



QUEEN'S GAZETTE

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Safeguarding our water P7



Politics and drug prices P8



Two of five Killams go to Queen's

Two of the five Canadian scholars awarded prestigious Killam Prizes for 2004 are from Queen's.

The Canada Council for the Arts has announced that Will Kymlicka (Philosophy) and Vice-Principal (Research) Kerry Rowe (Civil Engineering) are among the five being honoured. The

awards recognize outstanding career achievement in engineering, natural sciences, health sciences, social sciences and humanities and are accompanied by a \$100,000 prize.

"For Queen's to be represented so strongly as part of this elite group of gifted Canadian

scholars is extremely gratifying," says Principal William Leggett. "This is truly an outstanding achievement, both for Dr. Kymlicka and Dr. Rowe and for the university itself, and yet another indication of the degree of excellence and depth of scholarship at Queen's."

The Canada Council will present the Killam Prizes at a dinner and ceremony on Wednesday, June 2 at the Arcadian Court in Toronto.

A world-renowned political philosopher, Dr. Kymlicka holds the Canada Research Chair in Political Philosophy at the univer-

sity. He is a recurrent visiting professor in the Nationalism Studies program at the Central European University in Budapest. His research focuses on issues of citizenship in multiethnic democratic societies, and with the challenges of nationalism and multiculturalism.

See TWO OF FIVE KILLAMS: Page 2

No more lecture theatres

ILC OPENS DOORS ON A NEW WAY OF LEARNING

By KAY LANGMUIR

The passive learning age of the "big, clunky lecture hall" may come to an end once engineering students experience the hands-on projects and real-world variables of studying in the new Integrated Learning Centre (ILC) due to open this month.

"It doesn't have a single, conventional lecture room and it doesn't have a single, conventional lab. It has no professors' offices, it's just learning space," says Jim McCowan, associate dean, (Integrated Learning). "Right now we have big, clunky lecture halls."

After two years under construction, the \$26-million Beamish-Munro Hall at the corner of Union and Division streets is set to open its doors. And every transparent wall, every natural-light filled space, every team-project room and every environmental design of the building is testimony to a changing philosophy of teaching applied sciences that aims to turn out a graduate able to hit the ground running when they enter the real world.

To succeed out there, they need communication skills, teamwork abilities, and a keen sense of engineering's social and environmental context in society - one objective behind the design of the ILC.

See NO MORE LECTURE THEATRES: Page 2

HOME SWEET YURT



STEPHEN WILD

As part of the first-ever reunion of its Outdoor and Experiential Education Program, the Faculty of Education erected a 24-foot diameter yurt April 24 in the Duncan McArthur Hall courtyard. It is a modern adaptation of the ancient shelter used by Central Asian nomads. The reunion celebrated more than 35 years of outdoor and experiential courses the faculty offers - the longest-running at any university in Canada. From left are alumna Vicky (Moon) Joyce (visiting from Nunavut), Dean Rosa Bruno-Jofré, 2004 graduate Simon Hocking, coordinator Zabe MacEachren and Sandra McCance (Education).

Student aid gets funding boost

By ANNE KERSHAW

To gain the greatest benefit from the second phase of the provincial government's Ontario Student Opportunity Trust Fund (OSOTF), Queen's will allocate undesignated donations to the university to an internal fund for matching private donations earmarked for student assistance.

The recent decision by the Principal's Advisory Committee on Budget to establish the internal fund is designed to provide an extra incentive for donors to participate in the OSOTF program.

In keeping with the university's new emphasis on strengthening graduate programs, a condition for use of the internal funds is that they be used to match gifts designated to general graduate awards.

"Ensuring that academically qualified students have access to a Queen's education regardless of their financial means is a core commitment of this university," says Principal Bill Leggett. "This new round of OSOTF is a brief window of opportunity for Queen's to maximize the impact of gifts to the university directed to student aid while at the same time furthering our goal of building on our graduate programs."

To be eligible for the internal match, the donation must be at least \$35,000. Once matched by Queen's and then fully matched by the provincial government, a \$35,000 donation translates to \$140,000. This amount would generate about \$6,000 per year for a graduate student.

See STUDENT AID: Page 2

Taking the lead in teaching and learning

By CELIA RUSSELL

Queen's is showing its commitment to education excellence by establishing three chairs to promote teaching and learning, says Instructional Development Centre Director Joy Mighty.

"There is a lot of exciting teaching already taking place at Queen's," Dr. Mighty told the April 22 meeting of Senate. Adopting the Queen's University Chairs in Teaching and Learning

signals the importance the university places on teaching and learning, she said. Believed to be the first of its kind in Canada, the program will establish a culture of recognizing this excellent teaching.

Senators voted unanimously to approve the program, which includes an annual award of \$20,000 to support the work of each chair holder. The money comes from the university's cen-

tral fund and the value is the same as that awarded to Queen's Research Chair holders.

Dr. Mighty envisions the chair going out into the university community "as an agent beyond the Instructional Development Centre (IDC)."

The chair differs from a typical teaching award, which asks nothing of its recipient.

The goal is to make the expertise, talents or the projects

of the teaching chairs available to the university community at large, IDC Faculty Associate Mark Weisberg said in an interview. "I think it's quite a significant thing that Queen's is setting aside the money to do this."

Chairs will be able to use the money at their discretion to support their teaching activities. This might include purchasing equipment and supplies, books,

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For news updates visit us online @ www.queensu.ca/newscentre



IN BRIEF

Meet the design team

The Queen's and Kingston communities have a second chance to meet the design team recently selected for the Queen's Centre project. The consortium of Bregman+Hamann, Sasaki Associates and Shoalts & Zaback will meet with the public Tuesday, May 4 from 7 to 9 pm in the McLaughlin Room of the John Deutsch University Centre (enter off Union Street). The team will present their experience designing student and athletic centres and answer questions regarding key issues associated with projects of this nature. For more information, call 533-2211 or visit www.queensu.ca/queenscentre

Student aid

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All smaller gifts will be directed to a pooled fund established for general graduate awards and are also eligible for the internal match. Gifts for undergraduate awards will be eligible for government matching only.

The maximum allotment for Queen's internal matching fund will not exceed \$3 million and is conditional on the university's success in raising this amount through ongoing annual fundraising efforts.

The Ontario government announced this second round of the OSOTF program in June of last year. Under this phase of OSOTF, Queen's is eligible for \$34,271,285 of the \$400 million being made available in matching funds to colleges and universities. With the additional match from Queen's, the university has the potential to increase its endowment for student assistance by more than \$60 million.

Eligible for matching are philanthropic giving (i.e. cash, gifts in kind converted to cash, securities, GIC's, bonds, bequests), revenue from fundraising events, student levies, proceeds from raffles, advertising and sponsorship and promotional revenue. Not eligible for matching are government grants and transfers, operating research grants and annuities.

Taking the lead

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travelling to conferences, providing funding for bringing collaborators or speakers to Queen's. Alternatively, it could buy release time from part of their departmental obligations.

Appointments are for three years, and are non-renewable. The program will be reviewed after five years.

For further information on the program and the application process, contact the IDC at 533-6428 or IDCCentre@post.queensu.ca. www.queensu.ca/idc www.queensu.ca/secretariat/senate

Council to explore new directions

Queen's 2004: Reflecting on the Past – Imagining the Future is the theme of the 129th annual meeting of the University Council this Friday, May 7.

The annual awards dinner takes place that evening at Ban Righ Hall. Distinguished Service Awards will be presented to Principal Leggett, Alexander (Sandy) Montgomery, Sheila Murray, Patrick Oosthuizen and Malcolm Peat. Donato Santeramo (Spanish and Italian) will be honoured with the 2004 Alumni Teaching Award.

The meeting, which takes place in 1101 Biosciences Complex, will be Principal Bill Leggett's last as principal. To recognize his contributions, the theme of this year's meeting

focuses on the future of the university in light of its traditions and achievements.

Councilors will have a chance to learn more about the university's directions in designing academic programs and to offer their input on the distinctive learning experiences that universities in general, and Queen's in particular, can provide.

Chancellor Charles Baillie will open the session at 8:45 am with a welcome to council members. After a follow-up on the 2003 annual meeting from Principal Leggett and an introduction from University Council Program Chair Les Monkman, a panel discussion entitled Preparing for the Future: Academic Programs for Citizens and Leaders

in a Global Society. Featured panelists will be Caroline Baillie, DuPont Chair in Engineering Education Research and Development, David Bevan, executive director of the International Study Centre, Vice-Principal (Academic) Suzanne Fortier, David McDonald, director of Development Studies and School of Business Dean David Saunders.

At 3:30 pm, the meeting concludes with the principal's address on The Changing University and a question period.

The Board of Trustees also meets this weekend. Committee meetings take place during the day on Friday, with the business meeting to take place Saturday morning, May 8. www.queensu.ca/secretariat

Two of five Killams

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His awards and scholarships include the 2002 Excellence in Research Prize, Queen's; a Killam Research Fellowship (2002-2004); the 2001 Guiseppe Acerbi Prize (Italy); and numerous SSHRC grants and fellowships.



Rowe

Dr. Rowe is a recognized leader in both theory and practice related to the design of safe waste disposal sites. He has extensive research and consulting experience in the geotechnical and geoenvironmental engineering field. His expertise spans several areas, from tunnelling to soil reinforcement, geosynthetics and waste management and contaminant containment. He has authored more than 360 publica-

tions, including 160 refereed journal papers and three books. The results of his research have had a profound impact on both international research and engineering practice in his field. He has been recognized by many awards including, most recently, the Rankine Lecture (to be presented in London, UK in March 2005), Legget Medal (2003), K.Y. Lo Medal (2003), Giroud Lecture (2002), Keefer Medal (2001) and the Ontario Ministry of the Environment Award of Excellence for Research and Development (1999).



Kymlicka

Inaugurated in 1981, the Killam Prizes are financed through funds donated to the Canada Council by Dorothy J. Killam

before her death, in memory of her husband, Izaak Walton Killam. The prizes were created to honour eminent Canadian scholars and scientists actively engaged in research, whether in industry, government agencies or universities.

The other Killam Prize recipients are James Arthur, a leading mathematician in the fields of representation theory and automorphic forms; Jean-Jacques Nattiez, a pioneer in the branch of musicology known as musical semiology (the analysis of music dealing with musical meaning, sometimes inspired by structural linguistics) and Janet Rossant, a geneticist whose research interests centre on understanding the genetic control of normal and abnormal development in the early mouse embryo using both cellular and genetic manipulation techniques.

No more lecture theatres

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Other objectives, explains Dean of Applied Science Tom Harris, include bringing together students from all the engineering disciplines to learn alongside each other, to strengthen the links between theory and practice, and to increase the effectiveness of learning by making students more responsible for and more actively involved in what they learn.

"The ILC provides us with a unique facility that will allow students and faculty to engage in teaching and learning in an environment that promotes these objectives," he says.

Although theory and lectures still have their place, engineering education is increasingly moving toward greater use of team-oriented, project-based learning.

"It's that kind of space we don't

have now and it's where we want to move," says Dr. McCowan.

The heart of the building, he explained, is its 42 group rooms, which can be booked by students who need a gathering place to brainstorm on projects, and its "plazas", which bring together a large portion of the labs for the different engineering disciplines – mechanical, chemical, design, and civil/structural. By allowing students in the various disciplines to work alongside each other, students are exposed to and learn from applications in other areas, he says.

