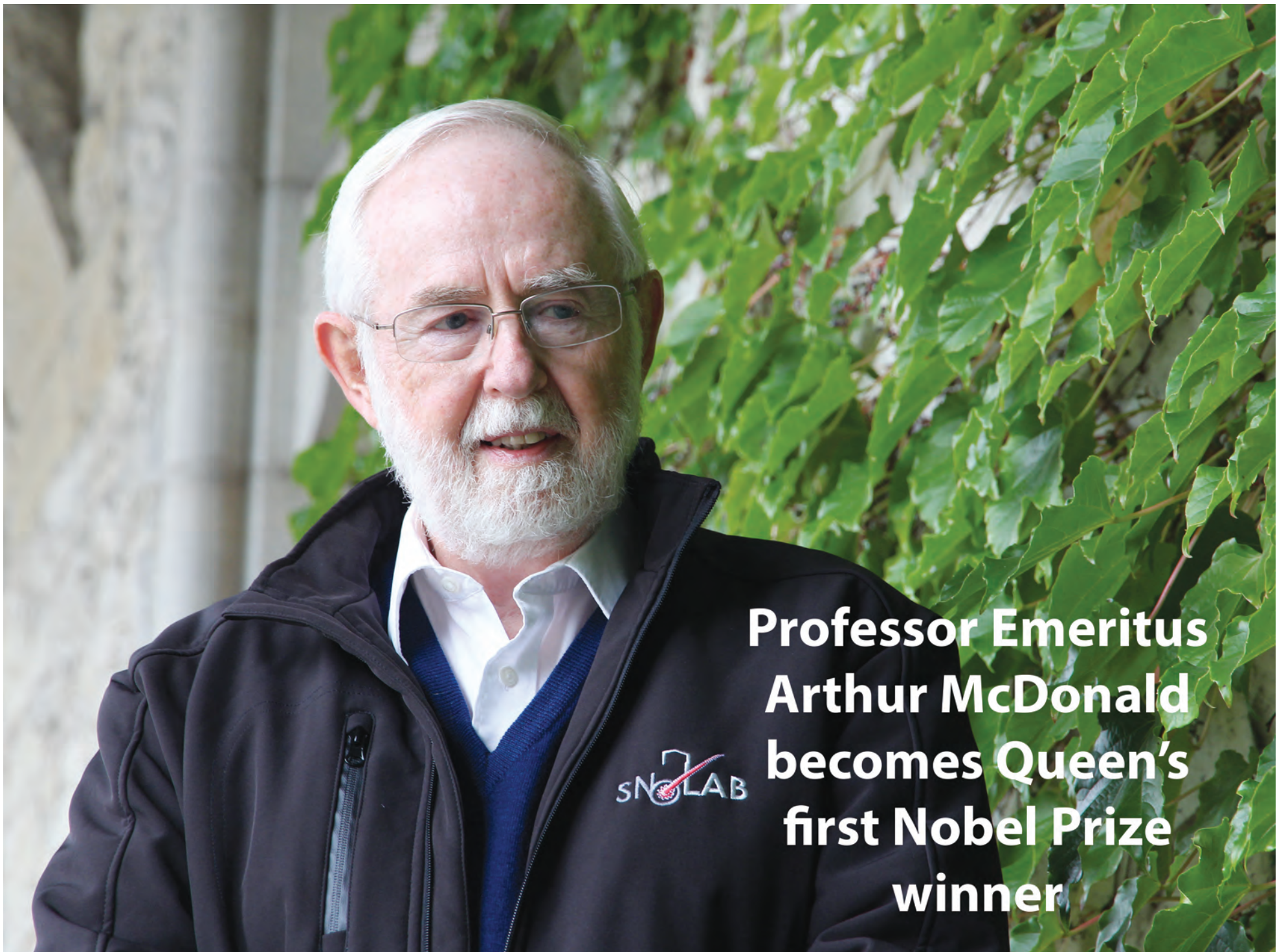


# the **gazette**

Queen's University's newspaper of record since 1969 ■ [queensu.ca/gazette](http://queensu.ca/gazette) ■ October 20, 2015

## QUEEN'S NOBEL LAUREATE



**Professor Emeritus  
Arthur McDonald  
becomes Queen's  
first Nobel Prize  
winner**



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UNIVERSITY COMMUNICATIONS

**Professor Emeritus Arthur McDonald was in demand after winning the 2015 Nobel Prize in Physics on Tuesday, Oct. 6, for his research on neutrinos. Whether it was local, national or international media, or even selfie-seeking students, Dr. McArthur took time to talk.**



## the gazette

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**QUEEN'S UNIVERSITY VICE-PRINCIPAL (UNIVERSITY RELATIONS)**  
Michael Fraser

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# Neutrinos breakthrough earns Nobel

BY ANDREW CARROLL,  
GAZETTE EDITOR

Usually a call at 5 am doesn't bring good news.

For Queen's University Professor Emeritus Arthur McDonald that early-morning call on Tuesday, Oct. 6 would drastically change his life – for the better.

He had just been awarded the 2015 Nobel Prize in Physics.

The announcement, made by the Royal Swedish Academy of Sciences in Stockholm, said Dr. McDonald won the award, along with Takaaki Kajita of the University of Tokyo, "for their key contributions to the experiments which demonstrated that neutrinos change identities."

Upon receiving the call Dr. McDonald says he had a feeling of "tremendous accomplishment by our team."

"I am truly honoured to receive the Nobel Prize in Physics," Dr. McDonald says. "While I am a co-winner of the Nobel Prize, the honour really represents a culmination of the hard work and contributions of Canadian and international colleagues with whom I have collaborated with during my career."

It was a momentous day not only for Dr. McDonald but for Queen's as well.

"I want to offer my heartfelt congratulations to Dr. McDonald on this significant achievement," says Daniel Woolf, Queen's Principal and Vice-Chancellor. "Dr. McDonald's scientific contributions have advanced our understanding of the universe, and also set the path for new directions in the study of physics and astronomy. His innovative vision has made Canada a world-leader in the field of particle astrophysics and paved the way for fruitful international collaborations."

The findings solved a puzzle that physicists had wrestled with for decades, the academy added in its announcement.

Dr. McDonald's research took place at the Sudbury Neutrino Observatory (SNO) scientific collaboration, an advanced research facility located 2 km underground in an active nickel mine. The experiment demonstrated that neutrinos from the sun were not disappearing on their way to earth and were captured with a different identity when arriving at SNO.

Meanwhile, Dr. Kajita presented the discovery that neutrinos from the atmosphere switch between two identities on their way to the Super-Kamiokande detector in Japan.

This "metamorphosis" requires

that neutrinos have mass.

The discovery changed "our understanding of the innermost workings of matter and can prove crucial to our view of the universe," the Nobel committee said.

"I am absolutely delighted at this worldwide recognition for the fundamental research undertaken by Dr. McDonald and the team at SNOLAB. There is a tremendous amount of pride and satisfaction as an institution that Queen's has this moment to celebrate one of its finest in Arthur McDonald. It doesn't get better than the Nobel Prize," says Steven Liss, Queen's Vice-Principal (Research). "Queen's has a history of attracting the best scholars and students, and we provide an environment that inspires the best. Many students and faculty who have come to study and research at Queen's have certainly benefited from Dr. McDonald's leadership and mentorship."

Dr. McDonald arrived at Queen's in 1989, was the inaugural Gordon and Patricia Gray Chair in Particle Astrophysics and served as the director of SNO, now known as SNOLAB.

The facility is operated by the SNOLAB Institute whose member institutions are Queen's University, Carleton University, Laurentian University, University of Al-

berta and Université de Montréal. It is located 2 km below the surface in the Vale Creighton Mine near Sudbury, Ont.

Dr. McDonald has been a professor emeritus since 2013. He earned his PhD in 1969 from the California Institute of Technology.

For his research, Dr. McDonald has received a number of awards and recognition including being elected a Fellow of the Royal Society of the UK and Commonwealth in 2009. In 2010 he received the Killam Prize in the Natural Sciences, in 2011 received the Henry Marshall Tory Medal from the Royal Society of Canada, its highest award for scientific achievement; and in 2013 he was awarded the European Physics Society HEP Division Giuseppe and Vanna Cocconi Prize for Particle Astrophysics.

*Queen's distinguishes itself as one of the leading research-intensive institutions in Canada. The mission is to advance research excellence, leadership and innovation, as well as enhance Queen's impact at a national and international level. Through undertaking leading-edge research, Queen's is addressing many of the world's greatest challenges, and developing innovative ideas and technological advances brought about by discoveries in a variety of disciplines.*



Queen's  
UNIVERSITY



# 'Clever, humble, multi-faceted'

BY WANDA PRAAMSMA,  
COMMUNICATIONS OFFICER

At an early age, Queen's Professor Emeritus Arthur B. McDonald was already busy trying to figure out the way things work.

"His mother will tell you that at age five, he used to take apart clocks," says Dr. McDonald's wife, Janet McDonald. "Very early he was intrigued by how things work."

It's that interest in the mechanics of the world that eventually led Dr. McDonald – the 2015 co-winner of the Nobel Prize in Physics – to study the universe on a fundamental level, through physics.

"In high school, I was interested in science, not necessarily physics. And I had a math teacher, Bob Chafe, in Sydney, Nova Scotia, who inspired many to pursue math," says Dr. McDonald. "When I started studying at Dalhousie, I went to study math and science, but it was other teachers, Profs. Ernest Guptill and Innes MacKenzie, who inspired me in physics. I also found that I could do it and it was fun."

The Nobel Prize win recognizes the immense contributions Dr. McDonald has made over his lengthy career, but particularly honours his longtime research and groundbreaking findings into neutrinos – sub-atomic particles considered the basic building blocks of the universe.

In 1989, he became director of the Sudbury Neutrino Observatory (SNO), located in the Vale (formerly known as INCO) Creighton mine near Sudbury, succeeding Queen's Prof. George Ewan. Working in the world's deepest underground laboratory, the SNO team – made up of scientists from several Canadian universities – discovered that neutrinos change from one type, or "flavour," to another on their journey to earth from the core of the sun. This finding confirmed that these fundamental particles have a finite mass and that the current models for energy generation in the sun are very accurate.



