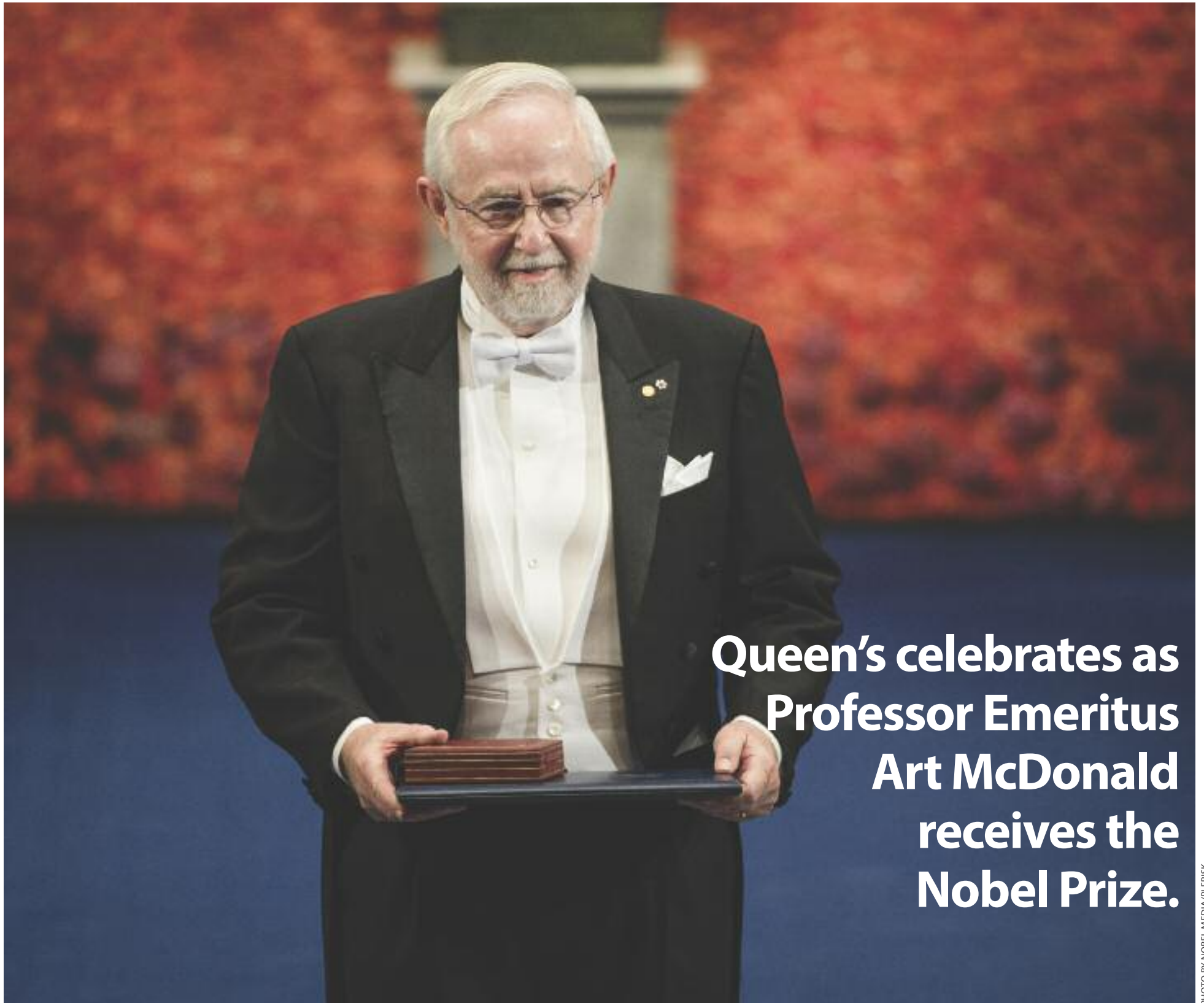


## A NOBEL CELEBRATION



**Queen's celebrates as  
Professor Emeritus  
Art McDonald  
receives the  
Nobel Prize.**

PHOTO BY NOBEL MEDIA/PI FRISK

**A new chapter in the history of Queen's University was written as Professor Emeritus Arthur McDonald traveled to Stockholm, Sweden, to receive the Nobel Prize in Physics for his research on neutrinos with the Sudbury Neutrino Observatory Collaboration. Back home, Queen's University and Canadians celebrated his accomplishments. More on pages 2, 3, 4 and 6.**

## nobelweek

## the gazette

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Michael Fraser

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PHOTO BY GUNNAR SEJIBOLD

ABOVE: Professor Emeritus Art McDonald, left, stands with former Toronto Maple Leafs defenceman Borje Salming, Ambassador Kenneth Macartney and Principal Daniel Woolf during a celebration hosted by the Canadian Embassy in Sweden. RIGHT: Dr. McDonald received an autographed and personalized Maple Leafs jersey from former Maple Leafs captain Mats Sundin. BELOW LEFT: Dr. McDonald signs the embassy's guest book along with Mats Sundin. BELOW RIGHT: Dr. McDonald explains his research into neutrinos during the Nobel Lecture.



UNIVERSITY COMMUNICATIONS



UNIVERSITY COMMUNICATIONS



PHOTO BY GUNNAR SEJIBOLD

# Awaiting the big moment

## BY COMMUNICATIONS STAFF

It was a week to remember for the Queen's community as Professor Emeritus Arthur McDonald (Physics, Engineering Physics and Astronomy) traveled to Stockholm to receive the Nobel Prize in Physics for his research on neutrinos with the Sudbury Neutrino Observatory Collaboration.

During his time in Sweden, Dr. McDonald, the inaugural Gordon

and Patricia Gray Chair in Particle Astrophysics, participated in a number of official events throughout Nobel Week, such as the Nobel lecture, where, alongside his fellow laureates in physics, chemistry, medicine and economics, he presented his research.

He was also celebrated by the Canadian Embassy in Sweden, with a pair of events hosted by Ambassador Kenneth Macartney. A lifelong Toronto Maple Leafs fan,

Dr. McDonald met with a pair of Leafs legends. Following the Nobel Prize announcement, Dr. McDonald, mentioned he was a diehard Leafs fan in a number of interviews, frequently referencing Mats Sundin as a particular favourite. Dr. McDonald also shared how he would spend many nights during his childhood listening to Foster Hewitt commentate on the radio.

Picking up on this, the Canadian Embassy in Stockholm

arranged for Dr. McDonald to meet Sundin and former defenceman Borje Salming.

Dr. McDonald received an autographed and personalized Maple Leafs jersey from Sundin and later was interviewed with the former Leafs captain for a Swedish radio show. At a second reception, Dr. McDonald spoke at length with Salming about his time in the NHL and how the Leafs are doing today.



Queen's UNIVERSITY

## nobelweek



PHOTO BY NOBEL MEDIA/PI FRISK



PHOTO BY NOBEL MEDIA/PI FRISK

**ABOVE LEFT:** Dr. Arthur McDonald, second from left, received the Nobel Prize during the official ceremony along with his fellow laureates in physics, chemistry, economics and medicine. **ABOVE RIGHT:** Dr. McDonald formally receives his Nobel medal from King Carl XVI Gustaf of Sweden in a ceremony at the Stockholm Concert Hall. **LEFT:** The Queen's community celebrated along with Dr. McDonald with a live viewing of the Nobel ceremony held at Stirling Hall. **BOTTOM LEFT:** Queen's also hosted a special luncheon in honour of Dr. McDonald at the Grand Hotel in Stockholm. **BOTTOM RIGHT:** Ahead of the Nobel ceremony Dr. McDonald posed for a photo with his wife and family.



UNIVERSITY COMMUNICATIONS



PHOTO BY GUNNAR SEUBOLD



PHOTO BY MICHAEL FERGUSSON

## A reason to celebrate

BY COMMUNICATIONS STAFF

Professor Emeritus Art McDonald and his fellow Nobel laureates formally received their Nobel Prizes from King Carl XVI Gustaf of Sweden in a ceremony at the Stockholm Concert Hall on Thursday, Dec. 10.

At the gala, laureates in physics, chemistry, medicine and economics were presented their medals.

Following the ceremony, the Nobel banquet was held in the Blue Hall at the Stockholm City Hall. Among the approximately 1,300 guests who attended the banquet were members of the SNO Collaboration and the Swedish Royal Family.

Not to be left out, members of the Queen's community gathered to watch a livestream of the ceremony in Stirling Hall, hosted by

the Office of the Vice-Principal (Research) with the Department of Physics, Engineering Physics & Astronomy.

Queen's University also held a celebration in Stockholm with a special luncheon in Dr. McDonald's honour that was hosted by Principal Daniel Woolf and brought together Queen's alumni, supporters as well family and friends.

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## nobelweek



ABOVE: Following the Nobel ceremony, Dr. Art McDonald took part in a round-table discussion program *Nobel Minds* with the 2015 Nobel Laureates, co-produced by SVT and BBC WN, and broadcast on Swedish TV and BBC. ABOVE RIGHT: Dr. McDonald is interviewed by the CBC using his tablet early on the morning of Thursday, Dec. 10, ahead of the Nobel ceremony. RIGHT: Dr. McDonald speaks with Minister of Science Kirsty Duncan before they take part in an interview with Canadian media. BELOW: Dr. McDonald takes part in a presentation at Norra Real High School, the oldest upper-secondary school in Stockholm, with Nobel prize co-recipient, Takaaki Kajita of Japan.



PHOTO BY GUNNAR SEJIBOLD

## A busy schedule ahead for Nobel winner

BY COMMUNICATIONS STAFF

The Nobel ceremony and galas may be over but Professor Emeritus Art McDonald continues to be in demand, now and for years to come.

Dr. McDonald took part in *Nobel Minds* a round-table discussion program bringing together the 2015 Nobel Laureates, co-produced by SVT and BBC WN, which aired on Swedish TV and

BBC on Dec. 19 and Dec. 20.

