifically, the Mormon evolution from 19th-century ambitions to set up a Promised Land in the West outside the United States to a vastly successful 20th-century adaptation to American denominationalism.

Klaus's two books, *Quest for Empire: The Political Kingdom of God in Mormon History* (Michigan State University Press, 1964) and *Mormonism and the American Experience* (University of Chicago Press, 1981) are thematically focused on the Council of Fifty, a topic which fas-

inated him ever since he was an undergraduate at BYU in the 1950s, and whose significance was fully validated by the central authorities of the LDS Church only in September 2016 – about a year after Klaus's illness made it impossible for him to continue to write history.

The LDS leadership for a long time obstructed study of the Council of Fifty, locking its records away in 1974 when Klaus was in Salt Lake City, trying to do further research. But this resistance was eventually abandoned. Klaus stimulated an area of Mormon studies in which a good number of historians and theologians interpreted the Council of Fifty from various perspectives. Finally, in September 2016 the First Presidency of the LDS Church opened its past to scholarship by publishing the minutes of the Council of Fifty. Klaus Hansen's career accomplishment is to have pioneered in a previously closed historical subject of major significance.

A Celebration of Life for Dr. Hansen will take place on Saturday, May 26 from 1 to 3 pm at the University Club.

James Stayer is a professor (retired) in the Department of History at Queen's.

Queen's in the news

Highlights of Queen's experts in the media from April 23-May 10

NEWSPAPERS

Kathy Brock (Political Studies, Smith School of Business, School of Policy Studies) told the Guardian UK that connecting Doug Ford to Donald Trump is a false comparison; shared her reactions to the first Ontario leaders debate, as part of a panel of political observers critiquing it for the Ottawa Citizen.



Roel Vertegaal (School of Computing) spoke to The Times UK, saying that his team's TeleHuman 2 hologram system injects missing elements of communication into long-distance conversations that cannot be achieved with a Skype or Face-time video chat.

Bailey Gerrits (Political Studies) spoke about the 'incel' community following the Toronto van attack in articles published by USA Today and National Post. The USA Today article appeared on over 37 local ABC, NBC, CBS and FOX affiliates across the United States. The Canadian Press article appeared in the National Post, Huff Post and CTV News as well as 48 other outlets across Canada.

Louis Delvoie (Centre for International and Defence Policy) had his regular column published by the Whig-Standard, and spoke about the divide between religion and secularism.

Eugene Lang (Smith School of Business, School of Policy Studies) co-authored a Globe and Mail op-ed about Canada's pursuit of a seat on the UN Security Council.

Bruce Parady (Law) was quoted in a National Post column on electricity costs, saying that statutes can over-

ride iron-clad provisions in a contract because that is the nature of legislative supremacy.

Ed Struzik (School of Policy Studies) wrote for the LA Times about the heightened risk of wildfires in California as the Arctic warms.

Jay Engel (School of Medicine, Oncology, Surgery) says in the Kingston Whig-Standard that while chemo and radiation therapy can sometimes get the job done, the main treatment plan for cancer is surgery.

Tim Abray (Political Studies) spoke to the Toronto Star, HuffPost and iPolitics following the crowd-for-hire rally by the provincial Progressive Conservatives.



Chris Simpson (School of Medicine, Division of Cardiology) says overstraining and pain, rather than underlying heart disease, are by far the most common reasons for fainting on the toilet in an article published by Hamilton Spectator.

George Smith (Smith School of Business, School of Policy Studies) says in the National Post that a Teamsters strike against CP Rail would have a domino effect throughout the economy.

Allen Champagne (Neuroscience Graduate Program, Centre for Neuroscience Studies) says in the Kingston Whig-Standard that the objective of his football safety program is to determine what skills players need to improve in order to promote a safer football game, without taking away the integrity of the sport. Also appeared on Global News.

David Lyon (Sociology, Law)

wrote an op-ed for the Globe and Mail and says Cambridge Analytica's dodgy dealings has given the social media anthill and well deserved kick.

ONLINE

Roel Vertegaal (School of Computing) says in Science Daily that in a professional environment his TeleHuman technology will do wonders for attendees looking to address colleagues with eye contact or to more effectively manage turn taking.



Antonio Nicaso (Languages, Literatures and Cultures) says in an article for CBC Online that the Mafia is not just a bunch of criminals – it's a power system.

Anita Jack-Davies (Geography and Planning) wrote a piece for The Conversation about navigating racism on school campuses. The piece also appeared in HuffPost and the National Post.

Lisa Kerr (Law) says in The Lawyer's Daily that judges in sentencing are allowed to think about the social context within which the offence occurred, following an Ontario court decision on bias against black Canadians.

Nicholas Bala (Law) says in The Lawyer's Daily that the prospect of testifying in court can be so uncomfortable and traumatic for children, that many simply stay silent about suffering sexual abuse.

R. David Andrew (School of Medicine, Biomedical and Molecular Sciences) says that a toxin in a certain coral causes brain cells to become 'leaky' and die quickly, in an ar-

ticle by Yahoo! Canada; says palytoxin is probably the most toxic substance known to man in CBC Online.

David Freedman (Law) discusses his views on a recent B.C. court decision on competency in The Lawyer's Daily.

TELEVISION

Roel Vertegaal (School of Computing) spoke to MSNBC about his team's TeleHuman 2 hologram technology.

Tim Abray (Political Studies) spoke to TVO about possible strategies for each major provincial party during the upcoming Ontario election campaign.

Lynda Colgan (Education) spoke with CKWS and the Kingston Whig-Standard about the Science Rendezvous event.



Sharry Aiken (Law) spoke to CTV National Network News about the Canadian government's new measures to deal with irregular migration.

Kathy Brock (Political Studies, Smith School of Business, School of Policy Studies) spoke to CTV National Network News about the candidates ahead of the first Ontario provincial leaders debate; says Kathleen Wynne must not focus all campaign efforts on Doug Ford, since NDP leader Andrea Horwath appears to be making inroads. Her comments appeared in 44 other outlets, including the National Post.

Christian Leuprecht (Political Studies, School of Policy Studies) discusses with Global News the bravery shown by a police officer when it came to arresting the suspect in the

Toronto van attack.

Margaret Biggs (Political Studies, Smith School of Business, School of Policy Studies) says on in an interview with TVO that one of the virtues of having goals that all countries at one point in time agree to, means that those goals endure beyond political cycles.

RADIO

Christian Leuprecht (Political Studies, School of Policy Studies)



says from the video of a police officer arresting the Toronto van attack suspect that it appears the officer is very experienced with stand-offs, in speaking with CBC's The Current with Anna Maria Tremonti and National Post. He also commented that keeping the suspect alive will allow police to build a clearer picture of the suspect's motives. The story also appeared in the Sudbury Star, Regina Leader-Post and MSN News.

MAGAZINES

Geoffrey Hodgetts (School of Medicine, Family Medicine) discussed the Queen's medical residency program relationship with the Falkland Islands in an article for University Affairs.

Bruce Parady (Law) says federal and provincial jurisdictions overlap when it comes to the Trans-Mountain pipeline, in Maclean's Magazine.

Record year for student internships at Queen's

BY COMMUNICATIONS STAFF

With more than 250 students currently on internship, the Queen's University Internship Program, (QUIP), which provides students the opportunity to gain paid work experience and 'test drive' a career choice for 12 or 16 months, continues to grow.

"It's been a record year for Queen's internships," says Chelsea Elliott, Manager of Experiential Learning and Partner Relations at Career Services. "QUIP has more than doubled in size within the past two years alone."

Thomas McRae, a fifth-year engineering student, recently completed an internship at Mercedes-Benz Canada as a materials testing and development intern.