Professor Emeritus Arthur McDonald, seen here with his wife Janet, was awarded the Nobel Prize in Physics for his groundbreaking research on neutrinos.

Dr. McDonald shares the prestigious Nobel win with Japanese scientist, Takaaki Kajita, a professor at the University of Tokyo who similarly found, at the Super-Kamiokande detector in Japan, that neutrinos created in the atmosphere underwent a metamorphosis in their journey to earth.

"I am truly honoured," says Dr. McDonald. "While I am a co-winner of the Nobel Prize, the honour really represents a culmination of the hard work and contributions of many colleagues with whom I have collaborated during my career."

Dr. McDonald grew up in the small Nova Scotia city of Sydney, where a tightknit family gave him a strong sense of community and laid the foundation for his successful career. When Dr. McDonald was a baby, his father, an accountant, spent three years overseas during the Second World War. During the war and after his father returned, he was surrounded by extended family, along with his mother and sister – something Mrs. McDonald says contributes to her husband's

strong ethics and his humility.

"There was a lot of knowledge and respect there, within his family," says Mrs. McDonald, who is also from Sydney and met Dr. McDonald at a dance in high school. The couple will celebrate their 50th wedding anniversary in 2016.

"He's very clever, but along with that, he has a really good sense about things. He's multi-faceted," she says.

"Art has a wonderful way with people. He is very humble and respectful, and I think that's why the SNO Scientific Collaboration has done so well. They are all very collegial. That starts with the director and permeates through the group."

Dr. McDonald left Sydney – a steel and coal town – for Dalhousie University in Halifax, graduating in 1964 with a BSc (Honours) in physics and a year later, with an MSc in the same field. From there, he headed south, and west, to complete a PhD in nuclear physics at the California Institute of Technology in Pasadena.

He and Mrs. McDonald came back to Canada in 1969 and settled in Deep River, where Dr. McDonald worked at the Chalk River Nuclear Laboratories, with Atomic Energy of Canada, performing fundamental nuclear and particle physics experiments with accelerators and reactors.

After 12 years in Deep River, Dr. McDonald was offered a position at Princeton University. They were raising four children while in Deep River, three boys and a girl, and while somewhat reluctant to leave, the family moved and stayed in Princeton until 1988, when Dr. McDonald came to

Queen's on sabbatical for a year and stayed on permanently.

"While I was at Chalk River, I was already working with scientists from Queen's who became the SNO team here," says Dr. McDonald. "And when I was at Princeton, I returned to Chalk River in the summers to complete research. Our SNO collaboration began in 1984 and I started to study low radioactivity materials in our labs at Princeton."

As project director at SNO, Dr. McDonald was responsible for the development, construction, commissioning, and operation of the unique underground site, as well as the analysis and presentation of scientific results. It was his persistence, dedication and leadership over many years that paved the way to the significant scientific breakthroughs made by the team.

"We knew that we could make a significant measurement on the property of neutrinos, if we could only complete this very complex project and control radioactivity to an enormous degree," he says.

The insights Dr. McDonald has made during his career, and through the team's work at SNO, have been lauded around the world. The discoveries have advanced our understanding of the universe, and also set the path for new directions in the study of physics and astronomy.

(Dr. McDonald likes to note, too, that it's one of his early papers, during his master's at Dalhousie, that is one of his most highly cited works – a paper on positron annihilation – about radioactivity applied to condensed matter physics.)

At SNO, Dr. McDonald's lead-

ership led to the creation of the ultimate in a low-radioactivity instrument using 1,000 tonnes of heavy water as the heart of a solar neutrino detector. Whereas previous experiments had primarily observed electron neutrinos, SNO also observed the total flux of all active solar neutrinos and could show decisively whether the electron neutrinos had changed into other types.

The results from the SNO experiment provided clear evidence that the neutrinos from the core of the sun were changing their type, a process arising from neutrinos of finite mass undergoing oscillations. This result, coupled with results for atmospheric neutrinos from Dr. Kajita's experiment in Japan, requires modifications to the Standard Model of Elementary Particles to include massive neutrinos. SNO results also provided a very accurate confirmation of current models of the sun and its energy-generation processes.

Dr. McDonald has a long list of honours to his name – including fellowship with the Royal Society of Canada in 1997, the T.W. Bonner Prize in Nuclear Physics from the American Physical Society, the Gerhard Herzberg Canada Gold Medal for Science and Engineering, both in 2003, Officer of the Order of Canada in 2006, fellowship with the Royal Society of the U.K. and the Commonwealth in 2009, the Order of Ontario in 2012, and the European Physics Society HEP Division Giuseppe and Vanna Cocconi Prize in 2013, among numerous others.

And while he says he's retired, he still comes into campus regularly and is busy contributing to two experiments at SNOLAB.

Of course, the Nobel changes things. It's a distinction he knows will shift his life in exciting ways. At the same time, he feels a responsibility to represent his colleagues, university and country well when in the spotlight that this prize brings.

When he received the news of the prize from the Royal Swedish Academy of Sciences in Stockholm very early Tuesday morning, tears began to flow, as he thought of his father, who passed away a few years ago. His mother, 93 years old, still lives in Nova Scotia.

Mrs. McDonald says she and her husband hugged and looked at each other, asking, "Is this real? Did that really happen?"

"It was a feeling of amazement," says Dr. McDonald. "I am so grateful, for the award, and for all my colleagues and students who have been alongside me throughout my career."

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Homecoming is always an opportunity for alumni to reconnect with Queen's University, former colleagues and faculty as well as current students.

## Ready for Homecoming

BY ANDREW CARROLL,  
GAZETTE EDITOR

Each year thousands of alumni return to Queen's to reconnect with one another and relive some of their student experiences.

Homecoming 2015, slated for Oct. 23-25, is a time of excitement and renewal for the returnees as well as the university.

Making sure the annual event will be one to remember for both the alumni and Queen's takes months of planning and preparations, as well as a lot of hard work by staff and volunteers.

With Homecoming mere days away, everything is coming together quite nicely, says Sarah Indewey, Manager of Volunteer Relations and Reunions at the Office of Advancement.

Registrations for this year's Homecoming weekend have topped 2,700, well ahead of last year's numbers, she says.

Classes having milestone graduation anniversary years will enjoy special programming hosted by the university. Events are planned for classes celebrating their five-year and 25-year anniversaries, as well as those who graduated 50 or more years ago, better known as the Tricolour Guard.

One of the nice surprises this year is a significant increase in the number of alumni returning for

their five-year reunion.

"There's been some great work done in terms of engaging the younger alumni population. We started a pilot program last year to start recognizing the fifth reunion in a more significant way," Ms. Indewey says, adding that organizers worked with Colin McLeod (Artsci'10), who is the Director-at-Large, Young Alumni for the Queen's University Alumni Association (QUAA). "They did a really strategic analysis of what it is their classmates are interested in that are coming back to the reunion."

The result is an event that will be hosted at The Underground ahead of the AMS' ReUnion Street Festival. There are more than 300 confirmed attendees, while a similar event last year attracted less than 100. Overall, more than 500 members of the Class of 2010 will be attending their first Homecoming, a number never seen before.

"So that committee and that approach really blew things out of the water," Ms. Indewey says. "And that's an important group for us to think about in the future when engaging the alumni. It's a really positive win for this year."

That positivity also reaches to the hundreds of volunteers who help make Homecoming the best event it can be.

There are over 200 student volunteers who help out throughout

the weekend with the signature reunion activities as well as the wide variety of activities hosted by the faculties.

Another important aspect of Homecoming is philanthropy, particularly through class giving. Many classes choose Homecoming as a time to make a difference at their alma mater, usually with direct benefit to students. For example, BioSci'75 is working to raise \$5,000 to purchase a number of one-person bunkies in support of students conducting field research.

"Class giving reconnects alumni with the student experience. It's another way that they (alumni) can continue to make a difference at Queen's and contribute to the traditions that were memorable to them as students," says Tom Harris, Vice-Principal (Advancement), adding that more than 100 volunteers are working on this year's philanthropy effort. "It speaks volumes about the dedication and pride that surrounds Homecoming weekend. We look forward to welcoming our alumni home, and to a safe and respectful celebration of the Queen's spirit."

For more information and schedules visit [queensu.ca/homecoming2015](http://queensu.ca/homecoming2015). Also the Homecoming Program Booklet is available online at [queensu.ca/alumni/networking/reunions/homecoming-programming.html](http://queensu.ca/alumni/networking/reunions/homecoming-programming.html)

## HOMECOMING 2015

Milestone Reunion (5th, 25th and Tricolour Guard) events take place Saturday, Oct. 24.

### Main hub for the weekend is Grant Hall – Alumni Meet and Greet

Friday, Oct. 23 11:30 am-6 pm

Saturday, Oct. 24, 8:30 am-12 pm

Kick off the Homecoming Weekend by visiting Grant Hall. Representatives from Queen's Archives, student clubs, Athletics and Recreation, Queen's Bands and more, are eager to welcome you home to Queen's. Pick up your reunion pin at the registration tables, along with any football tickets that you've purchased.

### HIGHLIGHTS

#### Academic Excellence events:

**School of Policy Studies presents "Dear Premiers: How Does 20 Years of Fiscal Austerity Sound?" by Don Drummond, Stauffer-Dunning Fellow**

Friday Oct. 23, 5:30-7 pm, School of Kinesiology and Health Studies, Rm 100.

In this presentation Don Drummond will explain why economic and revenue growth will be insufficient and what provinces and territories can do to bolster growth. All alumni welcome.

#### Battle of the Books – Department of English

Saturday, Oct. 24, 10:30 am-12 pm, Stauffer Library, Speaker's Corner

Eight teams will do battle to persuade the audience that their pick merits the 2015 Giller Prize. Teams participate in a series of three elimination brackets, with just three minutes to make their case. Winners will be determined by applause. Open to all.

#### Art Conservation Open House

Saturday, Oct. 24, 1-3 pm

Visitors to the program's facilities can see the treatment and science labs where students learn to conserve paintings, works of art on paper, and objects of archeological, historic and ethnographic origins.

