



QUEEN'S GAZETTE



In praise of spirituality P4

The long route to a PhD P8



VIRGINIA TECH VIGIL



STEPHEN WILD

Alma Mater Society Campus Activities Commissioner Hillary Smith, Social Issues Commissioner Allison Williams and Academic Affairs Commissioner Charles Sumbler hold symbolic candles at an April 19 vigil outside Stauffer Library to remember those killed and wounded at Virginia Tech.

Queen's community reaches out to a university in mourning

By CELIA RUSSELL

Under a cloudless sky, at the university's busiest corner, about 300 people gathered to mourn the senseless loss of young lives and bright minds at a campus not very different from Queen's.

Students, fresh from exams and studying, faculty and staff on their way home from work, took part in a vigil last Thursday outside Stauffer Library. They remembered the 32

people who lost their lives and those who were wounded after a student went on a violent shooting rampage April 16 at Virginia Tech in Blacksburg, VA.

"Today we are here in brokenness, to remember all those lives lost and all who suffer this loss too," said University Chaplain Brian Yealland, who led the vigil, organized by the Alma Mater Society (AMS), the Society of Graduate and

Professional Students (SGPS) and the university. Principal Karen Hitchcock and members of the student governments also participated.

Students held three candles of remembrance: one for those who lost their lives at Virginia Tech; the second for victims of acts of violence everywhere and the third, a green candle, symbolizing spring and the future and hope in the world.

"Our thoughts and words

go out to embrace our fellow students and faculty members at Virginia Tech touched by this unspeakable tragedy," said Dr. Hitchcock, who was touched personally by Monday's event.

"I have a grandniece who studies engineering at Virginia Tech. She is safe. She shared with our family the anguish and disbelief which permeate the campus. She also spoke of the caring and deep sense of

See MOURNING: Page 16

Moving ahead on the diversity front

By CELIA RUSSELL

Upper-year students are helping others to feel at home in a strange country. Faculty members are volunteering for a new program to mentor undergraduates. University councillors will be taking part in a day-long theme session May 4 focused on diversity and equity – and university officials will be asking them for advice on their own experience of these issues.

A year after Frances Henry's report, entitled "Systematic Racism Towards Faculty of Colour and Aboriginal Faculty at Queen's University," was presented at Senate, it is evident that the commitment to equity and diversity continues to be top of mind on several fronts.

Students, staff, faculty and university administrators, groups and individuals, both publicly and behind the scenes, are continuing to work to ensure that Queen's is a diverse, accessible and welcoming place for all its community members.

Although the report by Dr. Henry, a professor emerita at York University, focused on issues of faculty retention, the ensuing discussion quickly embraced a much broader concern. As Vice-Principal (Academic) Patrick Deane questioned in a recent column on the subject in the Gazette, "In what kind of climate do members of visible minorities – faculty, staff and students – live and work at Queen's and in Kingston?"

The Queen's community has since "embarked on a process of self-examination that may in the end prove unprecedented in the Canadian university system," notes Dr. Deane, whose office has made it a priority to champion and also to fund worthy initiatives aimed at promoting diversity and equity.

See DIVERSITY: Page 3

Service to remember Agnes Benidickson

A memorial service to remember the life of Agnes McCausland Benidickson, who passed away March 23, will take place Friday, May 4 at 5 pm in Grant Hall.

The service will be followed by a reception at the Agnes Etherington Art Centre.

University Chaplain Brian Yealland will conduct the service. Those paying tribute to the former Queen's Chancellor at the memorial service will include: Principal and Vice-Chancellor

Karen Hitchcock; the Honorable John Reid, a family friend and former Member of Parliament; Principal Emeritus Ronald Watts; and Kathleen Ramsay, daughter of Agnes Benidickson.

"Agnes was very special to me, and to so many others" says Dr. Hitchcock. "It was my good fortune to meet her soon after my arrival at the university. She was so very helpful, supportive and always a reassuring presence. Her devotion to our students and

her love of Queen's were boundless. I will miss her terribly, as we all will here at Queen's."

Chancellor Benidickson was born Aug. 19, 1920 at Chaffey's Locks, Ontario, the eldest child of James A. and Muriel Sprague Richardson. She served as Chancellor of Queen's from 1980 to 1996, and was the first woman elected to the position.

"She was a shining exemplar of grace and duty, and widely respected for her deep commit-

ment to social justice," says Dr. Hitchcock. "Her life was devoted unwaveringly to the service of Canada. Her lively intelligence and unfailing compassion warmed the hearts and earned the affection of all Canadians."

All are welcome to attend the service and the reception.

A full obituary ran in the April 9 Gazette, on page 1. Visit qnc.queensu.ca/gaz_online.php

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Queen's News Centre

ONE LAST SPIN



STEPHEN WILD

Members of the Queen's Golden Gaels hockey team skate with Queen's and Kingston community members and their families at Rock the Jock in the Jock Harty Arena April 14. The day-long celebration was a chance to say goodbye to the arena, which will be torn down this summer to make way for the Queen's Centre. The event raised \$1,286 for PRO Kids and garnered 1,100 pounds of food and \$62 for the Partners in Mission Foodbank. The many activities included a women's hockey game involving alumni and Jock's Last Game, where the Golden Gaels men's team defeated the RMC Palladins 7-5.



QUEEN'S GAZETTE

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Queen's recognizes student initiatives for improving town-gown relations

By MOLLY KEHOE

Three outstanding students are the first recipients of the university's new annual Student Civic Responsibility Award which honours exceptional students for initiatives that strengthen relationships between the city and the university.

Ryan Quinlan Keech, Aislinn McCarry and Melanie Bedore were nominated by members of both Queen's and Kingston communities.

The \$2,500 award aims to highlight and reinforce the heightened sense of community responsibility many Queen's students show each year in their work with community initiatives and local charities.

"Many members of the Kingston community have acknowledged the contributions of Queen's students to the quality of life in this city," says Vice Principal (Academic) Patrick Deane. "Reviewing the nominations for the first Civic Responsibility Awards, however, members of the selection committee were struck by the extraordinary range of activities covered, as well as by the great depth of commitment shown by nominees. It was a great pleasure to learn about their work, and a privilege to be able to reward it."

AMS Vice-President of Municipal Affairs Ryan Quinlan-Keech, nominated by AMS president James McMillan, is recognized for his many contributions to town-gown relations during his time at Queen's. Mr. Quinlan-Keech's commitment on behalf of students to work with Queen's administration and the city helped to secure a safe Homecoming for all participants last fall.

Other noteworthy initiatives include the spearheading of the

first Golden Cockroach Award designed to expose poor living conditions in the student neighbourhood, and a variety of local volunteer fundraising and community relations activities.

"As a native Kingstonian, the relationship between students and the Kingston community matters quite a bit to me, and I hope that the initiatives that I have been able to put in place over the past year will bear fruit well into the future," says Mr. Quinlan-Keech. "I'm incredibly humbled by this award. It's always wonderful to receive recognition for one's efforts, and to have received an honour like this from the university that I care so much about is absolutely fantastic."