There are currently more than 250 students participating in the Queen's University Internship Program, (QUIP).

He found that working with a company for 12 months was a great way to be exposed to an office environment and be a part of

a team.

"One of my most valuable experiences was being able to see the direct impact of my work,

and producing results based on academic knowledge and engineering judgement gained through three years of education," he says.

The internships have proven to be a win-win experience for students.

"Not only do internships allow students a chance to apply what they're learning in their academic programs to the workplace, they also give them a chance to return to their final year of studies with renewed energy and deeper connection to course materials," Ms. Elliott says.

Aliya Ali agrees. A fifth-year biology student Ms. Ali chose to do her internship in the related field of healthcare at Baycrest Health Sciences. She notes that

her internship greatly benefited her studies upon returning to Queen's.

"During my internship, I had to complete various grant applications which helped me improve my scientific writing style," she says. "Within my first semester of being back, I have found that my assignments in classes are noticeably better developed and written than before I embarked on my internship."

Employers continue to hire from Queen's to tap into a talented pool of students from a diverse array of programs. The 12-16 month model allows for a relatively high return on investment in training.

To learn more about QUIP visit careers.queensu.ca/quip.

Creating exceptional learning opportunities

BY ANDREW CARROLL,
GAZETTE EDITOR

When Erik Knutsen talks about teaching and learning it quickly becomes clear that he is passionate about the topic.

It's one of the reasons he re-designed three Faculty of Law core courses.

For this work and his ongoing efforts to foster active learning and student engagement, Professor Knutsen is the 2018 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.

"Erik Knutsen's dedication to providing students with exceptional learning opportunities is truly inspiring," says Jill Scott, Vice-Provost (Teaching and Learning). "He has purposefully re-designed his courses to ensure that they are engaging, relevant and provide students with the kinds of hands-on experiences and skills they will need in the legal profession. Professor Knutsen is deliberate and purposeful in his use of evidence-based pedagogies and yet he also has the ability to make learning come to life."

The recognition, he says, is humbling considering the number of exceptional educators across the various faculties and departments at Queen's. He also says the work wouldn't have been possible without the "incredible support" he has received from Dean Bill Flanagan, associate deans, fellow faculty members, and Queen's Law students.

In nominating Knutsen for the Chancellor Baillie Teaching Award, Dean Flanagan pointed to



PHOTO BY GREG BLACK

For his work re-designing three Faculty of Law core courses and his ongoing efforts to foster active learning and student engagement, Erik Knutsen is the 2018 recipient of the Chancellor A. Charles Baillie Teaching Award.

the trailblazing role he has taken in an area of study that has long been resistant to change.

"Erik is on the forefront of re-thinking how we can teach law in a way that is more engaging for our students and with better learning outcomes," Dean Flanagan says. "He cares deeply about his students' development and growth, continually finding new and innovative ways to teach them about the law and also professionalism."

In redesigning three core courses in the Faculty of Law, Knutsen tried to place himself in the position of the students with the end goal of providing them with the skills they need to become a lawyer. He then incorporated as much active learning and student engagement as possible throughout each course to help

develop the skills they will need in the workplace.

That meant creating "experiences" for the students.

"So I took all the things I wanted to impart in my courses and thought of them that way, as experiences rather than as didactic learning/information," he says.

Typically, he divides class time into three sections: a limited period of info delivery; an exercise or group work; and time for feedback to discuss the lessons learned.

Take, for instance, selecting an expert witness in a lawsuit, a key skill for a lawyer but one they are unlikely to experience before actually having to do it.

Traditionally, students would read about some recent cases and discuss it in class. That still happens but under the redesign the students are tasked with selecting

an expert witness for a hypothetical case. They are given the CVs of actual expert witnesses and are required to make a selection. Further, they have to defend their expert's qualifications with relevance to the law and the case and explain why they did not choose the other experts.

"As a result, the students walk out of there with a totally different experience than had they read some cases about what happened to somebody else and we talked about the rules and reviewed them. They had to apply it and think about why, and it was made to feel real to them," Knutsen says. "So to me that is taking the learning to a different place. The simple version is I've always told my students you have come here to learn as much as you have come here to have an experience."

This teaching leadership and innovation has extended to other faculties and departments as well, having taught a professional competencies course at the School of Medicine, and contributing to the Faculty of Law's foundational course for Queen's Undergraduate students (Law 201: Introduction to Canadian Law).

He is also a founding member of the teaching team for the Masters of Science in Healthcare Quality program, a two-year interdisciplinary blended/online program on patient safety for midcareer healthcare professionals. The program is a joint effort between the School of Nursing, School of Medicine, Faculty of Law, Smith School of Business, School of Policy Studies, and Faculty of Engineering and Applied Sciences. In addition to serving on the program design and approval team, Knutsen developed and taught the course Law, Risk and Healthcare.

This work, he says, has been immensely rewarding.

"Best thing I ever did. Getting out of your own world, an academic silo setting, and learning how other disciplines, other professors and other students operate has been absolutely invigorating because it forces you to challenge your own assumptions about your own discipline," he explains. "If I meet them halfway and they meet me halfway, it's fantastic because as much as they are learning about a world that they haven't seen before, I am learning about how nursing, medicine, and management operate. It's fascinating and different."

More information about the Chancellor A. Charles Baillie Teaching Award is available on the Centre for Teaching and Learning website queensu.ca/ctl/.

Remarkable women, remarkable achievements

BY PHIL GAUDREAU, SENIOR
COMMUNICATIONS OFFICER

They overcome hurdles and obstacles to their success. They come from near and far, in many cases bringing with them their families and rich life experience.

They use their skills and knowledge to benefit others, including disadvantaged youths, victims of violence, and individuals with physical or mental health challenges.

Above all, they pursue their passions, and they persevere, and on Saturday, April 28 14 female Queen's students were recognized

for their achievements at the annual Ban Righ Foundation for Continuing Education Spring Celebration.

"The Ban Righ Foundation was created to foster women's achievements at Queen's, and each spring we have the opportunity to recognize another group of talented women," says Carole Morrison, Director of the Ban Righ Centre. "Congratulations to all of our award recipients, and a special thank you to those who are improving the lives of women here at Queen's, in Canada, and internationally through their research, work, financial support,

and volunteering."

Among this year's recipients is Alyssa Aiello, who was presented with the Janet Bilton-Holst Award. The award recognizes a woman who goes the extra mile to make the Ban Righ Centre a welcoming place for other students.

Ms. Aiello says the Ban Righ Centre has been a 'second home' during her time at Queen's. Ms. Morrison says that while Alyssa worked as a summer student at the centre, and since that time as a member of the student community, she has helped create that same welcoming environment for many others.

"Alyssa has played an ambassadorial role, introducing many other students to the centre, chatting with new students, and volunteering on many committees and at events," she says. "We are grateful for Alyssa's positive energy and willingness to share her warmth with her peers, and promote the centre as a comfortable inclusive space where students can work and connect."

Ms. Aiello praises the support of the staff, and her mother, as she prepares to start her masters studies in urban and regional planning – her third post-secondary credential.

"My decision to return to post-secondary education was a decision I made with the help of my mother," she says. "I wanted more for myself, and she assured me I could have anything I set my mind to. The support I receive from her, and my family at the Ban Righ Centre, has made a substantial impact on my success at Queen's."

The Ban Righ Foundation was established to support the continuing formal and informal education of women, especially mature women returning to Queen's. To learn more, visit banrighcentre.queensu.ca.