#### Queen's Spirit events:

#### Engineers Without Borders – Pumpkin Smash

Friday, Oct. 23, 12-3 pm, Agnes Benidickson Field

A chance to chat about the work the group does in the community

and the overseas ventures it supports. Grab a slice of pumpkin pie and some hot chocolate and watch at 2:30 pm as they drop a 500-pound pumpkin.

#### Queen's Solar education Centre Open House

Saturday, Oct. 24, 12-4 pm, Upper parking lot West Campus

Join alumni, students and community members at the QSEC, an off-grid home powered exclusively by solar energy. The QSEC is the latest project undertaken by the Queen's Solar Design Team, whose members will be offering tours of the home.

#### CESA Wine and Cheese in BED

Friday, Oct. 23, 9 pm, Duncan McArthur Hall

In celebration of the 40th anniversary of Concurrent Education at Queen's University, the Concurrent Education Students' Association will host a wine and cheese reception for returning alumni following the MacClement Lecture.

#### AMS ReUnion Street Festival

Saturday, Oct. 24, On Union Street

A celebration of Queen's pride and spirit that offers alumni and students the opportunity to interact through a variety of activities and entertainment that provide something for everyone to enjoy. Students and alumni are encouraged to come at any time throughout the night to check out the free events.

#### Homecoming Football Game

Saturday, Oct. 24, 1-4 pm, Richardson Memorial Stadium

Come cheer on your Queen's Gaels as they face the Laurier Golden Hawks.

## gina karkoulis

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# Queen's releases 2014-15 financial statements

BY CRAIG LEROUX, SENIOR COMMUNICATIONS OFFICER

Queen's financial statements for 2014-15 have now been posted online after being approved by the university's Board of Trustees earlier this month.

The statements, which outline the university's consolidated financial results for the fiscal year ending April 30, 2015, report a surplus of revenues over expenses of \$61.9 million even as the university continues to face a number of financial challenges.

"The majority of the surplus is the result of strong investment returns in the university's investment and endowment funds," says Caroline Davis, Vice-Principal (Finance and Administration). "There is a degree of volatility in the financial statements because of investment returns. The mar-

kets performed very well over the fiscal year, but the university cannot count on such strong returns over the long term."

The university's pooled endowment fund returned 12 per cent during the fiscal year. A portion of the endowment fund, use of which is largely restricted by the wishes of donors, is paid out to fund operations while the remainder is reinvested to protect the long-term value of the portfolio.

The smaller pooled investment fund, which includes a range of research funds, trust accounts, and operating carry-forwards, returned 10 per cent for the year. Those returns provide important flexibility for the university to address strategic priorities.

Alan Harrison, Provost and Vice-Principal (Academic), is responsible for the university's

budget process and says that apart from one-time items like investment returns, the 2014-15 fiscal year ended as expected.

"Through the annual budget process, the university is focused on managing its resources carefully in the face of financial challenges," says Dr. Harrison. "Despite the positive result in 2014-15, the university continues to face an unsustainable pension plan with a \$285-million solvency deficit, a \$253-million deferred maintenance backlog, static or declining government grants and uncertainty around the outcome of the government's review of the university funding formula."

The university's financial statements are available on the Financial Services website, while more information about the university's budget process is available on the provost's website.

international



UNIVERSITY COMMUNICATIONS

The Fulbright Silver Anniversary Gala was recently held in Ottawa and among those attending were a pair of students with connections to Queen's University. Caroline Battaile, left, is an incoming Killam Fellow from Wellesley College studying Computer Science at Queen's and Rachael Nagelberg, right, is a Queen's Killam Fellow studying biology at Clemson University.



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## 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)

## 'Like eagle wings, lifting us up'

The following is the speech given by Marlene Brant Castellano during the opening of Brant House at Queen's University on Saturday, Oct. 3. The residence, which accommodates 271 students, is named in honour of Dr. Brant Castellano and her brother Dr. Clare Clifton Brant – Mohawks of the Bay of Quinte of the Tyendinaga Mohawk Territory, members of the Wolf Clan, and Queen's graduates.

I understand now why artists receiving awards want to thank everyone in their lives, starting with the people who gave them birth. I am called to the forefront here today but I would like you to imagine a whole throng around Clare's shoulders and my own, like eagle wings, lifting us up, and murmuring "They're on our team." The throng includes our parents who taught us the most important lessons and the extended family that takes care of us, the teachers who noticed us and helped us on our way to and through Queen's, the colleagues and friends who shared their vision, talents and energy over the years to make good things happen and shared the disappointment



Principal Daniel Woolf, left, and Chancellor Jim Leech, right, welcome Dr. Marlene Brant Castellano to the opening of Brant House, a new student residence at Queen's University, on Saturday, Oct. 3.

when things didn't turn out quite as we had planned.

The Thanksgiving Address with which this gathering began reminds us of our place in Creation, enjoying the gifts and the sacrifices of relations in many do-

mains, not humankind alone. The Hiawatha Wampum Belt displayed on the pillars of this hall remind us that we are the inheritors of the Great Law of Peace established with five nations of the Haudenosaunee, or Iroquois Con-

federacy, and extended to the Dutch, the French and the British settlers and others who came to make their home on Turtle Island.

I have to say that when Clare and I attended Queen's, 50 years ago for Clare and 60 years ago for

me, we became immersed in a culture that made no apology for its colonial roots and character. Both of us eagerly absorbed what was available to learn. Both of us discovered that our own psychic and spiritual health, our very survival, required us to reconcile what we knew and practised as professionals with the inherent knowledge that we carried as Mohawks, inherent knowledge that we hardly knew how to express.

I am immensely pleased that reconciling worlds of knowledge, peace-making that begins in the heart and extends outward to the community and the world, no longer is left entirely to individuals and their limited resources. Students coming to Queen's today are greeted with the affirmation that they are on traditional Haudenosaunee and Anishnabe territory. I hope that at Brant House they will recognize an invitation to learn more about Indigenous traditions of knowledge and the responsibility to lift up others in a community that is enriched by diversity of origins, identities and histories.

Niawen. Thank you all.

PHOTO BY BERNARD CLARK

## 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)

## Queen's 15th principal a leading expert on federalism

Ronald Lampman Watts, the 15th principal of Queen's, died Oct. 9. He was 86.

BY COMMUNICATIONS STAFF

Ronald L. Watts, who served as the 15th principal of Queen's University, died on Friday, Oct. 9, at the age of 86.

Dr. Watts served as principal from 1974 to 1984 and was a leading expert on federalism.

"On behalf of the entire Queen's community, Julie and I extend our deepest condolences to Dr. Watts' wife Donna and the entire Watts family," says Principal Daniel Woolf. "Dr. Watts was a beloved and respected member of the Queen's community, and will be sorely missed. He was also an enormously influential figure in the debates on federalism in



Canada over several decades, a greatly respected international consultant on governance, and a fine teacher, many of whose students went on to successful careers in academe, the private sector and the public service."

Born in Japan to Canadian Anglican missionary parents in 1929, he was educated at the University of Toronto (BAH'52) and attended Oxford University on a Rhodes Scholarship (BA'54, MA'59, PhD'62). He arrived at Queen's University in 1955 as a lecturer in philosophy, but moved to the Department of Political and Economic Science in 1961. Dr. Watts took an interest in the administration and students of Queen's, serving as a residence don in McNeill House and helping to plan the many residences built during the 1960s.

He was appointed Dean of Arts and Science in 1969 before becoming principal five years later. At 45, he was the youngest principal since George Monro Grant.

During his time as principal several buildings were expanded

including Botterell Hall.

Faced with reductions in government funding Dr. Watts also launched a campaign to cut costs, such as reducing energy consumption, while also maintaining the quality of teaching and research at Queen's.

His second five-year term was highlighted by laying the plans for the Queen's National Scholars program to attract outstanding young faculty members as well as starting the planning for the establishment of the School of Policy Studies.

Dr. Watts' main academic interest was the comparative study of federal political systems. After retiring as principal, he served as director of Queen's Institute of Intergovernmental Relations, senior adviser to the federal government on constitutional affairs, and consultant to governments all over the world, including Canada, Kenya, Nigeria, Papua New Guinea, South Africa, Pakistan, and the United Kingdom.

He published a number of books, including *New Federations:*

*Experiments in the Commonwealth, Multi-Cultural Societies and Federalism, Administration in Federal Systems, and Comparing Federal Sys-*

*tems.* Dr. Watts received five honorary degrees and became an Officer of the Order of Canada in 1979 and a Companion in 2000.



Ronald L. Watts, centre, surrounded by a number of trophies won by Queen's athletes and teams, was the 15th principal of Queen's University, serving for two terms from 1974-84.

QUEEN'S UNIVERSITY ARCHIVES

## Queen's in the news

Highlights of Queen's experts in the media from Oct. 1-14

## SPECIAL



**Arthur McDonald's** (Physics) awarding of the Nobel Prize in Physics was covered extensively, including on regional and national Global News, CTV News, and CBC broadcasts, online and radio. He also appeared in the National Post, Globe and Mail, Toronto Star and Maclean's, as well as countless regional papers across Canada and in international media.

**Dr. McDonald** also appeared on CBC's This Hour Has 22 Minutes where he used Timbits to explain his research on neutrinos.

**Daniel Woolf** (Principal), **David Saunders** (Dean, Business) and **Tandy Thomas** (Business) discussed the Stephen J.R. Smith School of Business announcement in The Globe and Mail, Ottawa Citizen, Financial Times (UK), The Whig-Standard, on CKWS and in The Kingston Herald.

## Newspapers

**Christian Leuprecht** (Political Studies) was interviewed by the National Post about a video emerging from the southern Philippines hostage taking; and discussing the case for and against revoking Canadian citizenship.

**Sidneyve Matrix** (Film & Media Studies) was interviewed in The

Toronto Star on Canadians' use of social media.