Other parts of the ILC are somewhat experimental, says Dr. McCowan, such as the teaching studio, the active learning centre, the design studio with adjacent prototyping facilities, and a site investigation facility "where

you can bring sludge in from outside" for testing and examination.

The active learning centre allows faculty to deliver lectures with the added dimension of audience-voting technology more commonly seen on TV game shows, which permits the professor to instantly poll students and make their responses part of the lecture.

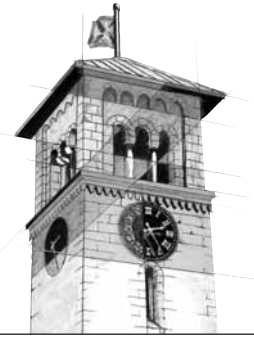
The teaching studio, with its layout of two concentric circles, allows faculty to move effortlessly from teaching theory in the inner circle classroom setup, out to an outer ring of computers and workstations for students to immediately begin applying what they've just learned.

It's a layout designed for "just-in-time" learning, which helps students to better assimilate theory when they're under some pressure to apply it immediately, Dr. McCowan explained.

Dr. Harris says he's grateful both for the generous support from alumni in driving the project forward, and for the dedication of many faculty members who contributed to the centre's development.

The building is so different that it will require faculty to alter some more traditionally delivered course material. Most faculty members are eager to get in the new building, says Dr. McCowan. Although there have been "one or two harsh critics," he is confident that the student response to the new facilities will be so overwhelmingly positive, that all faculty will catch the enthusiasm.

And when another teaching building is planned, Dr. McCowan hopes the designers think twice about building more lecture rooms and take a look at the ILC first. ilc.queensu.ca



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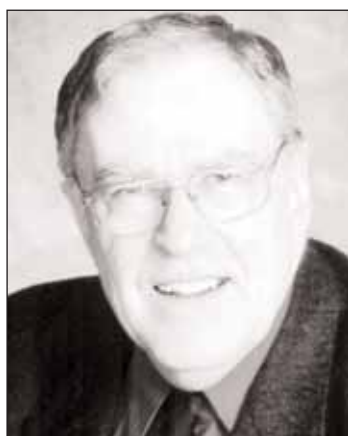
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A champion for human rights SENATE IN BRIEF

THEOLOGICAL COLLEGE RECOGNIZES ELDON HAY WITH HONORARY DOCTORATE



Eldon Hay

Queen's alumnus Eldon Roy Hay, who has spent a lifetime championing the rights of marginalized groups, will be awarded an honorary degree by Queen's Theological College.

The Rev. Dr. Hay will receive an honorary Doctor of Divinity at the college's annual convocation Wednesday, May 5 at 8 pm in Grant Hall. His inspiring leadership and distinguished service extends beyond the church and into the community at large. Throughout his career as an ordained United Church minister, scholar, professor, author and counselor, he has had a major impact on laity, colleagues, students and politicians.

As a member of the clergy, the Rev. Dr. Hay has faced many critics and controversies because of his advocacy for minority groups, especially gays and lesbians. In his quest to foster a more tolerant and just society, he has stood by his theological

beliefs with courage and strength of mind, assuming a significant leadership role by founding and leading the Parents, Families, and Friends of Lesbian, Gay, Bisexual and Transgendered People (PFLAG) chapters in Moncton and in nearby Amherst, N.S., and serving as the first president of the PFLAG Canada. In 1997 he was awarded the New Brunswick Human Rights Award for his tireless efforts in raising awareness of gay acceptance. Never strident, always thoughtful, Eldon Hay is often among the first people many turn to for insight and action when it comes to gay rights issues.

Over the years, he has served as a member and chair of several local Presbytery, Conference and National United Church Committees and Boards, including Chair of the Children's Working Unit of the national Division of Mission in Canada and Chair of the Maritime Conference Archives Committee. He has also served as a congregational minister and as a prison chaplain at the Dorchester Penitentiary in Dorchester, New Brunswick. In 2001, he won the Queen's University Alumni Association Award. In October 2003, he was appointed a Member of the Order of Canada.

The Rev. Dr. Hay was born on a farm in Marvelville, Ontario, near Ottawa, and earned his masters in Philosophy and Bachelor of Divinity from Queen's in 1957. With the help of scholarships from Queen's Theological College, he traveled to Scotland to pursue his love of learning, completing his studies with a PhD in Theology from Glasgow University in 1960. Two years later, he joined the faculty at Mount Allison University in Sackville, N.B., where he taught world religion courses and headed the Department of Religious Studies until his retirement as professor emeritus in 1997.

Notes from the April 22 meeting

Lack of resources a common theme in internal academic reviews: A commitment by faculty and staff to a high-quality learning environment is evident, despite concerns about resource restraints, says Vice-Principal (Academic) Suzanne Fortier. "In spite of that, it's important to keep in mind the excellent quality of these units," she told senators after they approved internal academic review reports for the School of Nursing and departments of Biology, Philosophy and Psychology.

"This is a common problem in all universities in Canada," said Dr. Fortier. Over the past 20 years, there has been a 50-per-cent increase in student enrolment and a 20-per-cent increase in faculty.

Biology Head Peter Boag commented on huge effort it takes to go through the academic review process, and how difficult it is to respond to recommendations. "Our support staff complement is about half of what it should be," he said. "I don't think we can underestimate the magnitude of these problems."

Reports on the internal academic reviews approved by Senate during the 2003-04 academic year will appear in full in an upcoming issue of the *Gazette*.

April 2 Leonard Cafeteria food fight: Incoming EngSoc Senator Kenneth Saddington questioned what alternate measures the university might take to feed students should another incident of this magnitude take place in the future. Students were given the option of eating at West Campus on April 3 and 4 while an extensive cleanup took place. Mr. Saddington was commenting on a written response from Associate Dean (Student Affairs) Roxy Denniston-Stewart to questions from student Senator Christopher Langford. While it was

agreed that other methods, such as mass email could have helped inform students of the situation (a broadcast voice message to dons and house presidents was used), "compensation would not appear to be warranted in this situation."

In reply to Mr. Saddington, Dean of Student Affairs Bob Crawford said, "I think we made the right decision, but I understand what you mean. The better decision [however,] would have been not to engage in a massive food fight."

Senate approved: The David Chadwick Smith Chair in Economics. The chair honours the memory of David Smith, who was principal from 1984 to 1994 and served as Economics department head from 1968 to 1981.

A Bachelor of Arts (Honours) with a major concentration in Health Sciences as a new program in Arts and Science and Physical and Health Education; a Bachelor of Arts (Honours) with a medial concentration in French Linguistics in Arts and Science; a Bachelor of Computing (Honours, Computing Science) and a Bachelor of Computing (Honours, Major-Minor) and Bachelor of Computing (Honours, Major-General). All programs are effective September, 2004, with the exception of the Bachelor of Computing (Honours, Computing Science). Senate approved a friendly amendment for this program to commence immediately, to allow some students affected to graduate in spring, 2004, provided that the Office of the University Registrar can so arrange it.

The establishment of the Centre for Water and the Environment (CWE) as a University Centre. The CWE had received provisional approval for centre status in November, 2002.

Senate dates for 2004-05: Unless specified, meetings begin at 3:30 pm.

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Celebration honours Alfred Bader

Two of the world's most renowned organic chemists will help Queen's benefactor and chemist Alfred Bader celebrate a landmark birthday next week.

Nobel-Laureate Barry Sharpless from Scripps Research Institute and Gilbert Stork of Columbia University will participate in a public symposium (topics tba) on Wednesday, May 12 from 1:30 to 4 pm in room 250 Chernoff Hall, to honour Dr. Bader, who turned 80 in April.

In 2001, Dr. Sharpless received not only the Nobel Prize in Chemistry, but Israel's Wolf Prize, the Ben-

jamin Franklin Medal and the John Scott Medal Award. His research seeks out useful new reactivity and general methods for selectively controlling chemical reactions.

Not many people have had a greater impact on modern organic chemistry than Gilbert Stork. His original and profound intellectual style strongly influence the way organic chemists now think about synthesis.

On Thursday, May 13, Dr. Bader will discuss the founding and history of his firm in a lecture entitled *The Aldrich Chemical Company*

Story. His talk takes place in Ellis Hall Auditorium at 3 pm.

The symposium and lecture are part of several celebrations honoring Dr. Bader, Sc'45, Arts'46, MSc'47, LLD'86, who with his wife Isabel are among the university's most loyal and generous benefactors.

In addition to their 1993 gift of Herstmonceux Castle in England as Queen's International Study Centre, their gifts have helped the Agnes Etherington Art Centre build one the finest publicly held collections in Canada.



celebrating the 80th birthday of

Alfred R. Bader

public lecture by dr. alfred bader (sci' 45)

the aldrich chemical company story

thursday may 13, 2004

3:00-4:00 pm

ellis hall auditorium

The Queen's community is invited to attend this lecture as part of the celebrations to honour Dr. Bader, friend and benefactor of Queen's University, on the occasion of his 80th birthday.

A reception to offer birthday wishes to Dr. Bader will follow in the Atrium of the Agnes Etherington Art Centre.



Mini Medical School

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QUEEN'S FLASHBACK: 1982



QUEEN'S UNIVERSITY ARCHIVES (LISA LOWRY)

Agnes Etherington Art Centre directors past and present gather at the centre at a reception for an exhibition of works by Maurice Cullen. From left are: Ralph Allen, Robert Swain, Frances Smith (seated), Michael Bell and André Biéler. Those with more information about the photo are encouraged to email gazette@post.queensu.ca.

VIEWPOINT

PETER TAYLOR

Mathematics and Statistics



My own exit poll

I spent the last class in both my courses asking students to talk to me about their undergraduate academic experience at Queen's to date. One is a large, first-year math service course with students from many arts and science programs. The other is an upper-year IDIS course with a mix of 60 students from arts, science and engineering. Even with that spread in experience, the same points were made repeatedly. I identify two main themes.

Lectures. These should not be primarily concerned with the transmission of information. Students really seem to hate going into a class to spend 50 minutes copying notes from an overhead or PowerPoint presentation. They called it tedious and tiring. It is particularly galling if the information can be (or ought to be) gleaned, as needed, from accessible books or notes. Amazingly enough, the students were unanimous that *most* of their courses were like this.

Lectures should pose an interesting problem, one that generates creative thought and discussion, they declared. Then, with an interactive framework, the problem can be unwound using the necessary technical skills. They used the phrase "top-down" to describe this approach, pointing out that most of their science courses were "bottom-up."

Much has been written recently at Queen's with the same message. Jonathan Rose (*Teaching Issues, Gazette, March 8*) describes "the interplay of knowledge among text, professor and student. Good teaching is about reasoning, explaining, questioning and constructing arguments. It's a journey."

Grant Bishop (*Dude, where's my education? Queen's Journal, April 1*) points out that it is in the first year that we have "the most dramatic opportunity to rewrite students' educational paradigm." It is a mystery why we have not seized that opportunity more vigorously. It should be a top priority of this institution, particularly *this* institution with its high student quality and distinctive undergraduate tradition. I know that many faculty members will raise cautionary flags. They will argue that lectures often need to be highly "informative," especially in the first two years, in order for the students to "learn all that they have to know." There is much truth in this.

Vic Snieckus (*Viewpoint, Gazette, April 6*) points out the crucial importance of good note taking in the learning process. But given the frustration and disillusionment expressed by my students, I judge that we haven't yet found the right way to promote that.

Interactive classes are problematic in large lecture theatres. If a good problem has been posed, however, lots of good discussion can take place between students in seats. Then, with a roving mike, the prof can move around and collect ideas.