Dr. McDonald and Science Minister Kirsty Duncan later participated in a conference call with Canadian media where they talked about the important role of science as well as winning the Nobel Prize.

In 2016, Dr. McDonald's schedule will continue to be busy with many requests to speak at conferences and other special events around the world.

## Order of Canada recognizes groundbreaking research

BY COMMUNICATIONS STAFF

Queen's University Professor Emeritus Arthur McDonald capped off a banner year in 2015 with an appointment as a Companion of the Order of Canada.

The honour is in recognition of Dr. McDonald's "eminent contributions to particle physics, which have broadened our understanding of the universe and brought renown to Canadian science," according to the award citation.

"The Order of Canada recog-

nizes outstanding achievement and dedication to the community and to Canada," says Principal Daniel Woolf. "As a world leader in the field of particle physics, Dr. McDonald is truly deserving of this recognition for his groundbreaking research."

Dr. McDonald was previously appointed as an Officer of the Order of Canada in 2006 for his research at the Sudbury Neutrino Observatory into neutrino oscillations. His research was rewarded with the 2015 Nobel

Prize in Physics, which he received alongside Japanese scientist Takaaki Kajita, and the 2016 Breakthrough Prize in Fundamental Physics.

Other members of the Queen's University community who were appointed Companions of the Order of Canada in the most recent round of inductions include, the Hon. Lloyd Axworthy (LLD'03), Atom Egoyan (LLD'00), and Angela Hewitt (LLD'02), who were promoted from Officers to Companions of the Order. Julie Dick-

son (MA'81) and Brian Levitt were named Officers of the Order of Canada. Finally, Laura Brandon (MA'92), Fiona Sampson (BA'85, LLB'93), Kim Sturgess (BSc'77), and Frederic Wien (BA'66), were appointed as Members of the Order of Canada.

The Order of Canada was established in 1967 to recognize outstanding achievement, dedication to the community and service to the nation.

Over the last 45 years, more than 6,000 people from all sectors

of society have been invested into the Order. The Order consists of membership at three levels – Member, which recognizes outstanding contributions at the local or regional level or in a special field of activity; Officer, which recognizes national service or achievement; and Companion, which recognizes national pre-eminence or international service or achievement.

For more information about the Order of Canada, visit the Governor General's website [gg.ca](http://gg.ca).

# Baders donate Rembrandt masterpiece

BY MARK KERR, SENIOR COMMUNICATIONS OFFICER

Thanks to Alfred and Isabel Bader, Queen's art centre has added another Rembrandt painting to its collection – this time a remarkable, late-career masterpiece that had been privately owned and unavailable to scholars for much of its existence.

*Portrait of a Man with Arms Akimbo*, signed and dated 1658, will become part of the Agnes Etherington Art Centre's permanent collection. The painting is a significant example of a dated portrait by Rembrandt from the 1650s, and one of the last works from the artist's late career to enter a public collection.

"I am grateful the Baders have entrusted us with this remarkable work of art," says Principal Daniel Woolf. "This gift distinguishes the art centre at Queen's as the destination in Canada for the research, study and enjoyment of Rembrandt and his followers, and places the Agnes among the premier university art galleries in North America for the study of European art."

Over a period spanning nearly 50 years, the Baders – two of Queen's most generous alumni and benefactors – have donated to the Agnes more than 200 paintings, including two other works by Rembrandt, *Head of an Old*



Rembrandt van Rijn, *Portrait of a Man with Arms Akimbo*, 1658, oil on canvas, 107.4 x 87.0 cm, Gift of Alfred and Isabel Bader, 2015 (58-008)

PHOTO COURTESY OF OTTO NAUMANN, LTD.

*Man in a Cap* (c. 1630) and *Head of a Man in a Turban* (c. 1661).

"*Portrait of a Man with Arms Akimbo* will be a centrepiece for the many portraits by the artists in Rembrandt's circle currently in The Bader Collection at the Agnes. I'm truly grateful to Alfred and Isabel Bader for their vision in shaping this collection, and for this amazing gift," says Jan Allen, Director of the Agnes. "Across the university, researchers from many disciplines, from art and art history to psychology, business, theatre and medicine will take advantage of access to this painting. Most of all, we'll treasure this piece for its extraordinary quality, and as an example of the highest aspiration of painting, which is to capture the human spirit."

The Agnes is currently preparing *Portrait of a Man with Arms Akimbo* for installation. The painting will be unveiled to the public in May 2016.

"This painting is a dazzling demonstration of the artist's signature *ruwe*, or rough, style, embodying the painterly brilliance so associated with Rembrandt's late work. It also beautifully demonstrates the artist's consummate skill in capturing the psychological presence of his subjects," says Dr. Jacquelyn N. Coutré, Bader Curator and Researcher of European Art at the Agnes.

The Baders' most recent gift is a significant contribution to Queen's Initiative Campaign, the most ambitious fundraising campaign in the university's history. The campaign seeks to nurture a supportive campus community, enhance the student learning experience, and secure a global reputation in discovery and inquiry.

When asked about the motivation for his generous gift, Dr. Bader explains, "It is the best Rembrandt in Canada, and Queen's is the best university in Canada. It is very fitting."

*Alfred Bader (Sc'45, Arts'46, MSc'47, LLD'86) and Isabel Bader (LLD'07) are among Queen's most generous benefactors, supporting the university for seven decades. They have given back to Queen's in countless ways: transforming the campus, enriching the student experience, supporting scholarship, and helping to enhance the university's reputation as a top-tier educational institution. In an extraordinary philanthropic gesture, the couple funded Queen's purchase of a 15th century English castle – Herstonceux – that has been meticulously restored and is now home to the Bader International Study Centre. Last year, the Isabel Bader Centre for the Performing Arts opened, thanks to another transformational gift from the Baders.*

## Raymond named next chair of Board of Trustees

BY CRAIG LEROUX, SENIOR COMMUNICATIONS OFFICER

Queen's has announced the appointment of Donald M. Raymond, an internationally-respected investment executive and Queen's alumnus, as the next chair of the university's Board of Trustees.

Dr. Raymond will begin a four-year term as chair on June 1, 2016, succeeding Barbara Palk, who has served as chair since 2012. His nomination as chair was recommended to the Board by its Governance and Nominating Committee, following a thorough review and selection process led by Chancellor Jim Leech.

"Don has been a highly engaged member of the Board of Trustees and he will bring a tremendous amount of expertise to the role of chair," says Chancellor Leech, who serves as a member of the Board's Governance and Nominating Committee and chaired the Advisory Subcommit-



Don Raymond has been named the next chair of Queen's Board of Trustees.

tee that recommended Dr. Raymond. "Queen's is fortunate to have a wealth of experience among its trustees and both the Board and the university will benefit greatly from Don's leader-

ship in this role."

Dr. Raymond is managing partner and chief investment officer at Alignvest Management Corporation. He previously served as chief investment strategist for the \$220-billion Canada Pension Plan Investment Board (CPPIB), where he spent 12 years helping to build the CPPIB into a leading global investment organization. He was instrumental in the development of the United Nations' Principles of Responsible Investing, and in their adoption by CPPIB in 2005.

"As we prepare to celebrate the 175th anniversary of Queen's Royal Charter, I am mindful of the selfless dedication of generations of leaders who conceived a humble, regional college and built a university with global impact," says Dr. Raymond. "I look forward to working closely with my Board colleagues and the entire university community to enhance Queen's strategic position as the quintessential balanced academy,

ready to take on the next 175 years."

Dr. Raymond earned both a BSc and PhD from Queen's in electrical engineering. He has been a member of Queen's University's Board of Trustees since 2008 and currently serves as one of its vice-chairs. He also serves as chair of the Board's Investment Committee, vice-chair of its Pension Committee, and as a member of both its Human Resources and Capital Assets and Finance committees.

"Dr. Raymond will take up the role of chair at an important time for Queen's, as the university celebrates its 175th anniversary and continues to advance its position as a leading research-intensive university that delivers a transformative student learning experience," says Daniel Woolf, Principal and Vice-Chancellor. "The Board has an important role to play in the governance of the university, including overseeing the goals of its strategic framework,

and I look forward to working closely with Don over the coming years in his role as chair."

Barbara Palk has served on the Board of Trustees for 14 years and as its chair since 2012. During her tenure as chair, Ms. Palk presided over a number of important initiatives, including the completion of the Board's governance reform process, the development of the strategic framework and the implementation of the new budget model.

The Board of Trustees is one of the university's governing bodies, along with Senate and University Council.

While the Senate is responsible for academic matters, the Board is responsible for the overall operation of the university, including overseeing financial matters, property, and making senior appointments.

Queen's is one of the country's oldest degree-granting institutions and will celebrate its 175th anniversary in 2016-2017.

## viewpoint

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

# Nobel win reflects Canada's research potential

The following op-ed was first published in *The Hill Times*.

BY DANIEL WOOLF,  
PRINCIPAL AND VICE-CHANCELLOR

On Thursday, Dec. 10, academics and dignitaries from around the world gathered in Stockholm for the annual Nobel Prize ceremony. Among this year's laureates is Canadian Arthur B. McDonald, a professor emeritus at Queen's University and co-winner of the 2015 Nobel Prize in Physics.



I was fortunate to attend the ceremony and, as I watched, I quite literally felt a thrill for my country equal to that which I experienced when the Blue Jays won two World Series.

Dr. McDonald is the first scientist at a Canadian university to win a Nobel since the mid-1990s. He earned his medal for the research done at the Sudbury Neutrino Observatory (SNO). SNO, now known as SNOLAB, is the site for a series of highly complex experiments costing millions of dollars and conducted 2-km underground in a working nickel mine near Sudbury, Ont.

The results have been momentous. Dr. McDonald and the team he led as part of the initial SNO collaboration found that tiny particles called neutrinos change identities on their travels between the sun and

the earth, and therefore have mass. This discovery has profound implications for our understanding of the universe and matter, and has set a path for new directions in the study of astrophysics.