**Charles Beach** (Economics) was interviewed by the Toronto Star about politicians loving the middle class.



**David Lyon** (Surveillance Studies Centre) took part in a Q&A with the Ottawa Citizen on "Surveillance after Snowden"; spoke to the Globe and Mail for an article on researchers to study big data collection used on Canadians.

**Kathy Brock** (Political Studies) took part in "Have Your Say: What's the first thing you would do as PM?" for the Globe and Mail.

**David Gordon** (School of Urban and Regional Planning) was featured in the Squamish Chief for an article on the city becoming an oceanfront community.

**Kathleen Lahey** (Law) was featured in the Toronto Star in an article about female drivers being a plus for Uber passengers.

**John Holmes** (Geography) spoke to the Hamilton Spectator on the likelihood of the Trans-Pacific Partnership creating winners and losers in the auto sector.

**Anastasia Riehl** (Languages, Literatures and Cultures) talked with the Toronto Star about her effort to document dying languages still spoken in Toronto.

**William Cooper** (Business) and **Jonathan Rose** (Political Studies)

were featured in the Kingston Whig-Standard for an article titled "Debate-ducking? It's debatable."



**Kathy Brock** (Political Studies) was in the Ottawa Citizen for an analysis of the final leaders' debate.

**Cynthia Levine-Rasky** (Sociology) had her op-ed "Tories' response to Syrian war lesson in contradictions" published by the Winnipeg Free Press.

**Kieran Moore** (Medicine) told the Belleville Intelligencer that with seasonal illness on the rise, wash your hands.

## Online

**Jonathan Rose** (Political Studies) spoke about the pending election ad-buys targeting sports fans on iPolitics.ca.

**John-Kurt Plinius** (Business) spoke with CBC.ca about how cities are dealing with ride-hailing technology.

**Kathy Brock** (Political Studies) discussed a report that found that the Liberal child-care benefit pledge could benefit families in Trudeau's riding the most on CBC.ca and CTVNews.ca.

**Keith Banting** (Political Studies) was interviewed by ctvnews.ca in regards to the NDP offering Quebec the right to opt out of federally-funded programs.



**Jessica Lougheed** (Psychology) spoke with Yahoo! Canada on how moms and daughters help each other destress through touch.

**Christian Leuprecht** (Political Studies) talked with CBC Online about the Taliban seizure of Kunduz sending a message to Kabul, Europe; with globalnews.ca on should Canada do more training to fight ISIS.

**Ken Wong** (Business) was featured by CBC Online for a story on a Canadian oilsands group helping launch \$20-million XPrize on carbon emissions.

## Television

**Sidneyve Matrix** (Film & Media) commented on a report on how Canadians are using social media, on Global News.

## Magazines

**David Lyon** (Surveillance Studies Centre) commented in Time Magazine on today's surveillance state.

**Kathleen Lahey** (Law) spoke to Maclean's magazine on how parental leave is the "Trojan Horse" of election promises.

**Ian McKay** (History) argues that Canadian politics needs its own Bernie Sanders in Maclean's.

## Ruffo in running for literary prize

BY COMMUNICATIONS STAFF

Armand Ruffo, the Queen's National Scholar in Indigenous Languages and Literatures, is in the running for a Governor General's Literary Award it was announced Wednesday, Oct. 7.

Mr. Ruffo is a finalist in the non-fiction category for his work *Norval Morrisseau: Man Changing into Thunderbird*, a biography of the innovative and controversial Ojibway painter.



Armand Ruffo

Mr. Ruffo, who teaches in the Department of English Language and Literature and Department of Drama and Music, says he is surprised by the nomination and considers it an honour to be included among "such fine writers."

"*Norval Morrisseau: Man Changing Into Thunderbird* took numerous years to write because of the huge amount of primary research that I had to do, and the way that I wanted to integrate this material into a compelling narrative, and so it is wonderful to hear that the book may not simply fall into the proverbial 'big black hole' and disappear quickly from sight," he says. "Ultimately, it's the writing that matters, and I think the nomination should help the book come to the attention of potential readers, and for a writer – at least for me – this is the best thing about the nomination."

Mr. Ruffo, who has produced poetry, plays and biographies, as well as a feature-length film, says that what drives his creativity is a desire to share the stories and histories of Canada's Indigenous peoples.

Since arriving at Queen's in 2014, Mr. Ruffo has continued his multi-disciplinary juggling act teaching classes in the Department of English Language and Literature and Department of Drama and Music, and has become active with Four Directions Aboriginal Student Centre.

Another finalist with Queen's connections is Helen Humphreys, a Kingston-based writer who is on the short list for the fiction prize for her book *The Evening Chorus*.

Ms. Humphreys was the Writer-in-Residence at the Department of English Language and Literature in 2009.

## Family, Queen's keep Paddon's memory alive

BY COMMUNICATIONS STAFF

In 2011, less than a year after his graduation, Paddon Thompson (Sc'10) addressed a crowd of fellow geological engineers at a departmental reunion in Calgary. At 6-foot-5, Paddon certainly had the physical presence to captivate his audience. But it was more than just his size that kept all eyes riveted to him.



Paddon Thompson

Outgoing, charismatic, and a naturally-gifted speaker, Paddon spoke from the heart that night, choosing a topic that was especially meaningful to him, the importance of field studies to geological engineering students.

Anyone who studies geology or geological engineering – especially at Queen's – likely has fond

memories of field school. Second-year students spend two weeks in the field immediately after the school year ends. They head back several times over the next two years for a total of more than 240 hours in the field. Most students agree that this hands-on outdoor adventure is the highlight of their geological education. It certainly was for Paddon.

An artist, a musician, and a talented multi-sport athlete, Paddon Thompson was one of those people who seemed to excel at everything he did. Diagnosed with a brain tumour at age six, he was determined not to let his sickness define him. He continued to paint, play the drums, and compete at a high level, even after a pair of surgeries left him with peripheral nerve damage.

"He had this remarkable ability to remain positive through everything," says his mother, Joni Hughes. "His hope carried the whole family."

Paddon's upbeat outlook paid

off. He was declared cancer-free in 2006, just in time to fulfill a lifelong dream of studying geology at Queen's.

His passion for geology dates back to family vacations in the Rocky Mountains.

"He always loved those trips, and rock collecting was a big part of it," says Joni.

Between his memories of the mountains and his dreams of working on the oil patch, studying geological engineering just made sense for Paddon.

He remembered his years at Queen's fondly, especially the field studies. And while he had always worked and had family resources to draw on, Paddon understood that field school could be a financial burden to some of his classmates.

"University is expensive," says Joni, "and field school only makes it harder. Not only is it an additional expense, it also eats into the time you could otherwise spend earning money."

Less than two years after graduation, at the beginning of what was shaping up to be a promising career in the oil industry, Paddon died suddenly from complications associated with his cancer.

As they were looking for a way to honour his memory, Paddon's parents remembered his speech at the reunion a year earlier. Convinced that Paddon would want to make field studies more affordable for future geology students, they established a fund in his name and set out to raise \$2 million.

The fund will help defray field school costs for Geological Sciences and Geological Engineering undergrads.

"It's not a needs-based bursary," Joni explains. "It's for everyone."

The money will also help fund additional field trips and buy new equipment.

To give to the Paddon Thompson Geological Field Studies Fund, visit [givetoqueens.ca](http://givetoqueens.ca).



## Dean receives lifetime achievement award

BY ANDREW CARROLL,  
GAZETTE EDITOR

Richard Reznick, Dean of the Faculty of Health Sciences at Queen's University, is being recognized with a major award from his alma mater.

A proud McGill University alumnus, Dr. Reznick is receiving the Medicine Alumni Global Award for Lifetime Achievement for his nearly 30-year career in medical education.

The award, presented since 2009, is given to a graduate "who has enhanced the reputation of McGill University through a lifetime of exceptional leadership."

"When I realized who had been given the award in the past I felt incredibly humbled," says Dr. Reznick. His predecessors form a list of medical professionals at the forefront of their specialty, including Dr. Charles Scriver, a pioneer in medical genetics, and Dr. Phil Gold, who co-discovered carcinoembryonic antigen (CEA), which led to a test that detects colon cancer.

While he is thrilled to receive the lifetime achievement award, Dr. Reznick says there is still

much work to be done.

"The future of medical education remains very exciting," he says. "By continuing to improve the way we train future health professionals we will ultimately improve the way we deliver health care to our patients."

Dr. Reznick is recognized as a leader in surgical education and has devised reliable clinical assessment tools to judge surgical quality. That work earned him the Karolinska Institutet Prize for Research in Medical Education in 2010. He also played a leading role in establishing a performance-based examination used for medical licensure across Canada.

Dr. Reznick was first appointed Dean of the Faculty of Health Sciences at Queen's in 2010 and was reappointed for a second five-year term this past June. During his time as dean, the faculty has worked to intensify research, develop new models of teaching and training, and introduce new programs, such as the Queen's University Clinician Investigator Program, the Queen's University Accelerated Route to Medical School (QuARMS), the multidisciplinary Master of Sci-

**"The future of medical education remains very exciting. By continuing to improve the way we train future health professionals we will ultimately improve the way we deliver health care to our patients."**

— Dean Richard Reznick

ence in Healthcare Quality, a combined MD/PhD program, and the functional anatomy boot camp.

Dr. Reznick also serves as the chief executive officer of the Southeastern Ontario Academic Medical Association (SEAMO). He is also currently a member of the boards of Kingston General Hospital, Hotel Dieu Hospital and Providence Care.

A professor in the Department of Surgery, Dr. Reznick completed his medical degree at McGill and then graduated from the general-surgery training program at the University of Toronto. He completed a Master of Education degree at Southern Illinois University followed by a fellowship in colorectal surgery at the University of Texas in Houston.



Richard Reznick, Dean of the Faculty of Health Sciences at Queen's University, is the recipient of the 2015 Medicine Alumni Global Award for Lifetime Achievement from his alma mater, McGill University.

## Dedicated support for United Way, Queen's

BY ANDREW CARROLL,  
GAZETTE EDITOR

When John Weatherall looks at the needs of a community today, what he sees as vitally important is a sense of closeness.

Unfortunately, he points out, that closeness is sorely missing in most communities.