Some lecture theatres are more suitable for student-prof interaction than others. Ellis, Dunning, Kingston and Earl work well. Jeffery, Stirling and Chernoff do not, mainly because of the steepness of the steps. I wait with some trepidation to see where the computer will place my MATH 111 next year.

Exams and marks. There was considerable anxiety around these, much more than I remember from past years. It was generally felt that three-hour exams were not the place for unexpected questions or the assessment of creative thought.

Students wanted to go into an exam with a pretty good idea of the sort of things they would be asked to do. On the other hand, the creative and problem-solving aspects of the course should be served with challenging assignments. Collaboration should be encouraged in the execution of these assignments, and joint submissions allowed.

The students were unanimous that the benefits of such collaboration far outweighed the danger of weaker students being carried by others. In fact, in my large first-year course I had students come to me to talk about how they might responsibly "handle" a situation of that type that had arisen in their group - lots of good learning there.

Much more anxiety and competitiveness in all corners of the world exists nowadays than when I was a student. With what remnants of the "ivory tower" remain to us, we should do what we can to moderate that. Most students do not mind the competition *per se*, and they accept the fact that they are not "at the top of the class." What upsets them is that they are judged on work that is not their best. What they ask is that they be given enough gentle time and space (within reason) to show us what they can do. We should pay more attention to that.

Although these comments came from the majority of my students, there were exceptions. A few seem to learn best from highly structured lectures that tell them "what they have to know." Others find exams an ideal venue for creative thought and problem solving. There are no doubt ways to accommodate such exceptions within a system that would work well for the majority of our students.

Peter Taylor is a professor in the Department of Mathematics and Statistics. taylorp@post.queensu.ca

Letters Policy

The *Queen's Gazette* welcomes letters to the editor from members of the university community and other readers about matters related to content in the *Gazette*, the university or higher education in general. Letters must be original and addressed to the editor. Opinions expressed are those of the writer. The *Gazette* does not publish anonymous letters. Please include your name, affiliation and phone number. Email or disk is preferable. Letters should be submitted by noon to gazette@post.queensu.ca on the Monday before publication. The *Gazette* reserves the right to edit letters to address style, length and legal considerations.

Viewpoint Policy

The *Queen's Gazette* welcomes submissions for Viewpoint from members of the university community. Unless otherwise discussed in advance with the editor, articles should normally range between 600 and 700 words and should address issues related to the university or higher education in general. Speeches related to issues of interest to the university community are also welcome. Email submissions to gazette@post.queensu.ca. The editor reserves the right to edit or reject any submission that does not comply with policy. Opinions expressed are those of the writer.

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Mature women students enrich learning atmosphere

"I was unsure, nervous, and feeling incredibly out of place amongst so many fresh faces. I was in culture shock. Before attending university I felt so "young". Suddenly I didn't feel young any more. I felt really, really old. I had "responsibilities" - a family to support. I left a paying job to do this...and was going into tens of thousands of dollars of debt. OH MY! What had I done?!"

My worst worry was that I did not have what it takes; I was not smart enough for university; I was not smart enough for Queen's. What would I do when I failed? Then, in front of a brown brick house, I walked by a signboard that asked, "Are you a mature woman student? The support I found at the Ban Righ Centre made all the difference."

This is how Laurie Gashinski described her feelings when she arrived at Queen's. Mature women students such as Ms. Gashinski are those whose educations have been interrupted and who decide to pursue a university education later in life (22 years and older). Hundreds of them are currently enrolled in graduate and undergraduate studies. While they bring with them unique academic, social, financial, and personal needs that require accommodation, they also bring a wealth of skills, experiences, and perspectives that contribute to the richness and diversity of the university's academic and social communities. Recognizing these needs and remarkable contributions of this group of "older than average" students is an important step towards promoting equal learning opportunities for all students.

This step is crucial, says Instructional Development Cen-



BAN RIGH CENTRE STAFF

Diversity

tre Director Joy Mighty.

"I want to value students' diversity," says Dr. Mighty. "Every student should have the best opportunity to learn, not just the bright students or the ones who learn the same way the professor teaches."

Many students entering university think their own differences may have a negative impact on their learning experiences and performance. The university traditionally serves the needs of high school graduates with parental support, a demographic set that continues to be the majority. It is important to understand that non-traditional students, such as mature women, need accommodation to break down the barriers that they face. Despite obstacles, these students bring to their classmates extraordinary and diverse life experiences and raise the level and liveliness of discussion as they stretch and challenge themselves, one another and their teachers.

Their impact in the classroom is best described by the professors who teach them.

"I consider mature women students to be a definite asset in the class," says Magda Lewis,

(Education). "Many younger students may not be aware of the history of many of the social issues that we discuss in class. Mature women students bring this history with them...many of them were there, and many of them were active in bringing about the very social changes that many younger students may now take for granted and therefore may not be aware of how hard women fought for them. Mature women students in the classroom bring the benefit of their experiences, and the insights and perspectives that are a product of these experiences."

Christine Overall (Philosophy) agrees.

"Mature students bring an openness, flexibility, and compassion to the consideration of difficult issues in ethics and social philosophy. Often, their own personal struggles help them to see and understand the real range of perspectives on difficult issues. At the same time, they often evince a sensitivity to the complexity of peoples' lives and the demands that people in a variety of life roles have to handle."

With support, non-traditional students excel in their programs, graduate, attend graduate school and become leaders in their communities. Their abilities and contributions to the university along the way are immeasurable.

P.S. Laurie Gashinski is entering her fourth year on the Dean's list.

Located at 32 Queen's Cres., the Ban Righ Centre supports the continuing formal and informal education of women, especially mature women returning to university.

Changing users' attitudes toward their computers

I do not love computers. But I do see the implicit value computers add to our daily lives and society in general.

For the past two years, I have been fortunate to be employed as a first-level support advisor by the ITS Support Centre. I have personally fought the evils of viruses, fickle Internet connectivity, printers that don't print and faulty floppy disks. While the remuneration is more than fair and the technical experience enlightening, I am startled by the attitudes that some people have towards computers.

A typical conversation with a client might begin with some variation of the dreaded "I hate computers" phrase that any technician loathes to hear, but usually responds to with a sympathetic, although fake, smile. Another common declaration I've heard is something along the lines of "I'm bad with computers" or "computers don't like me." Computers are inanimate objects that do not possess human emotions, so they aren't able to like or dislike anybody. As for being bad with computers, I don't buy that excuse either. Computers were made for humans, by humans. It's not like they're a house-warming present from aliens!

All of us, regardless of prior technical sophistication, possess the same basic abilities to delete



PLUGGED IN

Farron Hon-Yin Blanc

old messages from our e-mail, scan our computers for viruses and look up error messages on the web for potential solutions. When compared to other technological inventions, computers are easier and cheaper to self-diagnose. Which is easier, rotating the tires on your car or downloading the latest Packman update? Yet computers are often given the notorious reputation of being awkward and complicated, never working when you really need them. If this were actually true, it would be a surprise that we rely on the technology as much as we do. Computers may initially appear to be complicated and intimidating, but isn't that the case for every new experience?

The consequences of our continued ignorance are grave. Last summer, I worked as an operations engineer. My job was to

analyze physical data from Toronto, stored virtually in New Brunswick, and compile electronic reports that went to Montreal. Around this time the MS.Blaster worm had just hit the net, and started propagating through servers and switches around the world. So what, you ask. Viruses float around all the time. I believed, as maybe you do now, that they were at most a minor annoyance. It was not until my thousand colleagues and I were rendered useless for two days because our computers didn't work that I understood the gravity of the situation. Sure, there are exogenous factors like disgruntled 15-year-old computer whizzes and slumbering companies, but the largest reason why viruses are more prevalent today is because people are too inattentive to scan their computers, get the latest Windows update or refrain from opening questionable e-mail attachments.

I'm not asking that everyone spend an inordinate amount of time on problems that are beyond their technical scope. But if someone fixes your computer for you, genuinely say thank you, and try to understand what is wrong and how you can avoid it in the future.

Farron Hon-Yin Blanc is a member of the class of Sc'05.

UNIVERSITY ROUNDUP



Opinions and ownership

The University of New Hampshire has disciplined a professor for "scholarly misconduct" after he plagiarized the governor of Delaware in a column published last year in a newspaper. An associate professor of health management and fervent anti-smoking advocate, Marc Hiller argued in favour of a ban on smoking in public places. It was published June 1 in *The Union Leader*, a Manchester, N.H., newspaper. A reader alerted the newspaper's editors to similarities between Prof. Hiller's column and a letter written by Ruth Ann Minner, Democratic governor of Delaware, during a legislative debate on smoke-free restaurants. "Letters, editorials and opinion pieces are not claimed to be original works," Prof. Hiller said. "I'm sure that probably a vast majority of letters advocating on issues A, B or C come from a variety of sources and are not something claimed to be original work." The university later issued a more contrite statement. In it, Prof. Hiller said he had prepared the column hastily and had "failed to subject it to my normal standard of scrutiny."

The Chronicle of Higher Education, April 2

New courses in the cards

Academe's latest safe bet: Students will sign up for courses on gambling. But they'll be learning how to profit as casino managers, not high rollers. The growing popularity of state-sponsored gambling, especially lotteries, has thawed colleges' once-frigid attitudes toward professional training in the field, says John M. Tarras, an associate professor at Michigan State University's School of Hospitality Business, who has taught courses about casino gambling since 1991. Creating gambling courses and majors in traditional academic departments is the next logical step, he says, as the expanding casino industry offers increased career opportunities in communications, finance, management and other fields.

The Chronicle of Higher Education, April 2

Safety at night a campus concern

Three quarters of female students at British universities do not always feel safe walking around their campuses at night, the Sodemho-*Times Higher Education* university lifestyle survey has found. While students generally feel secure during the day, fewer than four in ten feel safe all of the time at night. The picture is particularly worrying for female students: only one quarter of women feel safe all the time on university property at night. The survey, involved more than 2,000 students at 30 universities. While universities across the country strive to teach students how to protect themselves, crime remains a major problem for the academic sector. Mugging, sexual assault, burglary and drink spiking are particular concerns, institutions report. Recently, a woman was raped on campus at Warwick University, overseas students at Hertfordshire University faced racist attacks and students at Ulster University were threatened with assault by a paramilitary organization.

The Times Higher Education Supplement, April 16

A new way of exploring boundaries

A half-mile-long line of 20,000 yellow daffodils forms *Imagine/Align*, a site-specific, community-based art installation blooming this spring at the University of Michigan Nichols Arboretum. Conceived by artist Susan Skarsgard, the line of daffodils traverses the environment, mapping thought and inspiring contemplation on the idea of lines, borders and imposed definition. Last fall, more than 150 people planted the bulbs to create the work of art.

www.umich.edu/news, April 21

Lawsuits settled with land sale

The Roman Catholic Archdiocese of Boston has agreed to sell 43 acres of land to Boston College for \$99.4 million to cover the costs of settling lawsuits involving priests who sexually abused children. The acquisition includes acreage on the archdiocese's Brighton campus and the former archbishop's home, the archdiocese said in a statement. In September, the archdiocese settled lawsuits with more than 550 victims by agreeing to pay \$85 million. It took out about \$90 million in loans. The Catholic Church has adopted new rules meant to prevent and treat sexual abuse by clergy. The acquisition is a "milestone event" for the school, said Boston College President William Leahy. "Purchasing this land is a major expenditure. But it helps meet our longstanding need for additional space for playing fields and other campus facilities."

www.universitybusiness.com, April 20

IN BRIEF

Excellence
in economics

Huw Lloyd-Ellis is the 2003 winner of the Economics Department Research Prize. Established in 2001, the prize recognizes the research achievements of Economics faculty.

