

onQ

APRIL 2011



Queen's
UNIVERSITY

People, stories and ideas at Queen's University

CREATING A CULTURE OF SUSTAINABILITY

EDITOR'S NOTE

In putting together this issue of onQ, I came into contact with people who share a passion for the environment and for the exploration and development of sustainable practices: Steve Harrison's and Joshua Pearce's work on alternative energy, Harry McCaughey's research in climatology and his commitment to the School of Environmental Studies, Ann Browne's knowledge of sustainable building practices, and Aaron Ball's innovative initiatives for creating a culture of sustainability, all represent a determination to respect and conserve our environment. And they are among many faculty and staff at Queen's who share that passion.

I also came across the word 'action' a lot: Queen's Sustainability Action Committee; Climate Change Statement of Action for Canada; AMS Sustainability Action Fund. These all contain that key word. I was pleased to discover that, in fact, Queen's has been active in creating a culture of sustainability. Some people I spoke to expressed frustration and impatience that we aren't more active. Others countered that sentiment by pointing out the progress we've made and outlining plans for new initiatives.

The message that I took away from my discussions and research is that action is still required. The sustainability champions on campus are making great strides in this important cause. However, every single person at Queen's needs to take action if we are to succeed.

Take a close look at the front cover, a mosaic of the people, facilities, and services that help to make up Queen's campus and Queen's spirit. These images represent all of us coming together to create a culture of sustainability for our beautiful, yet fragile environment. It really is in our hands.

Anita Jansman

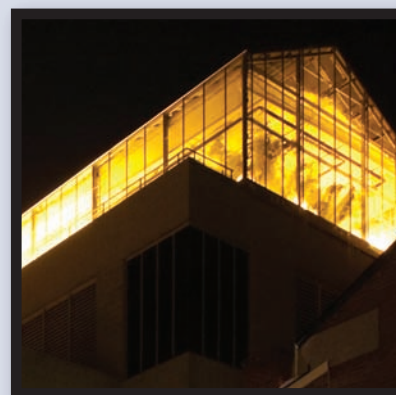
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ca.studentvoice.com/queens/onqreadership

HIDDEN GEMS

Do you recognize this
architecture on campus?

Turn to p. 15 for the answer.



April 2011

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EDITORIAL POLICY

Commentary and expert opinions that address
issues related to higher education and are con-
sistent with the mandate of onQ are welcome to
Viewpoint. The editor reserves the right to edit
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All submissions must be original and addressed
to the editor, and include your name, affiliation
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anita.jansman@queensu.ca by the 15th of each
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next issue.

ON THE COVER: Take a close look at the people,
buildings and facilities that make up our campus.

SUSTAINABILITY: TIME TO PRACTICE WHAT WE TEACH

BY JOSHUA PEARCE

Sustainability is not debatable. You can't fake it. Either your system can continue indefinitely or it can't. If your system depends on a finite supply of fossil fuels, which have a well-known direct link to global climate destabilization, then it is not sustainable by definition. Here at Queen's our greenhouse gas emissions amount to more than 55,000 tons per year instead of zero. We are not sustainable – we are not even close. It should provide little comfort that other institutions are objectively even worse.

Yet we try to teach sustainability. There is a growing list of courses, driven by student and faculty interest, to study and solve sustainability problems. We even started an Applied Sustainability graduate program in Engineering. However, there is a risk we are learning more from a “shadow curriculum” than from the course content. I can lecture on energy efficiency and renewable energy until I am blue in the face, but if the building I am teaching in is flagrantly inefficient (they all are), the bottom line that is transferred to

student minds can be the opposite of my intent. It is like lecturing your children about the dangers of smoking and climate change as you chain smoke while driving them to soccer practice in an SUV. An otherwise strong curriculum is undermined by practices on campus that effectively teach lessons of waste, inefficiency, and disregard for human health and the environment over the long term.