Queen's is very proud of Dr. McDonald. He is a dedicated scientist, a gifted teacher and a true trailblazer. He is a leader who values patience and persistence, and a person who epitomizes Queen's approach of providing a transformative student learning experience coupled with an unwavering commitment to research excellence. But Dr. McDonald would be the first to tell you that he didn't do it alone.

The project began in the mid-1980s and took a staggering leap of faith on the part of many individuals to conceive of the experiment. It took the collaboration of several partner universities, financial support from government funding agencies, the cooperation of industry (Atomic Energy of Canada Ltd. and Inco), and a team of more than 270 researchers in Canada and around the world to bring the project to fruition.

While in Stockholm, I heard a number of non-Canadians speak with envy of the fact that an experiment such as SNO had been conducted in Canada. Looking back over the past 30 years, it is difficult not to be appreciative of the many contributions that made this project possible.

This includes the critical investments that successive governments have made in university-based research through various granting agencies and funding programmes. Canada's commitment to supporting fundamental research was essential

to the success of this research and this Nobel win.

However, despite past investments, Canada's position as a research power is in some jeopardy. The infrastructure on Canadian university campuses is aging and facilities for conducting innovative research require urgent renewal. Most worrying of all is that we are at risk of losing the very people who conduct this sort of research. Success rates in applications to several funding programs of the three major federal granting agencies have dropped, and none of the agencies have had a real (greater than inflation) increase to their budget in years.

If we, as a country, want Art McDonald's Nobel win to be the beginning of a golden age for Canadian research and scholarship, then we must be prepared to make new investments in fundamental research. The risks of not doing this run far beyond not getting another Nobel Prize for 20 years. They include losing the next generation of top-tier academics to other countries and allowing Canada's position as a world research powerhouse to weaken.

Instead, let's aspire to make Canada and its universities global leaders in research excellence and to be back in Stockholm with some regularity.



Queen's University has a rich and successful sports history and among the teams that have earned provincial titles is the figure skating team. In this photo the 1976-77 team poses with the trophy after winning their fourth Ontario Women's Intercollegiate Athletics Association title in five years.

## liveslived

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

# Nobel winner continued research at Queen's

BY VICTOR SNIECKUS

Do something with transition metals," quipped the research director of the Hercules Powder Company to Richard Heck in 1958, two years after he had joined. After consulting with Pat Henry, an organometallic chemist across the hall, and with some bold thinking, Heck discovered a new method for clicking together carbon atoms in a single step.



Richard Heck

The carbon-carbon bond is a prerequisite for life: nature catalyses it with enzymes; Heck used palladium. It was the dawn of a new era in organic synthesis, the field dedicated to constructing a vast array of compounds, from simple building blocks to bewil-

dering mega-atom frameworks. Heck had taken the first step on the path that led him to the 2010 Nobel Prize in Chemistry.

Ask an organic chemist today about products of the Heck reaction and they'll name smartphone displays, sunscreens, perfumes, pesticides and medicines. A biologist will recognize the reaction as the basis for the coupling of fluorescent dyes to DNA bases, allowing the automation of DNA sequencing and the elucidation of the human genome.

Richard Heck died Oct. 9, 2015 in Manila. He was born in Springfield, Mass., on Aug. 15, 1931. Following a PhD with the prominent physical organic chemist Saul Winstein at the University of California, Los Angeles, and a post-doctoral fellowship with the future Nobel laureate Vladimir Prelog at the Swiss Federal Institute of Technology in Zurich, the 25-year-old Heck joined Hercules (now Ashland) in 1956.

After two years Heck was given the fateful mission by research director David Breslow. "They left us alone to try anything we want," Heck later said. So, appreciating that discovery proceeds stepwise from scattered observations in the literature, Heck studied the alkene hydroformylation reaction. He proposed the first correct mechanism for a reaction catalysed by a transition metal. It illuminated many other unexplained organometallic reactions, and produced a rich harvest of cobalt organometallic chemistry.

The hydroformylation technology is currently used to produce 6.8 million tonnes of basic carbon building blocks (alcohols and aldehydes) each year for the synthesis of everyday materials.

In 1968, the chemical community was astounded by Heck's flurry of seven consecutive single-author papers in the *Journal of the American Chemical Society*. In hindsight, these heralded the innova-

tive work to follow when he moved down the road to the University of Delaware in 1971. The next year, Heck's seminal paper appeared. The discovery, now also widely known as the Mizoroki-Heck reaction, involves the palladium catalyst slipping into a carbon-halogen bond to give a fleeting species. This intermediate clutches another reactive molecule to form, after more contortions, a product in which a new carbon-carbon bond is established.

Today, undergraduates learn the Heck reaction in class and laboratory; industrial chemists practise it to make tonnes of drugs against asthma, diabetes and AIDS, among others. Thus, Heck's work may be considered as a forerunner of a cornucopia of transition-metal-catalysed technologies that are in operation worldwide.

In 1989, he retired and in 2006, I invited him to Queen's University, to follow up on his cobalt work. Seventeen years after retirement

and 45 years after opening the door to organocobalt chemistry, Dick entered the lab again, prepared the complexes and measured their infrared spectra ("you get all of the information you need"). With the assistance of a postdoc, he obtained nuclear magnetic resonance and high-resolution mass spectrometry data, interpreted them, and took the next step.

Dick then restarted his retirement in the Philippines. A handwritten letter to me noted that he had returned to his two passions: "I have some room to grow orchids again so I will have something to do," and "Have you found anyone to work with cobalt carbonyl?" He had drawn chemical structures of potential next steps along the palladium-paved path that he had established.

A version of this article was first published in *Nature*. Dr. Snieckus is a professor in the Department of Chemistry at Queen's.

## Queen's in the news

Highlights of Queen's experts in the media from Dec.1-31

## SPECIAL

**Art McDonald** (Physics) Coverage of the Nobel Prize ceremony, on CBCNews.ca, CTVNews.ca, Toronto Star, Ottawa Citizen, Chronicle Herald, and many other regional dailies and broadcast news programs across Canada.

## INTERNATIONAL

**John Casselman** (Biology) discussed new research on eel migration and spawning, in the New York Times.

**Keith Banting** (Policy Studies) says that the Justin Trudeau agenda stands out for length and ambition, in the Chicago Tribune.

**Udo Schuklenk** (Philosophy) commented in The Guardian on crowdsourced organ donations.

## NEWSPAPERS



**John Smol** (Biology) says that, with continued climate change, "it will be a different world, one that we will have trouble recognizing," in

the Toronto Star.

**Ken Wong** (Business) says Canadian Tire lawsuit against Wal-Mart

Canada for allegedly copying clip-on Christmas lights unlikely to do much in short term, but is a "shot across the bow," in the Financial Post; commented in the Globe and Mail on a new app for takeout food.

**Richard Birtwhistle** (Centre for Studies in Primary Care) discussed a report finding only 36 per cent of Canadian primary-care docs think health system works well, in the London Free Press.

**Warren Mabee** (Policy Studies) discusses establishing a "green" jet-fuel infrastructure in Canada, in the Toronto Star.



**Lisa Kerr** (Law) was interviewed by the Globe and Mail on mandatory courses in aboriginal law.

**Jonathan Rose** (Political Studies) says use of Liberal party branding and messaging on non-partisan government websites is "coming close to the line if not over the line," in The Globe and Mail.

**Daniel Woolf** (Principal) penned an op-ed in The Hill Times, saying Dr. Art McDonald's Nobel win reflects Canada's potential for world-leading research.

**Christian Leuprecht** (Political Studies) has his op-ed on the

refugee crisis published in the National Post.

**Sharryn Aiken** (Law) commented on a Government of Canada policy that charges refugees interest on travel loans, in the National Post, Ottawa Citizen and other Postmedia dailies.



**Sergio Sismondo** (Philosophy) commented on a report by the College of Family Physicians of Canada on funding from pharmaceutical companies, in the National Post, Calgary Herald, Regina Leader-Post and other Postmedia dailies.

**Steven Salterio** (Business) had his op-ed that forcing reports to Ottawa undermines First Nations accountability, published by the Globe and Mail.

## ONLINE

**Nick Bala** (Law) said that the Government should be cautious of unintended effects as they consider repealing the 'spanking law', on CTVNews.ca.

**Naomi Alboim** (Policy Studies) said that refugee advocates want government to build on private sponsors, not depend on it; that the

housing fund created for refugees could help other Canadians, on CBC-News.ca.



**Meredith Chivers** (Psychology) was interviewed by dailyextra.com for the article "Something strange is going on with straight

women."

**Keith McWhirter** (IT Services) talked to globalnews.ca about how tablet-laptop hybrid devices will continue to be favoured in the New Year.

**Marc Dignam and Mark Chen** (Physics, Engineering Physics and Astronomy) discussed the Nobel Prize and SNOLAB research with CKWS TV and Station 14.

## TELEVISION

**Jacquelyn Coutre** (Agnes Etherington Art Centre) was interviewed by CKWS Television about acquiring a Rembrandt.

**David Lyon** (Surveillance Studies) discussed the case of Syed Adam Ahmed, a 6-year-old Markham boy placed on no-fly list, on CTV National News.

**Udo Schuklenk** (Philosophy) commented on ethical concerns regarding the CRISPR genetic engi-

neering technique, on CBC Quirks and Quarks.

**Jordan Poppenk** (Psychology) spoke to CBC News Network and CBC Radio about how memory contributes to keeping a New Year's resolution.

## MAGAZINES

**Kathryn Harkness** (Psychology) spoke to Maclean's Magazine that a daily half-hour of outdoor sun during winter could be help with regulating hormones that affect mood.

## RADIO

**Houchang Hassan-Yari** (Political Studies) was interviewed by CKNW-Vancouver regarding the escalating tensions between Saudi Arabia and Iran following the execution of a Shia cleric.