Introducing new faculty members: Ravi Prakash

Ravi Prakash is a new member of the Faculty of Engineering and Applied Science

This profile is part of a series highlighting some of the new faculty members who have recently joined the Queen's community as part of Principal Daniel Woolf's faculty renewal plans, which will see 200 new faculty members hired over the next five years.

Ravi Prakash (Electrical and Computer Engineering) sat down with the *Gazette* to talk about his experience so far. Dr. Prakash is an assistant professor.

BY PHIL GAUDREAU, SENIOR COMMUNICATIONS OFFICER

Why did you decide to teach?

My perspective has always been to solve a research challenge. I feel like I have always been a mentor, even during my undergraduate studies. I was engaged in activities where I could help students in junior years.

When I started my masters and had some teaching assistant responsibilities, I thoroughly enjoyed assisting undergraduates. Everyone has their calling, and it seemed like research and instruction is mine. I have enjoyed it so far – I must be doing something right.

What got you interested in electrical engineering?

I think what attracted me to engineering most was the eagerness to deliberate about real-world challenges, and growing up in resource-limited settings offered an excellent vantage point for that.

When I was doing my bachelor degree in mechanical engineering at IIT Madras, I opted for a minor degree in biomedical engineering and was looking to develop microsystems for biomedical applications. I realized there are more electronics to these systems than mechanics. I had a good background for the transition when it appeared the best possible department to continue research would be electrical and computer engineering.

In my past research, I have de-



PHOTO BY ROB WHELAN

Ravi Prakash is a new member of the Faculty of Engineering and Applied Science, specializing in Electrical and Computer Engineering.

veloped advanced chip technologies for conducting bio-assay and biochemical tests. If you think of any nucleic acid test, for example, you go to a clinical laboratory where they take a blood or other bio-fluid sample, and they do a host of clinical tests using expensive bench-top instruments to identify bacterial, viral, or other kinds of infections.

During my PhD and my NSERC postdoctoral fellowship, I designed molecular diagnostic microchips that did not require such large, expensive clinical equipment, allowing for potential low-cost and point-of-care applications.

What do you hope to achieve in your research?

My research is more focused on physical and chemical sensors now, and less on biomedical devices.

I am looking to create disposable, flexible sensors and soft-wearable devices where a polymer patch on skin can detect analytes such as glucose level,

lactate level, or levels of stress induced hormone cortisol for bio-monitoring applications. Two of my current students are working on cortisol detection in sweat and saliva, and detection of different kinds of enzymes and antibodies using novel label-free organic biosensors, in collaboration with faculty members in Electrical and Computer Engineering, Chemical Engineering, and the Kingston Health Sciences Centre.

There is a health management aspect to monitoring these biomolecular concentration levels, but there are many devices already available to track glucose. What we are trying to do is offer a multitude of tests within the same device through smart, multi-modal sensor integration and implementing new data analytic tools. Let's say you're doing athletic conditioning – these devices could help monitor lactate, pyruvate, glucose levels, measure breathing rate, exhaled air composition and the like. Or we can monitor acute or chronic stress conditions in workplaces, such as the military or healthcare facilities, where chronic stress and associated conditions are a major concern.

I also have some tangential research interests in clean tech energy sources. We are developing bio-supercapacitors with a company in Ottawa which will use a sustainable bio-electrolyte product in small and large footprint energy storage systems. I have recently started working on a geophysical sensing project – which is more of a civil engineering and

environmental engineering domain – but my interest is focused on enhancing near-field sensing methods for testing geomembrane integrity as part of my sensor research.

Are you teaching as well?

I have taught a few technical electives, such as sensors and actuators, and core courses in electronics and digital electronics. This fall, I believe I will be teaching graduate courses in biological signal analysis.

This term, I had a large class with about 270 students, which can be a bit overwhelming administratively. But I love being in the classroom, and I enjoy being in front of the avid learners at Queen's who are both intelligent and willing.

What are you most proud of?

I completed my undergraduate degree at Indian Institute of Technology (IIT) Madras. IITs are world-renowned institutions and, if you have some idea of the population of India, you know the competition to get in is really rigorous. I believe we had about 2 million students take exams per batch. Only a handful – less than 2,500 – are selected. I was ranked around 700th nationwide.

I am also proud of some of the research I led during my PhD. We were developing some superhydrophobic coating for new lab-on-chip tests and other biological assays. At the time, creating such coatings was rather expensive. I connected with a research team in Athens, Greece and worked with them on optimizing a relatively low-cost technique. We

ended up coming up with a very novel way of developing superhydrophobic coatings.

Doing a successful, interdisciplinary project where I was heavily involved gave me a lot of confidence. I was able to combine my various experiences into fruitful research outcomes.

Since that time, I have formed new research collaborations in Greece, as well as some in the U.S. and Germany. I have exceptional collaborations across Canada, particularly in Ontario.

How are you liking Kingston?

I love Kingston. There is so much history in this town...and I call it a town. It's not really a city, is it? Coming from Calgary at least, it seems like a town...but there is so much culture and history here.

I love the Victorian architecture, the limestone buildings and the gorgeous waterfront. I miss hiking though, being in Calgary and near the Rockies, but I am planning to head to Québec City at some point this summer to get some hiking in.

I liked the weather in Kingston last year. This year, not so much.

It's still a transition as my wife transitions her work from Calgary to Kingston – when you leave a city where you have been for eight years, it takes time!

Other than hiking, any hobbies or interests?

I love swimming. I haven't made it to the beach yet but I look forward to checking that off my list.

I enjoy racket sports – tennis outdoors, squash indoors. I also have a 11-month old black Labrador retriever which means a lot of training, walking, and other outdoor activities.

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Faculty Renewal

Principal Daniel Woolf has identified faculty renewal as a high priority for reinvestment by the university in support of the academic mission. The five-year renewal plan will see 200 new faculty hired, which nearly doubles the hiring pace of the past five years.

Faculty renewal supports Queen's commitment to diversity and inclusion by giving the university the opportunity to seek, proactively, representation from equity-seeking groups such as women, people with disabilities, Indigenous Peoples, and racialized individuals. It will also build on Queen's current areas of research strength.



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Expanded space for athletics and recreation

BY PHIL GAUDREAU, SENIOR COMMUNICATIONS OFFICER

Whether you're a fitness enthusiast, an intramural participant, or a varsity Gael, Athletics and Recreation hopes to see you in the Innovation and Wellness Centre (IWC) this fall.

"The IWC will be a hub where every aspect of campus life intersects, blending academic and wellness spaces and emphasizing the links between physical and mental health and academic success," says Benoit-Antoine Bacon, Provost and Vice-Principal (Academic). "When completed, the project will be a signature building for Queen's and a powerful catalyst for growth and change in the lives of our students."

When the former Physical Education Centre was closed for construction in 2016, there were three gyms located inside. Once construction on the IWC is complete, two of the gyms will be re-opened, and the third will have been moved to the lower level.



When it opens in Fall 2018, the Innovation and Wellness Centre will offer three gyms, as well as the High Performance Training Centre.

"The IWC's opening will mean hundreds of additional hours of participation opportunities that will benefit all of our programs, from casual recreation and intramurals to varsity sports and community partners," says Leslie Dal Cin, Executive Director, Athletics and Recreation. "The new facilities will open up space in the Athletics and Recreation Centre (ARC), al-

lowing us to provide additional programming and equipment to accommodate ever-increasing interest and demand from our entire campus community."

The IWC will also be home to a high performance training centre for varsity athletes. This state-of-the-art resource, which will open in January 2019, will provide student-athletes with cutting-edge

equipment and technology, including a turf area and weight room, on-site coaching, and an efficient and productive training environment.