In my opinion, what makes this especially sad is that it costs Queen's more money to waste this fossil fuel than it would to fix the problem. We burn through about \$15 million per year in utility bills. We could save a minimum of \$5 million per year undergoing a campus-wide guaranteed energy savings program, which would not cost us a penny. Corporations called “energy service companies” would jump at the opportunity to fix our campus and feast on the rich profits of eradicating our waste. It is long past time we take a real leadership role in sustainability, crush the “shadow curriculum” and begin to practice what we teach. **Q**



NOTES ON **Q**

- Queen's Solar Coalition has been awarded the Commerce and Engineering Environmental Conference (CEEC) Green Globe Award for Queen's community involvement. The core of the coalition consists of the Alma Mater Society, Society of Graduate and Professional Students, Main Campus Residence Sustainability Coordinators, Queen's Backing Action on Climate Change, Queen's Applied Sustainability, and the Rector. www.eec.ca
- RecycleMania Queen's has been participating in RecycleMania, a friendly competition and benchmarking tool for college and university recycling programs to promote waste reduction activities to their campus communities, running from February 6th to April 2nd. Watch for results to be announced in early April. www.recyclemaniacs.org
- Spring Reunion Weekend – You're Invited! Queen's Reunion Weekend is May 27 – 29 and it's not just for alumni. Queen's faculty, students and staff are also encouraged to join the fun and party like it's 1841 during Queen's at the Fort! Queen's will invade Fort Henry Saturday, May 28 and will have exclusive access to tour the facilities, enjoy a three course dinner, entertainment by the Fort Henry Guard and Queen's Bands, and have the evening capped off with Queen's-themed fireworks! Complete information and registration is available online at www.queensu.ca/alumni

onQ welcomes commentary and expert opinions that address issues related to higher education to *Viewpoint*. Email anita.jansman@queensu.ca or submit via www.queensu.ca/news/onq. Maximum 300 words.

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DID YOU KNOW?

- it takes 17 trees to make a ton of paper
- Queen's spends approximately \$800,000 to purchase new office supplies each year
- one piece of garbage in a recycling container makes it all garbage
- a basic styrofoam cup takes an average of 50 years to decompose in a landfill
- last year Queen's generated enough waste to fill the Queen's Centre pool 13 times

WHERE DOES IT ALL GO?

- **garbage** – hauled by BFI Canda to three landfills throughout Eastern Ontario
- **recycling** – Manco in Napanee and HGC is Belleville
- **compost** – Norterra in Joyceville

QUEEN'S GREEN INDEX

Annual waste weight	2800 metric tonnes (MT)
Annual composting weight	142 MT
Annual recycling weight	1155 MT
Annual diversion rate	41 per cent
Annual electricity consumption	98 million kW/h
Annual steam energy produced	500,000 gigajoules (GJ)
Campus building square footage	6.9 million
Campus population (employees and students)	27,000
Campus carbon Footprint	55,000 tonnes (CO ₂ e)

Source: Queen's Sustainability Office

Living Wall in
Beamish-Munro Hall



A CULTURE OF SUSTAINABILITY

Ann Browne, Associate Vice-Principal (Facilities), likes to remind people that Queen's is like a city of 25,000 people. Like any other city, the campus accommodates and provides for its citizens in myriad ways, through housing, access routes, facilities, and services that keep it clean and safe. And as with all cities, sustainability is top of mind for those involved with planning and maintenance.

After Ms Browne came to this role she established the Sustainability Office as the focal point for all matters relating to sustainability at Queen's. "Sustainability at Queen's applies to individuals, the campus and the community, and this office is meant to coordinate activities addressing environmental, social and economic concerns that are consistent with the university's goals," says Ms Browne.

With the Sustainability Office firmly established, many projects have been launched. Yet, the same challenges that precipitated its creation still exist and grow increasingly complex. Every new building requires sustainability considerations, and in the past decade, buildings have come at a steady rate – witness the Queen's Centre opened in 2009, the Goodes Hall expansion, and the School of Medicine, both currently under construction. These buildings have been constructed to conform to Leadership in Energy and Environmental Design (LEED) standards and some have applied for certification. In addition, Queen's Physical Plant Services standards address many aspects of sustainable practices, independent of LEED routine life-cycle analysis.

Striking a balance between preserving the historic integrity of the building and energy efficiency is not easy. For example, when choosing building materials, a major consideration is longevity. "Let's put on a roof that will last 40 years instead of 10," says Ms Browne. And while a project to install solar panels on buildings to produce clean energy is underway, there are huge considerations involved. "Solar photovoltaic technology is good, but its effective application must be balanced by other building attributes including roof conditions and loading, grid connection and historic designation," she adds.