Shouyong Shi won in 2001 and Ruqu Wang won in 2002. Dr. Lloyd-Ellis' research focuses on the implications of market-driven technological and organizational change for growth, inequality and cyclical fluctuations, and on the design of federal government debt management strategies in the face of macroeconomic risk.

Art receives
major grant

The Department of Art has received a \$340,000 equipment grant for art conservation from the Getty Foundation in Los Angeles.

"The application was truly a team effort," says department head John Osborne, in acknowledging the commitment of Faculty of Arts and Science Dean Bob Silverman and a number of people within the department whose efforts helped to secure the grant. "This is a great day for the Art Conservation program," says Dr. Osborne.

Discoveries
get funding

Two researchers have received \$100,000 each to further develop innovative discoveries in the fields of cholesterol-related heart disease and lower back injury.

The funding, from the Canadian Institutes of Health Research Proof of Principal (PoP) program, provides early-stage funding to advance promising inventions and discoveries further along the commercial pipeline.

Robert Kisilevsky (Pathology) will continue his research in cholesterol metabolism and new compounds for the treatment of atherosclerosis. Dr. Kisilevsky's earlier work in this field contributed to the founding by Queen's technology transfer arm, PARTEQ Innovations, of Neurochem Inc., a company that develops treatments for amyloid-based disorders including Alzheimer's disease.

Joan Stevenson (Physical and Health Education) and Ergonomics Research Group colleagues Tim Bryant (Mechanical Engineering) and Linda McLean (Rehabilitation Therapy) will work with PhD candidate Mohammad Abdoli to design, manufacture and test an external, wearable device that will enable workers with lower back injury to safely return to work sooner.

These Discovery@Queen's pages highlighting Queen's research news and developments are electronically distributed to our major research funding agencies and others upon request.

**NEWS
and
MEDIA
SERVICES**

To inform us of your latest research findings or upcoming journal publications, call News and Media Services Writer Nancy Dorrance, 533-2869, or Communications Officer Lorinda Peterson, 533-3234.

Basic science at work



STEPHEN WILD

Pharmacology and Toxicology Professor James Reynolds, study leader, and PhD student Umar Iqbal preparing the Morris water maze, used in testing spatial learning and memory in experimental animals.

VITAMIN THERAPY
FOR MOMS MAY
REDUCE BRAIN INJURY
IN FETAL ALCOHOL
SYNDROME BABIES

By NANCY DORRANCE
News and Media Services

Queen's researchers are studying for the first time whether vitamin therapy administered to drinking mothers during pregnancy will reduce the incidence of learning and behavioural problems in their babies.

Led by Pharmacology and Toxicology professors James Reynolds and James Brien, the Queen's study is part of a large, multi-institutional New Emerging Team initiative on fetal alcohol syndrome (FAS), funded by the Canadian Institutes of Health Research and coordinated by Dr. Brien.

"Fetal alcohol syndrome is a devastating health problem in Canada, North America and worldwide, with huge personal, social and financial costs," says Dr. Reynolds. "If our team can come up with an approach to help reduce that burden and res-

cue brain function in even a fraction of the people affected, it will be one of the most fulfilling things we could possibly do."

The team is providing the "basic science" component of this particular study, using the guinea pig as an animal model of FAS. A parallel, clinical study is being conducted on human subjects at Toronto's Hospital for Sick Children.

"We're looking specifically at brain injury in the developing fetus because the brain is the most sensitive target for damage caused by prenatal alcohol exposure," says Dr. Reynolds. While some of the physical effects associated with FAS resolve themselves as a child grows, the brain injury appears to be permanent, he notes. "The overall hypothesis for this research program is that alcohol causes oxidative stress in the developing fetus, and that this is a key mechanism in the brain injury which can occur."

Recent surveys indicate that the incidence of FAS is 1-2 per 1,000 births. It is estimated, however, that the incidence of brain injury resulting from maternal consumption of alcohol, without all the features of FAS, is almost 10 per 1,000 live births.

This means that about 1 per cent of children born today have some behavioural or cognitive deficit that can be traced to fetal exposure to alcohol alone, or in combination with other drugs.

The Queen's study is exploring what happens at the neurochemical level to the developing fetal brain exposed to alcohol, and then correlating these biological "markers" with subsequent behaviour of the offspring. "We've found in our animal model that late in gestation there is a significant increase in 'cell suicide' in brain regions injured by alcohol," says Dr. Reynolds. "That type of injury is consistent with the learning and behavioural deficits we see after birth."

Having these clear markers will enable the team to test whether administering high doses of Vitamins C and E to mothers during pregnancy will protect the fetal brain against neurochemical injuries caused by alcohol exposure, rescue brain cells from committing suicide, and rescue behavioural function in the newborn animals. High doses of these particular vitamins have been administered to pregnant women in other studies, and are believed to be safe for both mother and fetus.

The guinea pig was chosen as the animal model for FAS because its pattern of prenatal brain development is much closer to the human than that of any other small animal species.

The two main areas of behavioural and learning ability being tested are hyperactivity and memory.

"At a very early age, and into adulthood, both animals and humans with FAS show hyperactivity," notes Dr. Reynolds. "We can quantify this in animals by putting them in an apparatus that measures the amount and type of movement they exhibit." Memory in the animal subjects is tested with a Morris water maze, which requires them to learn and retain details of their environment through visual cues.

The Queen's researchers anticipate that their findings will provide validation at the basic science level for the use of vitamin intervention in reducing the effects of fetal alcohol exposure, and add momentum to the Toronto team's clinical study.

Also on the Queen's team are psychology professors Hans Dringenberg and Cella Olmstead, several graduate and honours undergraduate students, and research associates.

New opportunities for four promising researchers

Four promising young researchers from engineering, science, and health science have been awarded a total of \$460,000 from the Canada Foundation for Innovation (CFI) New Opportunities Fund.

Almost \$30 million in funding to 33 universities across the country was announced recently by CFI interim president Carmen Charette in Fredericton, New Brunswick.

"The Canada Foundation for Innovation has recognized the potential of these outstanding researchers to advance the leading edge of science and technology and to improve the lives of Canadians," says Vice-Principal (Research) Kerry Rowe. "We look forward to their success in these

endeavours and to their continued contributions." They are:

Brian Frank (Electrical and Computer Engineering), who is working to develop advanced circuitry for use in wireless communication systems. This research will contribute to the development of smaller and less expensive wireless components. (CFI contribution: \$100,000).

Robert Knobel (Physics) is developing an innovative research program to measure the properties of quantum mechanical systems. The resulting data will shed new light on nanoscale science and help to advance developments in nanotechnology. (CFI contribution: \$240,000)

Linda McLean (Rehabilitation Therapy) specializes in the assessment of neuromuscular control. Her current research program is focused on assisting people who suffer from repetitive strain injuries or urinary incontinence. (CFI contribution: \$40,000)

Janet Menard (Psychology) studies how fear is reflected in the brain. The insights achieved through this research may facilitate the development of improved drug therapies for people suffering from anxiety disorders. (CFI contribution: \$80,000)

These awards are made through the CFI's New Opportunities Fund, which enables eligible universities to provide

research infrastructure for newly recruited faculty members in their first full-time academic appointments at a Canadian university.

The foundation is an independent corporation created in 1997 by the Government of Canada to fund research infrastructure. The CFI's mandate is to strengthen the ability of Canadian universities, colleges, research hospitals, and other non-profit institutions to carry out world-class research and technology development that will benefit Canadians.

For more information about New Opportunities funding, see: www.innovation.ca/whatsnew/index.cfm

Safe drinking water: How can we ensure it?

NEW CENTRE EMBARKS ON \$8-MILLION STUDY

By NANCY DORRANCE
News and Media Services
Research teams from four Canadian universities, coordinated through Queen's newly established Centre for Water and the Environment (CWE), are developing less toxic and more effective ways to safeguard community water supplies "from source to tap".

Led by CWE director Kevin Hall (Civil Engineering), the provincially funded, \$8-million project encompasses many of the recommendations of the 2002 Walkerton Report.

The new approach aims to eliminate reliance on conventional ways of treating impure water, which can often lead to the formation of toxic chemicals. It will also reduce the possibility of human error and the time required to determine if water is dangerous to people's health.

The Ontario Ministry of the Environment recently released a white paper on watershed-based source protection planning, and is now holding public hearings to discuss its recommendations.

"This project is being done by Queen's to provide scientific data that will support the development of policy options for the province," says CWE business director Moe Hussain (Civil Engineering).

In partnership with conservation authorities, municipalities and the private sector, the team will develop tools that are accessible and easily used by municipalities as well as by researchers. "We're identifying areas where research is lacking, then pulling together people from different backgrounds to tackle these large-scale problems," says Dr. Hall, director of the new centre.



Centre for Water and the Environment researchers Kent Novakowski, Kevin Hall and Ana da Silva, all of Civil Engineering, conduct water quality testing in the first phase of new \$8-million study to safeguard communities' water supplies.

"Without the Centre for Water and the Environment, this wouldn't have been possible."

An initiative that began in 2001 and has just received official university status, the centre provides research, education and training in areas of public health and safety related to water, and a scientific framework for policy development in all areas affecting water and its use.

In the first phase of the five-year project, Civil Engineering

researchers Dr. Hall, Ana da Silva, and Kent Novakowski, Stephen Brown (Chemistry, Environmental Studies) and Lewis Tomalty (Microbiology & Immunology) will focus on source water protection, working at the Tay River Watershed near Perth, Ontario.

Building on the success of an earlier \$2.5-million study, in which they created an automated bacterial detection system specifically for E.coli, the team will

develop models and techniques to improve detection and assessment of water quality problems at the source. The tools will be useful to regulators when making decisions on issues such as water taking, transport of contaminants through a watershed, and tracing the source of pollution.

"The tool set we are developing will apply to any watershed in any location in the world," says Dr. Hall. While many differ-

ent models currently exist, none looks at total watershed protection: ground and surface water, water intake, impact on health, and other aspects of the problem.

Also working on the project are researchers from the universities of Toronto and Waterloo, who will develop innovative new treatment processes, and from the University of Ottawa, where the focus will be on the growth of biofilms in the water distribution system.

Pesticide use linked to serious illness, disease, report finds

FAMILY PHYSICIANS' REPORT RECOMMENDS REDUCING PESTICIDE USE

By NANCY DORRANCE
News and Media Services
People should reduce their exposure to pesticides, a team of researchers from the Ontario College of Family Physicians, including Cathy Vakil (Queen's Family Medicine), strongly recommends.

Their report shows consistent links between pesticide exposure and serious illnesses such as cancer - with children being particularly vulnerable.

The team reviewed studies on

the effects of pesticides on human health since 1992. Among the major health effects identified by the researchers are: nine types of solid tumours, non-Hodgkin's lymphoma, leukemia, genotoxic effects, skin diseases, neurological diseases, and reproductive effects.

"We hope the report will contribute to a better understanding of this controversial topic, inform those who produce professional and patient educational materials, and aid various levels of government to direct policy on this important health issue," says Dr. Vakil, who teaches family medicine to residents and medical students.



CHARLOTTE TOWN.CITYFILTER.ORG

The recipient of a Great Lakes Educational Scholarship grant, she frequently speaks to the public and to health professionals about the health effects of environmental pollutants.