**Christian Leuprecht** (Political Studies) was on the Roy Green Syndicated Radio Show commenting on the global threat landscape in 2016, the terror arrests in Belgium and the possibility of terror attacks during New Year's celebrations.

**Jill Scott** (Languages, Literatures and Culture) spoke to NewsTalk 770 (Calgary) about mandatory Indigenous Studies courses at universities.

## Driving sustainability ahead

BY ANITA JANSMAN, SPECIAL TO THE GAZETTE

For the past two Homecomings, Fraser Horn (Sci'89) drove from Toronto to Kingston in his 100 per cent electric Tesla Model S. He was able to just make it to Kingston but had trouble finding adequate charging for his trip home.

After last year's Homecoming, Mr. Horn sent an email to Principal Daniel Woolf.

"I wrote to Principal Woolf suggesting that there ought to be an electric car charger on campus. I told him I thought universities should be at the forefront of sustainable projects," says Mr. Horn.

Principal Woolf connected him with the Sustainability Office to explore the idea of installing an electric car charger on campus. Mr. Horn, an electrical engineer and stay-at-home father, made an initial \$4,000 pledge. So began the Electric Vehicle Charging Station Sustainability Initiative.

As Sustainability Manager Aaron Ball explains, this initiative fits perfectly with Queen's goal of creating a sustainable campus by increasing support for alternative

modes of transportation.

"We want to break down the barriers to alternate transportation. For example, more people will ride their bikes if there are lots of bike racks on campus. As electric cars become more popular as an alternate from of transportation, installing a charger on campus will break down another barrier," says Mr. Ball.

In Kingston there is an electric car charging station near Hwy. 401 at Division Street, one on Princess Street at the Best Western and another at St. Lawrence College, but because of the hours it can take to charge, it's really only practical to have a charger at your destination, which for Mr. Horn was downtown and the Queen's University campus. It is logical and fitting that Queen's, with its highly-respected engineering program that encourages discovery and invention of sustainable products and green initiatives, leads the way in this initiative.

The two electric vehicle charging stations will be located at the corner of Union and Division streets, in front of the School of Kinesiology, where they will be

"visible, accessible, and where we easily can connect to a building to get the power," says Mr. Ball. They will be used by Queen's employees and visitors to campus.

The cost of installing the two chargers on campus is \$30,000. While Mr. Horn's initial gift to the program is a good start, more donations are required to make this goal a reality.

"I'm reaching out to my classmates and others who feel the same way I do, that Queen's needs to encourage the adoption of sustainable practices," says Mr. Horn. "I do a lot of driving with my three busy children, so I see the positive impact of using a sustainable and cleaner means to get around."

He adds: "Things like this may feel small, especially if only one or two individuals are doing it, but collectively, I know, we can make a big difference. The lack of charging infrastructure is one of the biggest barriers to electric vehicle ownership but because electricity is everywhere it's a relatively easy problem to solve."

To contribute to the EV Charging Station project, visit [givetoqueens.ca/sustainableengineering](http://givetoqueens.ca/sustainableengineering).

## through the lens



Queen's University's Financial Services Department raised \$478 through its "Blue Jean Friday" event. In addition to giving a donation in order to wear blue jeans at the end of the week, staff members also collected two large bags of new socks to be donated to a local agency. Above, Bhavana Varma, President and CEO, United Way of Kingston, Frontenac, Lennox and Addington (third from the right) accepts the donation and socks from Financial Services staff members, from left, Edward Finland, Terena Grice, Ruth Lappan, Kelly McGarry, Christina Blanchard and Nicki Mundell.

## An investment in sustainability

BY COMMUNICATIONS STAFF

Queen's is making an important investment in enhancing the sustainability of its operations. Daniel Woolf, Principal and Vice-Chancellor, has announced a \$10.7-million energy performance contract with Honeywell, an international energy services company.

The contract is the next step in the university's Energy Matters project, which aims to reduce the university's carbon footprint and generate annual savings in its utility bill.

"Climate change is a significant global issue and Queen's is committed to doing its part to improve our environment through its operations," says Principal Woolf. "The Energy Matters project will help lower the university's greenhouse gas (GHG) emissions and reduce its water consumption, while at the same

time providing important financial savings that make an investment of this size possible."

As part of the Energy Matters project, Honeywell will implement more than 170 individual energy conservation measures in 66 campus buildings. These include the installation of low-flow fixtures to reduce water usage, upgraded lighting and building climate controls to reduce energy consumption, as well as heat recovery systems and improvements to building envelopes.

"Queen's has been working with Honeywell since 2014, performing energy audits and identifying the most promising energy efficiency measures," says Caroline Davis, Vice-Principal (Finance and Administration).

"With the energy performance contract now in place, Honeywell will begin work on the individual efficiency upgrades in January, with the project expected to be

complete in August 2017."

Once fully implemented, the Energy Matters project will result in guaranteed annual utility savings of \$946,000. Queen's current annual utility costs are roughly \$20 million. The annual reduction in GHG emissions is expected to be 2800 MTCO<sub>2e</sub>, the equivalent of taking 944 mid-sized cars off of Canadian roads. The annual reduction in water usage will be equivalent to the volume of 84 Queen's Centre swimming pools.

The \$10.7-million cost of the project will be funded through the annual energy savings that Honeywell guarantees, with full payback of the costs expected over 12 years.

"This project is a very important initiative for Queen's that will help the university fulfil its commitment to sustainability," says Aaron Ball, Sustainability Manager. "It builds on a number of energy efficiency and conser-

vation measures already undertaken by the university and, along with other changes in the energy sector in Ontario, will contribute to an expected reduction in our GHG emissions of 25 per cent since 2008."

As of 2014, Queen's had already seen a reduction in its GHG emissions of 18 per cent since 2008. Energy savings initiatives, such as the installation of a high-efficiency boiler in the central heating plant and lighting upgrades, contributed to this reduction.

Honeywell's environmental and energy services division has been providing guaranteed energy performance contracts in Canada for more than 28 years. The company has delivered more than \$4 billion in annual savings around the world and is experienced working in post-secondary institutions and hospitals, including Kingston General Hospital.

### Energy Matters Fast Facts

- Total investment: \$10.7 million
- Guaranteed annual utility savings: \$946,000
- Number of conservation measures: 170
- Number of buildings involved: 66
- Expected annual reduction in GHG emissions: 2800 MTCO<sub>2e</sub>
- Expected annual reduction in water usage: equivalent to 84 Queen's Centre swimming pools

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# Fostering communication for students, teachers

BY ANDREW CARROLL,  
GAZETTE EDITOR

Thanks to a new app, music teachers and their students are able to collaborate effectively between lessons.

Notemaker allows users to make real-time comments on video and audio recordings. It was created through the Music Education in a Digital Age (MEDA) Project, directed by Queen's University's Rena Upitis (Education), in partnership with Concordia University and the Royal Conservatory.

Annotation apps are not new, Dr. Upitis explains, but what makes Notemaker different is that it is the only one that allows a dialogue among multiple commenters directly on a recorded work, either video or audio.

"The technical piece that makes this app unique is that it can be used with multiple users, multiple times. So that makes it extraordi-

narily powerful," Dr. Upitis says. "It's dynamic, it's multi-user, it's the kind of teaching and learning that we are doing these days."

Music lessons often take place once or twice a week and the communication often ends when the lesson does. However, with Notemaker, the communication continues.

"So when you are sitting at a piano lesson and your teacher tells you something, your teacher interrupts you partway through a piece and says try this differently. You get it and you pay attention but you can't re-create that moment when you are practising," Dr. Upitis says. "Whereas if you've done a video and the teacher writes a comment in 'This is what I meant at the lesson, right here you need to raise your elbow,' then you can play it again and again and see where your elbow isn't raised and then say 'Okay I get it' and apply it to the practice. In a lesson the moment



The new app Notemaker allows users to make real-time comments on video and audio recordings.

has passed but with Notemaker the moment can be brought back again and back again."

The app is part of the larger

MEDA Project, which has resulted in four digital tools – iSCORE, DREAM, Notemaker and Cadenza – that comprise The Music Tool Suite. The multi-year project is supported by the Social Sciences and Humanities Research Council and the Canada Foundation for Innovation. The other key for Notemaker is the recognition that learning has moved beyond the classroom setting.

"It is very exciting and it meets two very important needs," says Dr. Upitis. "One is to recognize the contemporary pull of mobile devices for young musicians and the other is to provide scaffolding for teachers to be able to work with students mid-week between lessons. It's really intuitive and because it meets a pedagogical need I think whatever learning they may have to do to figure out the app, it's worth it and not terribly difficult, especially if they are using phones already, which many of them are."

"This is the right tool at the right

time for this context and we're loving the response we're getting."

Dr. Upitis adds that with its flexibility and multi-user sharing, Notemaker can be applied far beyond music education. If there's a video and feedback being sought, whether it's sports training, theatre, dance or preparing a presentation for work, Notemaker is an ideal platform.

While it is an exciting, new tool, at the heart of the app is something that has always been the key to learning.

"The other thing Notemaker does is the most important of all, which is it motivates people. People are motivated to practice when they can see their progress and when they can feel they are getting feedback that is directed and helpful and they can link that feedback to their work," Dr. Upitis says.

"Ultimately it is motivation that matters in every kind of learning."

Notemaker is now available on the iTunes App Store.

## In support of world peace

BY ANDREW CARROLL,  
GAZETTE EDITOR

Professor Emeritus Geoffrey Smith's efforts to broaden the role and possibilities of world peace have earned him the Lifetime Achievement Award from the Peace History Society.

Dr. Smith, a professor of physical and health education and history at Queen's, served as the organization's president from 1995 to 1997, as well as the secretary treasurer from 1993 to 1995 and from 1998 to 2001.

The Lifetime Achievement Award is handed out every two years by the Peace History Society, and Dr. Smith is the fifth recipient. The award is given to a member who has "contributed outstanding scholarship and exemplary service to peace history."