Many of the decisions and actions required to increase Queen's level of sustainability are at the administrative level. However, there continues to be a huge role and responsibility for employees and students who work and learn on campus every day. Practices such as using recycling bins, shutting down computers at the end of the day, turning off lights, and car-pooling may sound like worn out ideas, but they remain vitally important.

This can't be stressed enough, says Aaron Ball, Sustainability Office manager. He encourages people to present their own ideas to his office, which will evaluate, rank and track sustainable ideas and initiatives. "We're here to facilitate. We're not here to dictate, but we do need everyone to participate," says Mr. Ball. www.queensu.ca/sustainability

SUSTAINABILITY ACTIVITY HIGHLIGHTS

Principal Woolf signs the **University and College Presidents' Climate Change Statement of Action for Canada**

AMS Sustainability Action Fund provides resources for student-led sustainability initiatives

Fescue Grass test site assesses the usability of a drought-tolerant, slow-growing, and pest-resistant grass

Freecycle@work network provides university community vehicle for promoting reuse of campus assets

Greenhouse Gas Emission Inventory annual report

Queen's Community and University Garden

Queen's Goes Bottled-Water Free effective September 2012

RecycleMania promotes waste reduction activities to Canadian campus communities

Residence Energy Challenge in which students compete to save energy in their buildings

Vermicomposting, the first Canadian student-run initiative that uses worms to decompose organic matter

Water Coolers available for loan from the Sustainability Office

Queen's is a community partner with **Sustainable Kingston**, which has a vision to become Canada's Most Sustainable City

Visit the Queen's News Centre for these and more sustainability stories:
www.queensu.ca/news

- Queen's supports inaugural conference on sustainable industry
- A green, renewable alternative to nuclear power?
- Green Globe Awards celebrate sustainability
- Student honoured for work with Gulf of Mexico oil spill response team
- University's greenhouse gas emissions decrease
- New signage spells out recycling on campus
- Sustainability group launches 3-D printing design contest
- Student group promotes benefits of tray-less dining
- Queen's improves on sustainability ranking
- Bottled water sales to end by September 2012
- Professor looks to promote climate change awareness one question at a time
- Queen's partners with companies to develop sustainable energy sources
- Greenhouse gas inventory measures Queen's carbon footprint

Do you have an idea that would support sustainability? Fill out a Project Exploration Form, at www.queensu.ca/sustainability and submit to the Sustainability Office for evaluation and assistance in implementing your idea.

CENTRE FOR STUDIES ON DEMOCRACY AND DIVERSITY BEHIND NEW UKRAINIAN TEXTBOOK



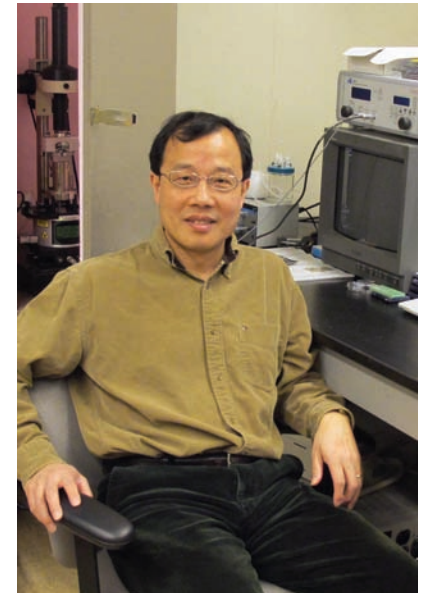
George Perlin and Lyubov Margolina

A secondary school textbook supported by the Centre for Studies on Democracy and Diversity's Building Democracy in Ukraine (BDU) project is being distributed to all Grade 11 students in Ukraine. The textbook won a national competition to be the core text for a new civic education program. Centre Director George Perlin says this program will be taught in 20,000 secondary schools in Ukraine and 200,000 students a year will work with the textbook.