"With respect to cancer, this review provides compelling evidence of a link between cancer and pesticide use, both occupationally and with home use," Dr. Vakil notes. "The cancers that showed the strongest relationship with pesticide exposure include brain, prostate and pancreatic cancers, and non-Hodgkin's lymphoma and leukemia."

Overall, the report recommends that people reduce occupational exposures to pesticides,

as well as lowering the level of exposures from pesticide use in homes, gardens and public green space. The college also advocates techniques such as:

- Researching and implementing alternative organic methods of lawn and garden care and indoor pest control
- Proper use of personal protection equipment, including respirators for home and occupational exposures
- Education on safe handling, mixing, storage and application when pesticide use is considered necessary

To view the report, visit www.ocfp.on.ca/English/OCFP/Communications/CurrentIssues/

Two students win prestigious U.S. exchange opportunities

By KAY LANGMUIR

A new scholarship program, part of the foundation that administers the prestigious Fulbright scholarships, has enabled two Queen's undergraduates to study in the United States next year.

Akens Van Horne of Newmarket, Ont., and Kyle Jordan of Ottawa, are Queen's' first recipients of Killam Fellowships, awards worth \$5,000 US per semester for up to a full year of study in the U.S.

"I'm really excited about going to Harvard," says Mr. Van Horne, a student of economics and psychology who will spend one semester at the Ivy League institution next year.

"I have always sought to place myself in environments saturated with bright and passionate

minds. That's why I chose Queen's and that is why I look forward to a semester at Harvard."

Mr. Jordan is off to Ithaca College in New York to study economics for a year.

"But Queen's is such a great school, it seems a shame to leave," he jokingly laments. "I'm getting a world class education at a quarter of the cost. The tuition at Ithaca is \$26,000."

The Killam Fellowship program is the first of its kind at the undergraduate level between the two countries. It is open to students at participating institutions - 11 universities in Canada, including Queen's, and 10 universities or colleges in the U.S.

Most students haven't yet heard of the Killam Fellowships,

created last year by the Foundation for Educational Exchange Between Canada and the United States.

"It just came down to asking questions," says Mr. Van Horne, who had spied a small mention of the Killam Fellowships on a poster during a general information session on exchange programs.

About 200 students left Queen's this year to study temporarily at another institution, says Maryann Severin of Admissions Services, coordinator of university exchanges and international studies.

"We have 200 coming and 200 going," she says.

Although most of them are on exchange programs such as the Killam, students can also

study at an institution of their choosing as long as they make their own arrangements and ensure that the host institution's credits are accepted by Queen's, she says. The university currently has exchange agreements with 83 host institutions in 28 countries, with courses taught in 10 different languages.

The International Centre also assists students who are considering studying elsewhere, with its volunteer group of "country representatives" - students who come from a certain country or studied there, and who can advise others considering a study term in that location.

Queen's is also a member of the Commonwealth Universities Study Abroad Consortium, which helps

its members negotiate student-exchange agreements. It also uses scholarships to promote student mobility between developed and developing countries. This summer, Associate Vice-Principal (Academic) John Dixon will host a conference of the consortium at Queen's.

The Killam Fellowships, a five-year pilot program begun last year, is the result of a partnership between Foundation for Educational Exchange between Canada and the United States, which administers the Fulbright program and the American Killam Trusts.

The pilot program may result in further expansion of the program to include more host universities.

The foundation expects to award 20 fellowships for the 2004-2005 academic year.

Prescription drug-pricing a sensitive, political issue

The sale of prescription drugs across international borders has been an ongoing issue in recent years. To help us better understand the economics that fuel the debate about Americans buying cheap Canadian drugs and hinder initiatives designed to provide cheap drugs to those who need them in other countries, the Queen's Gazette posed these questions to Roger Ware (Economics), co-author of *Industrial Organization: A Strategic Approach*, a textbook analyzing the principles of competition that apply to many industries, including those that produce pharmaceutical drugs.

G: What factors determine prices for prescription drugs?

RW: In a market-based economy such as Canada's, prescription drug prices are determined the

same way as the prices of other products, namely based on the costs of producing them and the degree of competition in the marketplace. There are, however, some important qualifications to that general observation. Pharmaceutical drugs are extremely R&D-intensive products. Consequently, the total costs of producing a new drug are largely the costs of research and testing to gain regulatory approval. Production costs once the drug has been brought to market are very low, a tiny fraction of the total costs of the product. The usual economist's prescription, that competitive prices should equal the marginal cost of production, clearly wouldn't work in this industry, because such prices would give the drug companies



ROGER WARE

Q&A

zero return on their costly R&D activities. Prices for Canadian prescription drugs are also affected by two kinds of regulation. First, patents that create intellectual property are a deliberate attempt by governments to influence pricing. Patents give an

innovator some degree of market power over the sale of their innovation, and hence allow the innovator to gain a return on their R&D effort. Although, as a sovereign nation, Canada makes its own patent laws, these laws have been harmonized by international agreements, so that, for example, the life of a patent in Canada is 20 years, the same as it is in most developed countries including the U.S. Second, in Canada we have a regulatory agency, the Patent Medicine Prices Review Board (PMPRB), whose mandate is to regulate, albeit in a loose fashion, the prices charged for patented drugs. The PMPRB applies three criteria to the control of drug prices: Existing patented drug prices cannot increase by more than the Consumer Price Index (CPI); most new patented drug prices are limited so that the cost of the therapy is in the range of the cost of therapy for existing drugs used to treat the same disease; breakthrough drug prices are limited to the median of the prices for the same drugs charged in other specified industrial countries.

G: Why are prescription drugs so much more expensive in the U.S. than in Canada?

RW: Part of it has to do with the activities of the PMPRB. In addition, the U.S. health-care industry is organized differently from ours. Drug prices are caught up in a network of forces; the private insurance companies, the HMOs and hospitals are all important drug purchasers. And U.S. companies, such as Pfizer and Merck, engage in political lobbying against any initiatives to regulate or reduce drug prices.

G: What are some of the factors that make international trade in prescription drugs so problematic?

RW: A common mistake made by policy and lawmakers in the U.S. and Canada is thinking that prices of drugs in the two countries are set independently. They are not. Ultimately, drug companies will require a certain return on their investment in R&D, and any downward pricing pressure in Canada will either lead to a reluctance to supply the Canadian market or to even higher prices south of the border. Moreover, if low-priced Canadian drugs are shipped south of the border (a process that economists call arbitrage, and which several U.S. lawmakers seem to have recently encouraged) in volumes large enough to be more than a minor irritation, the U.S. drug companies will find ways to pre-

vent the subsequent erosion of their profits. One of these, which has already been debated, would be to restrict the flow of drugs to Canada in the hope of preventing their re-export to the U.S. Another is to push for an increase in the price of drugs sold in Canada. Although both these possibilities have been met with some outrage, they are not a lot different, for example, from the Canadian government attempting to restrict the export of cigarettes that are subsequently smuggled back into the country and sold tax-free.

G: What policies enable Internet pharmacies to facilitate cross-border prescription drug sales?

RW: Although importing drugs from Canada and other countries remains technically illegal, the U.S. Food and Drug Administration has generally ignored the growing practice, and some states are amending their laws in order to facilitate it. The pricing of prescription drugs is a sensitive political issue, particularly in an election year. However, all of the legal and political maneuvering south of the border regarding Canadian drug imports has to be considered a short-term or band-aid intervention. The real issue that Americans need to address is whether and how they want to regulate the prices charged by the drug companies within the U.S.

G: Do generic drugs play an important role in the market place?

RW: Once a patent on a drug expires, generic drug manufacturers are allowed to produce and market it. While the resulting competition drives prices down, the generic drug manufacturers are highly profitable companies. Interestingly, the original patent holder will often market or license their own generic brand, called a "pseudo-generic," which helps to retain a sizeable market share and profit for the brand name pharmaceutical company, partly by allowing them to continue to sell the original branded product at a high price. In the 1980s, Canada had a much more generous policy towards licensing patented pharmaceutical products to generic manufacturers, which caused friction with U.S. drug companies, and brought political charges that Canada was "free-riding" on the research activities of the U.S. (and worldwide) industry. It was this political pressure that led to Canada harmonizing its patent protection for drugs with that of other major developed countries.

The scholarship of teaching

In 1990, Ernest Boyer wrote that it was time "to break out of the tired old teaching vs. research debate and define, in more creative ways, what it means to be a scholar."

To a large extent, this call has been heeded. Many in higher education have come to view teaching and research as complementary forms of scholarship. Widespread efforts exist to promote a scholarship of teaching that fosters significant learning for all students, enhances the practice and profession of teaching, and brings to faculty members' work as teachers the recognition and reward that is afforded to their research. Queen's can boast two recent initiatives to promote scholarship: the Chancellor A. Charles Baillie Teaching Award and the Queen's University Chairs in Teaching and Learning.

To determine whether teaching is effective, we look at a teacher's performance and consider how successful that performance is in terms of promoting student learning. Good teaching involves all the actions faculty take to support the educational missions of their department and the university, helping students achieve valued learning goals in their chosen program of study. The scholarship of teaching also incorporates attention to effective teaching performance, but looks beyond the immediate teaching situation to engage faculty in the systematic study of teaching and/or learning. Teaching scholars develop knowledge about teaching and learning that is significant and useful for others as well as themselves. Their scholarship is informed by the scholarly literature of teaching and learning and includes critical reflection on the relation between

SUSAN WILCOX

Teaching Issues

the literature and their own teaching experiences. The knowledge gained through inquiry is made public so that other teachers can build upon it. Scholarship may be shared and reviewed through grant proposals, presentations or workshops, publications, teaching dossiers, or peer mentoring and review.

Teaching scholarship is a valuable contribution to the improvement of university teaching, yet not every teacher will, or need, become a teaching scholar. It is possible to develop as a teacher and yet choose not to undertake scholarship.

Cynthia Weston and Lynn McAlpine (McGill University) have proposed a continuum of growth toward the scholarship of teaching. Phase One teachers are concerned with developing personal knowledge about their teaching and their students' learning. Phase Two teachers engage in dialogue with colleagues about teaching and learning, developing and exchanging knowledge about teaching and learning in their discipline. Phase Three teachers are concerned with developing scholarly knowledge about teaching and learning. Where do you situate yourself on this continuum?

Phase One teachers reflect on their teaching; engage in institutional teaching development activities; engage in innovation in teaching; intentionally evaluate their own teaching to make improvements; read about teaching and learning; develop an understanding of principles underlying teaching and learning

decisions and demonstrate the validity of knowledge of teaching they hold, through assessment by others, including students, peers, and administrators.

Phase Two teachers engage disciplinary colleagues in informed, reflective conversations about teaching and learning; mentor other teachers in the discipline; provide leadership in teaching at the disciplinary level (e.g., organize department/faculty events) and/or at the university level (e.g., contribute to work of the IDC); engage in disciplinary and multidisciplinary teaching associations; demonstrate an understanding of the complexity of teaching and learning.

Phase Three teachers draw on literature and research on teaching to inform their institution and the field; publish and make presentations about teaching (may or may not be based on research); obtain funding for research on teaching; carry out research on teaching using an appropriate approach to inquiry; mentor others in doing research on teaching; demonstrate a comprehensive knowledge of the research and literature on teaching and an understanding of the complexity of teaching and learning.