For Dr. Smith, the award came "out of the blue" and he says he is "just thrilled" to be honoured alongside colleagues he describes as great historians.

"I wouldn't consider myself a great historian but I would consider myself a person who cares a good deal about issues of peace and war, violence and inequality, all of those things that are so important today," he says. "The Peace History Society is doing some great work. I read some wonderful papers. I think the scholarship has gotten better, the questions are getting sharper, more focused and the application



Professor Emeritus Geoffrey Smith receives the Lifetime Achievement Award from the Peace History Society from Christy Snider, the group's past president. Dr. Smith is just the fifth recipient of the award.

of some of the things that they do to the real world is quite clear."

The Peace History Society encourages, supports, and coordinates scholarly research on peace, nonviolence, and social justice. Founded in 1964, it also communicates the findings of this scholarly work to the general public.

Educated at the University of California Berkeley (MA'65) and UC Santa Barbara (BA'63, PhD'69), Dr. Smith arrived at Queen's in 1969, from Macalester College in St. Paul, MN, where he started teaching from 1967.

At Queen's Dr. Smith taught courses on Conspiracy and Dissent in American History, US For-

eign Relations, Latin American History, the Vietnam War, and American Social and Cultural History.

In 2004 he received the Frank Knox Award for Excellence in Teaching.

Dr. Smith has written widely on issues related to peace history, gender and US national security in the Cold War, the relocation of Japanese minorities in the US and Canada during Second World War, and American nativism. His 1973 monograph, *To Save a Nation: American Extremism, the New Deal and the Coming of World War II*, was nominated for a Pulitzer Prize.



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## New radio show tunes in to research

BY MARK KERR, SENIOR COMMUNICATIONS OFFICER

Even at a time when graduate students increasingly turn to social media to promote their research, the radio interview still has something to offer, according to Queen's School of Graduate Studies.

In collaboration with CFRC 101.9FM, SGS has created Grad Chat, a 30-minute weekly show that premieres Jan. 4 on the campus community radio station.

"Grad Chat is a great opportunity for graduate students to showcase and promote their research to the local community," says Colette Steer, Manager, Recruitment and Events, School of Graduate Studies, and host of the program. "This show aims to reach new audiences and educate those listeners about the impact Queen's researchers are having on the world around them."

Scott Lougheed, an Environmental Studies PhD candidate, and

**"Grad Chat is another way students can gain experience speaking to the media and distilling their research into relevant, relatable stories."**

— Scott Lougheed

Fallon Bowman, a master's student in the Department of Classics, are featured on the first episode. Mr. Lougheed was intrigued by the challenge of presenting his research on food production waste to a broader audience.

"Grad Chat is another way students can gain experience speaking to the media and distilling their research into relevant, relatable stories," he says. "Another major benefit is that it allows us to speak about the current state of our research in a way that isn't captured by other things like ResearchGate, departmental profile pages, or our CVs."

Mr. Lougheed says he was nervous a few days before taping his segment for the show, but those jitters disappeared when he got in to the studio. He has simple advice for his peers who might be intimidated by the prospect of doing a radio interview.

"Don't over-practice and just act natural."

Grad Chat airs on Mondays at 4 pm during the winter term. The schedule, which includes guest bios, is posted on the SGS website.

In addition to graduate students, Ms. Steer wants to interview alumni in future episodes. "I think current graduate students would like to hear from alumni talk about their time at Queen's, and how their graduate degree helped them get to where they are today."

Ms. Steer is still looking for graduate students to interview. If you are interested, you can fill out an interviewee form and email it to Ms. Steer or drop it off at the SGS office (Gordon Hall, Room 425).



UNIVERSITY COMMUNICATIONS

Scott Lougheed (Environmental Studies) is featured on the first episode of Grad Chat, a new radio program developed by the School of Graduate Studies and CFRC. The show airs on Mondays at 4 pm.

### gradstudies

#### SGS Notices

The School of Graduate Studies congratulates Brendan Cull (Ph.D. student, Art History) who was awarded the Royal Society Prize for his paper "Early Canadian Photographic Botanicals at the Exposition Universelle, Paris 1867".

#### Open Thesis Defenses Tuesday, Jan. 12

Sima Zakani, Mechanical and Materials Engineering, 'Tracking Translations in the Hip and Shoulder Joints.' Supervisor: R. Ellis, 312 McLaughlin Hall, 12:30 pm.

#### Tuesday, Jan. 19

Feng Zhang, Computing, 'Towards Generalizing Defect Prediction Models.' Supervisor: Y. Zou, 524 Goodwin Hall, 9:30 am.

### I@Q submissions due Jan. 29

Help mark the 10th anniversary of the Inquiry@Queen's Undergraduate Research Conference.

We invite all undergraduate students with research results to submit an abstract for the 10th annual conference to be held March 10-11 in the Queen's Learning Commons.

The deadline for the submission of proposals is Jan. 29.

For more information on submitting a proposal, see our website: [www.queensu.ca/iatq/iq-undergraduate-research-conference](http://www.queensu.ca/iatq/iq-undergraduate-research-conference)

For questions, please contact [iatq@queensu.ca](mailto:iatq@queensu.ca)

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# Doing the work 'I believe in'

BY WANDA PRAAMSMA,  
COMMUNICATIONS OFFICER

Over the past five years, Queen's alumna Jennifer Langill (Artsci'15) has crossed the globe several times, moving back and forth between Canada and Laos. A brief volunteering trip took her to Laos in 2010, and ever since, she's felt a pull to the country, and to helping families and individuals there achieve financial stability and longevity.

"Many people ask me what made me fall in love with Laos and what makes me keep going back to do development work there," says Ms. Langill, who is working in a small village in Laos' northern central region at the moment, on an OceanPath Fellowship offered through Queen's University International Centre (QUIC).

"It wasn't just one thing – it was a huge accumulation of experiences, with locals and the lifestyle. I also felt very passionate about development, and working with a more sustainable, long-term approach."

The OceanPath Fellowship has been very important in that respect. Offered by the Coady International Institute, and formerly called the Pathy Family Foundation Fellowship, OceanPath provides funding to graduating students to pursue a project that fosters sustainable and positive social change in communities in

Canada and around the world.

"This fellowship allows me to do the work I believe in, in a manner I believe in," says Ms. Langill, who majored in Global Development Studies (DEVS) and earned the International Studies Certificate through the International Programs Office at Queen's.

"I've learned through my time spent overseas that so much development work is rushed and about finding one answer for all, and I've never believed that. I think each individual, family or group has its own circumstances and goals, and I try to bring that philosophy to the work I'm doing in Laos."

Every day is different for Ms. Langill, who recognized during earlier trips the seasonal nature of the locals' work in the rice fields. Ultimately, she spends her days meeting with families and individuals, cultivating relationships and trust so she can help them plan their finances, develop goals – whether it be increasing farming yields or starting a family business – and save for the things that are most important to them. Ms. Langill is able to offer interest-free loans, and she works with the various participants at all stages to support their projects and repayment.

"It's amazing what you see in a relatively short period of time. I began this fellowship in September and in a few short months, the people I'm working with have become much more financially

aware. Each person is so different and I customize the work to where each person is at, often asking, what are you working towards?"

Working overseas can feel daunting at times, but Ms. Langill says she's benefitted from early travel experiences. She first went on exchange alone in Grade 9 to Australia, and has kept going abroad since. During her degree at Queen's, she spent many months in Laos, including summers. Independent research she conducted while in Laos formed the basis of her DEVS undergraduate thesis.

"I learned to travel and be alone very early, and those experiences gave me the context I needed to do this kind of work in Laos," she says.

That said, she encourages other students to apply for the OceanPath Fellowship, whether they have a lot of international experience or just a little. QUIC staff member Cathy Lemmon feels the same way.

"If students have a great idea and a connection to a community, then it doesn't matter so much how much time they've spent abroad. More important is their enthusiasm and desire to make a difference," says Ms. Lemmon, International Programs Adviser, QUIC.

For more information, visit QUIC's website for the OceanPath Fellowship [quic.queensu.ca/education-abroad/pff-community-leadership-program/](http://quic.queensu.ca/education-abroad/pff-community-leadership-program/).



SUPPLIED PHOTOS

Jennifer Langill (Artsci'15) works with families and individuals in Laos to help plan their finances and develop long-term, sustainable goals. She is in the country on an OceanPath Fellowship offered through Queen's University International Centre (QUIC).



## throughthelens



Incoming international exchange students received tricolour mittens or a scarf thanks to a donation by the Campus Bookstore.

## Warm welcome

Queen's University International Centre (QUIC), along with representatives of the academic faculties, provided a day of orientation events for incoming international exchange students on Sunday, Jan. 3.

While the freezing temperatures were late in arriving this year, for many of the students from warmer locales, the Canadian winter can be daunting. In order to give them a warm start, participating students could choose between tricolour mittens and scarves that were donated by the Campus Bookstore.

More than 200 new international exchange students are beginning their studies at Queen's for the winter term.



PHOTOS BY BERNARD CLARK

Ann Tierney, Vice-Provost and Dean of Student Affairs, welcomes incoming international students to Queen's University.

# Awards recognize contributions of staff

BY COMMUNICATIONS STAFF

The Queen's community gathered together at the Principal's Holiday Reception on Dec. 8 to recognize and celebrate staff contributions over the past year.

Caroline Davis, Vice-Principal (Finance and Administration), offered remarks on behalf of Principal Daniel Woolf, who was in Sweden for the presentation of the Nobel Prize in Physics to Professor Emeritus Art McDonald. She also presented Queen's Special Recognition for Staff Awards to eight deserving individuals. The award winners are:

**Kathy Baer**, undergraduate assistant and departmental secretary in the Department of Gender Studies. She is first point of contact for most faculty, teaching fellows, assistants and students. She has played an integral role in planning and managing the growth of the undergraduate program through tracking and analysis of course enrolments. As a friend and mentor, she regularly goes beyond what is expected. She balances the nitty-gritty detail of administrative work with compassionate care for countless current and prospective students, as well as supporting the instructors who teach them.