The centre will include a 4,000-square foot weight room, a medicine ball power development wall to be used for throwing and catching drills, and a 35-metre turf area for movement, conditioning, and skills development.

"The combination of facilities, equipment, and dedicated strength and conditioning programming in the High Performance Training Centre will allow us to create a unique training environment for our student-athletes," says Ms. Dal Cin. "Moving the athletes out of the ARC will increase the availability of weights and other equipment for all students looking to work out and get active."

Rounding out the Athletics and Recreation facilities in the IWC, visitors will also enjoy an active staircase that encourages stair usage, universal change rooms, and

student-athlete support offices.

Collectively, the three gymnasiums and training centre will be known as 'ARC South.' The facility will be linked to the ARC through an underground passageway.

Co-located with the new Athletic and Recreation facilities in the IWC are other wellness services, student life programs, and academic spaces. Placing all of these services under one roof reflects the connection between wellness, the student experience, and student success.

The Innovation and Wellness Centre will be officially opening during the 2018/19 academic year, and a grand opening is being planned for this fall. Follow the centre's progress via queensu.ca/connect/innovationandwellness/.

The creation of the IWC was made possible through \$55 million in philanthropic support, including \$40 million to revitalize the facility. In addition, the federal and Ontario governments contributed a combined total of nearly \$22 million to this facility.



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Navigating racism: Black graduate students need support

This article was originally published on *The Conversation*. Read the original article at theconversation.ca.



BY ANITA JACK-DAVIES,
DEPARTMENT OF GEOGRAPHY
AND PLANNING

I have mixed feelings about my experiences in graduate school. As a Black, first-generation Canadian and the first in my family to become a doctoral student, I did not understand the culture of the academy. If I knew then what I know now as an adjunct professor teaching part time, I might have made different choices.

Last year, CBC's *The Current* explored the topic of equity in Canadian graduate programs. The show, "Black PhD students call out inequity in Canadian academia" featured the experiences of doctoral students, Huda Hassan from the University of Toronto and Sam Teckle, from York University.

Both students shared experiences of racism and exclusion.

In fact, what prompted the discussion was a tweet from Hassan that offered to personally help Black students applying to grad school with their entrance essays. Her tweet was shared approximately 2,500 times. The story never left me. That same day, I along with many others reached out to Hassan to share my thoughts with her.

Almost a year later, I wonder if media coverage of the issue of racism and a lack of mentors for Black graduate students has prompted any systemic change in the academy?

I wonder if an ethic of care might support Black and other marginalized students who are struggling with getting into the academy, staying the course and graduating.

Philosopher of education scholar Nel Noddings describes an ethic of care as that which a parent would use towards their own children.

Educators must always ask ourselves, "would I make this decision in this way if this were my child?"

Often, graduate programs lack formal initiatives to nurture and support marginalized students. Academic programs, with built-in support systems for first generation immigrant graduate students,



Some university students express their surprise when they participate in a course taught by a Black professor.

are critical to their success.

Other-mothering

In 2007, I was accepted into a PhD program at a Canadian university. At the time, I had little knowledge of the new and intricate world that I was embarking into.

I was the first in my family to study at the doctoral level and the first to obtain a PhD degree. My family in Trinidad wore my doctoral-student status with pride and supported me.

However, as a first-generation student, I needed support beyond the confines of my relationship with my thesis supervisor. I needed to belong to a community that would encourage me as I fulfilled key requirements of the program. These requirements included: the completion of coursework, writing the Comprehensive Exam, getting through the ethics process, collecting data, writing the dissertation and defending it.

While my thesis supervisor offered invaluable guidance about my writing and about my dissertation, I longed for something much more culturally familiar. I needed the support of other-mothers in and out of the academy.

Other-mothering can be described as the practice of raising children who are not one's own. Borne out of kinship practices in Africa, other-mothering is highly valued in African American communities, the Caribbean and the African diaspora. The African proverb, "it takes a village to raise a child" captures its spirit.

In higher education, the idea of other-mothering is to move be-

"I needed to share what it felt like to be the only Black woman in my building, in my classes, the cafeteria, parking lot, graduate lounge, lecture halls and countless other spaces where my Blackness froze in the icy waters of the ivory tower."

yond the standard curriculum to ensure the personal and academic success of students. However, other-mothering is different from a mentor-mentee relationship.

The care that other-mothers provide may even extend beyond the university campus, to include community members who build relationships with students as they work towards their academic goals.

Other-mothering on campus

In a study on faculty-student engagement at historically Black colleges and universities, education scholar Alonzo M. Flowers and his team found that faculty members who engaged in other-mothering practices consistently used an ethic of care with African American students. They forged positive interactions with students outside of the classroom and mentored students to ensure their academic success.

African American students in the study also emphasized that other-mothering and an ethic of care resulted in feelings of increased connectivity to the campus community, to being academically challenged and to feeling supported in their academic pursuits.

At times, I required the support of an academic other-mother who could remove the veil that shrouded so many of the policies and practices that governed my program. I needed to speak to someone who would keep our exchanges confidential. I needed to ask questions about my future job prospects or to share my experiences of being a mature doctoral student with responsibilities to my partner and new child.

I needed to share what it felt like to be the only Black woman in my building, in my classes, the cafeteria, parking lot, graduate lounge, lecture halls and countless other spaces where my Blackness froze in the icy waters of the ivory tower.

And while I did receive support by reaching out to supportive faculty members in departments across the campus, Canadian doctoral programs must recognize the cultural importance of other-mothering to students from cultures that rely heavily on extended kinship networks for support, guidance and reassurance.

An other-mother would have been helpful to explain those unwritten rules, or the hidden curriculum of the academy, that are critical to a doctoral student's future. For example, there was little discussion about criteria used when choosing a dissertation adviser, the importance of choosing members of a dissertation committee or how to tackle the dissertation itself. Everything seemed steeped in secrecy and subjectivity.

The research ethics process had "rules" that were applied differently to different students. Often, I

discovered what I needed to know just before the event occurred. I found graduate school detached and unconnected from the larger picture that had meaning for my life and my career.

And while I was responsible for ensuring my success in grad school, and I took that responsibility seriously, the development of an academic culture that normalizes other-mothering practices — aimed at nurturing racialized and under-represented students — will reduce the alienation of the first-generation experience, especially when the student is "the only one" or one of few.

Cultural capital & the academy

My graduate program prepared me well to be a scholar. I hope to make this clear. However, some students enter graduate programs with the cultural capital to expertly navigate the academy. This cultural capital will impact how such students forge relationships with faculty members and their ability to work on important research projects.

These practices, along with a strong record of publishing, ensures that the doctoral student will be on the right track in the pursuit of a tenure-track position after graduation. And while many undergraduate programs in Canadian universities focus their attention on reducing the attrition rates of first-generation students, the same effort is not being applied to doctoral programs.

In her book, *Starting at Home*, Nel Noddings asserts that all people "want to be cared for." This rings more true in spaces where Blackness is not expected to be. This rings true in the academy where I was often unrecognized as a "doctoral student" or mistaken for everything but who I was, a PhD candidate.

In the academy, Blackness is often read using a discourse of "surprise."

In his essay "I've never had a Black teacher before," Carl James, professor of education at York University shares how students were surprised that he was the professor of his course.

This discourse of surprise is often accompanied by micro-aggression, micro-insults and micro-invalidations that I endured throughout my program.

Black and under-represented students must be equipped to face the challenges inherent in any doctoral program. They must believe that they possess the resilience and fortitude to overcome them, as well as to thrive.

I wonder if Canadian doctoral programs are ready to start the difficult conversations necessary to make this vision a reality.