However, one of the ways he personally is trying to make a difference is through his participation with the United Way of Kingston Frontenac Lennox and Addington.

While he has long supported the United Way in a number of ways, John is currently heading up the Leadership Challenge Grant, which is aimed at encouraging 'Leadership' level donations of \$1,200 or more during the annual fundraising campaign. This is the second year that John and his wife Diana have given the Leadership Challenge Grant.

John often speaks of issues on a global scale, yet he remains very connected to local matters. It is something that he inherited from his father while growing up in England.

"My father was always in-



John and Diana Weatherall are long-time supporters of both Queen's University and the Kingston community.

involved in local things – school boards, local politics, planning boards," he says, adding that, as a result of his father's influence, he "feels a kind of duty" to help others in the community.

He sees the United Way as an important vehicle for making such a difference as it supports a wide range of local initiatives providing

much-needed support to the community. The efforts help bind the community together.

"I do believe very much that the community has to be close and the community is getting less close," he says.

John is a trained engineer who has worked in the investment industry for over 50 years. He is

currently running his own investment firm after retiring as a director from Toronto Dominion Bank in 1995.

Much of his work is aimed at bringing people together once again. A key to this is mentorship, the sharing of knowledge among people with similar interests. By having role models and opportunities to be in programs local youth can have something they can be proud of and build self-esteem.

It's also a role he plays through the Leadership Grant Challenge. "Connections are important," he says.

John points out that the world, Canada included, has undergone significant and difficult changes in recent decades. The subsequent results include the separation of communities, a decline in values and growing youth unemployment.

But, through local efforts, change can still be made with the proper support such as that found through the United Way.

"You look at what you are able to give and you find out what is important and you do that," he says. "That's part of being in a

community."

John first arrived in Kingston in the 1950s when he worked for Alcan, coming from England and creating a kind of second home. During his time here he also fostered some close connections with Queen's, including befriending Principal William Mackintosh.

John continues to help Queen's by supporting the Office of Advancement in its effort to raise funds for the university and its students.

He also supports the university directly through the Scarthingmoor Prize in Economics, which he established in 2006. The award is handed out annually to a student whose Master's essay received a mark of at least 85%.

Also, in recognition of his work, Queen's offers the John Weatherall Visiting Scholar Fund in Economics, funded by a gift from the Jim Pattison Foundation. The fund provides resources for the Department of Economics to invite top-flight economists from other institutions, especially leading scholars from outside of Canada, to visit Queen's for variable periods of time of one week or more.





# Tiny particles Big prize



**Dr. Arthur B. McDonald**  
Inaugural Gordon and Patricia Gray Chair in Particle Astrophysics  
Director, Sudbury Neutrino Observatory Collaboration

## 2015 Nobel Prize in Physics

### Congratulations Professor Arthur B. McDonald

Queen's University professor Arthur B. McDonald, along with Takaaki Kajita of the University of Tokyo, has been awarded the 2015 Nobel Prize in Physics. Dr. McDonald and a team of Canadian and international scientists worked deep underground unlocking the mysteries of neutrinos, fundamental building blocks of nature. Their revolutionary work redefined the basic laws of particle physics and confirmed the detailed understanding of how the sun burns. This exemplifies research at Queen's: leading-edge ideas, advances and discoveries that address the world's greatest challenges.

Learn more about Dr. McDonald's work: [queensu.ca/research](http://queensu.ca/research)

**Queen's**  
UNIVERSITY



Founded in 1841, Queen's University in Kingston, Ontario is one of Canada's leading research-intensive institutions, combining quality and intensity in research with excellence in undergraduate and graduate education.



## Leading the celebrations of women in computing

BY ANDREW CARROLL, GAZETTE EDITOR

For years Wendy Powley (School of Computing) has worked toward attracting more women to the field of computing, at Queen's, in Ontario and across Canada.

A big part of this effort was founding and organizing the Ontario Celebration of Women in Computing (ONWIC), a conference that draws female students from across the province to gain experience, receive support and make valuable contacts.

Ms. Powley, a Research Associate and Adjunct Lecturer in the School of Computing and the Faculty of Education, also continues to play a key role in Women in the School of Computing (WISC) at Queen's, an informal support and social group for all women, undergraduate and graduate students, faculty and staff, in the School of Computing.

So it perhaps wasn't much of a surprise that she was recently appointed as chair of the ACM-W Celebrations committee, a subgroup of the Association for Computing Machinery, the world's largest educational and scientific computing society.

Having organized such Celebrations since 2010, she's ideally suited for the role.

Ms. Powley will not only coordinate the organization of the Celebration in Canada, but she will oversee ACM-W Celebrations that occur annually worldwide. In the



Wendy Powley, a research associate and adjunct lecturer in the School of Computing and the Faculty of Education, was recently appointed as chair of the ACM-W Celebrations committee, a subgroup of the Association for Computing Machinery.

2015/2016 academic year there are at least 10 Celebrations planned across the United States as well as Celebrations in Europe (2), India (2), Puerto Rico, Cuba and, of course, in Canada. In her new position, Ms. Powley will play a key role in encouraging new Celebrations in an effort to broaden their reach. She will share her expertise with Celebration organizers and ensure that the resources provided by the ACM-W such as funding, swag, web hosting, and emotional support reach each and every Celebration organizer.

"Communication with my ACM-W mentors was crucial dur-

ing the organization of our first Celebration. Kind offerings of advice, encouragement, and validation kept me going," Ms Powley says. "That will be a big part of my role – to inspire and motivate others. Organizing a Celebration is a huge undertaking, but I want them to know that in the end they will have no regrets. It is incredibly satisfying to provide an inspirational experience that will have a lasting impact on young people."

It was the ACM-W Celebrations model that got ONWIC started at Queen's in 2010 – that along with a very keen group of

student helpers from WISC.

Each year since 2010 the conference has been hosted by a different university and has been growing in popularity. This year the conference has a new identity – the "Canadian Celebration of Women in Computing" and will become a national annual conference. It is expected to attract more than 500 women from across the country.

Queen's continues to play a prominent role in the conference through Ms. Powley's organizing role as well as the number of participants – a contingent of 60 at the most recent event.

This prominence is a positive for Queen's as well as for the School of Computing.

"Being visible at the Celebration as a very large group speaks volumes that women are welcome here at Queen's in Computer Science," Ms. Powley says. "It's a way to retain our women as well. Our first-year students who attend find the event very inspiring as they see many positive female role models and learn of the vast opportunities available in the field. We hope this has a lasting effect".

So far the efforts have been successful at Queen's. With approximately 35% of the undergraduates enrolled in computing programs being female, it is believed that Queen's has the highest percentage in Canada. With the national average in North America hovering around 15%, there is still much work to be done.

She sees the ACM-W Celebrations as a key part of finding a long-term solution.

"We need to be actively involved in encouraging women to come into the field. We are all consumers of technology. It only makes sense to ensure that there is diversity among its creators," she says. "Ideally, the way to get more women into the field is to get more women into the field."

Ms. Powley in her new role at ACM-W intends to ensure this happens.

To learn more about ACM-W visit [women.acm.org](http://women.acm.org).

### October is Cyber Security Awareness Month

Avoid and report



# Phishing

Spear that phishing attack before it catches you!

Watch out for ...

- Urgent requests for information
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ITS is committed to safe computing and protecting you online.

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## ITS dials up cellphone reception

BY MARK KERR, SENIOR COMMUNICATIONS OFFICER

Cellphone reception inside campus buildings is improving as a result of a project led by Information Technology Services (ITS).

Working with ITS, Bell Mobility is installing new in-building antenna systems at several locations. While the technology is provided by Bell, customers of other carriers – Telus, Virgin and Koodo – will benefit from the upgrades. Queen's is actively encouraging Rogers Wireless and Wind Mobile to provide their customers with this enhanced service, and both continue to investigate the option to connect to the system.

"The Queen's community has come to rely on cellphones and smartphones on a daily basis to support their educational, business and personal needs. However, reliable service inside Queen's buildings has been hit and miss because outdoor antenna

systems have struggled to keep up with the density of devices in the downtown area and on main campus," says Hugh Flemington, Project Lead. "We anticipate this project will reduce the number of times users experience dropped calls or can't find a signal."

ITS set the initial priorities for the multi-year project based on buildings that typically house or host a large number of people, as well as areas known to have poor cellphone reception. The new antenna system is operating in Goodes Hall, Stauffer Library, Queen's Centre and Victoria Hall. Systems in Brant House, David C. Smith House and Watts Hall will be in service by the end of September.

In addition to main campus improvements, west campus will soon benefit from a new Bell antenna on John Orr Tower to relieve capacity issues in the neighbourhood on event and high-traffic days.

# Q&A: Get to know Sir Terry Matthews

**Communications Officer**  
Chris Armes spoke with Sir Terry Matthews, one of Canada's pre-eminent technology entrepreneurs, following his Principal's Forum speech. Sir Terry offers lessons learned over a lifetime of entrepreneurship.

**Chris Armes:** Was there any advice you wish someone had given you before you started your first company, or was entrepreneurship something you always aspired to?

**Sir Terry Matthews:** No, I think it was in my blood from the get-go. In the area I was brought up, there were engineering companies all around me. From a very young age, I could pull apart a machine, I could fix a radio, I could fix a vehicle, an engine, an axle. It was in the blood. So I think there's something in the DNA. You have to choose people or give them the opportunity. Some people will have a go and make it, and some people just can't because they're just too risk averse.

**CA:** If you had to live your life over again, but becoming an entrepreneur wasn't an option, is there anything else you would have liked to do as a career?

**STM:** It's such a pleasurable thing to put a team together to fight and grow and be successful. I don't think I would want to have gone down a different track. I



Technology entrepreneur Sir Terry Matthews sat down with the Gazette after his Principal's Forum speech at Goodes Hall on Thursday, Oct. 15

might have been an explorer of some kind, but it could not be passive. I'm not a passive person. Inherently, I'm able to take risks, judge what the risks are, and judge what I consider to be the worst case and the best case. I'll

go for the best case if I can live with the worst case. If I can't live with the worst case, I won't do it.