The BDU project was established in 2004 to help create a comprehensive education program about democracy throughout Ukraine. Lyubov Margolina, the BDU's director in Ukraine, is the lead author of the textbook that explains democratic rights and responsibilities to Ukrainian students. The textbook is fully integrated with the curriculum and offers an important foundational civic education for students who do not go on to university. **Q**

NANOTECHNOLOGY TO PROLONG MACHINE AND ENGINE LIFE

Chemistry professor Guojun Liu has discovered a way to use nanotechnology to reduce friction in engines and machines. If implemented industrially, this nanotechnology could help prolong machine life and improve energy efficiency. Dr. Liu's team manufactured miniscule polymer particles that were only tens of nanometres in size. These particles were then dispersed in automobile engine base oils. When tested under metal surface contact conditions that simulated conditions in automobile engines, these tiny particles were discovered to significantly reduce friction. Even at a low concentration, the nanoparticles were able to reduce friction by 55 per cent more than the currently achievable rate. Dr. Liu's discovery has been recognized by the American Society of Tribologists and Lubrication Engineers (STLE) with the Captain Alfred E. Hunt Memorial Award. **Q**



Guojun Liu

PROFILE

SOLAR COOLING HEATS UP BY KRISTYN WALLACE



Steve Harrison

It's strange to think that solar energy could be used to provide low-cost, sustainable air conditioning, but that's exactly what Mechanical and Materials Engineering professor Steve Harrison and his students have been working on recently at Queen's Solar Calorimetry Laboratory in McLaughlin Hall.

"We're investigating liquid desiccants," says Dr. Harrison. "It is a very interesting technology for providing air conditioning at a lower cost using renewable energy."

Liquid desiccants absorb moisture from the air, thereby reducing humidity. In humid climates, removing excess humidity

can represent as much as 80% of the air-conditioning load.

"What you end up with is dry air at the outlet," says Dr. Harrison. "Then all you have to do is lower the temperature a little bit."

Dr. Harrison's team is undertaking this work with support from Natural Resources Canada, in conjunction with the Canadian Solar Buildings Research Network (SBRN).

"A massive amount of energy is used for heating and cooling buildings," says Dr. Harrison. "If we can identify practical, cost-effective ways to use renewable energy to meet these demands, we can significantly

reduce greenhouse gas emissions and avoid building new electrical generating capacity."

Previous work done by Dr. Harrison and his team has resulted in significant innovations that led to the establishment of Enerworks Inc., a leading manufacturer of solar thermal products in North America. As a co-founder and theme leader for the Canadian Solar Buildings Research Network, a Canada-wide NSERC-funded strategic network, Dr. Harrison works with researchers from 13 universities and colleges. The primary goal of the SBRN is to develop net-zero energy homes using photovoltaic and solar thermal technologies. **Q**



Rachel Carson, environmentalist and author of *Silent Spring*, once said, “One way to open your eyes is to ask yourself, What if I had never seen this before? What if I knew I would never see it again?” Perhaps this would be a good starting point for students as they launch into their university education. Why and how should Queen’s make sustainability inherent in the curriculum?

How SUSTAINABLE IS OUR CURRICULUM?

One of the most important aspects of creating a culture of sustainability at Queen’s is incorporating courses on the environment and sustainability into curriculum. This idea was highlighted in the United Nations’ Brundtland Commission in 1987, which stressed the need for sustainability at both the local and global levels. Sustainability Office manager Aaron Ball believes that “in some ways, it’s the most important thing we do here.”

Harry McCaughey, professor in the Department of Geography and member of the Queen’s Sustainability Action Committee, agrees. “Sustainability is just as important a consideration if you’re an engineer designing a car as it is for a sociologist, lawyer or a climatologist. It should be inherent in any discipline,” he says. “We need to send students out into the world who have a real sense of the seriousness of the environmental challenges we face.”

Dr. McCaughey would like to see more cross-departmental cooperation in course and program development, noting that changing curriculum is a slow and often cumbersome process. “It’s crucially important that we share resources to create courses that truly address these critical issues,” he says.

At present, sustainability and environmental courses are available in virtually all of the science and engineering programs, and the School of Environmental Studies has been graduating undergraduate and graduate students since 1995. Humanities departments, such as History, Philosophy, and Sociology also offer

a few courses, and the Faculty of Law includes three environmental protection law courses among its offerings.

Working through the Sustainability Office, engineering students have opportunities to apply their studies to real-world problems. First-year students are retro-fitting the water fountains with a spout to fill bottles, and upper-year students are exploring a geothermal heating and cooling system. Film Studies students are currently working on website design and interactive videos for the Sustainability Office. “It’s a way for students to find solutions to very real and concrete problems,” says Mr. Ball.