SHUTTERSTOCK

Capturing the creativity of research

BY COMMUNIATIONS STAFF

If you take a quiet stroll across the Queen's campus, you might find it hard to visualize what's going on inside our many buildings when it comes to research. And this is where the Art of Research photo contest comes in. The annual contest invites researchers in all faculties to submit striking images of their research in action. This year's contest had dozens of submissions, each capturing a unique aspect of the researcher's work. From a Mars rover to a moment of resistance, the winners of the photo contest showcased their research in creative and interesting images, demonstrating the importance of their work at the local, national and international levels.

The 2017-2018 contest had a slightly different format, allowing entries from faculty, staff, students and alumni. Images were submitted to four categories: Community Collaborations, Invisible Discoveries, Out in the Field, and Art in Action. Prizes were awarded to the top photo in each category, as well as in two other categories: Best Description and People's Choice. Winners were selected by a panel of judges, and the People's Choice winner was determined by an online vote from the Queen's community.

"Each year we are excited and often surprised by the images that are submitted. Each photo captures a unique perspective and together they contribute to peoples' overall understanding and appreciation of the scope and the quality of the research being carried out here at Queen's and around the world," says Melinda Knox, Associate Director, Research Profile and Initiatives.

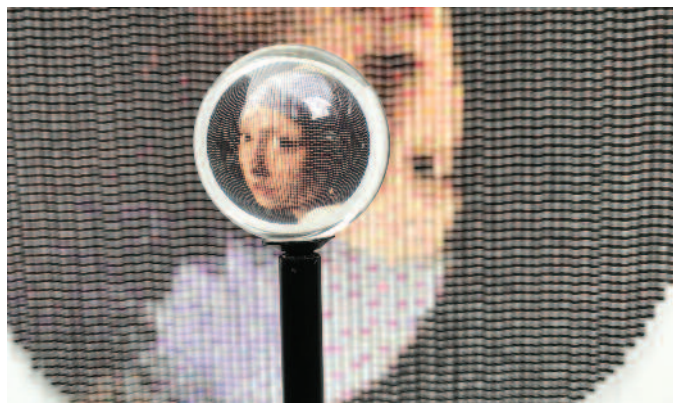
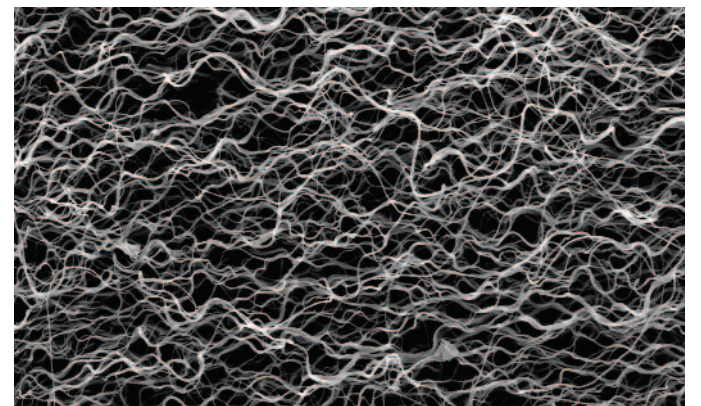


Best Description - Inside Concord Floral - Isabel Bader Centre for the Performing Arts, Kingston, ON, Naseem Loloie (Undergraduate student, Dan School of Drama and Music): Under the heat of the lights, covered in a stranger's clothes, surrounded by the sights and sounds of the stage – this is when the actor's transformation comes to life. During Theatre Kingston's production of Jordan Tannahill's *Concord Floral*, the audience and actors are seated inside an abandoned greenhouse – or at least, a stage mimicking a greenhouse through set design by Sean Mulcahy and lighting by Jennifer Lennon. As both an actor and an assistant director in this production, Naseem's research focuses on costume, lighting, set and staging and their transformative effects on the actor's experience as they become a character.



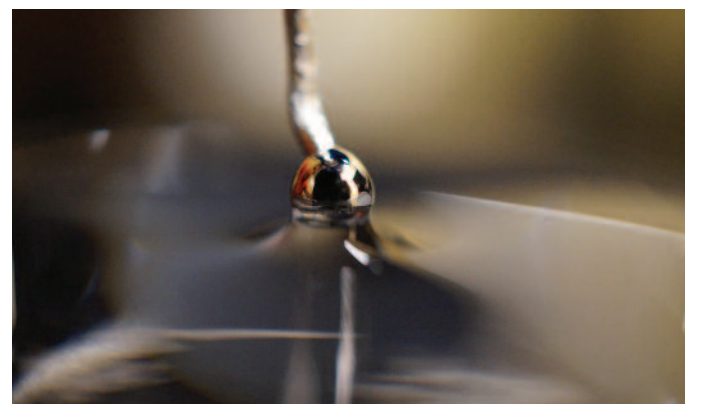
Community Collaborations - Exploring Worlds at Home - Mars Desert Research Station, Utah, James Xie (Undergraduate student, Engineering Chemistry): The Queen's Space Engineering Team constructs a Mars rover each year to compete at the international University Rover Challenge in Utah. QSET brings together over 40 students from engineering, science, commerce and the arts to design, build and operate the rover. The rover can autonomously navigate treacherous landscapes, collect geological data, analyze samples and remotely operate machinery. It can be seen here gazing out into the Utah desert. The rover is a culmination of countless hours of volunteer work and generous support from both Queen's and industry partners. The team was proud to be the top team in Canada at the 2017 competition.

People's Choice - Biomimetic Scaffolds - Dupuis Hall, Queen's University, Fei Chen (Staff, Chemical Engineering): The Anterior Cruciate Ligament (ACL) of the knee joint, one of the strongest ligaments of the body, is also the target of traumatic injuries. Once injured, its healing potential is limited. The ACL mainly consists of packed and thick collagen fibres oriented along the long axis in a wavy pattern, and this unique wavy pattern is essential for providing load-bearing protection to the knee joint. This SEM image shows a bioengineered fibrous scaffold made from synthetic biomaterials with a wavy pattern, with amplitudes and wavelengths similar to the collagen fibers present in a native ACL.



Art in Action - Unspooling Vermeer - Kimmel Center, Philadelphia PA, USA, Stephanie Dickey (Faculty, Art History and Art Conservation): Wherever I go, I look for evidence of how the historical art I study impacts visual culture today. In "After Vermeer 2," an installation from 2006 by New York artist Devorah Sperber, 5024 spools of thread strung on steel chains recreate, upside down, the famous "Girl with a Pearl Earring" painted by Dutch artist Johannes Vermeer around 1665. My photo captures the viewer's experience of looking through a glass sphere in which the image rights itself. Vermeer, whose paintings explored both optics and female experience, would surely have appreciated this perceptive transformation of his art.

Invisible Discoveries - Platinum Surface Electrochemistry - Queen's Department of Chemistry, Derek Esau (PhD student, Chemistry): The single crystal of platinum gently hangs atop an electrolyte surface. Electrochemistry is a surface-sensitive field of research, as the composition and atomic arrangement of the electrode drastically affect its properties. Atoms in a single crystal are highly ordered, and we are able to cut and polish a crystal in such a way that we only expose one of the many possible surface arrangements. The single crystal electrode is balanced on the surface of the electrolyte to ensure that only the polished surface is exposed. These experiments give us fundamental information about electrochemical reactions, which are integral to the field of clean energy.