**Kimberley Bell**, services coordinator in the W.D. Jordan Special Collections and Music Library. She has served in a number of different positions since joining Queen's Library in 1988, embracing every new role along the way by enrolling in additional courses and expanding her knowledge. Her commitment to public service in general and individual patrons in particular is unmatched. She always goes the extra distance to learn about and locate information. She also likes to make the



Caroline Davis, Vice-Principal (Finance and Administration), centre, presented the Special Recognition for Staff Awards to, from left: Françoise Sauriol; Kathy Reed; Tice Post; Carol Noel; Andy Hooper; Agathe Nicholson; Kimberley Bell; and Kathy Baer.

workplace fun. She is the key organizer of the Library's longstanding spelling bee.

**Andy Hooper**, manager of technology development in ITS. He has worked at Queen's for 34 years, playing a central role in the introduction of new information technology and other core services to the Queen's community. His modest, quiet and unassuming nature belies his accomplishments in leading the design and engineering of the Queen's campus network. His deep institutional knowledge and sage advice is valued both inside and outside the university. His dedication to the university, along with his innovative and analytical approach to problem solving, have made him a go-to source across the institution.

**Agathe Nicholson**, administrative assistant in the Department of French Studies. Ms. Nicholson brings the same discipline, drive and dedication to the workplace

as she does to her passion for running. The speed at which she accepts increasingly challenging responsibilities has helped to make her the most knowledgeable, approachable and resourceful person in the department. She played a key role in the department's transition to the new budget model. Ms. Nicholson is generous with her time outside the office – finding warm clothing, food and other winter items for international students.

**Carol Noel**, departmental assistant in the Department of Biology. Over the past 30 years, she has developed a deserving reputation as the go-to person in the department. Her attitude and cheerful energy makes her stand apart. As financial administrator, her approach centres on the importance of people. Without her care, many faculty members would not be able to negotiate the minefield of operational budgets and the complexities of hiring staff. Ms. Noel

remains optimistic and friendly in the face of different challenges, and is always willing to accept new challenges and last-minute requests.

**Tice Post**, departmental technician in the Department of Biology. His title does not do justice to the exceptional and creative contributions he has made to the department since his arrival in 1971. A combination of inventor, designer and carpenter, Mr. Post has an exceptional ability to take an idea and bring it to life. His experience and practical talents are prodigious; he is able to make anything out of almost nothing, and in half the time anyone else could promise – and always with a smile.

**Kathy Reed**, research ethics coordinator for the Health Sciences and Affiliated Hospitals Research Ethics Board. She has worked at Queen's since 1976 and in her current position for nearly 25 years. Ms. Reed is always happy to go

the extra mile to work with researchers and staff to ensure that they understand the research ethics process. She embraces the changing work environment and its many challenges. She has a wealth of institutional knowledge and appreciation of evolving regulations and how they impact the research ethics process.

**Françoise Sauriol**, nuclear magnetic resonance manager in the Department of Chemistry. Easily approachable, an excellent teacher and mentor, Ms. Sauriol is more of a collaborator than a technical staff member. She has trained more than 700 users on NMR instruments in the facility, which is the most critical and commonly used in the department. She keeps current on the latest software and development in NMR technologies. Many graduate students and faculty members have benefited from her exceptional efforts in helping to solve difficult research problems.

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## eventscalendar

### Wednesday, Jan. 13, 2-3 pm Town Hall featuring SSHRC President, Dr. Ted Hewitt

Dr. Ted Hewitt, President of the Social Sciences and Humanities Research Council of Canada (SSHRC), will speak on "Talent, Insight and Connection: Supporting Excellence in Research and Research Training" followed by an interactive discussion at the University Club.

### Wednesday, Jan. 13, 4-5 pm Artist Talk: Brendan Fernandes

At the Agnes Etherington Art Centre, Brendan Fernandes will discuss his practice as it relates to the African object and ballet, touching on imaginaries of "Global Africa" and exigencies of the continent in the current phase of capitalism. His exhibition *Brendan Fernandes: Lost Bodies* will be on view until April 10.

### Thursday, Jan. 14, 5-7 pm Winter 2016 Season Launch

Join us at the Agnes Etherington Art Centre for a reception and launch for *Brendan Fernandes: Lost Bodies, Singular Figures: Portraits and Character Studies in Northern Baroque Painting, Renew: Indigenous Art from the Collection and With You and Others*. Brendan Fernandes will present *In Touch*, a fiercely controlled solo dance in the galleries. All are welcome and refreshments will be served.

### Monday, Jan. 18, 12-1:30 pm QUIC International Community- Building Lunch

Students, staff, and other members of the university community are invited to this event at the JDUC. QUIC will be serving vegetarian soup, using a traditional Jamaican

recipe. Free. Come in, bring a friend or two, meet some new people, and form new community connections. For more information, contact nilani.loganathan@queensu.ca / 613.533.6000 x74649

### Tuesday, Jan. 19, 10:30 am-Noon Open Spaces: Program Evaluation

What is program evaluation? It is the process of gathering and analyzing information to measure and assess a program. In this session, at F200 Mackintosh-Corry, Suzanne Maranda, Bracken Health Sciences Library, will outline her research on "Medical Information Literacy: A Longitudinal Program Evaluation."

### Tuesday, Jan. 19, 10:30 am-3:30 pm Summer Opportunities Fair

The annual summer opportunities fair offers a venue for students and organizations seeking summer workers to connect. This fair is being held at the Athletics and Recreation Centre. Follow #careerfairqueens on Twitter for more info and updates on this event.

### Tuesday, Jan. 19, 3-4 pm Forest Ecosystems presentation

Adrien Djomo, Adjunct Assistant Professor and Research Associate in Geography and Planning, will present "Forest Ecosystems Measurement and Modeling in a Changing Environment" at Mackintosh-Corry Hall, Room D214.

### Thursday, Jan. 21, 5:30-6:30 pm John Austin Society for the History of Medicine and Science

At the University Club, Albert Jin (Neurology, Department of Medicine) will be speaking on "Stroke and Insight from the Centaur, the Virtuosi

Assistant and the First American Woman President."

### Saturday, Jan. 23, 4 and 7 pm Play Reading

A special reading of the winning plays of the 2015 Herman Voaden Playwriting Competition will take place in Theological Hall, Rotunda Theatre: First Place - Theory by Norman Yeung. Second Place - Lac/Athabaska by Len Falkenstein.

### Saturday, Jan. 23, 2-3 pm Acts of Reading

At the Agnes Etherington Art Centre, join Kevin Rodgers, curator of *With You and Others*, and special guests for a series of in-depth discussions of particular artists' books in this unique exhibition. For each session, a guest lecturer will select books from the exhibition *With You*

and *Others* to discuss topics such as the deadpan, architecture, intimacy and the sensuous nature of reading. On 23 January Kevin Rodgers will lead a conversation on artists' books and their function as text, image and object. Kevin Rodgers is an artist. A graduate of the doctoral program in Art and Visual Culture, Western University, he served as the Artistic Director of Modern Fuel Artist-Run Centre in Kingston 2012-2015.

### Tuesday, Jan. 26, 1:30-4 pm Researching Your Practice: An Ideas Exchange for Educational Research

Facilitated by Dr. Klodiana Kolomitro, Centre for Teaching and Learning; and Dr. Cory Laverty, Queen's University Library. The Centre for Teaching and Learning is committed to encouraging and supporting scholarly inquiry into student

learning. This ideas exchange session is a first step in developing a nexus for communication and collaboration, and in facilitating the growth of a scholarly community. F200 Mackintosh-Corry Hall.

### Wednesday, Jan. 27, Noon-12:30 pm Lunchtime Breathing Meditations

Ban Righ Centre, Third Floor Room, with Roberta Lamb. Protect your mind against stress with a 30-minute breathing meditation. All are welcome - students, staff, faculty, women & men! Anyone who needs relaxation and a calm mind. No meditation experience necessary. Each session is self-contained.

If you have an upcoming event, you can post it to the *Calendar of Events at eventscalendar.queensu.ca/*, or contact [andrew.carroll@queensu.ca](mailto:andrew.carroll@queensu.ca).

### ACROSS

- 1) "And another thing ..."
- 5) Book with maps
- 10) Leopard feature
- 14) Salon work
- 15) Grandiose or flashy
- 16) Strip a fruit
- 17) Radius, to diameter
- 20) Put in
- 21) Tempts
- 22) Pinch of seasoning
- 25) Hackman of "Hoosiers"
- 26) Do one's part?
- 29) Where the worm turns
- 31) Villain
- 35) Long scarf
- 36) Overpromoted
- 38) Cotton-pickin' contraptions
- 39) What landlords hate
- 43) Double-decker part
- 44) Musical drama
- 45) Time span
- 46) Roller coaster reaction
- 49) Bygone despot
- 50) Scheider of "Jaws"
- 51) Svelte
- 53) Barbecue accessory
- 55) Chains of connected ideas or passages
- 58) Recessed area
- 62) Complete account
- 65) Having sufficient skill
- 66) Cleverly avoid
- 67) Type of candy or cider
- 68) Onetime Turkish governors
- 69) Asian goatlike animal
- 70) Ages upon ages

### DOWN

- 1) Feel sore
- 2) Bit of bank business
- 3) River deposit
- 4) Killed, mobster-style
- 5) Baseball hat material
- 6) \_\_\_ Lord's Prayer
- 7) Valuable vein
- 8) On \_\_\_ and a prayer
- 9) Gambler's claim to beating the odds
- 10) Period beginning with Sputnik
- 11) Window square
- 12) Middle-Earth menaces
- 13) Golf prop
- 18) Like some novels
- 19) Pitchfork prong
- 23) Tofu bean (Var.)
- 24) Zoo heavyweight, briefly
- 26) Assists in a crime
- 27) Laughable
- 28) Grow narrower
- 30) Was a bounder?
- 32) San Fran pro
- 33) Foreword, briefly
- 34) English-class assignment
- 37) Bride's purchase
- 40) Railroad bridges
- 41) Keep from escaping
- 42) Boat harbor
- 47) Downwind, nautically
- 48) Saucy misses
- 52) Syrup source
- 54) One-tenth payment
- 55) Die
- 56) Country friendly to yours
- 57) Speak unclearly
- 59) "See you, signore"
- 60) It's hit in traffic jams?
- 61) Loose things to tie up?
- 62) "Incredible!" to Beatie fans
- 63) Rapid bustling movement
- 64) In mint condition

### GET YOUR FILL

By Tim Burr

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

# A standout on the football field and off

BY ANDREW CARROLL,  
GAZETTE EDITOR

As good as he is on the football field, Curtis Carmichael is more remarkable off of it.