Nominated by Sydenham Ward Tenants' and Ratepayers' Association for her role as the 2006-07 Green Scheme project coordinator, Aislinn McCarry led a group of students dedicated to urban renewal in initiatives such as the greening of the Hospice Palliative Care Garden in City Park, the King Street Historic Replanting project and the grooming of park grounds at Navy Memorial Park.

"Aislinn McCarry's enthusiasm, professional manner and boundless energy impressed many of the community members she met," says School of Urban and Regional Planning professor David Gordon.

PhD student Melanie Bedore, nominated by Geography professor Betsy Donald, works in partnership with the Kingston branch of the John Howard Society to advance the rights and responsibilities of community membership. One of her most notable contributions was to spearhead a survey of the impact on north Kingston community

members of the closure of the Kingslake IGA on Division Street, creating a "food desert" in the city's north end.

"Melanie Bedore effectively advanced an awareness of the rights and responsibilities of community membership," says Dr. Donald. "Her work is making an important contribution to the discussion of urban and social planning in Kingston."

Four new student projects have also been awarded funds totalling \$14,000 from the Student Community Relations and Civic Responsibility Fund. Created by the Office of the Vice-Principal (Academic) last year, this is the second round of project funding, which also support student initiatives that improve relationships between the university and the city.

Megan Krause, Josh Barr, J.B. Peikes, Noah Bonder and Cameron Roblin will present two events on leadership and social activism entitled Students Against Indifference (a fall conference and spring rally); Ann Whittal will create an art mural on the Clergy Street side of the Queen's Centre construction site; Ryan Moore will continue greening the community with Green Scheme 2007 and Rachael Bigenwald will develop Child Arts, an after-school arts and drama program for children.

"Just as last year, the applications were very diverse," says Dr. Deane. "It confirms the need for funding of this sort and also confirms that the range of activities that our students are involved in is far ranging and more than anyone might have expected."

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University Council to examine diversity

Engaging a Diverse World: the Student Experience at Queen's will be the theme as University Council members gather for their next annual meeting on Friday, May 4 in Kingston Hall.

This year's program will focus on achieving an accurate picture of the state of affairs at Queen's with respect to a range of diversity issues and to solicit input and advice from councillors based on their own experience of such issues in other contexts.

The annual awards dinner takes place that evening in Ban Righ Dining Hall beginning with the Chancellor's Reception at 6 pm and dinner at 7 pm.

After dinner, Distinguished Service Awards will be presented

to Board of Trustees member Hugh Christie, Emeritus Professor Ned Franks, Emeritus Professor John Gordon, former Vice Principal (Advancement) George Hood, Emeritus Professor James Low and former Associate Dean of Health Sciences and Director of the School of Rehabilitation Therapy Sandra Olney.

Chancellor Charles Baillie will open the council session at 8:30 am with a welcome to members. Program Chair Greg Lessard will then introduce the schedule, which will include a State of the University Address by Principal Karen Hitchcock at 8:40 am in room 201.

At 10:15 am, a panel discussion and Q&A will take place with

University Registrar Jo-Anne Brady (who will look at the current makeup of the student population); Director of the Centre for Teaching and Learning Joy Mighty (who will talk about teaching and learning in a context of diversity); Associate Vice-Principal and Dean of Student Affairs Jason Laker (who will address diversity issues inside and outside the curriculum) and Assistant Director, Queen's University International Centre Susan Anderson (who will present information on the international student population at Queen's and opportunities for international experience available to Queen's students and faculty). After lunch, councillors will gather into small

discussion groups.

The business meeting starts at 2:45 pm and will be followed by reports from the group discussions. The meeting will adjourn at 4:55 pm.

The Board of Trustees also convenes that weekend with committees meeting on Friday, May 4 (with the exception of the finance committee, which meets May 3) and the business meeting taking place on Saturday, May 5 starting at 9 am.

(A meeting of the University Senate takes place this Thursday, April 26 in 202 Policy Studies. For visitors' tickets, call 613 533-6095.)

www.queensu.ca/secretariat/ucouncil/index.html

IN BRIEF

Industrial Relations Centre awarded \$1 million

Queen's Industrial Relations Centre (IRC) has received a \$1 million grant from Ontario's Ministry of Education to support its work to help enhance the education and skills of the people of Ontario.

Deputy Minister Ben Levin recognized IRC for contributions relating to its "cutting edge programs for practitioners in industrial relations."

These contributions are demonstrated by IRC's "undertaking research on best practices in promoting collaborative working relationships" in education; its valuable training based on that research; and its delivery of programs to school board and union leaders.

"The grant is an exciting development, one that will further advance our research, and enable us to enrich our practitioner programs with the results," says IRC Director Paul Juniper.

The grant is also a great honour, he says.

"For nearly 70 years we have been offering our flagship IR program for practitioners in the public and private sectors. This grant recognizes the Centre's powerful influence on IR in this country through its leadership in IR education."

Since 1937, Queen's IRC has analyzed, interpreted, and taught others about the world of people at work. Considered "Canada's people management finishing school," the centre specializes in industrial relations, human resource management and organization development.

The IRC now offers an expanding number of programs that lead to three highly respected certificates, including one in Industrial Relations.

It also conducts research in industrial relations, dispute resolution, change management, and high performance teams. The Centre is part of the esteemed and innovative Queen's School of Policy Studies.

www.industrialrelationscentre.com

Captain to discuss role of Canadian Navy

Captain (N) Serge Bertrand of the Canadian Navy will discuss, on behalf of Vice Admiral Drew Robertson, Chief of the Maritime Staff and Commander of Canada's Navy, the roles of maritime power in the emerging defence and security environment and what this means for Canada.

He will also set out the Commander's vision for the future Navy in a transformed Canadian Forces, and describe key issues and challenges that confront the Canadian Navy in bringing this vision to fruition.

Captain (N) Bertrand will be accompanied by Commander Scott Bishop, the Commanding Officer of HMCS HALIFAX.

The lecture takes place Wednesday, April 25 at noon at the Ban Righ Centre, 32 Bader Ln. It is in conjunction with a visit by Her Majesty's Canadian Ship HALIFAX to the City of Kingston April 25 and 26.

Diversity

continued from page 1

The administration is responsible for making sure the university continues to make progress, he says. "But everyone has to be working on this issue and it has to be explored and driven on a number of different fronts."

The university community must deal with diversity both in terms of values and actions, says Principal Karen Hitchcock. "The challenge will be to have a vision of the way forward and the resolve to measure our progress, rejoicing in our achievements, but recognizing that there is much yet to be done."

One of Dr. Deane's top priorities is the creation of a new position in his office dedicated to enhancing diversity in the curriculum and in the recruitment and hiring of faculty. He expects the position to be in place this fall, pending approval of funding. It would not duplicate the work of Irène Bujara in either of her roles as director of the Human Rights Office or as interim University Advisor on Equity, he says, noting that these roles are more case related or informed by a mandate of enforcing the federal contract legislation.