Out in the Field - Landscapes of Resistance - Lote Ocho, Izaabal, Guatemala, Alexandra Pedersen (PhD student, Geography and Planning): As a feminist/activist geographer, much of my doctoral research has concentrated on Indigenous and non-Indigenous communal experiences of violent development in Guatemala. An emblematic case of community conflict with, and resistance to, transnational corporate interests comes from the remote community of Lote Ocho. There, Irma Yolanda Choc Cac (pictured here) is one of eleven Indigenous Q'eqchi' Maya women pursuing a civil court case against the Canadian mining company HudBay Minerals for sexual assaults allegedly committed during a violent eviction of her community from their ancestral lands in 2007.

spring convocation

Ceremony 1: Thursday, May 24 at 10 am - Participating programs: Education - Undergraduate Programs. Grant Hall

Ceremony 2: Thursday, May 24 at 2:30 pm - School of Graduate Studies, School of Medicine, School of Nursing
Honorary Degree Recipient – Phil Gold, DSc. Grant Hall

Ceremony 3: Friday, May 25 at 10 am - Smith School of Business, School of Graduate Studies - Participating programs: Management; MBA - Americas; MBA - Executive; Education - Graduate Programs. Grant Hall

Ceremony 4: Friday, May 25 at 1 pm - Smith School of Business - Participating programs: MBA - Queen's; Accelerated. Grant Hall

Ceremony 5: Friday, May 25 at 4 pm - School of Graduate Studies, Smith School of Business - Participating programs: MFIN, MIB, MMA, MMIE, GDB, MPA, MIR. **Honorary Degree Recipient** – Isabel Bassett, LLD. Grant Hall

Ceremony 6: Tuesday, May 29 at 10 am - School of Graduate Studies, Faculty of Arts and Science - Participating programs: Biochemistry, Life Sciences. Athletics and Recreation Centre (ARC)

Ceremony 7: Tuesday, May 29 at 2:30 pm - Smith School of Business - Participating programs: Commerce. Athletics and Recreation Centre (ARC)

Ceremony 8: Wednesday, May 30 at 10 am - School of Graduate Studies, Faculty of Arts and Science - Participating programs: Anatomy & Cell Biology; Anatomical Sciences; Biomedical & Molecular Sciences; Chemistry; Computing; Epidemiology; Medicine; Microbiology & Immunology; Neuroscience; Pathology; Pediatrics; Pharmacology & Toxicology; Physiology; Public Health Sciences. Grant Hall

Ceremony 9: Wednesday, May 30 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science
Participating programs: Biology; Physics; Physics, Engineering Physics, and Astronomy. Grant Hall

Ceremony 10: Thursday, May 31 at 10 am - School of Graduate Studies, Faculty of Engineering and Applied Science - Participating programs: Chemical Engineering, Engineering Chemistry, Geological Engineering; Mathematics and Engineering; Mining Engineering, GCCRE. Grant Hall

Ceremony 11: Thursday, May 31 at 1 pm - School of Graduate Studies, Faculty of Engineering and Applied Science - Participating programs: Electrical and Computer Engineering; Engineering Physics. Grant Hall

Ceremony 12: Thursday, May 31 at 4 pm - School of Graduate Studies, Faculty of Engineering and Applied Science - Participating programs: Design and Manufacturing; Engineering - Civil, Mechanical; Mechanical and Materials Engineering

Honorary Degree Recipient – Indira Vasanti Samarasekera, DSc. Grant Hall

Ceremony 13: Friday, June 1 at 10 am - School of Graduate Studies, Faculty of Arts and Science - Participating programs: Kinesiology and Health Studies; Physical and Health Education
Honorary Degree Recipient – Valerie Tarasuk, DSc. Grant Hall

Ceremony 14: Friday, June 1 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science - Participating programs: Economics; French Studies; Indigenous Studies; Languages, Literatures and Cultures; Risk Policy and Regulation. **Honorary Degree Recipient** – John Russell Baird, LLD. Grant Hall

Ceremony 15: Monday, June 4 at 10 am - School of Graduate Studies, Faculty of Arts and Science - Participating programs: Aging and Health; Classics; Occupational Therapy; Physical Therapy; Political Studies; Rehabilitation Science. **Honorary Degree Recipient** – Hugh David Segal, LLD. Grant Hall

Ceremony 16: Monday, June 4 at 2:30 pm - School of Graduate Studies, Faculty of Arts and Science
Participating programs: English Language and Literature; History; Jewish Studies; Medieval Studies. Grant Hall

Ceremony 17: Tuesday, June 5 at 10 am - School of Graduate Studies, Faculty of Arts and Science
Participating programs: Cultural Studies; Drama; Film and Media; Music; Philosophy; Religious Studies; Stage and Screen Studies. Grant Hall

Ceremony 18: Tuesday, June 5 at 1 pm - School of Graduate Studies, Faculty of Arts and Science
Participating programs: Art History and Art Conservation; Art Leadership and Arts Management; Fine Art; Psychology. Grant Hall

Ceremony 19: Tuesday, June 5 at 4 pm - School of Graduate Studies, Faculty of Arts and Science
Participating programs: Environmental Studies; Geography; Geological

Sciences and Geological Engineering; Geology; Mathematics and Statistics; Urban and Regional Planning. Grant Hall

Ceremony 20: Wednesday, June 6 at 10 am - School of Graduate Studies, Faculty of Arts and Science.
Participating programs: Gender Studies, Global Development Studies; Sociology Grant Hall

Ceremony 21: Wednesday, June 6 at 2:30 pm - School of Graduate Studies, Faculty of Law. **Honorary Degree Recipient** – Douglas Cardinal, LLD. Grant Hall

ACROSS

- 1 Deli counter purchase
- 5 Two eating utensils in one
- 10 Bagful of Halloween candy, e.g.
- 14 Consumer watchdog: abbr.
- 17 2014 TV retiree
- 18 Pale
- 19 Dull pain
- 20 Charlotte of "The Facts of Life"
- 21 Or: Ger.
- 22 She had Fay's role in 2005's "King Kong"
- 23 Lazy one
- 25 Mewled
- 27 Downs and Lofting
- 29 Connects with
- 30 Nerd of the '40s
- 32 Whatnot feature
- 34 Works hard
- 37 Files
- 41 Elder and alder

- 43 Verbal indiscretion
- 44 Gotham subway line: abbr.
- 45 Backstreet Boys' rivals
- 47 Stewart ex Ekland
- 49 "___ Yankee Doodle Dandy"
- 50 "Toby Tyler" author
- 52 Snap-on products
- 54 Natives of Bonn
- 56 Hip kerchief
- 58 Roam
- 59 Walking ___ (elated)
- 60 Guarantee
- 62 Daybed
- 64 Greek letter
- 68 Birthmark
- 70 Once, once
- 72 Hands (out)
- 73 Moves out of
- 76 Helicopter blade
- 78 Tom's wife before Katie and Nicole
- 79 ___-Magnon
- 80 Playful trick
- 83 Matt of "We Bought a Zoo"
- 85 Truck-making inits.
- 86 The Mounties: abbr.
- 88 Physicist Nikola
- 90 Condiments
- 92 Absorb
- 94 Fended off dehydration
- 96 Word sung while drinking champagne
- 97 Neeson or O'Flaherty
- 99 Farewell, to Colette
- 101 ___ Mountains of Pennsylvania
- 105 Fester
- 108 Norman who created Neuman
- 110 Walked
- 111 Small whale
- 112 Trade
- 113 An archangel
- 114 Numerical prefix
- 115 July color
- 116 Bubbly drink
- 117 Cabbage variety