**CA:** What common traits have you noticed that highly-successful people seem to share?

**STM:** It's all over the map. Some people are very arrogant, but they wind up doing very well. Some people are dishonest and create an aura. Personally, I don't like that. I think it's good to be humble. I'd rather drive a half-

**"That is what I do to relax. That's my hobby. I like business. If I retired... well actually, I am retired. I retired in 1978 when Mitel went public and my hobby is to create businesses. Enjoy what you do. If you don't enjoy it, do something else!"**

— Sir Terry Matthews

ton, rusted truck than a chauffeur-driven Rolls Royce. If you set yourself up, you might be torn down.

**CA:** You have many different projects on the go. What do you do to relax?

**STM:** That is what I do to relax. That's my hobby. I like business. If I retired... well actually, I am retired. I retired in 1978 when Mitel went public and my hobby is to create businesses. Enjoy what you do. If you don't enjoy it, do something else!

**CA:** If you could only leave behind one lesson for the next generation of entrepreneurs, what would you want it to be?

**STM:** Have a goal. Be brave enough to have a goal.

## A forum for innovation

BY CHRIS ARMES,  
COMMUNICATIONS OFFICER

Canadian technology mogul Sir Terry Matthews discussed entrepreneurship and stressed the importance of rapid growth during a public lecture in the Goodes Hall Commons on Thursday, Oct. 15.

The speech, part of the Principal's Forum lecture series, touched on the importance of creating a sense of camaraderie and ownership amongst a corporate team. He also explained how a small company can compete with large, established players.

"A little company can be quick, can be nimble and can adjust to what the market needs," said Sir Terry.

Sir Terry addressed an engaged audience in the Goodes Hall Commons, delivering a lively discussion entitled "Go

Global Fast." Speaking for almost an hour, without notes or prepared remarks, Sir Terry shared his experiences in entrepreneurship and lessons learned for the next generation of innovators. Repeatedly, Sir Terry addressed the need for companies to grow rapidly to stave off competitors in a diverse and global marketplace.

"You have a product that meets 100 per cent of the market's needs, and you own the Ontario market," he said. "Meanwhile, a company out of Silicon Valley has a product that meets 80 per cent of the market's needs, but they already own the U.S. market, the U.K. market, Europe, Asia...and so on. You won't last."

Prior to his public talk, Sir Terry led a roundtable discussion with students, faculty and local entrepreneurs. Topics included the domestic and global chal-



Canadian tech mogul Sir Terry Matthews spoke about entrepreneurship during his presentation for the Principal's Forum at Goodes Hall on Thursday, Oct. 15.

lenges facing entrepreneurs, fostering innovation and entrepreneurship amongst students and

the lessons Sir Terry has learned over his career.

Sir Terry Matthews is the

founder and chairman of Wesley Clover International, an investment management firm and holding company. Since 1972, Sir Terry has either founded or funded more than 100 companies, including Newbridge Networks, which he started in 1986 and has since grown to be a leader in the worldwide data networking industry, and Mitel, a current world leader in the design and manufacture of enterprise communications systems and software.

The Principal's Forum is a lecture series in which notable guests are invited to campus to give a public address on matters of Canadian import. Past speakers have included world-renowned scholar Dipesh Chakrabarty, His Excellency the Governor General, the Rt. Hon. David Johnston, and the Rt. Hon. Tricia Marwick MSP, the Presiding Officer of the Scottish Parliament.

## An exchange of ideas

BY ANNE CRAIG,  
COMMUNICATIONS OFFICER

Anesthesiologist Gaston Nyirigira has embarked on a three-month trip to Kingston to gather research knowledge and experience to assist his native Rwanda. Dr. Nyirigira is one of only 15 anesthesiologists in Rwanda, so this research exchange is critical to provide him with the skills to implement new medical protocols upon his return.

This was made possible by a Canada-Africa Research Exchange Grant (CAREG) awarded to co-principal investigators Ana Johnson (Public Health Sciences) and Joel Parlow (Anesthesiology and Perioperative Medicine).

"We first met Gaston in 2012 when he was recommended to us by his program director," says Dr. Parlow, who, along with Dr. Johnson and Ryan Mahaffey (Anesthesiology and Perioperative Medi-

cine), first met him while teaching as part of the Canadian Anesthesiologists' Society International Education Foundation, and researching the barriers to implementing protocols for managing pain. He has been an important collaborator in our project."

Elizabeth VanDenKerkhof and Rosemary Wilson (School of Nursing) and David Goldstein (Anesthesiology), co-investigators on this exchange project, travelled to Rwanda earlier this year and worked with Dr. Nyirigira at a hospital in Butare, Rwanda. The goal was to learn more about post-operative pain management techniques used in teaching hospitals by surveying a number of medical professionals. They relied heavily on Dr. Nyirigira's hospital contacts to collect the data. "He has tremendous collaboration skills,

and he knows everyone, which was very helpful," says Dr. Wilson.

For the current phase of the grant, Dr. Nyirigira was selected to join the research group at Queen's. He jumped at the chance.

"I need to use the opportunities I'm given to the fullest potential," says Dr. Nyirigira, "and do as much as I can in the time I am here. I have the passion, I have the motivation. I'm hoping I can motivate more people in my country to come and study anesthesiology. I also want to increase awareness of what an anesthesiologist does and how important they are when it comes to managing pain. I can be an advocate."

While in Kingston, Dr. Nyirigira is auditing a number of courses and will be making a number of presentations to departments at Queen's. He is also working on several different projects, including surveying health personnel in Kingston about their postoperative pain management

practices. The information he gathers will be used to create new protocols and best practices for personnel involved in the care of surgical patients in Rwanda.

"The objectives of the grant include having Gaston head an implementation program that will work in Rwanda," says Dr. Johnson. "He is also going to be a major resource for health professionals in his country."

Previous work headed by the team's investigators (Drs. Johnson, Parlow and Mahaffey) pinpointed the need for such an implementation program in Rwanda. When his time here is finished, Dr. Nyirigira will be returning to Rwanda and taking with him new knowledge. The next phase of the exchange entails some of the investigators returning to Rwanda in 2016.

"He is committed to making care in his country better," says Dr. Parlow. "This is an opportunity for him to learn from us but also for us to learn from him."



Gaston Nyirigira

**P T C**  
THE PHYSICAL  
THERAPY CLINIC  
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### RESEARCH, RESULTS, RECOVERY

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**613-533-2098**

## Getting a jump on job search

BY COMMUNICATIONS STAFF

For many graduate students the next big step is entering the job market. To help them get started the School of Graduate Studies is hosting its second annual Career Week for Graduate Students and Post-Doctoral Fellows.

The week is comprised of a series of workshops that focus on how to apply skills acquired during graduate training to various career options and how to best market those skills.

"Graduate study is not only about pushing the boundaries of discovery and deepening knowledge and its application, it's also about preparing our students for what comes next," says Brenda Brouwer, Vice-Provost and Dean of the School of Graduate Studies. "The SGS Career Week provides a series of workshops and hands-on sessions designed to expose students to the skills and strengths acquired in their academic training that will position them for success in a variety of career settings and to learn strategies for networking, self-marketing, and career planning. It's a fantastic opportunity to think about the future and where your graduate degree might take you."

Workshops will cover a wide range of topics including how to utilize online tools to promote your skills in a changing labour market, jobs in academia, teaching dossiers, and identifying your skills.

There will also be special sessions for graduate coordinators and students with guest speaker Anne Krook, who has extensive experience in the post-secondary and IT sectors.

The week will conclude with a networking reception on Friday, Oct. 23 from 4-5:30 pm at the Agnes Etherington Art Centre. Participants will meet local employers and alumni of Queen's graduate programs to expand their network and explore career opportunities. In this guided networking event, each employer or alumnus will offer up a valuable tip for finding a career that perhaps students and post-docs never knew they were trained to do.

With such a broad range of topics and information, graduate students are sure to find something of value.

A full schedule of the week's events can be found online at [queensu.ca/exph/career-week/](http://queensu.ca/exph/career-week/).

## eventscalendar

### Friday, Oct. 23-Sunday, Oct. 25 Queen's Homecoming Weekend

Homecoming at Queen's - A celebration of community! Be a part of the excitement on October 23 - 25 by attending an event, volunteering, cheering on the Gaels at the football game and welcoming home re-unioning alumni. Classes ending in '0' or '5' are celebrating a milestone this year. Full event details and a link to register at [queensu.ca/homecoming2015](http://queensu.ca/homecoming2015).

### Tuesday, Oct. 20, 12-1:30 pm Speaker: Fredy Armando Peccerelli Monterroso

Internationally renowned forensic anthropologist, founding member and executive director of the Guatemalan Forensic Anthropology Foundation (FAFG), and Chancellor Dunning Trust Lecturer Fredy Armando Peccerelli Monterroso will speak on 'Jumayj Chi Kamayj': Recovering Guatemala's Disappeared. Q&A and discussion to follow. Sponsored by the Department of Geography and Planning and the Chancellor Dunning Trust. Speaker's Corner, Stauffer Library.

### Tuesday, Oct. 13-Saturday, Nov. 21 Union Gallery's Silent Auction: MOSAIC

Union Gallery is excited to announce the onset of the annual Fall Fundraiser and Silent Auction! The 2015 Fundraiser features 8.5x10 canvas works on the theme of MOSAIC. A bidding sheet will be available outside the gallery from Oct. 13 until Nov 21. Drop by the gallery and place your bid on some new and exciting pieces of art.

### Tuesday, Oct. 20-Wednesday, Oct. 21, 10:30 am-3:30 pm Engineering & Technology Fair

Our annual engineering & technology career/internship fairs offer opportunities for students and organizations with an engineering or

technical focus to connect. This fair is held annually in October and January. Follow #careerfairqueens on Twitter for updates and info about this event.