As chair of the committee that presented the report to Senate, Joy Mighty has expressed some concern that the full extent of activities taking place at the university is still unclear.

In presenting the Henry Report, Senate Educational Equity Committee (SEEC) also presented a response outlining five major themes or objectives: leadership, education, recruitment/hiring/retention, reward systems and strengthening institutional culture.

Last October, in an effort to learn what the campus community had done to improve racial and ethnic diversity since the release of the Henry Report, SEEC sent a memo to a long list of contacts, including deans, directors, heads, student government representatives and student clubs.

SEEC wants to map the initiatives across these objectives, with the goal of creating a master list – and ultimately defining a coordinated campus effort for improving racial and ethnic diversity.

Committee members felt the response could have been better, and they also noted that many of the responses came from those already involved in existing initiatives, says Dr. Mighty, who is also the director of the Centre for Teaching and Learning (CTL). To reach more people, SEEC is exploring methods to elicit a broader response from across the university.

"We also want to hear from people about the challenges they are facing and what might be

preventing them from doing anything about it," she says.

The initiatives SEEC has heard about to date have been developed primarily by students, says Dr. Mighty. "Students have picked up the ball and run with it."

For example, the Queen's Engineering Society is working with the Faculty of Applied Science to find new ways of increasing the diversity of its applicants.

The Associate Vice-Principal and Dean of Student Affairs Jason Laker has run diversity training sessions for student leaders and others.

The Office of the Vice-Principal (Academic) has shown its commitment by helping to fund some of these new projects, such as the Faculty-Student Mentorship Program for Self-Identified Racialized Students. This is a project initiated by the Queen's Coalition for Ethnic and Racial Diversity (QCRED), a student-faculty-staff group that formed last year. It seeks to improve the cultural awareness of the Queen's and Kingston communities to foster a healthy and rich learning and working environment for all.

"Everyone has to be working on this issue and it has to be explored and driven on a number of different fronts."

Patrick Deane

The program, which began last September and will continue through the 2007-08 academic year, has had an excellent response, says Dr. Mighty. About 35 faculty members and 70 students have signed up for the program, which pairs students with faculty members who take a special interest in visible minority students' overall social and academic development.

It's known that frequent contact is a major factor in overall student motivation, campus involvement and retention. The program also serves to increase faculty familiarity and understanding of the ethnic minority student experience.

"Research tells us that one reason students do not do well at university is that they fail to connect with a faculty mentor," she says. "With students who feel marginalized or ignored, this is more of a challenge."

Arunima Khanna, a cross-cultural counsellor with Health, Counselling and Disability Serv-

ices (HCDS), has noticed a change in atmosphere on campus this year.

"The greatest thing is that students are now speaking out – they want to see change in how things are being done," says Ms. Khanna, who is also affiliated with the Queen's International Centre.

She points to another new student-driven project, Queen's Peer Connections (QPC), a joint initiative developed by QCRED and the HCDS, which brings together self-identified racial and cultural minority students with upper-year students who help them to adjust to the university and local community and further a sense of belonging.

"Most students who come here possess the skills to be good students and do well," says Ms. Khanna. Some are not successful, due to issues of cross-cultural adjustment and unfamiliarity with the Canadian academic system.

The program is more than a "one-sided helping program." Upper-year mentors have a lot to gain by getting an international experience and perspective and raising their own competencies, she says.

Ms. Khanna works primarily with international and minority students in distress. She also runs workshops on diversity issues, helps Queen's Residences with their program planning and is an advocate for students, working on making changes to systems so that they are more inclusive and fair to everyone.

In addition to helping students whose first language is not English to find the resources they need, she also works with students who come from close-knit families where interdependence is encouraged.

In counselling students, their cultural reality must be taken into consideration, she says.

When a student is struggling, it is amazing the great lengths they will go to protect their parents at home by not telling them the truth – because they don't want them to worry, she says.

The prevailing academic culture that favours an assertive presentation style, equated with competence and confidence, also poses challenges, she says. The custom in some cultures is to defer to professors. Consequently, students may be under-marked because they don't participate in the classroom as much as they might.

In addition to working with students to develop these skills, she also raises the awareness of professors and teaching assistants by encouraging them to engage with the students and draw them out.

Music icon to receive honorary degree

BRUCE COCKBURN RECOGNIZED FOR HUMANITARIANISM

Queen's will award Canadian music legend and humanitarian Bruce Cockburn with an Honorary Doctor of Divinity at the 2007 Queen's Theological College Spring Convocation.

The singer-songwriter will receive his degree on Wednesday, May 9 at 8 pm in Grant Hall, in recognition of his artistic, humanitarian and theological contributions to society. He will give an address as part of the ceremony. The public is welcome to attend.

Raised on a farm near Pembroke in the Ottawa Valley, Mr. Cockburn studied at Berklee College of Music in Boston in the mid 1960s and released his first album, *Bruce Cockburn*, in 1969.

With a musical career spanning more than 40 years, Mr. Cockburn is well known in Canada for his contributions to music and humanitarian causes. He has maintained a personal conviction that there is a spiritual component to life that influences much of human behaviour. Through his singing, songwriting, and humanitarian activism, Cockburn has successfully drawn the attention of Canadians and people around the world to the spiritual dimension of life.

Mr. Cockburn's songs are infused with religious imagery, drawing largely, although not exclusively, from the Christian tradition, the Faculty Board of the Queen's Theological College

noted in his nomination. His travels to Central America and the injustices he saw there influenced his music. Mr. Cockburn never lost sight, however, of the injustices in his own backyard and his songs continued to draw attention to the plight of First Nations people in Canada. He supports causes for human and ecological justice, including Friends of the Earth, The David Suzuki Foundation, War Child Canada, Mines Action of Canada, and USC Canada.

In honouring Bruce Cockburn, the college is showing its support for those who present their theology and their justice-action in a popular medium that reaches across secular-religious divides and speaks to the hearts of Canadians as well as many around the globe.

"It not only fits with the curious position that the Theological College occupies within a secular university, but also fits with the strategic plan of the university that blends a foundation of excellence with a concern for relevance in the global perspective," the nomination stated.


With 29 albums and numerous singles, Cockburn has garnered seven JUNO Awards, in addition to receiving the inaugural Humanitarian Award from the JUNOs in 2006. Other honours received include three previous honorary doctoral degrees from St Thomas University, Berklee College of Music, and York University. Bruce Cockburn is also an Officer of the Order of Canada.

For the spring convocation schedule and a list of honorary degree recipients, see page 14.



COURTESY OF TRUE NORTH RECORDS

A deep-seated theology infuses much of the music of Bruce Cockburn, who will receive an honorary Doctor of Divinity at Queen's on Wednesday, May 9.




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Queen's and the city talk trash as 12,000 students prepare to move out

Queen's and the City of Kingston are engaging both students and landlords in a campaign to keep the student neighborhood free of debris when an estimated 12,000 students move out at the end of the month.