For more information, including how to propose a scholarly teaching project, contact the Instructional Development Centre, ext. 36428, icentre@post.queensu.ca. To join a new network of teachers wishing to develop the scholarship of teaching at Queen's, contact me at ext. 75157 or email wilcox@post.queensu.ca.

Susan Wilcox is Senior Associate in the Instructional Development Centre.



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Experts in pesticides, obesity and water in the news

QUEEN'S IN THE NEWS

Highlights of Queen's experts in the media

■ April 14-April 27

The research of **Cathy Vakil** (Family Medicine), co-author of a recent study linking exposure to pesticides with serious illnesses, is covered by the *Globe and Mail*, *The Toronto Star*, *The London Free Press*, *The Edmonton Journal*, *The Daily News* (Halifax), *The Daily News* (Kamloops), *The Standard* (St. Catharines - Niagara) and *The Toronto Sun*.



Sweetman

Arthur Sweetman (Policy Studies) discusses economic issues of immigration in Canada in *The Globe and Mail*.

David Walker (Health Sciences) comments extensively about the final report from the expert committee on SARS including in *The Globe and Mail*, *The Toronto Star*, *The London Free Press*, *The Edmonton Journal*, *The Spectator*, *The Toronto Sun*, and *The Standard* (St. Catharines - Niagara).

Defence analyst **Doug Bland** (Policy Studies) discusses Canadian defence spending in *The Globe and Mail*, the *National Post*, *The Ottawa Citizen*, the *Edmonton Journal*, *The Leader-Post* (Regina) and the *Times Colonist* (Victoria) and on *CHQR* radio.

Ruth Wilson (Family Medicine) comments in a *Globe and Mail* story about hormone replacement therapy.



Miller

James Miller (Religious Studies) comments in a *Toronto Star* story about the founding of the Canadian Forum on Religion and Ecology (CFORE).

Douglas Reid (Business) comments extensively about the latest developments in Air Canada's re-structuring in *The Ottawa Citizen*, *The Calgary Herald*, *The Edmonton Journal*, *The Guardian* (Charlottetown), *The Calgary Sun*, *The Vancouver Province*, *The London Free Press*, *The Gazette* (Montreal) and *Vancouver Sun*.

Will Boyce's (SPEG) recent study into adolescent sexual health continues to receive coverage, most recently in the *Ottawa Citizen*, *The Gazette* (Montreal), *The StarPhoenix* (Saskatoon) and *The Kingston Whig-Standard*.

Recent research by **Peter Katzmarzyk** (Physical Health & Education) linking obesity and lack of exercise continues to receive coverage, most recently in the *Toronto Sun*, *The Edmonton Sun*, *The Calgary Sun*, *The Ottawa Sun* and the *Brockville Recorder and Times*.



Pliniusen

John Pliniusen (Business) comments extensively in a front-page *Kingston Whig-Standard* story about the TV show 'The Apprentice'.

Alan King's (Education) Phase 3 report of the Double Cohort Study is highlighted in the *Ottawa Sun* and *Toronto Sun*.

Queen's two-seater solar vehicle, the first of its kind in the world, is highlighted in the *Ottawa Sun*.

John Phelan (Business), mental skills coach for the Ottawa Senators, is quoted in the *Ottawa Sun* about his work preparing the team for playoff games.

Ken Wong (Business) comments in a *Kingston Whig-Standard* story about community conflict sparked by the marketing strategy of a local company which includes constructing a more than 10-metre-beaver in Odessa as a mascot.

Research findings by **Mark Sabagh** (Psychology) that could have implications for the treatment of disorders such as autism are highlighted in *The Kingston Whig-Standard*.

The establishment of another Fulbright chair at Queen's is reported in *The Kingston Whig-Standard*.

CIHR funding for researchers **Joan Stevenson** (Physical and Health Education) and **Robert Kisilevsky** (Pathology) is reported in *The Kingston Whig-Standard*.

Kerry Rowe (VP Research) is interviewed by *The Kingston Whig-Standard* and *CKWS TV* about his invitation by the British Geotechnical Association to deliver the Rankine Lecture, one of civil engineering's highest international honours.

Kevin Hall and **Moe Hussain** (Civil Engineering) are interviewed on *CBC Radio* regional news, *CBC Ontario Morning* and *CKWS TV* about new Queen's-led research to develop more effective ways to safeguard community water supplies.

Middle East expert **Wayne Cox** (Political Studies) participates in *CBC Radio's Ontario Today* phone-in asking listeners what should be the next move for the U.S. in Iraq.

IN BRIEF

Pitching in earns win

Efforts to keep the student residential area surrounding campus clean all year have garnered some Queen's groups a municipal award. The Chamber of Commerce awarded Students Taking Responsible Initiatives for a Viable Environment (STRIVE), the Alma Mater Society and Town-Gown relations the 2004 Pitch-In award for Organization. The groups were recognized for their work throughout the year, starting with STRIVE's Ghetto Green-up last September through to the Moving Madness item drop-off and yard sale April 30-May 2 in the Mackintosh-Corry parking lot. "Pitch-In is not just a day in April, Pitch-In is an attitude," says Joan Jones of Town-Gown relations.

A library thank you

The Queen's Library would like to thank all those who participated in the LibQual+ Survey 2004. More than 800 students, faculty and staff completed the survey on how the library can improve facilities and services. Plans to improve services and facilities will be posted on the library website as available. Complete survey results will be compiled and published later this summer. Michael-James Atkins, BSc (Biology), won a Sony PDA/MP3 Player for participating. LibQUAL+ is a web-based survey that measures the quality of library services. library.queensu.ca

NEWS and MEDIA SERVICES

To inform us of your latest research findings or upcoming journal publications, call News and Media Services Writer Nancy Dorrance, 533-2869, or Communications Officer Lorinda Peterson, 533-3234.

Communism is alive and well – for health reasons

Cinema Kingston presents *Good bye, Lenin!* Directed by Wolfgang Becker, on Sunday, May 16 at 7:30 pm in Etherington Hall Auditorium.

The film takes place in 1989 and the citizens of Communist East Germany have just been dragged kicking and screaming (for joy) into the present as, brick by brick and chunk by chunk, the wall dividing them from the capitalist paradise of West Germany is demolished.

For Christiane Kerner (Katrin Saß), though, nothing has changed. This single mother of two and fully-fledged Communist Party supporter doesn't even realize that the Cold War is over, since she fell into a coma just

before the wall came down.

Desperate to keep his mother from suffering a fatal heart attack, Alex (Daniel Brühl) is under doctor's orders to make sure she still thinks Communism is alive and well.

The 2002 film is 121 minutes long and has English subtitles. Tickets are \$8 at the door.

Run by the Department of Film Studies and a community advisory board, Cinema Kingston endeavors to bring the best and most challenging of Canadian and world cinema to Kingston. The book films through the Ontario Film Circuit, a subsidiary of the Toronto International Film Festival.



A scene from *Good-bye Lenin!*

The Thousand Islands Playhouse Company presents ...

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771 Old Colony Road (at Taylor Kidd Blvd.)
Phone: 634-1707

Appointments

Sonja Verbeek appointed Executive Assistant to the Vice-Principal (Research) On the unanimous recommendation of the advisory committee Kerry Rowe announces the appointment of Sonja Verbeek as Executive Assistant to the Vice-Principal (Research) effective June 16, 2004. Ms. Verbeek currently serves as project officer for the Queen's Family Medicine Development Program in the Balkans Bosnia and Herzegovina (BiH), Serbia and Montenegro, a multi-million dollar project funded by the Canadian International Development Agency and directed by Geoffrey Hodgetts. Ms. Verbeek manages the Kingston project office and oversees three local offices in BiH and Serbia. She first joined the project in 1997 as project assistant and was appointed project officer in 2000. Prior to joining the Department of Family Medicine, Ms. Verbeek worked for several years in progressively responsible administrative positions with Empire Financial Group in Kingston. She holds a Bachelor of Arts degree and a Master of Public Administration from Queen's and a BA Honours specialization in French Translation from York University. In her new position, Ms. Verbeek's responsibilities will include human resources and financial planning; administering research promotion and strategic planning initiatives; developing policies and guidelines for the administration of research centres; and administering the Senate policy for establishing and reviewing University Research Centres and Institutes. In making this announcement Kerry Rowe extends his appreciation to Marlene Rego for her outstanding contributions to Queen's as Executive Assistant to the Vice-Principal (Research).

Faculty Appointments

Beverly Baines appointed head of Women's Studies Principal William Leggett announces that Bev Baines has been appointed head of Women's Studies for a two-year term commencing July 1, 2004. Dr. Baines holds a BA (Hons) from McGill University and an LLB from Queen's. She was called to the Bar of Ontario in 1976. She came to Queen's in 1974 as an assistant professor in Law, and was promoted to associate professor in 1989. She holds a cross appointment to Women's Studies and has taught law courses in Policy Studies since 1992. Dr. Baines has focused her research on feminist legal issues, particularly on the constitutional rights of Canadian women. Her study on "Women, Human Rights and the Constitution" was a foundational document for the women who lobbied for changes to the equality rights provision in the original draft of the Canadian Charter of Rights and Freedoms in the early 1980s. She has just finished editing (with Professor Ruth Rubio-Marin of the University of Seville) *Constituting Women: the Gender of Constitutional Jurisprudence* (Cambridge University Press, forthcoming Fall 2004), a comparative study of the constitutional status of women in 12 countries. She is the author of articles on equality rights, abortion, employment equity, multiculturalism, and anti-discrimination issues. Dr. Baines has served on

numerous faculty and university committees. She was a co-coordinator (with Roberta Lamb of Music) of the Women's Studies Program from 1991 to 1993, and from 1994 to 1997 served as associate dean in Law. In making this announcement, Principal Leggett expresses his appreciation for the leadership provided by Sue Hender during her five-year term as head of Women's Studies.

Staff Appointments

Program Assistant 2003-168 Cardiac, Circulatory and Respiratory Program **Pamela Barron**

Faculty Development Officer 2004-01 Faculty of Education **Withdrawn**

In-Course Programs Assistant 2004-10 Office of the University Registrar (Student Awards) **Isabel LeSarge** (Student Awards)

Administrative Assistant (Toronto) 2004-19 Advancement External Services **Christy Fonger** (Advancement)

Executive Assistant 2004-21 Office of the Vice-Principal (Research) **Sonja Verbeek** (Department of Family Medicine)

Senior Secretary 2004-23 School of Physical & Health Education **Trish Stenzl** (Centre for Automotive Materials & Manufacturing)

Staff Vacancies

Departments requiring casual hourly paid secretarial or clerical assistance should contact Susan Goodfellow in Human Resources, 533-2070.

Requisitions for staff replacement, with appropriate approvals, must reach the Department of Human Resources by noon of the Monday one week prior to the date of issue.

Applications received from internal candidates will be acknowledged by the Department of Human Resources. The results of each competition will be posted under the Gazette heading "Staff Appointments" as soon as possible after the conclusion of the recruitment and selection process.

Closing date for the following positions is **Tuesday, May 11, 2004 at 4:30 pm. Late applications will not be accepted.** Please submit a letter of application indicating the specific position desired and a detailed resume including your **employee number**.

Resumes will be accepted from Queen's Employees with Internal Status ONLY, unless the position specifically invites External applications.

Queen's University has an employment equity programme, welcomes diversity in the workplace and encourages applications from all qualified candidates including women, aboriginal peoples, persons with disabilities and racial minorities.

Job Details for positions advertised under 'Staff Vacancies', with the exception of CUPE Local 229 postings, continue to be available in the HR department and on the HR Website: <http://www.hr.queensu.ca/>.