### Tuesday, Oct. 20, 12:30-2:30 pm Open Access: the Good, the Bad and the Unknown

Knowledge Exchange, Impact and Exposure in an Evolving Research Environment - A panel discussion presented by University Research Services and The Library. Panel: 1-2:30 pm (Lunch: 12:30 to 1pm) Panel Moderator: Karina McInnis, Executive Director, University Research Services Richardson Hall, Room 340

### Tuesday, Oct. 20, 3-4 pm Guest Speaker: Vincent Kuire

Professor Vincent Kuire, Post-doctoral Fellow in Geography and Planning will speak on "Understanding Immigrant Housing Integration in Canada: The Role of Transnational Engagements." This lecture will begin at 3 pm. Coffee will be available in the lecture room at 2:30 pm. Mackintosh-Corry Hall, Room D214

### Thursday, Oct. 22, 10:30 am-12 pm MS Outlook - More than Email

This popular workshop offers insights into little-known techniques to get the most of our mail, manage meetings, track tasks, cultivate contacts, and customize Outlook to your individual needs. Learn to create meetings and tasks to automatically recur within your calendar; see how to leverage AutoCorrect, Quick Tasks and Rules to save valuable time, and peek behind the Options tab for secret mail settings that will make your life easier. Jeffery Hall, Room 156

### Thursday, Oct. 22, 12-1 pm Visual Bites in Context

Union Gallery is pleased to welcome artist Pansee Atta, who will be joined by guest scholar Beesan Sarrouh,

PhD candidate in the Political Studies Department focusing on comparative politics, to dialogue around representations of Muslim bodies and space, in particular, in both Canadian and global contexts. Light refreshments will be served.

### Thursday, Oct. 22, 2:30-3:30 pm School of Computing Distinguished Speaker Seminar

Dr. Frank Dehne - InSiPS: The In-Silico Protein Synthesizer - Dupuis Hall, Rm. 217.

### Thursday, Oct. 22, 4-6 pm Colloquium Talk - Nicole Hassoun

Colloquium talk by Nicole Hassoun from Binghamton University. Watson Hall, Rm. 517

### Thursday, Oct. 22, 7-8 pm Art Lecture - Agnes Etherington Art Centre

Amsterdam offered exceptional opportunities for painters to prosper through its diverse professional networks, multi-tiered art market, and international buying public. Bader Curator Jacquelyn Coutre will explore the city's distinctive socio-economic and cultural profile in relation to the immense growth in the art market that attracted such artists as Rembrandt van Rijn, Jan Lievens, and Jacob van Ruisdael over the course of the century.

### Friday, Oct. 23, 11:40 am-12:40 pm MacClement Lecture by Neil Pasricha 'The 3 A's of Awesome!'

The Faculty of Education invites you to a lecture during Homecoming 2015 by Neil Pasricha, Happiness Expert and Bestselling Author of *The Book of Awesome*. Tickets are free, but space is limited so register as soon as possible. Duncan McArthur Auditorium B101

### Friday, Oct. 23, 7:30 pm Queen's Music Showcase Concert

Join our faculty, students and alumni

as we celebrate Showcase as an official Homecoming event. Performances by the Choral Ensemble, the Symphony Orchestra, the Jazz Ensemble, and the Wind Ensemble. Located at the Isabel Bader Centre for the Performing Arts Concert Hall - \$15 adults; \$7 students/seniors.

### Saturday, Oct. 24- Sunday, Oct. 25 Homecoming Weekend Events at the Agnes

The Agnes offers free admission to alumni through Homecoming weekend and early opening hours. On Saturday and Sunday at 11 am, enjoy the fascinating exhibitions at the Agnes in a 45-minute guided tour. The docent will be on hand to answer visitors' questions until 1 pm.

### Monday, Oct. 26, 1- 2:20 pm FLSQ: Dr. Vrinda Narain

Dr. Vrinda Narain, Associate Professor, McGill University, joint appointment in the Faculty of Law and the Institute for Gender, Sexuality and Feminist Studies in the Faculty of Arts. She is also a Research Associate at the Institute for Reconciliation and Social Justice at the University of the Free State, South Africa. Her research and teaching focus on constitutional law, social diversity and feminist legal theory. Topic: Critical Multiculturalism. Macdonald Hall, Rm. 202

### Monday, Oct. 26, 1-2:50 pm Visiting Speaker: Dr. David S. Berry

Dr. David S. Berry, Dean of Law, University of the West Indies, Caribbean Integration Lawmac, Macdonald Hall Rm 515.

### Monday, Oct. 26, 3:30-5:20 pm Colloquium: David Miller

David Miller was initially trained in philosophy at Selwyn College, Cambridge and in politics at Balliol College, Oxford, and after spells teaching at the Universities of Lancaster and East Anglia, he was appointed to his present post at Nuffield Col-

lege in 1979. What is perhaps most distinctive about Miller's work is its use of evidence from the social sciences to inform debates in political philosophy. His longest standing interest is in the idea of justice, originally social justice but now also global justice.

### Tuesday, Oct 27, 7-8:30 pm 2015 Research Fellowship Presentation Evening

A Free Public Lecture by 2015 Margaret Angus Research Fellow Madeleine McKay. Nineteenth-century ideology believed that social deviants, such as convicts and "mad" people, could be "cured" using discipline and hard work. In what came to be known as moral therapy, everyday objects and activities were medicalized for a psychiatric purpose, while the treatment of physical health was increasingly neglected. Kingston Penitentiary and Rockwood Asylum relied heavily on this system and their legacy of convict/patient labour should not be forgotten by the local community. No registration required. Refreshments will follow. Watson Hall, Rm 217

### Wednesday, Oct. 28, 9 am-12 pm New Staff Orientation

The Human Resources Department wishes to invite all newly hired employees (General staff, CUPE Local 229, CUPE Local 254, CUPE Local 1302, Research Grant and Contract and Post-Doctoral Fellows) to an orientation session. Please join us for an informative discussion that includes presentations from various University departments and services as well as essential human resources information. Mackintosh-Corry Hall, Room B176

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

## 5 Things to know about Arthur McDonald and the Nobel Prize

On Tuesday, Oct. 6, Professor Emeritus Arthur B. McDonald became the first Nobel Laureate for Queen's University, receiving the award for his groundbreaking research on neutrinos. Here's a look not only at his career but at the history of the Nobel Prize as well.

**1** Arthur McDonald is the winner of the 2015 Nobel Prize in Physics, along with Takaaki Kajita of the University of Tokyo. He is the 24th Canadian to earn a Nobel. Other international recipients in physics over the years include Erwin Schrodinger, Niels Bohr, Guglielmo Marconi, Marie Curie and Albert Einstein.

**2** Dr. McDonald arrived at Queen's University in 1989, was the inaugural Gordon and Patricia Gray Chair in Particle Astrophysics and served as the director of SNO, now known as SNOLAB, an advanced research facility located 2 km underground in an active nickel mine in Sudbury.

**3** Dr. McDonald, now Professor Emeritus at Queen's, previously worked as a research officer at the Chalk River Nuclear Laboratories from 1970 to 1982. He then taught physics at Princeton University from 1982 to 1989.

**4** Nobel prizes, endowed by Alfred Nobel, the Swedish inventor of dynamite, were created in 1901. Five were awarded annually - physics, chemistry, medicine or physiology, literature and peace - until 1969, when a prize for economics was endowed by the Swedish state bank.

**5** Neutrinos are very small particles that are emitted by the sun and all stars. They are a fundamental particle like quarks or electrons and were described by the Standard Model of elementary particles. Dr. McDonald's research at SNOLAB discovered that neutrinos have mass and that they can change from one type of neutrino to another.

## athleticsandrecreation

### Get in the end zone

BY COMMUNICATIONS STAFF

The Queen's community has the opportunity to have a say in how a piece of the revitalized Richardson Stadium will look.

Athletics and Recreation at Queen's is currently hosting the End Zone Design Contest, where people are invited to cast their vote online for one of three designs for the end zones of the football field.

Votes can be cast at [gogaelsgo.com/endzonevote](http://gogaelsgo.com/endzonevote) from Oct. 15 to Nov. 15. The design with the most votes will be selected as the design featured at the stadium when it opens in fall 2016.

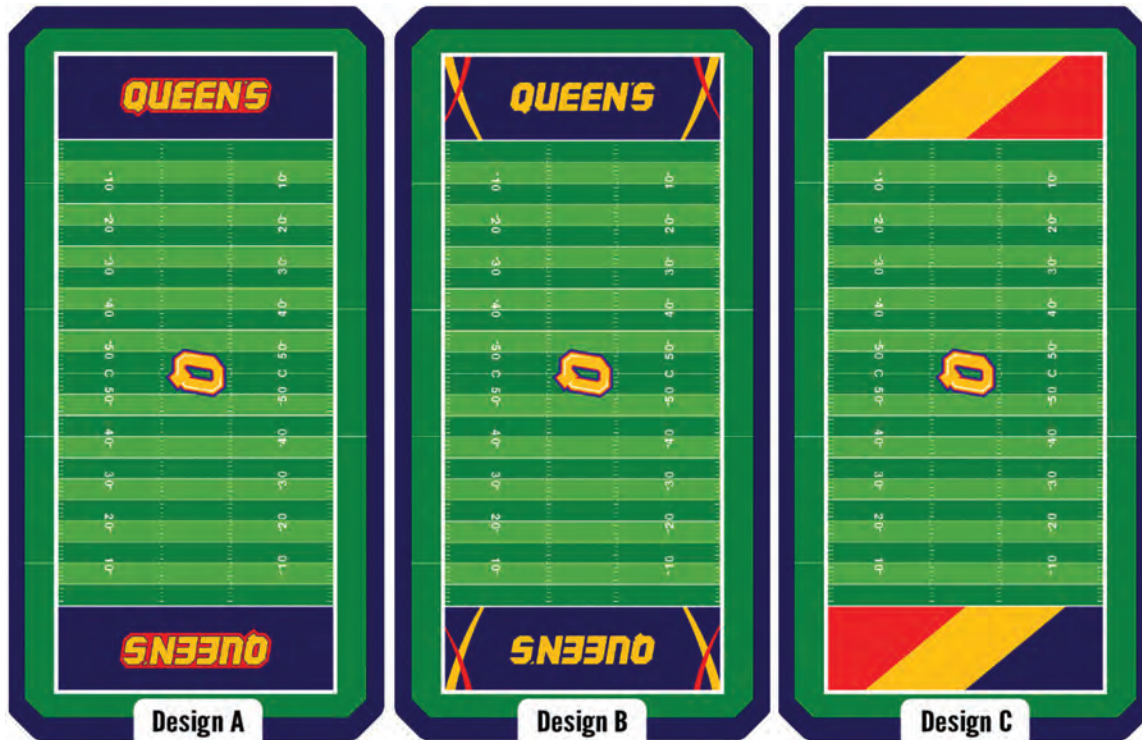
The revitalization of Richardson Stadium is a priority within Queen's University's \$500-million Initiative Campaign.