"We're reminding students before they move of their obligations to be good neighbours and responsible citizens by using the resources available to dispose of unwanted items," says Joan Jones, coordinator of Town-Gown Relations at Queen's.

To raise student awareness, Queen's has distributed a specially designed flyer on the door-knobs of 900 houses in the student area. It includes a checklist for disposing of items and a contact list of local charities, including the Ontario March of Dimes, Salvation Army, Envirorworks, The Canadian Diabetes Association and the Partners in Mission Food Bank. Charities

will pick up large items in advance.

The Salvation Army will also be parking a truck in Victoria Park on April 30 and May 1 to collect "gently-used" articles.

"Donations of clothing and large articles from Queen's during student move-out are a tremendous asset to us," says Thrift Store Manager Sharon Peterson. "Last year we broke record sales from large articles collected on the Saturday, and sales were boosted throughout the year from clothing that took a while to sort. We look forward to participating both days this year."

In addition, Queen's Community Outreach Coordinator Marjia Linjacki visited students in their near-campus homes recently, chatting and distributing plastic bags for the Salvation Army clothing drive along with exam tools such as free beverages

on and off campus and free movie rentals that promote taking a break.

The Salvation Army will also be parking a truck in Victoria Park on April 30 and May 1 to collect "gently-used" articles.

"Students are studying and writing exams sometimes up to just before their move," says Ms Linjacki. "Trash left behind often consists of gently-used clothing that can be recycled, so the plastic re-cycling bags for clothing donations to the Salvation Army

may encourage students to take a break, plan ahead and not leave all the details of moving to the last moment."

A letter, distributed to 1,500 property owners in the student neighborhood, reminds landlords of the bylaws in place to keep the city safe and clean of debris. The letter also provides homeowners residing in the neighbourhood with a phone number to report violations of these bylaws.

"We're reminding landlords of their responsibilities to keep the neighbourhood clean," says Steve Murphy, manager of building and property standards for the City of Kingston. "Last year few enforcement measures were required as staff were generally able to work with landlords to meet the 48-hour clean-up period."

To help ease the transition for the yearly spring exodus of stu-

dents, the university and the city are trying to raise awareness about garbage, recycling, landfills and property standards, as well as about opening and closing Utilities Kingston accounts. The city of Kingston is running local ads and its website features a special student section at www.cityofkingston.ca/schoolsout. Also, bylaw enforcement officers will be out in full force over the moving days to issue orders and charges under the property standards bylaw.

Queen's is picking up the \$1,500 tab to keep the waste transfer station open for extended hours. The transfer station at 62 St. Remy Place (off Dalton Avenue) will be open Sunday April 29 from noon until 4 p.m., Monday April 30 and Tuesday May 1 from 8 a.m. to 8 p.m. Regular tipping fees apply, with a minimum of \$12.50 per load.

Celebrating 20 years of enriching students' lives

By KAY LANGMUIR

Queen's enrichment programs are now attracting high-school students from as far away as Bermuda and California for a memorable and varied sampling of university life.

The week-long E=Mc² program, which is celebrating its 20th anniversary this year, has lately been broadening its reach through the internet and discovering that its eclectic course offerings have great appeal, says Lise Alban, manager of the Enrichment Studies Unit.

Although other universities also offer high-school-level enrichment programs, most are specific to a certain faculty and subject area, such as science or the arts, she says.

E=Mc² offers courses in everything from sport psychology and photography, to nano-technology and advanced business practices.

Some of the most popular courses include digital recording, robotics and pathology and molecular medicine.

"Because of the variety, it's drawing students to the program, because they're thinking, 'Oh, I'm not going to have a lot of math geeks around me,'" says Ms. Alban.

But the intent of the program is not, as one might assume, to convince kids to enroll at Queen's.

The university especially wants to encourage attendance by gifted and above-average students who may not be considering university due to financial reasons or because their home environment is not supportive of or accustomed to post-secondary education.

"It's to encourage kids who haven't thought of it before to consider university."

Lise Alban

"It's to encourage kids who haven't thought of it before to consider university," Ms. Alban says, adding these goals are in keeping with a commitment in Queen's strategic plan to broaden student access, regardless of socio-economic status.

After 20 years of offering the program, things have now come full circle, and many of the Queen's students hired to serve

as residence supervisors and activity leaders are graduates of the program themselves.

Enrichment-unit staff work with school boards across Ontario to publicize the program. They encourage teachers to consider the students who may not be top of mind, and who may not have the best marks, but whom they sense have unfulfilled potential.

"We're looking for kids who are showing that bright spark, and perhaps by being in this program, will be motivated to consider university as an option even though that's not the experience at home," says Ms. Alban.

"Our main focus is designed to provide gifted and above-average students the opportunity to delve into a topic at a more challenging level than they would get at school."

But outside of the formal teaching environment, the kids attending E=Mc² also get to live and socialize with other talented youth – an illuminating experience for young people who are often not well understood by their more average peers at home.

"This way they get to meet with 700 kids who are like-minded. It's a great experience

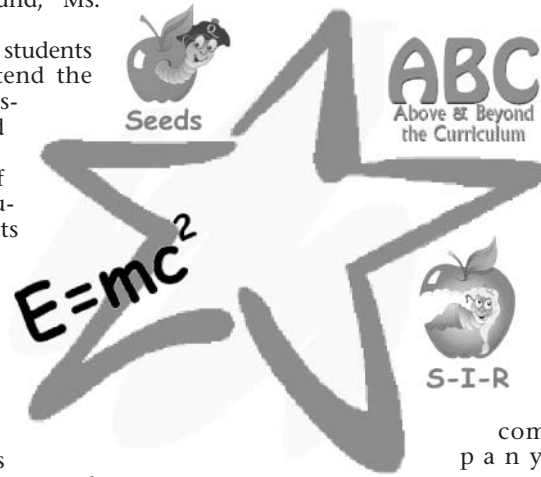
for them all round," Ms. Alban says.

About 1,500 students on average attend the one-week sessions, offered twice each May, at a cost of \$500 per student. Students either pay their own way, are sometimes partially subsidized by their school boards, or can apply for bursaries sponsored by various business and charitable donors.

The enrichment program doesn't receive any direct funding from the university, and must cover all its costs through fees and fund-raising.

It is gearing up to more actively recruit sponsors. Much of it currently happens through word of mouth.

This was the case for the new EDS-sponsored bursaries for the unit's SEEDS program, a similar enrichment program offered over three days for Grade 7 and 8 students. One parent, who worked for the technology-services



company, was so impressed with his daughter's experience in the program that he approached Queen's about sponsoring some students. The EDS bursaries are designated for girls enrolling in the program's science courses.

"I think we've been Queen's best kept secret," says Ms. Alban. "Even a lot of people from Queen's don't know about us."

The Enrichment Studies unit also runs the ABCs program for students in Grade 4 and 5.