- 118 Football game shouts
- ### DOWN
- 1 Unhygienic one
 - 2 Castor's ma
 - 3 From the top
 - 4 Wells's "War of the ___"
 - 5 Grittiest
 - 6 Editor's column filler: abbr.
 - 7 Klutz's exclamation
 - 8 Joel Chandler Harris character
 - 9 Chess piece
 - 10 Nagging parent, to an eye-rolling teen
 - 11 Site of many knee injuries: abbr.
 - 12 "No sir!"
 - 13 Authorized
 - 14 South American capital
 - 15 Prevent
 - 16 Boudoir furniture
 - 24 Sporty Pontiacs of the '60s
 - 26 Joyce's home

- 28 Sage, e.g.
- 31 Jo Jo Dancer portrayer
- 33 Make believe
- 35 Represent in drawing
- 36 Bath and Ems
- 37 Electronic component
- 38 QB Kyle of the Broncos
- 39 Mixes
- 40 Hair nets
- 42 Take without permission
- 46 Roman 156
- 48 Common chord
- 51 Finnish hangout
- 53 Break off
- 55 1983 Michael Keaton film
- 57 Actress Scacchi
- 59 GM communications option
- 61 Olympic unit
- 63 Yankees #13, to fans
- 65 Role for Loughton in 1935
- 66 "Silence of the Lambs" director
- 67 Japanese sports shoe company
- 69 ¿Cómo está ___?
- 71 Reference library behemoths
- 73 Precursors to DVD players
- 74 Mobil competitor
- 75 Quibble
- 77 Chubby
- 81 Nazarene, e.g.
- 82 Suited up
- 84 Singer Martini
- 87 "Kiss of the Spider Woman" author
- 89 Antagonism
- 91 Zone, to the military
- 93 Bearcat
- 95 Knightley of "Everest"
- 98 Actress Questel et al.
- 100 Inst. of higher learning
- 102 Shamu, e.g.
- 103 Chris of "Law & Order"
- 104 Seraglio sections
- 105 2003 retiree
- 106 Sally Lunn accompaniment
- 107 Create edging
- 109 The earth: prefix

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Five new exhibitions usher in Spring/Summer season

BY COMMUNICATIONS STAFF

The Agnes Etherington Art Centre launched its Spring/Summer season on Friday, April 27, with the introduction of five new exhibitions.

Attendees were able to view each of the newly-arrived exhibitions – Chris Kline and Yam Lau: Weave; Gabrielle Kilian Sims: Hook; Artists at Work: Picturing Practice in the European Tradition; The Art of African Ivory; and the much-anticipated Charles F. Gibson: Events of a Military Life in Kingston.

“Our season launch brings artists, curators and art lovers together to celebrate and savour the great visual and media art of our time along with treasures of the past,” says Agnes Director Jan Allen. “This spring, we are highlighting recent acquisitions, and five deeply original new shows, including a fresh installation of the Lang Collection of African Art.”

FEATURE EXHIBITIONS

Chris Kline and Yam Lau: Weave
Canadian artists Chris Kline and Yam Lau present Weave, a two-person exhibition that reflects precise involvement in the fields of force of materials. The artists’ respective works find surprising affinities: Kline’s tender and rigorous hand-coloured paintings contrast with Lau’s gliding cinematic movements through simulated space, while both artists are intimately involved with the entanglement of idea and substance, being and becoming, memory and form, especially as woven through or across screens.

Artists at Work: Picturing Practice in the European Tradition

For the early modern artist of 17th- and 18th-century Europe, the studio was the site of the vital study, creative exercise and network cultivation that fostered professional success. The relics of these practices are on display in Artists at Work: Picturing Practice in the European Tradition as a celebration of the physical and intellectual pursuit of creativity. From images of the studio to portraits meant to promote the artist’s reputation, the works in this exhibition have been assembled to describe the process of the early modern European artist and reflect the continuation of this tradition into Canadian conventions. Featured artists include Jacques Philippe Le Bas, William Etty, Baldassare Franceschini, Antonio Gabbiani,



Aert de Gelder, *The Artist's Studio*, around 1710–1715, oil on canvas. Gift of Alfred and Isabel Bader, 2015 (58-010).



Gabrielle Sims, *Hook*, 2014, charcoal on paper. Collection of the artist.

Aert de Gelder, Ludovico Gimignani, Willem Horst, Ignaz Sebastian Klauber, Bill Roff, William Sawyer, and Abraham Susenier.

Gabrielle Kilian Sims: Hook
This exhibition gathers a poignant selection of Gabrielle Kilian Sims’s recent drawings. Figurative works in charcoal and ink, they are charged with the anguish of grief and explore the feelings of dread, outrage and tenderness compelled by conditions of entanglement and loss. A Kingston resident, her art has been exhibited in Canada, United States, Europe and Qatar and is held in public collections including the Canada Council Art Bank.

The Art of African Ivory

Africans have traded raw and carved ivory for centuries. Its lustrous sheen makes it desirable, as does the brute majesty of its source: Africa is home to the world’s largest elephants. Across continents, ivory objects are used in rituals—rites of prestige and pageantry rolled into one. Desired by a range of bodies—political, social, medicinal, religious—ivory sparks discussion of history and



Lega Artist, Democratic Republic of the Congo, ivory. Gift of Justin and Elisabeth Lang, 1984 (M84-017)

debates about ecological and wildlife preservation. This exhibition showcases works donated by Justin and Elisabeth Lang. Visitors will discover how Africans have used ivory to teach morality, convey social standing, heal wounds, safeguard communities and commercially profit.

Charles F. Gibson: Events of a Military Life in Kingston

While stationed in Kingston as an Ensign in 1831-1833, Charles Frederick Gibson painted the landscape and activities around him. This exhibition features his Kingston watercolours and drawings, alongside works by other contemporary artists, such as Lt. Edward Charles Frome, Sir Richard Henry Bonnycastle and Harriet Dobbs Cartwright. Through Gibson’s eyes, we experience Kingston of the 1830s, as events of a military life unfold, both quotidian and monumental: from painting and sketching, to disease and ill-health, to the construction of the Rideau Canal and re-building of Fort Henry.

For more information visit the website for the Agnes Etherington Art Centre (agnes.queensu.ca).

through the lens



Eliane Findley, *(un)breakable*

An (un)titled exhibition

BY COMMUNICATIONS STAFF

Ontario Hall was filled with the artwork of the Bachelor of Fine Art (BFA) program graduating class, transforming the stalwart century-old building into an art gallery for a week.

A total of 19 graduating students have staged their pieces throughout the building for *(un)titled*, with each having their own exhibition space. The pieces ranged from large canvas paintings to small sculptures to multimedia installations filling an entire room.

For the artists it is an opportunity to stage their own exhibition, bringing together the experiences they have gathered over their years at Queen’s, says Leigha Stiles one of the student co-chairs of the event.

“There’s a sense of pride in our program and what we’ve accomplished this year, and for all four years I have been here,” she

says, standing amongst her wearable sculptures. “It’s very exciting but also sad in a way since (our time at Queen’s and in the program) is ending.”

Each student’s exhibition displays a research-based body of work that they have devoted an entire academic year to, points out Alejandro Arauz, Lecturer and exhibition liaison for the BFA program.

“If you look at the individual works there is an interesting array of relevant, present and past issues that are elaborated upon through visual art,” he says, adding that he is impressed by the students’ overall efforts in coming together to prepare for the show as well as the high standard in their individual practices. “The works that they make contribute to various discourses and human understanding. It’s like a thesis paper except here it’s a visual thesis contribution.”