*If you wish to be considered for the following positions apply in writing to **Susan Goodfellow** in Human Resources.

Senior Secretary School of Medicine 2004-60 **Minimum Hiring Salary:** \$30,072 (Salary Grade 4) **Terms:** Full-time term until April 29, 2005

Coordinator, International Initiatives Centre School of Business 2004-61 **Minimum Hiring Salary:** \$35,748 (Salary Grade 6) **Terms:** Full-time, one-year appointment

Manager, Business Career Services (Commerce Students) School of Business 2004-62 **Minimum Hiring Salary:** \$48,871 (Salary Grade 9) **Terms:** Full-time, two-year appointment

*If you wish to be considered for the following positions apply in writing to **Pat Eaton** in Human Resources.

Employment Programs Assistant Career Services 2004-63 **Minimum Hiring Salary:** \$31,523 (Salary Grade 5) **Terms:** Term until April 30, 2006 (May 1 until April 30 each year; 70% time)

Coordinator (Conference and Hospitality Services) Associate Dean of Student Affairs 2004-64 **Minimum Hiring Salary:** \$45,969 (Salary Grade 8) plus long hours **Terms:** Continuing full-time (40 hours per week)

Systems and Communications Manager, Registrar (Student Awards) 2004-65 **Minimum Hiring Salary:** \$48,871 (Salary Grade 9) **Terms:** Continuing full-time

Manager, Student Services Faculty of Applied Science 2004-66 **Minimum Hiring Salary:** \$48,871 (Salary Grade 9) **Terms:** Continuing full-time

Senior Associate (Faculty Relations) Office of the Vice-Principal (Academic) 2004-67 **Minimum Hiring Salary:** \$56,200 (Salary Grade 10) **Terms:** Term for one year

Committees

Internal Academic Reviews Suzanne Fortier, Vice-Principal (Academic) announces the commencement of internal academic reviews for the following units: Business, French Studies, Geological Sciences and Geological Engineering, German Language and Literature, Language and Linguistics, Physical and Health Education, Spanish and Italian Languages and Literature. Consistent with the Senate Internal Academic Review policy document, members of the university community are invited to recommend individuals to serve on the review teams, which will be established by the Internal Academic Review Committee. Each review team will be made up of

four faculty members (two of whom will be from the same faculty, if departmentalized), two students (one of whom will be a graduate student, if the unit offers a graduate program), and one staff member. All members will be external to the unit being reviewed. Recommendations should be submitted to the dean of the faculty/school by May 31, 2004. Further information about internal academic reviews and the responsibilities of review team members may be obtained from the Office of the Vice-Principal (Academic), ext. 32020, or by referring to the Senate policy document at: www.queensu.ca/secretariat/senate/policies/iarrev/iarrev.html.

Other Positions

Research Nurse, Perinatal Research Unit
This is a full time, four-year contract position.
Responsibilities: recruitment of subjects into clinical studies of pregnancy complications; collection and processing of biological specimens; data collection; data entry; and follow-up of subjects.
Requirements: university degree; health care experience (preferably in Obstetrics); and research/clinical trial experience.
Minimum Hiring Salary: \$45,969 (Salary Grade 8)
Please send resume to Dr. Graeme N. Smith, Department of Obstetrics & Gynecology, Kingston General Hospital, 76 Stuart St, Victory 4, Kingston, ON, K7L 2V7 or email to gns@post.queensu.ca.

Technician, Arthritis Research Laboratory
This is a full-time position to start summer 2004 (exact date negotiable).
Requirements: MSc/BSc or college diploma (preferably with 3-5 years laboratory experience) in the biochemical/biological sciences; experience in HPLC and in handling radioisotopes; other biological/biochemical techniques are an advantage.
Responsibilities: operating and maintaining HPLC equipment; general laboratory maintenance including: ordering of laboratory supplies; monitoring and disposal of radioactive and other hazardous chemicals; preparation of solutions and other consumables; basic maintenance of laboratory equipment.
Salary: Commensurate with Queen's grid for job grade. Apply with resume to Dr. T.P. Anastassiades, Dept. Medicine at: anastass@post.queensu.ca (Room 2050, Etherington Hall).

Employee Development

Register for the following program or obtain further information at ext. 32070 or hadmin@post.queensu.ca.

Wednesday, May 19
The Happiness Option: What you think is what you get During this workshop, you will discover the power of attitude in determining the quality of your life and how to enhance your self-esteem. Wendy Lloyd, Human Resources, 10:30 am to noon.

Milestones

Compiled by Faye Baudoux
If you have a milestone of 5, 10, 15, 20, 25, 30, 35, 40 years or more of continuous service coming up and you do NOT wish your name to be included in the listing, please contact Faye in Human Resources at 77791.

Congratulations to those who reached the following milestones in April 2004

25 years: Susan Anderson, International Centre; Valarie Byford, Biochemistry

20 years: Bethany McDonald, Faculty of Applied Science

15 years: Cheryl Lynn Hamilton, Psychology; Jamie Kimmitt, Physical Plant Services; William Pearce, School of Physical and Health Education; Angela Reda, School of Graduate Studies

10 years: Carolyn Heymans, School of Computing; Brian Lewis, Institutional Research and Planning

Five years: Peter Auchincloss, Mining Engineering; Adrienne Clarke, University Secretariat; Mandy Daniel, Residences; Larry Deir, Faculty of Education; Robin Harrap, QGISL; Kirsty Milne, The Principal's Office; Louisa Montesano, Advancement Business Office; Kelly Moore, Centre for Neuroscience Studies; Judith Pang, School of Medicine; Nancy Petri, Stauffer Library; April Vuletich, Geological Sciences and Geological Engineering; Rebecca Anne Ward, School of Medicine; Scott Whetstone, Information Technology Services.

Notices

Employee Assistance Program For off-campus professional counselling call toll free: 1-800-387-4765 (français 1-800-361-5676) 24 hours a day, seven days a week. Further information is available at www.queensu.ca/eap/.

Attention Gazette subscribers

Email your address changes to gazette@post.queensu.ca.

To have the *Gazette* delivered to your door, write to the *Queen's Gazette*, Department of Marketing and Communications, 107 Fleming Hall, Stewart-Pollock Wing, Queen's University, Kingston, ON K7L 3N6. Include your name and address and a cheque or money order for \$25 (12 months) payable to Queen's University.

If you prefer to read the *Gazette* online, go to qnc.queensu.ca/gaz_online.php

Awards and Grants

Queen's Economics Department Research Prize

The 2003 Queen's Economics Department Research Prize was recently awarded to Professor Huw Lloyd-Ellis. The prize recognizes the research achievements of faculty in Economics. The first two winners, for 2001 and 2002, were Professors Shouyong Shi and Ruqu Wang. The research of these outstanding recipients has contributed greatly to the department and enhanced its global reputation.

Convocation

Invitation to Spring Convocation Ceremonies 2004
Faculty members are invited to attend the Spring 2004 Convocations. Ceremonies will be held in the Jock Harty Arena of the Physical Education Centre as outlined below:

Thursday, May 27, 2004, 2:30 pm

Business, Industrial Relations, Public Administration, Urban and Regional Planning, Policy Studies

Honorary Graduand:
Jean Chrétien, LLD

Friday, May 28, 2004, 9:30 am

Applied Science

Honorary Graduand:
Mary Williams, DSc

Friday, May 28, 2004, 2:30 pm

Health Sciences: Medicine, Nursing, Rehabilitation Therapy, Faculty of Law

Honorary Graduand:
Morris Milner, DSc

Thursday, June 3, 2004, 9:30 am

Arts and Science, Physical and Health Education (Anatomy and Cell Biology, Biochemistry, Biology, Chemistry, Community Health and Epidemiology, Environmental Studies, Life Sciences, Microbiology and Immunology, Pathology, Pharmacology and Toxicology,

Physics, Physiology)

Honorary Graduand:
Gordon Gray, LLD

Thursday, June 3, 2004, 2:30 pm

Faculty of Education

Honorary Graduand:
Lewis Lapham, LLD

Friday, June 4, 2004, 9:30 am

Arts and Science (Communication, Culture and Information Technology, Computing and Information Science, Development Studies, Economics, Geography, Geological Sciences, Mathematics and Statistics, Psychology, Sociology)

Honorary Graduand:
Maria Klawe, DSc

Friday, June 4, 2004, 2:30 pm

Arts and Science (Art, Canadian Studies, Classics, Drama, English Language and Literature, Film Studies, French Studies, German Language and Literature, History, Jewish Studies, Language and Linguistics, Music, Philosophy, Political Studies, Religious Studies, Russian Studies, Spanish and Italian Languages and Literature, Women's Studies)

Honorary Graduand:
Gordon Wells, LLD

Assembly: The Academic Procession will assemble in the Upper Lounge of the Physical Education Centre thirty (30) minutes prior to the Convocation times. If you will be joining the Academic Procession, please call 533-6095 or e-mail at cowperth@post.queensu.ca. You are encouraged to complete our online form prior to **May 13, 2004** at www.queensu.ca/secretariat/convocation/RSVPform.html so that sufficient seats may be reserved.

Queen's academic regalia:

Members of the Academic Procession who do not have a hood or gown should make arrangements with the Alma Mater Society (located in the Ross Gymnasium) one half hour before each ceremony.

Note: Members of the Academic Procession who are *not graduates*

of Queen's will use their own gown and hood, however they can borrow a black gown from the AMS. **Please present your faculty card for identification.**

Receptions: All receptions are the responsibility of the Faculty or School concerned. You are encouraged to attend these functions and meet with the graduands and their families.

Governance

Honorary degree nominations

The Senate Committee on Honorary Degrees invites nominations for the award of honorary degree at the 2005 Convocations. Nomination forms are available on the web at www.queensu.ca/secretariat/HonDegre.html or from the University Secretariat, B400 Mackintosh-Corry Hall, 533-6095. Deadline for submission of nominations is Friday, August 13, 2004.

Notices

Physical Education Centre

Building hours to May 16, 2004
Monday to Thursday, 7 am-9 pm
Friday, 7 am - 7 pm
Saturday, 10 am - 4:30 pm
Sunday - Closed

Rental listings needed!
The International Housing Office is seeking rental listings for incoming international students and scholars for the spring/summer, fall and fall/ winter periods. To submit listings for apartments, rooms in either a landlord's home or in shared accommodations with other students, please visit www.queensu.ca/quic/housing and access "Rental Property Submission Form" or call 533-2604 ext. 74650.

PhD Examinations
Regular university staff may attend PhD oral thesis examinations.

Monday, May 3

Laura Kikuli, Law. Reproductive Rights and Women Refugees in Tanzania. Supervisor: S.J. Aiken, 548 Policy Studies, 1:30 pm.

Tuesday, May 4

James Wu, School of Computing. Architecting Tools to Support Transitions in Workstyle. Supervisor: T.C.N. Graham, 524 Goodwin, 1:30 pm.

Thursday, May 6

Petrisor Vatamanu, Chemistry. Atom-Based Integral Equation Theories for Chiral Fluids. Supervisor: N.M. Cann, 515 Chernoff, 2 pm.

Wednesday, May 12

Jane Corbett, Art. Painted Science: Convention and Change in Seventeenth-Century Netherlandish Paintings of Alchemists, Physicians and Astronomers. Supervisor: V. Manuth, 210 Ontario, 2 pm.

Tuesday, May 18

Ioulia Savina, Psychology. Theory of Mind in Schizophrenic Patients Treated with Typical Antipsychotics or the Atypicals Clozapine, Olanzapine and Risperidone. Supervisor: R.J. Beninger, 228 Humphrey, 1 pm.