Another recent example of curriculum intersecting with the real world is in the School of Environmental Studies, where Steven Moore is teaching ENSC 390, Sustainability Measurement and Implementation. One of the course assignments is for students to invent engaging ways to promote both the new program, Queen’s Goes Bottled-Water Free and the use of public drinking fountains on campus within a virtual budget of \$100.

“This is a great opportunity to teach implementation while giving students a voice about sustainability,” says Mr. Moore. “Who better to design events for students than students? The Sustainability Office will review the proposals and choose some for the actual campaign. I’m sure there will be some very inventive and engaging ideas that will appeal to other students.”

“While these all make for excellent learning opportunities and students’ lives will be much more enriched through the experience, there remains a need for more of these and more integration of courses across disciplines, so that all students can gain from the same opportunities,” says Dr. McCaughey. **Q**



RELATIONSHIP BUILDERS



Dan Bradshaw (L) and Al Orth

Queen's is, first and foremost, an institution of higher learning. But it is also an employer of more than 6,500 faculty and staff. Keeping the institution running smoothly while providing the quality education our students expect is our common interest. And it's a big part of Associate Vice-Principal (Faculty Relations) Dan Bradshaw's and Associate Vice-Principal (Human Resources) Al Orth's jobs to ensure that Queen's does its best to attract and retain the best faculty and staff available.

1) There has been an increase in labour relations activity over the past few months. Can you describe the landscape on campus?

AO: Over the past year, several employee groups have voted to be represented by labour organizations. Right now, we are at the table with six groups, at various stages of the collective bargaining process. Collective agreement talks are underway with Queen's University Faculty Association (QUFA), Public Service Alliance of Canada (PSAC), three units of the Canadian Union of Public Employees (CUPE) and the Ontario Nurses Association (ONA).

DB: Some of these talks are the regularly timed negotiations that occur in the cycle of collective agreements, and some are discussions that are laying the groundwork for first contracts. It's certainly a busy time!

2) Is this level of activity comparable to other Canadian universities?

DB: It's new to Queen's but not to the sector. Many universities have a number of union groups on campus.

AO: More broadly, many unions have been transforming themselves, as the economy changes. They are no longer just representing employees in manufacturing and trades, which is their historic base. As the knowledge and service sectors grow, it's not surprising that professional and experienced organizations move into these growth sectors and labour markets, including universities.

3) How is Queen's responding?

AO: This is a very important area of activity, obviously – our employees are a big part of what makes Queen's a premier post-secondary institution. We respect the rights of employees to organize themselves however they choose.

DB: We will work collaboratively with representatives of all employee groups to advance our collective interest – the success of the university. We have just hired an Associate Director of Faculty Relations – Marie Doherty – who will be supporting negotiations and will play a significant role in implementing a first agreement with PSAC.

AO: And in HR, we have a new Director and Counsel, Employee and Labour Relations, Lisa Newton, who comes from McMaster. So we have strong teams in place to ensure the processes run smoothly. **Q**

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GARDEN TIME




Eager gardeners will be able to stick their spades in the ground at the Queen's Community and University Garden, beginning May 1. Located at West Campus, the garden offers 16 plots to members of the community. The garden was a huge success in 2010, its inaugural season, and Sustainability Office manager Aaron Ball looks forward to similar enthusiasm for it again this year.

"This is a great way to bring the community together and grow food on a space that would otherwise be unused," he says.

Zabe MacEachren, professor in the Faculty of Education, grows a garden for the Outdoor and Experiential Education program she coordinates. "The plot allowed teacher candidates to experience some of the ways gardening and food education is being introduced to the school curriculum as part of a healthy living emphasis. It also allowed us to enjoy some delicious tomato

spreads and meals throughout our school term and class outings," says Professor MacEachren.

Deanna Mason, assistant professor in the Department of English, echoes Ms MacEachren's sentiments

"As someone who has always lived in urban areas and never tried my hand at gardening, growing my own vegetables and flowers was a great experience for me," says Professor Mason "Actually seeing the plants grow on a day-to-day basis and caring for the vegetables until they were harvested gave new depth to my appreciation of seasonal foods. On a different note, visiting the garden in the evenings after days spent inside at a desk was a refreshing change of pace that really helped me to feel more connected to the earth." 