Having volunteered with a number of local organizations supporting the disadvantaged as well as youth with physical disabilities, Carmichael (PHE'16), a receiver with the Queen's Gaels, is the 2015 recipient of the Russ Jackson Award.

The CIS award recognizes excellence in football, academics and citizenship and Carmichael certainly meets all the criteria.

The work that Carmichael does – from volunteering at a drop-in centre for marginalized adults in Kingston to helping an orphanage in Romania – is anchored in his faith. It also comes from his mother, who he says is his role model. Giving to the community is a central part of his life.

"I try to do things in environments where people wouldn't normally go or different environments where people are disadvantaged," he says. "So I do a lot of stuff with Nightlight in Kingston, which is a drop-in cen-

tre for marginalized adults. You meet a wide range of adults there. People with mental illness, physical disability, you meet people who are addicts on the street."

Carmichael says that through his volunteering he meets a wide range of people that he wouldn't meet on campus.

And while he is helping people in the here and now he is also gaining experience for life after school.

That plan includes going to teacher's college after graduating this year. His dream is to be a teacher and a missionary.

"I love to teach in an environment where I can also have the capacity to work with kids who are disadvantaged, whether it is through the church or a community organization," he says. "I would love to do that kind of work, to continue to work with different populations that are disadvantaged, but also be able to have the qualifications to teach, maybe in a town or village I find myself where kids really don't have access to education. That's my kind of mentality – teachers college then maybe missionary work down the road."



Curtis Carmichael of the Queen's Gaels football team receives the Russ Jackson Award from Russ Jackson himself. The award recognizes excellence in football, academics and citizenship.

Carmichael is the fourth Gael to receive the prestigious award, following Curt McLennan (2003), Jock Climie (1989) and inaugural winner Charlie Galunic (1986).

In his fourth season with the Gaels, Carmichael led the team with 34 receptions and finished with 520 yards and four touchdowns.

His generosity and leadership shows up in the locker room and

on campus as well.

He says that while he loves football he knows that an athlete's identity can get lost "when we think we are only valued by the sport." It's a message he has shared with teammates.

"So with a lot of my teammates we are always encouraging guys to not to just focus on just one thing. Have fun out there. As much as football is a serious thing

I found that the most successful that I have been on the field is when I had the most fun," he says. "This year I wasn't as tunnel-visioned but I just tried to be more team-oriented and I found that it benefitted more areas of my life."

His efforts are recognized at Queen's as well.

"Curtis has become an excellent football player and a team leader here at Queen's," says Gaels head coach Pat Sheahan. "His commitment to his team, university and community puts him in a class all by himself. I, along with the entire university, am extremely proud of him."

Carmichael also volunteers as a physical education teacher at two local high schools with a high number of single-parent and low-income families. On campus, he is a member of a student group of volunteers who assist young children with intellectual disabilities in the "Queen's Adapted Games." He has been involved with Athletes in Action and is a member of "Navigators," a group on campus that meets with younger university students for bible study and to promote a healthy balanced living.

# A heads-up approach to sports safety

BY CHRIS ARMES,  
COMMUNICATIONS OFFICER

Concussions in youth sport have received wide-reaching attention over the past decade. Recent legislation introduced in Ontario aims to set province-wide guidelines for treatment of concussions and return-to-play protocols. Closer to home, Queen's University student-athlete Allen Champagne (MSc'17) has launched an education program to teach youth football players how to play the game safely while reducing the risk of concussions.

"Having both a football background and a neuroscience background, I saw a perfect opportunity to merge them," says Mr. Champagne, who is currently conducting research on concussions alongside Dr. DJ Cook (Medicine). "The program brings together graduate students, medical students and athletes to create the ultimate program, where we can educate young athletes about concussions and then use on-field drills to reinforce the lesson."

A defensive lineman for the Queen's Gaels, Mr. Champagne designed the Concussion Education, Safety and Awareness Program (CESAP) to promote concussion awareness and teach young



Queen's Gaels defensive lineman Allen Champagne (MSc'17) has combined his passion for football with his research in neuroscience to create a concussion education program aimed at making the game safer for young athletes.

athletes safe techniques to reduce their risk of concussions. Using behaviour modification, he hopes to make players recognize unsafe techniques, such as leading with their helmets into contact. In correcting players' techniques, he aims to improve their on-field performance while reducing the likelihood of concussions.

The program was inspired by research conducted during his undergraduate studies at the University of North Carolina at Chapel Hill under Dr. Kevin Guskiewicz.

Players in a similar educational program showed a decrease in the number and intensity of helmet impacts over the course of a season, as measured using helmet-mounted accelerometers.

"The CESAP program Allen has designed emphasizes the need for proper technique and safer contact," says Pat Sheahan, head coach of the Queen's Gaels football team. "This will bring greater local attention to the important issue of concussion awareness and will make the game safer for players."

Over the course of the half-day program, players, coaches and parents are first taught about concussions – how they occur and what signs and symptoms may appear. Players are also taught how to ensure their helmets and shoulder pads are properly sized, as well as the importance of safe play.

Following the seminar, players suit up for approximately two hours of position-specific on-field drills. Under the watchful eyes of volunteer coaches (many of whom are current and former Gaels), the players' technique will be analyzed for any unsafe or at risk behaviour. Drills will be conducted at half-speed and in partial equipment – with shoulder pads and other gear, but without helmets – in order to reinforce the importance of not using the helmet in contact. The aim of the drills will be to instill safe blocking and tackling techniques that will carry over from the practice field to game situations – improving performance and reducing the rate of concussive injuries.

"Football is a contact sport and we will never eliminate the risk of concussions entirely," says Mr. Champagne. "However, by improving technique, we give players the opportunity to play the game they love a little safer."

## fittips

### New Year's resolutions

It's that time of year again, resolution time!

Don't be discouraged by failures of the past, look towards 2016 as an opportunity to improve on something awesome! (that's you)

Here are a few tips to help you rock your resolution.

1 – Be realistic, set achievable goals. Instead of saying you want to lose 30 pounds this year. Set a goal of 2.5 pounds each month and focus on that month.

2 – From wearable tech to apps on your smartphone, use technology to remind you to be active and 'Get Your 150'.

3 – Schedule check-ins on your calendar. Once a month ask yourself, how's your resolution going? Leave encouraging notes to keep you motivated.

4 – Don't let a little slip stop you. Life is busy, don't let a short fall in your goal be the end of your resolution. Look at the next day as a fresh start to your goal.

## HRworkshops

Queen's Human Resources offers a variety of individual workshops as well as lunch and learn sessions. See below for more information about a few of the upcoming sessions offered in the coming weeks. Visit the HR website to view the entire learning catalogue and to sign up.

Did you set a career goal for 2016? Perhaps a workshop offered by Human Resources could help you keep your resolution.

### Effective Communication: Influencing Colleagues and Supervisors

Tuesday, Jan. 19, 9 am-noon, Seminar Room, Mackintosh-Corry Hall B176

This workshop allows participants to assess their assertiveness style and use this information to develop skills needed to express themselves directly and honestly. Participants learn techniques to communicate concisely, identify core issues and focus the dialogue accordingly. Participants learn to understand their audience in order to tailor their communication appropriately.

### Anti-Oppression in the Workplace

Wednesday, Jan. 20, 1-4 pm, Seminar Room, Mackintosh-Corry Hall B176

This session helps participants define oppression as it relates to eq-

uity-seeking groups in Canada as well as identify various forms of oppression and the ways in which they are sustained by institutional, political, economic, cultural and other power structures. Participants also learn how to develop strategies they can draw upon to create communities and workplaces that are anti-oppressive for all people, particularly those most affected by inequity.

### Diversity at Queen's

Thursday, Jan. 21, 9 am-noon, Seminar Room, Mackintosh-Corry Hall B176

This workshop, presented in partnership with Queen's University International Centre and the Human Rights Office, includes legislation information, scenarios and the opportunity to interact and share perspectives with international students.

### Queen's Volunteer Engagement Certificate Module 3: Setting Volunteers up for Success – Orientation and Training

Thursday, Jan. 21, 1-3 pm, Seminar Room, Mackintosh-Corry Hall B176

Learn how Alumni Relations and Annual Giving have developed a comprehensive orientation strategy for close to 300 student volunteers each year to prepare them for Homecoming weekend. Templates and tools will help you create a consistent and standardized orientation program.