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VIEWPOINT

CELIA RUSSELL



So long, Jock Harty; a building full of memories

When compared to campus gems such as Ontario, Gordon, Goodes, or Chernoff halls, there's not much to say about the Jock Harty Arena. It's rather bland, boring and architecturally insignificant.

The building, at the corner of Union and Division streets, will be torn down in June to make way for the new home of the School of Kinesiology and Health Studies, part of the new Queen's Centre.

In the Jock Harty's case, however, it's important to remember the old adage that beauty is only skin deep. What's inside – or more aptly what has taken place inside its concrete walls over the last 37 years – is what makes this building significant.

Former Governor-General Jeanne Sauv  (1986), former Prime Minister Jean Chr tien (2004), pianist Oscar Peterson (1976), opera singer Ben Heppner (2006), Nobel-Prize-winning chemist John Polanyi (1992), prominent alumni, including Governor of the Bank of Canada David Dodge (2002) and countless others – humanitarians, artists, scientists, from all walks of life who have made a difference in the world, have received honorary doctorates at spring convocations.

For hundreds of thousands of students over the years, it's the first big building on campus they enter, to be welcomed as a lifetime member of the Queen's community. It's also the last they leave upon graduation.

Over the years, the arena has been the place to register for first-year classes, meandering for what seems like hours through a maze of desks with section numbers posted on poles. In recent years, it's been the site of the Welcome Ceremony for new students.

As students settle into life at Queen's, it's a place where many go to burn off some energy – skating for fun, or running around in circles on the 200-metre practice track, high above the ice surface. Others skate in intercollegiate competitions, hockey, figure and synchro. And more come to watch and cheer them on.

Sweating has been a big part of the student Jock Harty experience, not only in athletic pursuits on the ice and on the track.

There's the sweat you feel during the Welcome Ceremony when it sinks in that, for the first time, you're at a new school in a strange place 500 miles away from your family and friends and you don't know a soul; the sweat a few months down the road when you're dancing with your new buddies to a band that is playing so loud that you can't hear yourself think; the cold sweat when you realize that your final exams all take place in a five-day stretch in the arena with several hundred other people when you've never written a test in a space larger than a classroom; and the sweat from nerves – or more likely the June heat – when you're waiting your turn in your best clothes and graduation gown to be awarded your Queen's diploma and before heading out into the big, wide "real" world.



PETER ANDERSEN

The author and Boo-Hoo at Rock the Jock.

As I stepped onto the ice to skate for the last time at the April 14 Rock the Jock celebrations, I thought about the events, landmark or otherwise, in my own life that have taken place inside the Jock Harty, as a Kingston youngster, a student and now as a staff member.

I started running around that track at 14, and trained on it later during one inauspicious year as a member of the Queen's Track Team. Later, one summer, with a group of friends I waltzed (crash course, lots of fun) – in period costume – with one of the dashing guardsmen of the Fort Henry Guard, accompanied by the Kingston Symphony, since the event had been rained out at the fort. I convoked in the Jock Harty, headed out on a career that would some years later, bring me back to Queen's to work – and to run round and round the track again, in attempts to keep fit.

When the arena was the venue for the 1995 Provincial Men's Curling Championships, hosted by the Royal Kingston Curling Club, we members got to try curling on arena ice. A few days later, I sang the national anthem in the opening ceremonies. Then, with thousands of others, I got to watch world-class curlers play – among them current world champion Glenn Howard and his brother Russ.

The running track, however, has been my favourite arena destination. I can't begin to speculate on the number of kilometres I've clocked over the years, and I'm sure others could share similar stories. Until the new fitness facility in the Queen's Centre is constructed, it will be the track that I will miss the most, particularly during the winter months. To the track regulars, Laura, Jenny, Eric, Brian, Chris and others – it's been a great journey. So long, Jock Harty; you've been a building full of memories.

Celia Russell is the editor of the Queen's Gazette.

QUEEN'S FLASHBACK: 1917



QUEEN'S UNIVERSITY ARCHIVES

These Intercollegiate Hockey Champions of 90 years ago would have likely played on natural ice, as the first Jock Harty Arena was not constructed on Arch Street until 1921. After burning down in 1924, it was replaced later that year with a second arena behind Miller Hall. The third Jock Harty Arena opened on Union Street at Division in 1970. It will be torn down to make way for the Queen's Centre this summer.

The perennial question: Where did that year go (again)?

For just a day or two after the students leave in mid-April at the end of another academic year, Herstmonceux Castle, rather like an aged but wonderfully benign grandparent, seems to breathe out quietly a slow, reflective and contented sigh of relief, as it bathes gratefully once more in recuperative spring warmth and the necessary balm of re-discovered solitude...

Of course, before too long, inevitably and happily, and still like that aged grandparent, the renewed desire – indeed need – for the life-giving vitality of the next cohort of young people begins to flow again. The spring term will follow swiftly, before the end of the month, and again infuse the castle with yet another enchanted dosage of passion and energy...

But it is in the interval and relative calm between such cycles, before one is taken up fully with the as yet unknown new arrivals, that there is the blessed opportunity to linger quietly once more on the castle journey of those who have just left – the Class of 2007.

They were a very good group in so very many ways: participating willingly in so much, both on campus and off; independently-minded, but respectful of both process and people; immensely talented and generous, not only in the classroom as so many faculty attested, but also



DAVID BEVAN

Notes From Herstmonceux

in extra-curricular music, theatre, photography, sport, community work, etc.

The highlights were many: a student council that grew in enterprise through the year and ran in the winter term, conspicuously, a charity auction that raised more than \$2,500; a student newspaper, *The Keep*, that was not only undoubtedly the most comprehensive and provocative attempted over the last several years, but also the most regular!

There was, too, a wonderfully produced and presented contribution to the world-wide "Vagina Monologues" tradition; the emotional student participation in Isabel Bader's exquisitely tearful, joyful 80th birthday; a chamber choir performance in historic Arundel Cathedral recorded on DVD; an outstanding first-year dramatic presentation of

The Trojan Women, which completely transformed the usually elegant International Study Centre (ISC) Conference Room with imported boulders, stones, tree-trunks, earth, tents and campfires – much to the very understandable concern of our operations director.

And did they travel! Not only on the ISC-organized field studies and trips all over the UK and into Europe, but also on independently-organized visits to just about every European – and even African – city serviced by Easyjet or Ryanair: St Patrick's Day in Dublin; tea with Berbers in Morocco; pasta in Rome; haggling in Tunisia; beer in Prague, still more beer in Berlin and Brussels, and just about everything in Amsterdam... all put down, plausibly of course, to cultural discovery within the framework of an international study abroad experience. And why not?!

The Class of 2007 was very busy, very energetic; they soaked up every informative and transformative opportunity they could find here. They have undoubtedly added their pieces to the remarkable history and life of this magical place... It just still needs, as always, another day or two to embrace fully that perspective...

David Bevan is executive director of Queen's International Study Centre at Herstmonceux Castle in East Sussex, Great Britain.

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 750 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.

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 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.