For more information about the garden, contact Aaron Ball balla@queensu.ca

CAMPUS PARTNERS COME TOGETHER TO LAUNCH NEW STUDENT ADMINISTRATIVE SYSTEM

BY MARK KERR

A project the size and complexity of the new student administrative system requires a great deal of collaboration.

"Working in a pod-like environment allows us to hear what each other are saying. That's important because changes to a function within one part of the system often impact other parts of the system," says Paul Pearsall, who joined the Queen's University Administrative Systems Replacement (QUASR) student team in early 2009 from the Office of the University Registrar (OUR).

The QUASR team office is located off-campus on Princess Street, but it is by no means isolated.

"We also work extensively with our partners in the OUR and the faculties and departments," says Sue Blake, who moved to the student team full time in May 2009 from the Faculty of Arts and Science. "I spent a lot of my first year meeting with people in order to understand their processes and how they do things. Everyone I talked to was willing to share their knowledge."

Mr. Pearsall believes the knowledge he gained working to ensure functional processes used at Queen's match the PeopleSoft system will prove valuable in the future.

"Personally, the new information I learned about various functions will help me make better decisions in the work I will be doing when I return to the OUR," says Mr. Pearsall.

Working with the OUR to revise the Arts and Science course calendar so that it better reflects how the PeopleSoft system is configured was one aspect of Hugh Horton's involvement in the project. His close examination of regulations and policies

has long-term benefits for the faculty.


"We have done a lot of housecleaning that will reduce some of our administrative overloads," says the Associate Dean (Studies) in the Faculty of Arts and Science. "Ultimately, and most importantly, the students are going to be the beneficiaries because things like academic advising and graduation are going to be much more straightforward."

Collaboration continues even after the second major release of the student administrative system that occurred early in March.

"We have been transferring our knowledge back to people in the OUR, faculties and departments who are starting to use the system. Working with the great teams in those offices helps with the challenging process of knowledge transfer," says Mr. Pearsall.

Under the watchful eye of support coordinator Sue McLeish, the PeopleSoft Student System Support Centre is striving to provide effective service to the entire Queen's community. As the real-life production goes on, the support and the model are expected to evolve.

"Every support issue is centrally recorded in an online tracking system and directed to the most appropriate person to ensure that staff and faculty get the help they need as quickly as possible," says Ms McLeish.

Training sessions for the new system are ongoing to ensure people have the knowledge they need as different parts of the system come into play throughout the academic cycle. 

www.queensu.ca/quasr/index.html

STAFF HONOUR ALFRED BADER WITH CAMPUS COMMUNITY APPEAL GIFT BY MARK KERR



Chris Russell and Stephen Kincaid never imagined the murals they painted on the wall of their supply room would be noticed by one of the university's most renowned benefactors.

"I'll never forget the day in 1999 Alfred Bader visited our room that we called the Eats and Treats Café. He was on his way to the drama department in the basement of Theological Hall when he noticed the murals. He said jokingly that it was better than anything he had seen at Ontario Hall," recalls Mr. Kincaid.

Dr. Bader was so impressed by the colourful paintings of musicians and movie stars that he returned a short time later with a print of "Man Surprised," the first Old Master painting that he purchased in the early 1950s. Mr. Kincaid still has the print that bears Dr. Bader's personal message.

"Our project is tucked away in a corner of the university that not many people see. I

thought it was pretty special that someone of Dr. Bader's stature noticed it and complimented us on it," says Mr. Russell. "We hope the murals stay there for years to come."

The custodians decided this year to pay tribute to Dr. Bader by participating in the "You Made a Difference to Me" initiative developed by the Campus Community Appeal volunteers.

"Giving to the Campus Community Appeal in honour of Dr. Bader is our way of saying thanks to someone who has unselfishly provided so much to Queen's over the years," says Mr. Kincaid.

The Campus Community Appeal, the university's annual fundraising effort directed to all faculty and staff, is currently underway. To learn more and view the appeal video produced by Queen's staff, faculty and students, visit

www.queensu.ca/giving/ways/communityappeal.html 

THE GRAND THEATRE

Grand Theatre Presents Performances

April

Tower of Power
Apr. 2

Theatre Jones Roy presents Letters to My Grandma
Apr. 5 & 8

Theatre Jones Roy presents Pyaasa
Apr. 6, 7 & 9

Just for Laughs Road Show
Apr. 9
Performance sponsor: Jensen Building Ltd.