## fortherecord

### Committees

#### Headship Search Committee — Department of Emergency Medicine

In accordance with the Senate document governing the Appointment of Clinical/Academic Department Heads that was approved on March 26, 2009, the Provost and Vice-Principal (Academic) of Queen's University and the Chief Executive Officers of Hotel Dieu Hospital and Kingston General Hospital have established a joint search committee to provide advice on the headship and the present state and future prospects of the Department of Emergency Medicine. The composition of the committee is:

- Ms. Silvie Crawford, Executive Vice-President & Chief Nursing Officer, Kingston General Hospital
- Dr. Damon Dagnone, Assistant Professor, Department of Emergency Medicine
- Dr. Michael F. Fitzpatrick, Chief of Medical & Academic Affairs and

Chief of Staff, Hotel Dieu Hospital

- Mr. Jacob Gordner, Medical student representative

- Ms. Audrey Hunt, Departmental & Financial Administrator, Department of Emergency Medicine

- Dr. Annette McCallum, Head, Department of Diagnostic Radiology

- Mr. Mike McDonald, Chief of Patient Care and Chief Nursing Executive, Hotel Dieu Hospital

- Dr. Heather Murray, Associate Professor, Department of Emergency Medicine

- Dr. Richard Van Wylick, Associate Professor, Department of Paediatrics

- Dr. Matthew White, Resident representative, Department of Emergency Medicine

- Dr. David T. Zelt (co-chair), Executive Vice President and Chief of Staff, Kingston General Hospital

- Dr. Richard K. Reznick (co-chair), Dean, Faculty of Health Sciences

- Ms. Andrea Sealy (Secretary), Senior Staffing Officer, Faculty of Health Sciences

Faculty, staff, students, residents and all other members of the hospital and university communities, are invited to submit their comments, in writing, on the present state and future prospects of the department as well as the names of possible candidates for the headship and the reasons for supporting each nominee. Written submissions are to be directed to the co-chairs c/o Andrea Sealy, Faculty of Health Sciences, Macklem House, 18 Barrie Street, Queen's University, Kingston, Ontario, K7L 3N6 and electronic submissions can be forwarded to andrea.sealy@queensu.ca. While submissions will be accepted throughout the search process, it will be advantageous for the committee to have them early on. Please note that committee members are required to maintain confidentiality regarding the committee's deliberations and comments, which are shared with committee members, are also confidential. Anonymous submissions will not be considered.

## humanresources

### Job postings

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

■ **Competition:** 2016-002

**Job Title:** Senior Manager, Program and Administration

**Department:** Queen's University Biological Station

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

**Hours per Week:** 35

**Appointment Terms:** Continuing Appointment

**Closing Date:** 06-Mar-2016

■ **Competition:** 2015-331

**Job Title:** Sexual Violence Prevention and Response Coordinator

**Department:** Human Rights Office

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

**Hours per Week:** 35

**Appointment Terms:** Continuing Appointment

**Closing Date:** 31-Jan-2016

■ **Competition:** 2015-343

**Job Title:** Director, Government and Institutional Relations

**Department:** Government and Institutional Relations, University Relations

**Hours per Week:** 35

**Appointment Terms:** Continuing Appointment

**Closing Date:** 20-Jan-2016

■ **Competition:** 2015-346

**Job Title:** Clinic Director

**Department:** Psychology Clinic

**Hours per Week:** 35

**Appointment Terms:** Term Appointment (13 months)

**Closing Date:** 31-Jan-2016

■ **Competition:** 2015-348

**Job Title:** Events Coordinator/ Office Assistant (USW Local 2010)

**Department:** Chemical Engineering

**Hiring Salary:** \$39,199 (Salary Grade 5)

**Hours per Week:** 35

**Appointment Terms:** Term Appointment until March 10, 2017

**Closing Date:** 13-Jan-2016

### Successful Candidates

**Job Title:** Student Resource Assistant (USW Local 2010)

**Department:** Faculty of Arts and Science

**Competition:** 2015-217

**Successful Candidate:** Carrie

Roosenmaallen (Student Records & Services)

■ **Job Title:** Arts Stage Technician (USW Local 2010)

**Department:** Isabel Bader Centre for the Performing Arts

**Competition:** 2015-164 (A & B)

**Successful Candidate:** Patrick O'Neill (IBCPA) and Aaron Holmberg

■ **Job Title:** Special Project Assistant, 175th Anniversary (USW Local 2010)

**Department:** Marketing (University Relations)

**Competition:** 2015-169

**Successful Candidate:** Celia Russell

■ **Job Title:** Facilities Supervisor

**Department:** Residence Facilities (Housing & Ancillary Services)

**Competition:** 2015-137

**Successful Candidate:** Eric Lloyd

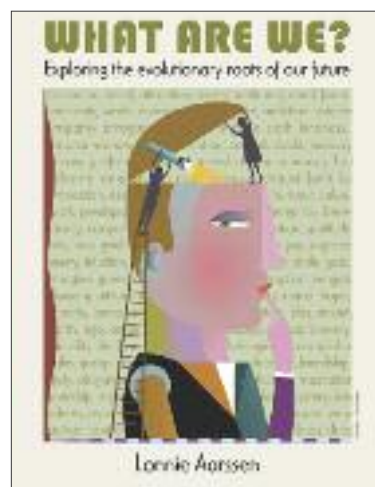
## books

*What Are We? Exploring the Evolutionary Roots of Our Future* by **Lonnie Aarssen** (Biology)

Humans are fascinated with themselves. What are we? Do our lives mean something? Our obsession with these questions is why the arts and humanities exist. And yet, their long history of success is built on a celebrated pluralism of interpretation for the human experience. Ironically, the "What are we?" question is required here to remain essentially unanswered — an enduring and revered mystery.

But evolutionary biology has, with wide consensus in recent decades, given us a very clear and certain perspective of what we are: We are an animal among many millions of others, the vast majority of which have long been extinct — a species that is only about 300,000 years old, but descended from a long lineage, most of which was not human. These discoveries have given us what the arts and humanities never could, and never aspired to find: vital insights into how and why human nature, social life, and culture have come to be what they are, and so uniquely different from other species.

This book is a survey of these in-



sights from Darwinism — insights that have never been met with enthusiasm from the general public, nor from many professionals. But a deeper, more concise, and more broadly public understanding of our evolutionary roots has never been more urgent. We are now faced with the daunting task of surviving the impending collapse of modern civilization, and the challenges of designing a new, more sustainable and more humanistic model for our descendants. And our greatest limitation may be that we don't really know ourselves very well at all.

### PUZZLE SOLUTIONS

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EMPTY	APARTMENTS	
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	SLIM	SPIY
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NO Hidden Fees  
EVER!***

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\*excludes Carr-Harris Cup

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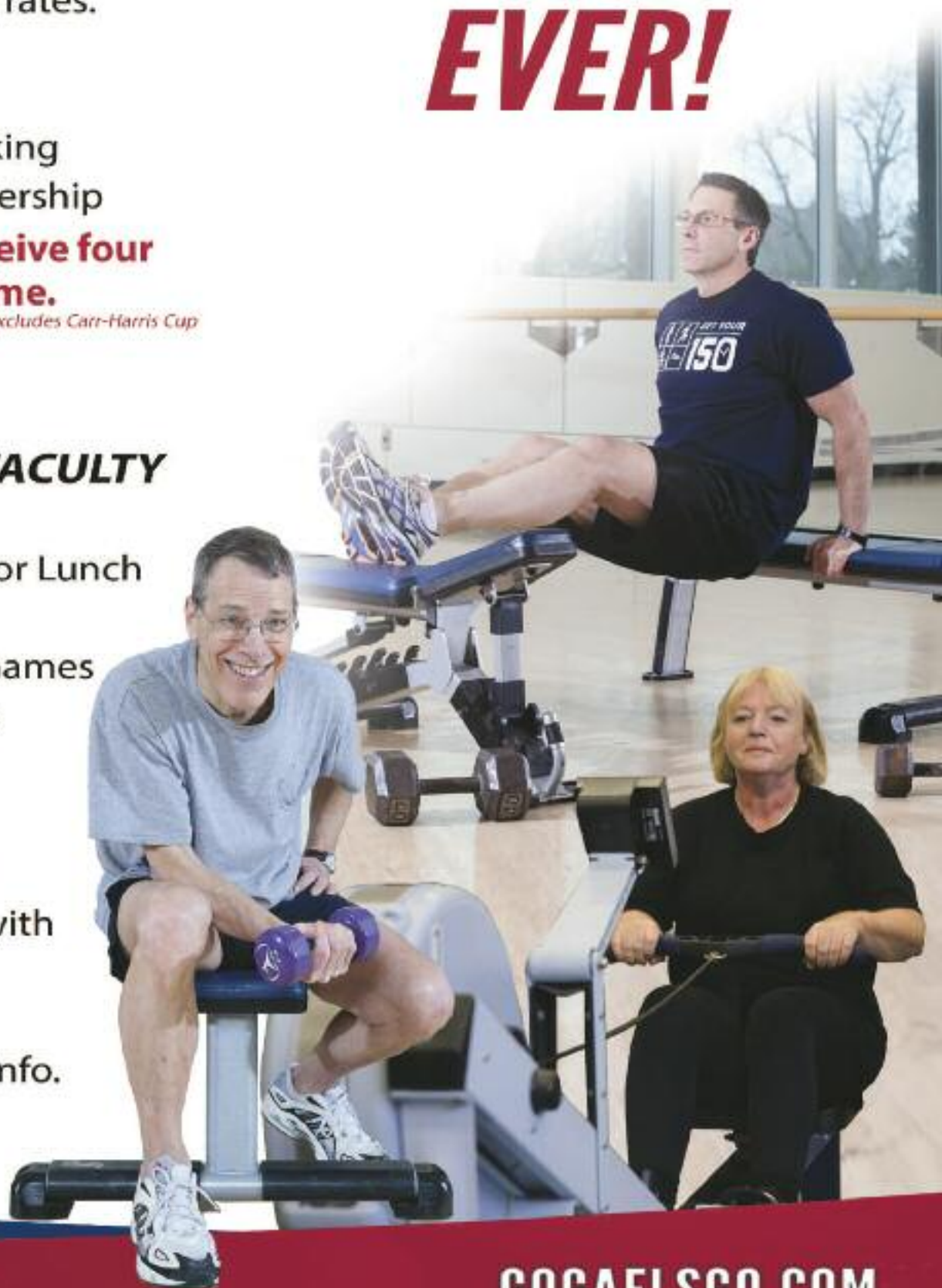
- \* Lifting Through Breakfast or Lunch
- \* Lunch Fit
- \* Recreational Fitness and Games

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