Steenbock's legacy: More than Vitamin D-fortified milk

Recently, I came across an article on the CBC website highlighting newly emerging beneficial effects of Vitamin D. I could not help but reflect on the remarkable past of this magnificent molecule, which not only has an extensive history, but which also formed the basis of my own research career.

In 1972, I was privileged to pursue a postdoctoral fellowship at the University of Wisconsin-Madison in the laboratory of Hector DeLuca, one of the world's foremost experts in this field. It was Dr. DeLuca who, in the late 1960s, heralded the modern era of Vitamin D research by isolating and identifying the important metabolites of Vitamin D, and then synthesizing and clinically applying the drug form. He patented his discoveries through the Wisconsin Alumni Research Foundation, better known as WARF, arguably the oldest technology transfer office in the world.

Dr. DeLuca's decision to patent was rooted in both historical and deeply personal factors. He was the final graduate student of Harry Steenbock, whose own discoveries of the importance of ultraviolet light in Vitamin D production in food in 1923 led to the establishment of WARF.

Although Professor Steenbock was offered close to \$1 million U.S. by the Quaker Oats Company for the exclusive rights to use his invention, he strongly believed that he should turn the profits from his work back to UW-Madison to support scientific research. Through the foundation of the patent management structure embodied by WARF in 1925, he was able to realize this dream.

Professor Steenbock's decision to patent had other profound impacts as well. Not only did humankind benefit from Vitamin D-fortified foods, his discovery also resulted in the virtual eradication of rickets, a bone-



GLENVILLE JONES

'TEQ Talk

weakening disease caused by Vitamin D deficiency, in many parts of the world.

Fast-forward 20 years to the early 1940s, when Karl Paul Link discovered coumarin, an anticoagulant (and blockbuster patent) used in clinical medicine but developed as the rodenticide Warfarin, making WARF a household name. Fast-forward another 20 years and we come to Hector DeLuca and his Vitamin D metabolite and Vitamin D analog discoveries, helping millions around the world suffering from bone and mineral diseases.

In these generations of discoveries, you can see an accepted pattern that has now extended for more than 80 years. As Harry Steenbock had hoped, his legacy of supporting research continues: Since its inception, WARF has processed than 5,200 inventions and been issued more than 1,600 U.S. patents. It has also donated \$860 million U.S. to the University of Wisconsin-Madison to fund research programs and initiatives.

It is worth noting that over that same period, the University of Wisconsin grew from an agricultural college to one of the leading academic institutions in the U.S., with eight Nobel laureates, including two in the biomedical field.

It is not difficult to appreciate that Dr. Steenbock's decision to establish a structure such as WARF benefited not just a small

group of researchers involved in Vitamin D research, but directly helped all researchers in the university, as well as generations of humankind. Today the University of Wisconsin-Madison continues to excel, with a plethora of spin-off companies fostered by the research encouraged by WARF.

The personal postscript to this story is that I, too, learned from those years with Hector DeLuca by patenting inventions in the vitamin field with WARF, and later with PARTEQ. The Queen's spin-off company Cytochroma, Inc., formed in 1996 by John Molloy, Martin Petkovich and me, has been a further extension of this commercialization approach.

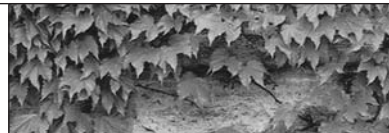
Cytochroma has developed promising retinoid and Vitamin D drugs with potential in dermatological conditions, and is also pursuing Vitamin D compounds in chronic kidney disease, making it uniquely positioned to address the newly emerging areas of benefit identified on the CBC website.

Though your parents told you that the sunshine vitamin is essential for bones and teeth, new research is showing it to offer much more than that, with health benefits in cancer prevention, in skin health, and in maintaining a healthy immune system.

I feel that commercialization of my research has been a worthwhile enterprise with the potential to benefit many, including Queen's University, the wider Canadian community and hopefully humans around the world. As Harry Steenbock and WARF have shown us, research commercialization benefits all of us.

Glen Jones is Craine Professor and Head, Department of Biochemistry and an internationally respected researcher in the field of nutrition, metabolism and Vitamin D.

UNIVERSITY ROUNDUP



Students take energy high road

Students at the University of Guelph have approved a \$10 levee to fund projects ranging from lighting and heating to water efficiency and retrofitting. The university has agreed to match the \$4.3 million in levees for a total of \$8.6 million over 12 years. The Ontario Power Authority's Conservation Bureau recognized the undergraduate students for their initiative to improve energy efficiency by presenting them with a Certificate of Recognition. This announcement comes on the heels of a vote ending their exclusive beverage contract with Coca-Cola and approving the use of more expensive, chicken-friendly free-range eggs on campus.

Guelph Mercury, April 11

New farm raises stink with neighbours

Texas State University will build a 17-acre "body farm" for studying decomposing corpses near the city limits of San Marcos, Tex., despite the complaints of nearby residents. The outdoor field lab will help determine time and manner of death as well as the victim's identity by allowing investigators to analyze the crime scene. The property will be surrounded by a 10-foot-high fence topped with razor wire, and a 70-foot-wide grass buffer that will absorb rain runoff. But residents aren't crazy about the idea of dead bodies lying around in their neighbourhoods – buried or not.

Chronicle of Higher Education, April 13

Helicopter parents invade campus

They hand out their children's resumes at career fairs, accompany them to job interviews and make interview call-backs when their kids don't make the cut. They're hyper-involved and over-protective and have earned the title "helicopter parents." They've been hovering over their post-secondary offspring since 2002, but students don't seem to mind. According to national and provincial surveys students report that their parents are highly influential (first or second) in their career preparations.

The Globe & Mail, April 4

A new twist on reality TV

Thousands of Indian students will compete for scholarships at five British universities on a reality TV show this summer. Contestants, who will be screened to ensure they meet the universities' strict academic requirements, will perform a series of tests, quizzes and competitive tasks devised by university academics. Scholarships to Leeds, Sheffield, Cardiff and Middlesex are being funded and offered by the universities themselves while the program is being sponsored by Indian mobile phone firm Airtel. According to Middlesex University's deputy vice-chancellor Terry Butland, "it will give Indian young people the chance of a lifetime. It's worthy, in a way that reality TV shows ought to be."

BBC News, April 16

Get your Morning MBA at Rotman

Toronto's Rotman School of Management has found a solution for those who are looking for a complete MBA experience without sacrificing their professional or personal lives. The Morning MBA offers classes on Tuesday and Thursday mornings from 7 to 8:59 am. According to the school, this is a global scheduling first. The three-year program will accommodate 65 students, with another 65 in an evening stream, starting in September 2007. Students in the Rotman Morning MBA are also required to complete five week-long courses during their three years of study.