Théâtre Motus presents Baobab
Apr. 17
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The Music Man
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Paul Taylor Dance Company
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DANIELLE GUGLER


Graduate students entering programs in Cultural Studies or Global Development Studies can rest assured that **Danielle Gugler** will look after them. As Graduate Assistant, Ms Gugler takes great satisfaction from connecting with students from the moment they make their first inquires about applying to Queen's, through to when they receive their degrees. This year, 50 students will visit her office in Mackintosh-Corry Hall with questions about registration, courses and anything else a graduate student might need help

with. She also coordinates the activities of nearly 90 faculty members who serve the two interdisciplinary programs.

"I like the energy here where the students and faculty are focused on a dream," she says. "Both disciplines are about finding how one fits in the world and community. I like witnessing students embarking on that dream and how the faculty members are continuing it."

She admits it's a challenge juggling the work from two different programs, but Ms Gugler relies on a sense of humour to help

get through the particularly complicated times, a recent example being the launch of the new Student OnLine University System (SOLUS) that has replaced QCARD. "We're all in this together and I love the people I work with. That helps so much," she says with a smile.

At home, Ms Gugler enjoys the company of another, much younger, person – her three year old daughter. "We sing and dance together," she says. "It's another kind of learning that is equally valuable and a lot of fun, too." 

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20. Toronto design school
22. Morrison novel
24. With away, a vacation
26. Pixel
27. Ammo
29. Growing method
33. Harrison's power source see p. 6
35. Silent actor Chaney
36. Slice
38. Length of time
39. Soldier Sir Pasha
42. Taking a break
45. Capone or Roker
46. com or edu alternative
48. Card game
49. Lemon pie, on both counts
52. Arran or Fair
55. Order
58. Conclusion word
60. Climbing vine
62. Israeli airline
63. Get a grade or a paycheck
64. Obsolete exclamation
65. A Ford SUV or a cricket near miss
66. Belonging to the 'Science Guy'
67. Golfer Ernie

DOWN

1. Global financial org.
2. Margarine of old
3. Undercover drug cop
4. West Campus green spot see p. 9
5. Province in Brunei or town in Indiana
6. Steals from
7. Fitzwilliam Darcy's habitual air
8. Red member of the fruit family
9. Stock offer
10. 'Matrix' hero – or not
11. Plural word
21. Old fashioned cooker
23. Angeles or Feliz prefix
25. Huntington's or Tourette's symptom
27. Animal house
28. Boast
29. Gymnast Korbut, Olympic "sparrow from Minsk"
30. Name call
31. Popular crossword beast
32. Grail or goblet
34. Flower necklace
37. T's Greek ancestor
40. Plastic hazard see p. 5
41. Replaced the corset
43. Bargaining groups see p. 8
44. Ship's call for help
47. Environmental movement colour
51. Tea carrier for company
53. Flora and fauna
54. Good's rival
55. Eyewitness
56. Anyone over thirty, to some
57. Schmatta
59. Admission test for grads
61. Affirmative

1	2	3		4	5	6	7		8	9	10	11
12				15					16			
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Solutions at www.queensu.ca/news/onq

QUEEN'S SUSTAINABILITY ADVISORY COMMITTEE (QSAC)

is an advisory committee to the Principal's Office, which brings together students, faculty and staff to recommend programs and/or policies related to sustainable practices at Queen's. Co-chaired by Bob Silverman, Provost and Vice-Principal (Academic) and Caroline Davis, Vice-Principal (Operations and Finance) the committee aims to enhance campus sustainability by advising on strategies and policy, and by suggesting achievable goals and targets.

Left to right: Harry McCaughey, Steven Moore, Steve Harrison, Lauren Long, Aaron Ball, Jessica Finlay (guest), Bob Silverman, Megan Raycroft, Llynwen Osborne, Ivana Zelenika-Zovko, Nathan Splinter, Jodi Rempel, Cassandra Cummings.