Alyssa Dantes, *(un)censored*

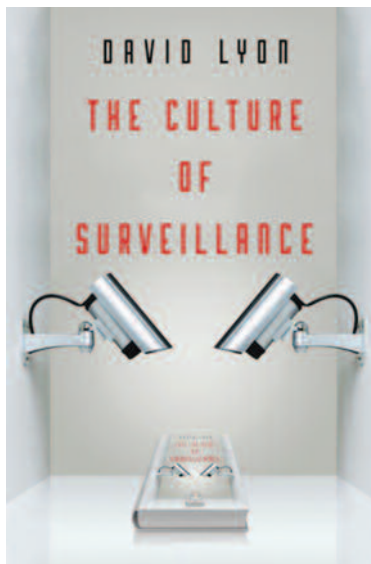
books

The Culture of Surveillance: Watching as a Way of Life By David Lyon (Sociology)

From 9/11 to the Snowden leaks, stories about surveillance increasingly dominate the headlines. But security and police agencies or internet and phone companies are not the only players. Surveillance is not only 'done to us' – it is something we do in everyday life. We submit to surveillance, believing that 'we have nothing to hide.' Or we try to protect our privacy or negotiate the terms under which others have access to our data.

At the same time, we participate in surveillance in order to supervise children, monitor other road users, and safeguard our property. Social media allows us to keep tabs on others, including complete strangers, as well as on ourselves. This is the culture of surveillance. Watching has become a way of life.

This important new book explores the imaginaries and practices of everyday surveillance, at work, at play, in school, at home, in both 'public' and 'private' domains. Its main focus is not high-tech, organized surveillance operations but our varied, often emotional, mundane experiences of surveillance that



range from the casual and careless to the focused and intentional.

Surveillance culture, David Lyon argues, is not detached from the surveillance state, society and economy. It is informed by them.

He reveals how the culture of surveillance may help to domesticate and naturalize surveillance of unwelcome kinds, weighing which kinds of surveillance might be fostered for the common good and human flourishing.

for the record

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 Archivist Members; Article 32.6 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).

ANNOUNCEMENTS

Craig Jury Memorial Summer Studentship in Cancer Research recipients announced

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

This endowment fund was established in 2005 through a gift from Erma Jury (Arts 1963), 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 at Queen's University.

Thanks to funds from the Estate of Franklin Clayton Weaver, QCRI was able to offer an additional Craig Jury Memorial Summer Studentship in Cancer Research.

Congratulations to the four recipients in the Division of Cancer Biology & Genetics (CBG) in QCRI:

Carrie Wei, a third-year BSCh Life Science student under the direction

of Dr. Lois Mulligan (project title: "Intracellular movement of multiple endocrine neoplasia type 2 (MEN2) RET proteins in human cancer").

Zier Zhou, a second-year BSCh Life Science student under the direction of Dr. Neil Renwick (project title: "Analyzing microRNA expression data from neuroendocrine and control tumours from various anatomic sites").

Isabelle Grenier-Pleau, a fourth-year BSCh Arts and Science (Biochemistry) student under the direction of Dr. Sheela Abraham (project title: "Assessing biomarkers for Chronic Myeloid Leukaemia").

Jack Yao, a third-year BSCh Arts and Science (Biochemistry) student under the direction of Dr. Andrew Craig (project title: "Defining targets of tumor suppressor microRNAs in malignant melanoma").

human resources

Job postings

Full details regarding job postings can be found at queensu.ca/humanresources/careers.

Competition Number: J0418-0846

Position Title: Manager, Finance Department: Awards

Salary: \$62,922

Grade: 9

Job Type: Permanent (Continuing)

Closing Date: May 22

Competition Number: J0418-0728

Position Title: Coordinator, International Agreements and Partnerships

Department: Associate VP International

Salary: \$58,454

Grade: 8

Job Type: Permanent (Continuing)

Closing Date: May 21

Competition Number: J0418-1277

Position Title: Director, Queen's University International Centre

Department: Queen's University International Centre

Grade: 10

Job Type: Permanent (Continuing)

Closing Date: May 22

Successful Candidates

Job Title: Cancer Research Study Coordinator

Department: Canadian Cancer Trials Group

Competition: J0617-1075

Successful Candidate: Constance Laroche-Lefebvre

Job Title: Student Development Coordinator (USW Local 2010)

Department: Student Experience Office

Competition: J0118-0237

Successful Candidate: Sara Ali

Job Title: Postgraduate Program Coordinator

Department: Department of Surgery

Competition: J0218-0851

Successful Candidate: Nicole de Smidt (Department of Surgery)

Job Title: Business Manager

Department: University Secretariat and Legal Counsel

Competition: J0118-0075

Successful Candidate: Suzan Moase (Associate VP International)

Job Title: Caretaker (CUPE Local 229)

Department: Physical Plant Services

Competition: J1217-0172

Successful Candidate: Sean Gaulton

Job Title: Timetabling Administrator

Department: Office of the University Registrar

Competition: J0118-0206

Successful Candidate: Merry Horton (Undergraduate Admission)

Job Title: Teaching and Learning Coordinator

Department: Office of the Provost and Vice-Principal Academic

Competition: J1217-0650

Successful Candidate: Mahsa Ghosami (Applied Science - Faculty Office)

Job Title: Administrative Assistant (USW Local 2010)

Department: Regional Assessment Resource Centre

Competition: J0218-0071

Successful Candidate: Heidi Gal-loway-Bourgoin

Job Title: Internship Coordinator, QUIP (USW Local 2010)

Department: Career Services

Competition: J0218-0059

Successful Candidate: Melissa Duggan

Job Title: Privacy/Security Officer

Department: ICES Queen's Health Sciences Research Facility

Competition: J0118-0314

Successful Candidate: Patrick Baldwin

Job Title: Social Worker

Department: Family Medicine

Competition: J1217-0790

Successful Candidate: Jessica Waller

PUZZLE SOLUTIONS

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

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				C	R	O	A	N	T	I	C	D	A	M	O	N	G	M	C	
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				T	A	N	A	S	T	I	S	A	V	O	Y	R	A	H	S	

Congratulations

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www.queensu.ca/uclub

*Conditions may apply



Contact Valerie for more details
admuclub@queensu.ca
613-533-2846



The delegation to the first Queen's on the Hill Day gather for a team photo as the day's events get underway on Wednesday, April 18. The event was hosted to highlight the university's areas of strength in research and innovation while demonstrating support for the federal government's recent investments in fundamental research.

Valuable connections made through Queen's on Parliament Hill Day

BY COMMUNICATIONS STAFF

The nation's capital had a little more Tricolour in it on Wednesday, April 18 thanks to the first-ever Queen's on Parliament Hill Day.

The event was hosted to highlight the university's areas of strength in research and innovation while demonstrating support for the federal government's recent investments in fundamental research. A total of 35 researchers made the trip to Ottawa, along with senior administrators and staff members.

A reception, hosted by Senator Joseph Day, a Queen's alumnus,

featured seven key themes: Skills for tomorrow; Today; Embracing Reconciliation; Innovation and Entrepreneurship; A Cleaner Future; Finding Insights in Data; Building Blocks of the Universe; Advancing Health and Wellness.

Speakers at the event included Principal Daniel Woolf, Professor Emeritus and Nobel Laureate Art McDonald, as well as a number of political figures including Kate Young, Parliamentary Secretary for Science, Senator Day, Kingston and the Islands Member of Parliament Mark Gerretsen, and opposition Members Brian Masse and Matt Jeneroux

"This was an eye-opening day

at Parliament Hill for the Queen's team and, I hope, for the MPs, Senators and staff who met with us," Principal Woolf says. "With this being the first Queen's on Parliament Hill Day event in recent memory, I believe we have created a solid foundation upon which we can continue to build the important relationships and connections that exist between Kingston and Ottawa. I'm grateful to the faculty, staff and students who took the time to participate, even during spring exam time."

Approximately 80 parliamentarians and staff visited the reception to meet with the Queen's delegation.


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