University of Toronto website, April 9

Podcasting comes to Ryerson

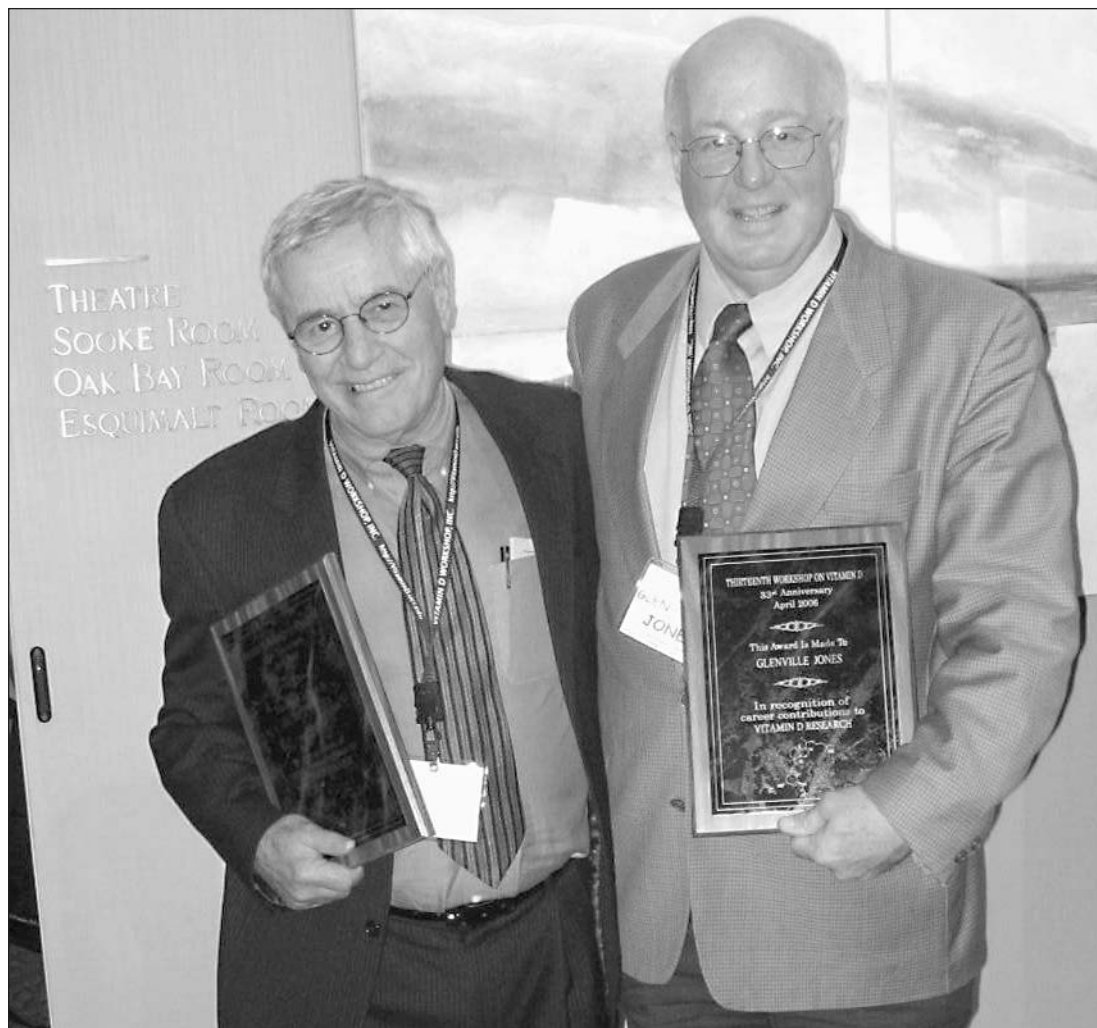
Ryerson University has become the first in Canada to develop in-house, fully automated lecture podcasting technology. Professors can now record and post their lectures online including video, audio and presentation slides. With just a few clicks of a mouse, students are able to watch the lectures online or download them for later viewing on portable media players such as iPods. Commuter students are finding this technology particularly interesting because they can review lectures while traveling to and from campus.

Ryerson University website, April 17

Tuition shrinks at UPEI

With students across the country lobbying to freeze or lower tuition fees at their respective universities, University of Prince Edward Island students will see theirs fall by 10 per cent. As a result of the recent provincial budget, undergraduate tuition will decrease and the value of Island Student Awards and enhanced funding for student loans and income tax deductions for higher education will increase. "These commitments mean that UPEI will be an even more attractive value proposition for students, and that higher education is a clear winner in this budget," says UPEI President Wade MacLauchlan.

University of Prince Edward Island website, April 11



COURTESY OF PARTEQ INNOVATIONS

Hector DeLuca and Glenville Jones at the 13th Vitamin D Workshop in Victoria, BC, April 2006.

IN BRIEF

Electroporation technology sponsored

A technology developed at Queen's for studying the cell processes that lead to disease has received \$45,000 in development funding from the Ontario Centres of Excellence Market Readiness Program.

The technology, known as adherent cell electroporation, builds on an earlier, patented electroporation method and device developed by Lena Raptis (Microbiology and Immunology).

The engineering design of Kevin Firth from ASK Science Products Inc., a Kingston-based start-up company, brought the idea to fruition. Now used by more than 50 labs worldwide, the original technology has generated more than 35 scholarly publications in top journals.

Dr. Raptis and Mr. Firth have since developed a simpler, less expensive version of their device that lends itself to automation and scale-up for use in research and drug development. The new technology will be actively marketed by ASK in collaboration with U.K.-based Cell Projects Ltd., a user of the researchers' earlier electroporation device.

Narbonne down under

Paleontologist Guy Narbonne's (Geological Sciences and Geological Engineering) interview about his research with the Australian Broadcasting Commission (ABC) will be re-broadcast in Canada as part of a scientific collaboration between the two countries.

In the first joint production of ABC Radio's "The Science Show" and its Canadian equivalent, CBC Radio's "Quirks and Quarks", the hosts of each program will speak with six leading scientists from the other country. Dr. Narbonne's interview focuses on his fossil discovery at Newfoundland's Mistaken Point of soft-bodied organisms from the Ediacara period: the oldest animals in Earth's history.

The Australian interviews will be replayed on Quirks and Quarks on Saturday April 28, between noon and 1pm. They are also posted on the ABC web site at www.abc.net.au/rn/scienceshow/stories/2007/1895563.htm

Beyak wins AGA award

Gastroenterologist Michael Beyak has been named one of eight 2007 American Gastroenterological Association (AGA) Foundation's Research Scholars – the only Canadian in the group to receive this prestigious award. Dr. Beyak will receive a total of \$225,000 to help support his research over the next three years. His research investigates ion channels and the underlying actions of the satiety Hormone CCK on Gastrointestinal Vagal Afferents.

The award is designed to guarantee the continuation of strong science through the support of young physician researchers and ultimately to improve patient care through digestive diseases research. Since 1984, the AGA has awarded more than \$19 million to fund 148 Research Scholars, and has provided a total of \$30 million in grant funding.