The project is viewed as not

just the construction of a new stadium but a key element to the building of a strong varsity sports program for Queen's, and of a strong university overall.

Plans for the revitalization were kicked off in March 2014 with the announcement of a \$10 million pledge to the stadium project from Queen's alumnus and former Gael Stu Lang and his wife Kim. That announcement was followed by news of a \$5 million contribution from the Richardson Foundation. Other donors have also come forward to contribute to the project, bringing the total amount raised to more than \$17 million.

The university will contribute an additional \$3 million for infrastructure support of the stadium, bringing the total funding to \$20.27 million.



Athletics and Recreation at Queen's is hosting the End Zone Design Contest, where people are invited to cast their vote online for one of three designs for the end zones at the revitalized Richardson Stadium.

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## fittips

## Fall into fitness

Fall can be a treat for the senses; the crisp air, apple picking, pumpkin carving, a gorgeous canopy of fall foliage, and the crunch of leaves underfoot.

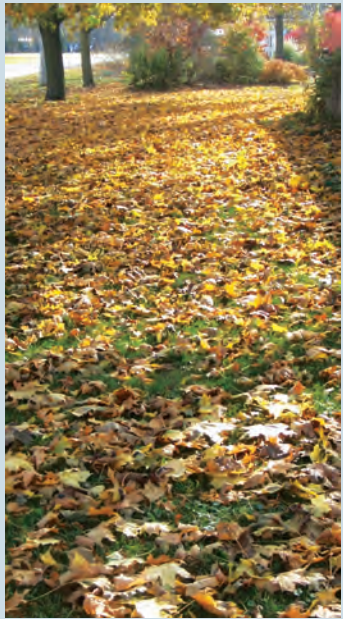
These months are a great time to exercise outdoors and enjoy cooler temperatures.

Here are a few tips to get you active this fall:

- Discover local trails like Lemoine Point or Catarauqui Region Conservation Area and take in some new scenery.

- It doesn't need to seem like a workout, raking leaves or doing some fall outdoor yard work is a great way to get the heart pumping and burn some calories.

- When exercising outside try dressing in three layers, the inner layer should be a moisture-wicking fabric. The second layer should be a warmth layer, and the third layer should be a protective layer like a windbreaker.



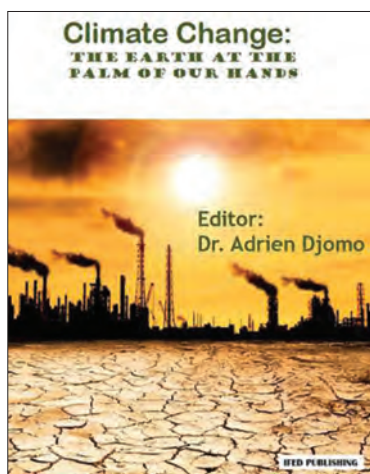
With the change of seasons comes a renewed time to rethink, restart and Get Your 150!

## books

*Climate Change: The earth at the palm of our hands*, edited by **Adrien Djomo**, Adjunct Assistant Professor and Research Associate, Department of Geography and Planning

Climate change is one of the pivotal issues of our time but has also been present throughout earth's history. The climatic aspects of environmental change affect lakes, water levels, glaciers, desertification and dwindling water resources. It is well known that recent human activities have resulted in an unprecedented increase of greenhouse gases with serious consequences on the climate systems which have impacts on biodiversity, human health and availability of natural resources. In an ever-more populous world one of the most important questions to answer is whether policy action on climate change must wait for more accomplished science or whether action is merely delayed by the failure to appreciate science.

*Climate Change: The earth at the palm of our hands* gathers together the work of the students of Dr. Djomo's GHPY 314 Climate Change course as they explore the climatic aspects of environmental change. The book is the extension of essays resulting from presentations during the class seminar series and paper writing on the main issues related to climate change. The best papers were se-



lected for publication, with each being reviewed in order to provide feedback to the authors. The overall goal is to share the contributions and findings with a wider audience. Each piece explores an aspect of climate change including the past, present and future as well as the impacts and political and economic implications involved in such topics as "Changes to the Greenland Ice Sheet in the Past Millennium," "Consequences of El Nino Southern Oscillation," and the "Impact of Climate Change on World Economies."

The hard-copy of the book is available at Queen's Campus bookstore.

The contribution for the print and other related costs is \$31.25. The electronic version of the book can be obtained at [campusebookstore.com/EBooks/Book.aspx?ID=9650207&bookseller\\_id=5](http://campusebookstore.com/EBooks/Book.aspx?ID=9650207&bookseller_id=5).

## fortherecord

## New deputy provost appointed

Teri Shearer, an associate professor at Smith School of Business, has been appointed deputy provost, effective Jan. 1, 2016.

Dr. Shearer, currently the associate dean of faculty at Smith School of Business, replaces Laeeque Daneshmend, who is returning to his faculty position as a professor in the Robert M. Buchan Department of Mining, in the Faculty of Engineering and Applied Science.

"Dr. Shearer brings extensive academic and administrative experi-



Teri Shearer

ence to this role," says Alan Harrison, Provost and Vice-Principal (Academic). "I would also like to thank Dr. Daneshmend for his dedication and commitment to the position over the past three years."

As the deputy provost, Dr. Shearer will work closely with Queen's senior management team to advance the academic, operational, and budgetary goals of the university. Among her responsibilities, Dr. Shearer will play a leadership role, on behalf of the provost, in overseeing academic appointments.

Throughout her time at Queen's, Dr. Shearer has been actively involved in the administration at the school of business, most recently as

associate dean. She also served as chair of the school's faculty board and chair of the academic appeals committee from 2008-2012, and she has been active on numerous other committees.

Additionally, she has represented the school of business on Senate, and is a past chair of both the Senate Budget Review Committee and the Senate Committee on Academic Procedures.

Dr. Shearer joined Queen's in 1996 after completing her PhD at the University of Iowa.

Her research interests centre on the social and behavioural consequences of accounting practices, and she has published in some of the top journals in her field.

## 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:** 2015-283  
**Job Title:** Planner (USW Local 2010)  
**Department:** Campus Planning and Development  
**Hiring Salary:** \$60,770 (Salary Grade 9)  
**Hours per Week:** 35  
**Appointment Terms:** Continuing Appointment  
**Closing Date:** 29-Oct-2015

- **Competition:** 2015-282  
**Job Title:** Manager, Business Coaching Group  
**Department:** Business Coaching Group, Smith School of Business  
**Hiring Salary:** \$60,770 (Salary Grade 9)  
**Hours per Week:** 35  
**Appointment Terms:** Continuing Appointment  
**Closing Date:** 25-Oct-2015

- **Competition:** 2015-281  
**Job Title:** Student Support Assistant (USW Local 2010)  
**Department:** Undergraduate Medical Education, School of Medicine  
**Hiring Salary:** \$39,199 (Salary Grade 5)  
**Hours per Week:** 35  
**Appointment Terms:** Continuing Appointment  
**Closing Date:** 27-Oct-2015

- **Competition:** 2015-280  
**Job Title:** Standardized Patient Program Assistant (USW Local 2010)

- **Department:** Undergraduate Medical Education, School of Medicine  
**Hiring Salary:** \$39,199 (Salary Grade 5)  
**Hours per Week:** 35  
**Appointment Terms:** Term Appointment (15 months)  
**Closing Date:** 27-Oct-2015

- **Competition:** 2015-237  
**Job Title:** Associate Director, Finance and Administration  
**Department:** Athletics and Recreation  
**Hours per Week:** 35  
**Appointment Terms:** Continuing Appointment  
**Closing Date:** 21-Oct-2015

- **Competition:** 2015-236  
**Job Title:** Associate Director, Facilities and Operations  
**Department:** Athletics and Recreation  
**Hours per Week:** 35  
**Appointment Terms:** Continuing Appointment  
**Closing Date:** 21-Oct-2015

## Successful Candidates

- **Job Title:** Financial Assistant (USW, Local 2010)  
**Department:** Geological Sciences & Geological Engineering  
**Competition:** 2015-246  
**Successful Candidate:** Brenda Wood (Financial Services)

- **Job Title:** Analyst L1 (USW Local 2010)  
**Department:** Information Technology Services  
**Competition:** 2015-234  
**Successful Candidate:** Jesse Kimber (Campus Computer Sales)

- **Job Title:** Facilities Key Clerk (USW Local 2010)  
**Department:** Residences  
**Competition:** 2015-212  
**Successful Candidate:** Chad Brightman

- **Job Title:** Data Systems Administrator (USW Local 2010)  
**Department:** Student Wellness Services  
**Competition:** 2015-242  
**Successful Candidate:** Francis Semenuk

- **Job Title:** Human Resources Assistant  
**Department:** Human Resources, Queen's School of Business  
**Competition:** 2015-240  
**Successful Candidate:** Kelly Rathwell

- **Job Title:** Elder in Residence (USW Local 2010)  
**Department:** Four Directions Aboriginal Student Centre (FDASC)  
**Competition:** 2015-233  
**Successful Candidate:** Betty Carr-Braint

- **Job Title:** Coordinator, Facility Operations (USW Local 2010)  
**Department:** Athletics and Recreation  
**Competition:** 2015-224  
**Successful Candidate:** Brittany Jennings

- **Job Title:** Instructional Design Multimedia Support Analyst (USW Local 2010)  
**Department:** Continuing & Distance Studies  
**Competition:** 2015-132  
**Successful Candidate:** Candace Parsons (Continuing & Distance Studies)



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