Present but not in photo: Joshua Pearce and Charles Sumbler

Absent: Ann Browne, Caroline Davis, Bruce Griffiths, Bruce Pardy, Lorinda Peterson, Andrew Pollard, John Smol. 



STUDENT PROJECT

INCREASING QUEEN'S EMPLOYEES' USE OF ACTIVE TRANSPORTATION Student Project addresses sustainability issue on campus

BY LEAH TIMMERMANN, ALEX MILLER, KRISTIN COLLINS AND EMILY LESTER



A group of fourth-year Health Studies students has paired with the Kingston Coalition for Active Transportation and Queen's Sustainability Office to assess current active transportation use by Queen's employees. Active Transportation (AT) is defined as any form of human-powered travel (e.g. walking, cycling, in-line skating, wheeling, etc.) to get from one place to another.

This year, the group carried out a survey of 1,500 Queen's employees equally representing three groups based on the distance they commute to work ("WALK" 0-3km, "BIKE" 3-10km, "DRIVE" 10+km). An almost even split among these three groups was reflected in the 400 respondents to the survey.

The survey helped to determine Queen's current resources for AT, as well as barriers to using AT, benefits received from using it, who uses it, how much time people are willing to spend on it, and what incentives would promote more AT.

Results showed an almost even split between those who always use AT and those who never or rarely use it. Of 4,000 Queen's employees it is estimated that 100 people from the walking zone (0-3km) and 1,180 from the biking zone (3-10km) don't use AT regularly when they could.

The greatest need proved to be demonstrating to Queen's employees that incentives do or could exist for AT around campus. An overwhelming 91 per cent of survey respondents believed there are no current incentives on campus. To raise awareness among employees, the group has created an interactive website where employees can find more results from the survey, learn easy ways to use AT, solutions to overcome possible barriers, discuss tips with other employees, and much more.

Employees are invited to support this initiative. www.queensactionforat.com
Leah Timmermann, Alex Miller, Kristin Collins and Emily Lester are Health Studies students in the Faculty of Arts and Science.

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HIDDEN GEMS from page 2



The Queen's University conservatory and phytotron sit atop the Biosciences Complex. Built in 1997, the conservatory houses more than 150 tropical, subtropical and Mediterranean plant species from a wide range of taxonomic lineages and biogeographic regions, and includes orchids, palms, bananas, bromeliads cacti, and many more. The phytotron includes six climate-controlled greenhouse compartments (zones), 26 environmental growth chambers, a prep room and a lab. Environmental control systems enable users to maintain precise conditions for plant research and other biological applications. The phytotron currently supports 10 principal investigators and seven undergraduate laboratory courses.

This remarkable display of evolutionary diversity is used to great effect in several undergraduate biology courses, and is a main attraction for visitors. It is also an inviting place for faculty, staff and students to relax and enjoy the tropical ambience, particularly over the winter months. On these tours visitors are introduced to the ecology of select conservatory species, the various roles plants play in our society, and some of the plant research conducted here at Queen's. Tours of the conservatory can be arranged by contacting the facility manager. <http://post.queensu.ca/~phyttron>

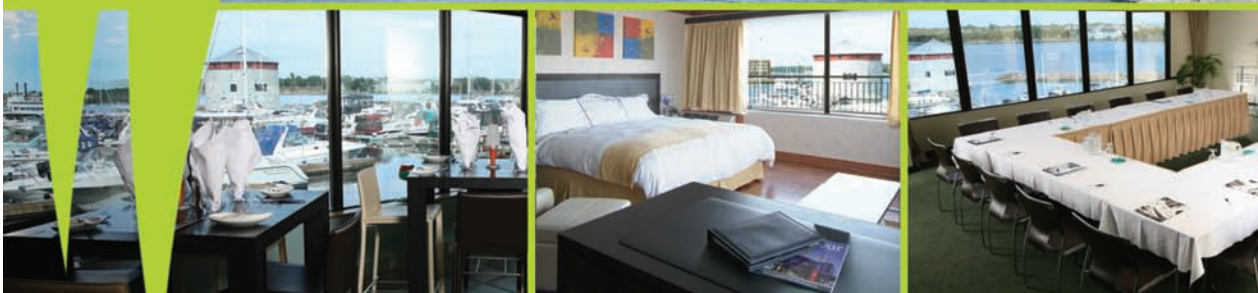
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