Surplus Items

The Office of V-P (Research)

Offers for sale the following item:
1 - IBM Think Pad Laptop computer (2001) with Ultra Base, Pentium III 600 20GB hard drive (No CD burner or DVD). Minimum Bid: \$350. For information or to view, please call Marlene at ext. 75716.

Submit sealed bids marked "V.P. Research" to Patti George, Purchasing Services by 4pm on Monday, May 10. Please mark bid(s) "CONFIDENTIAL".

Queen's University is not responsible in any way for the condition of any item(s) it has made available, nor for any damages or injury that may occur due to use or removal of the item(s).

Queen's University has the right to reject any or all of the bids. **ONLY SUCCESSFUL BIDDERS WILL BE NOTIFIED.**

Volunteers

Stroke study
Anatomy and Cell Biology requires volunteers who have suffered a stroke for a study to assess how stroke affects upper limbs. Adults above the age of 60 with no known neurological disorders are needed as well for control experiments in the same study. The single session takes about two and a half hours and compensation is provided. Phone 533-6000 ext. 74590 or email melanie@biomed.queensu.ca for an appointment or more information.

Find out more about female physiology and health
The Clinical Exercise Physiology Laboratory needs female subjects 20-35 years old, who are regularly menstruating, physically active, and not taking oral contraceptive or hormone replacement therapy for a study examining the effects of menstrual cycle on breathing and blood acidity. The study involves 3 laboratory visits over approximately 2 months. If you are interested in participating or would like more information please contact Luba Slatkovska, Study Coordinator, Queens University, Physical Education Centre, at (613) 533-6284 or by e-mail at m_c_research@hotmail.com.

HELP LINES

Campus Security Emergency Report Centre:

533-6111

Human Rights Office
533-6886
Irène Bujara, Director

Sexual Harassment Complainant Advisors:

Margot Coulter, Coordinator
533-6629

Chuck Vetere - Student Counselling
533-2893 ext. 77978

Anti-Racism Complainant Advisors:

Stephanie Simpson, Coordinator
533-6886

Audrey Kobayashi - Geography,
533-3035

Anti-Heterosexism/Transphobia Complainant Advisors:

Julie Darke, Coordinator
533-6886

Eleanor MacDonald, Politics
533-6631

Coordinator of Dispute Resolution Mechanisms:

Doug Morrow
533-6495
directs staff, students and faculty to the appropriate campus resources for assistance.

Sexual Harassment Respondent Advisors:

Paul Banfield - Archives
533-6000 ext. 74460

Mike Stefano - Purchasing
533-6000 ext. 74232

Greg Wanless - Drama
533-6000 ext. 74330

Anti-Racism Respondent Advisor:

Ellie Deir - Education
533-6000 ext. 77673

Internal Dispute Resolution SGPS Student Advisor Program
533-3169

University Dispute Resolution Advisors -

Students:
Please contact Doug Morrow, Coordinator of Dispute Resolution Mechanisms, at 533-6495 for assistance or referral to a Grievance Advisor

University Grievance Advisors - Staff:

Jane Baldwin - Surgery
533-6302

Kathy Beers - Student Affairs
533-6944

Bob Burge - JDUC
533-6000 ext. 78775

Gary Racine - Telecommunications
533-3037

Freedom of Information and Privacy Protection

Commissioner Paul Tetro
533-6095

Employee Assistance Program
1 800 387-4765

University Chaplain:

Brian Yealland
533-2186

Rector
Ahmed Kayssi
533-2733

Student Counselling Service
533-2893

*Internal numbers may be accessed from a touch-tone phone off-campus by dialling 533-6000 + extension number.





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Art

The Agnes Etherington Art Centre
University Avenue
Etherington House, A Legacy, ongoing. Our Great Adventure: The Group of Seven to May 9; Frances K. Smith Gallery, Prints, Patrons and Publishers, Stefano Della Bella to May 30. African Gallery, Metal Work of West Africa: a selection from the Justin and Elizabeth Lang Collection to July 2005; Bader Gallery, Real and Imagined People, from the Art Centre's collection of 16th and 17th century European painting to June 19, 2005; The Davies Foundation Gallery, Arnaud Maggs, Orford String Quartet to Sept. 6. www.queensu.ca/ageh/

The Studio
(B 144 West end of main lobby and watch for signs)
Duncan McArthur Hall, Faculty of Education
Landscape Paintings and Drawings, Alex Jack. May 4-27, 2004, 11:30 am - 1 pm Monday - Thursday or by appointment. Contact Angela Solar at solara@educ.queensu.ca

Event

Meet the artist at an opening reception.
Wednesday, May 5, 2004,
11:30am - 1 pm and 6- 8 pm.

Union Gallery

First floor of the Stauffer Library (corner of Union and University)
Main Gallery - GRIMACE by Lindsay Fisher, an exhibition of new paintings on view.
Project Room - Through (y)our I(eyes). 4th year film students Rebecca Beardsworth and Candice Chow-How present two videos that explore family politics and issues of identity using film and photography. Both shows run May 7 - June 4, 2004 with opening receptions on May 7, 6-8 pm.

Film

Sunday, May 16 Film Studies

Good Bye, Lenin! by Wolfgang Becker, 121 min., English subtitles. A satirical look at the effects of American globalization abroad in 1989. \$8 at the door. Etherington Auditorium, 7:30 pm. For more information: www.film.queensu.ca/cinemakingston or call 533-2178.

Conferences

The Institute of Intergovernmental Relations
Democratic Reform Initiatives and Reforming the Institutions of the Federation:
Exploring the Interdependencies.
Friday, May 14 - Saturday May 15, 2004. Inquiries: (613) 533-2080 or www.iigr.ca.

Departmental seminar schedules

Biochemistry
meds.queensu.ca/medicine/biochem/seminar.html

Biology
biology.queensu.ca/seminars/dss.html

Business
business.queensu.ca/research/conferences/index.html

Centre for Neuroscience Studies
<http://queensu.ca/neurosci/seminar.html>

Chemistry
<http://chem.queensu.ca/NEWSANDEVENTS/Seminars/Seminar02W.PDF>

Computing

<http://cs.queensu.ca/seminars>

Economics
<http://qed.econ.queensu.ca/pub/calendar/week.html>

GeoEngineering Centre at Queen's - RMC
www.geoeng.ca/GENG840_Schedule.htm

Human Mobility Research Centre
www.hmrc.ca

Pharmacology/Toxicology
meds.queensu.ca/medicine/pharm/

Physiology
meds.queensu.ca/medicine/physiol/physiol.sem.html

Policy Studies
localendar.com/public/spscal

Public Lectures

**Tuesday, May 4
Cardiac, Circulatory and Respiratory Research Program**
Michelle Bendeck, University of Toronto. Collagens and dis-coidin domain receptors in the pathogenesis of atherosclerosis. 104 Richardson Labs, 2 pm.

Education
Magda Lewis, Sheryl Bond, and Valerie Ashford, Queen's. Developing an international e-learning graduate course in cultural and policy studies: Michelangelo meets cyberspace. Vernon Ready Room, 4 pm.

**Wednesday, May 12
Jewish Studies**
John Corbett. The Father who gives rain. 517 Watson, 7:30 pm.

**Saturday, May 29
Centre for Neuroscience Studies**
Kola Oyewumi, Queen's. Recent advances in the medication management of first episode schizophrenia. 1101 Biosciences, 4:45 pm.

Special Events

**Wednesday, May 12
Chemistry Symposium**
Nobel Prize winner Barry Sharpless, Scripps Research Institute and Gilbert Stork, Columbia University. Topic tba. 250 Chernoff Hall, 1:30 - 4 pm.

**Thursday May 13
Public Lecture**
Alfred Bader, Aldrich Chemical Company. The Aldrich Chemical Company story. Ellis Hall Auditorium, 3 pm.

This symposium and lecture are part of the celebrations to honor Queen's benefactor Alfred Bader on the occasion of his 80th birthday.

**Tuesday, May 25
Kingston 2004 Padre Laverty Award Dinner**
Reception 6 pm, dinner and awards presentation 7 pm, Ban Righ Dining Room. Business Attire. \$45/person by Visa, MasterCard, cheque payable to "Queen's University", or internal journal entry. For full details or to register online go to alumni.queensu.ca/laverty. For information or to register offline, please call 533-2248, e-mail laverty_dinner@tricolour.queensu.ca, or fax 533-6777 on or before May 13.

Workshops and Courses

**Sunday, June 13 and Monday, June 14
International Educators Training Program (IETP)**
The IETP offers 6 courses and 10 afternoon sessions. Broadcaster and journalist, Ann Medina will deliver the keynote address, "Terrorists", Timbuctou, and the Dog: Lessons in Culture and Perception. For more information call 533 2604, or visit <http://www.queensu.ca/quic/ietp>

Submission Information

To ensure we run your information correctly, Calendar items must appear in this format:

date, department, speaker's name and affiliation, title of lecture, place, time, and cost if applicable.

Please submit your information in the body of an email message to gazette@post.queensu.ca.

The next Gazette deadline is Monday, May 10 at noon.

SENATE IN BRIEF

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Thursday, Sept. 23, Thursday, Oct. 21, Thursday, Nov. 25, Thursday, Jan. 27, Thursday, March 3, Thursday, March 31, Thursday, April 28, Wednesday, May 25, 2005 (9:30 am.)

Amendments to the Computer User Code of Ethics to achieve harmony with other university policies and processes and increase clarity and readability.

The election of the following to Senate committees for terms beginning Sept. 1: Patrick Oosthuizen (faculty), Academic Colleague; Chris Jones (student), Academic Development; Beryl Pong (student), Academic Procedures; Inara Metcalfe (staff), Ban Righ Board; Kathleen Bingham, Kamila Polus (students), Jeanette Parsons (staff), Budget Review; Sylvat Aziz (faculty), Rahim Manji (student) Creative Arts and Public Lectures; John Park (student), Health, Counselling and Disability; Adam Szulewski, Kyle Hodder (students), Sandra Olney (faculty), Internal Acade-

mic Review; Olga Sokolva (student), Susan Cole (faculty), International Centre; Tka Pinnock, Brian Stearns (students), Library; Vincent Paul Escanlar (student), Non-Academic Discipline; Chris Churchill (student), Operations Review; Andrew Mould (student), Marie Myers (faculty), QUESSI; Peter Ralevic (student), Scholarships & Student Aid; Kristan Aronson (faculty, takes up responsibilities immediately), Mark Skinner (student), University Promotions.

Revisions to the Freedom of Information Protection of Privacy Guidelines to conform to federal regulations and that the committee continues to review the FOIPP guidelines.

A report on the review of the Centre for Neuroscience Studies, authorizing the centre continue for an additional five years and that the centre's revised constitution be approved. www.queensu.ca/secretariat/senate

A CASE FOR ART



CELIA RUSSELL

Cold Case, an installation by graduating BFA student Rebecca Greenbury, invites viewer participation. Works by Ms. Greenbury and her classmates were on display throughout Ontario Hall recently as part of "Eviction Notice," the annual BFA Graduating Exhibition. Cold Case consists of five, open, lined and tagged cases, with mirrors in each of the lids. A display of grooming equipment sits on a table between them. One case contains a set of plaster casts of human noses; the others contain plaster cast sets of lips, ears and teeth; one contains a set of vials containing hair samples. Each set is said to represent different ethnic characteristics.