Student aims to clean up with PhD

CWE SPONSORS RESEARCH ON OCEAN GARBAGE AND HEALTH OF CORAL REEFS

By NANCY DORRANCE

Civil Engineering graduate student Bryson Robertson has a unique and potentially life-altering plan for pursuing his PhD. Over the next three years, he will sail around the world to study ocean garbage and the health of coral reefs, documenting among other things the huge amount of debris that washes up daily on even the most remote beaches.



COURTESY OF BRYSON ROBERTSON
Bryson Robertson

Called the OceanGybe Global Research and Outreach Expedition, it will be a multi-year research project conducted through Queen's Centre for Water and the Environment (CWE). As well as documenting and recording the effects of marine pollution, Mr. Robertson will use scientific principles and ocean modeling research tools to study the effects of ocean bathymetry (the oceanic equivalent of topography) on the breaking characteristics of ocean swells.

His goal, along with fellow ocean and surfing enthusiast

Hugh Patterson, is to raise public awareness about the deteriorating state of the world's coastlines, and to generate action toward creating a more sustainable future.

The environmentally-minded adventurers leave for La Paz, Mexico at the end of April where they will spend two months preparing their 40-foot boat, Khulula (Zulu for "freedom"). The sail date will be announced on their website.

"Our voyage will take us through every major ocean on Earth, to some of the most pristine and untouched coasts, but also to some of the most heavily polluted and destroyed ocean environments," says Mr. Robertson, noting that one area they have targeted is the Great Pacific Gyre: an enormous floating garbage dump about the size of Alberta, that is largely made up of plastics.

"By identifying and displaying the vast effects that pollution has on our oceans, and on those who rely upon the ocean for their livelihood, we hope people will start to realize their personal impact and take more care in how they live their lives on a day-to-day basis," he continues.

Under the direction of Civil Engineering professor Kevin Hall, the students will also use high-tech "hyper spectral" cameras to photograph ocean coral reefs – now under attack from increased pollution and increased ocean temperatures – to accurately map their health in a non-destructive way.

"Field expeditions provide an unparalleled opportunity for students to tackle world scale problems that affect extremely large populations," says Dr. Hall, who is also director of the Centre for Water and the Environment. "This particular research program will provide opportunities to develop innovative methods and protocols to assess human impacts on marine environments."

The work is being sponsored



COURTESY OF BRYSON ROBERTSON

Ocean garbage along the British Columbia coastline

by a number of industrial partners, along with contributions from the centre. The voyage will also be used as an outreach exercise, in which the crew members will provide educational opportunities to school children and interested groups in many small communities along the way.

As well as doing the fieldwork for his PhD requirements, Mr. Robertson plans to regularly update all of the team's findings on their web site and make them available through the media, educational institutions and international research and environmental organizations. He will use "sail mail" (on-board, text-based e-mail) to post information and communicate with participating partners.

"People have dumped garbage and chemicals into our oceans for decades, with no due thought as to where it ends up and who it influences," says Mr. Robertson. "It's time Canadians and international citizens had a complete picture of what they're doing. We hope to inspire them to take better care of their local waters, and to conserve the global waters."

After departing from Mexico in April, the adventurers' route will take them through the South Pacific island chain, making presentations en route at schools and resorts. The first major destination on the three-year epic is New Zealand. Depending upon winds and other boat issues, they hope to arrive there in November.

Queen's awarded first UNESCO Chair

EDUCATION PROF LARRY O'FARRELL IS NEW CHAIR OF ARTS AND LEARNING

By MOLLY KEHOE

The Faculty of Education has been awarded the first Chair in Arts and Learning from UNESCO (United Nations Educational Scientific and Cultural Organization).

The new position opens important doors to internationally recognized collaboration and networking in arts education between Queen's and higher education institutions in developing countries and countries in transition.

As the UNESCO Chair of Arts and Learning, Drama and Arts Education professor Larry O'Farrell leads in the creation of new learning tools and initiatives. These include an international research and development project on e-learning for teacher education in drama and theatre education, a research project for creativity in arts education and a planned web-based symposia. As coordinator of Continuing Teacher Education, he has overseen the implementation of

more than 70 e-courses.

"By establishing a chair in the field of the arts, UNESCO has extended its commitment to promoting the arts in education," says Dr. O'Farrell. "A person who is exposed to the arts at school or in community-based arts

programs has an enhanced opportunity to become a more creative, imaginative, empathetic, confident, self-reliant and critically thinking human being."

The chair is established under the university education twinning and networking scheme

(UNITWIN Program) initiated in 1992. The main participants are universities and research institutions, in partnership with higher education NGOs, foundations, and public and private sector organizations. UNITWIN opens avenues for the higher education community to join forces with UNESCO to achieve the objectives of the global agenda.

"I am delighted that Prof. O'Farrell has been awarded this prestigious UNESCO Chair," says LeRoy Whitehead, associate dean of the Faculty of Education. "The Faculty has been a strong advocate for arts education, and the award of this chair honours not only a member of our teaching staff but also recognizes our commitment to the arts as being fundamental in education."

"Through his achievements, Larry O'Farrell has demonstrated that arts education can often be a stimulus to the teaching and learning process, therefore making learning more effective because it is more accessible," says David Walden, secretary-general of the Canadian Commission for UNESCO. "I trust that in his capacity as Queen's UNESCO Chair of Arts and Learning, his efforts will serve as a guide to us all."
educ.queensu.ca/unesco



JILLIAN LEMIEUX

Drama and Arts Education professor Larry O'Farrell chats with students Rebecca Jess, Marsh Cobden and Sheila Mooney.

Assessing stroke patients robotically

By NANCY DORRANCE

Researchers at Queen's and Providence Continuing Care Centre (PCCC) are testing a robotic tool – designed and invented by Anatomy and Cell Biology professor Stephen Scott – to determine if it can assess neurological and motor functioning of stroke patients more accurately than traditional methods.

Team members hope the new device will improve assessment and treatment of stroke patients, leading to faster and more effective rehabilitation and recovery.

Called KINARM (Kinseological Instrument for Normal and Altered Reaching Movement), it is the only device of its kind that measures multi-joint movement at the shoulder, elbow and hand, leading to new findings about how the brain coordinates limb movements.

Also on the research team are: fourth-year resident Sean Dukelow and clinical leader Stephen Bagg (both from Physical Medicine and Rehabilitation); Kathleen Norman (Rehabilitation Therapy); and Janice Glasgow (Computer Science).

"Preliminary results show that the KINARM is more sensitive in studying reaching movements than traditional clinical measures and may also be useful as a therapeutic tool," says Dr. Dukelow. "We hope that in the future it will be used routinely to assess and treat patients after a stroke to find out if they can re-learn and optimize recovery."

A stroke is the sudden loss of brain function caused by the interruption of blood flow to the



Fourth-year resident Sean Dukelow (Physical Medicine and Rehabilitation) aligns the shoulder joint of physiotherapist Mary Jo Demers to new KINARM robotic device.

brain or the rupture of blood vessels in the brain. The effects of stroke depend on where the brain was injured as well as how much damage has occurred. A stroke can impact the ability to move, see, speak, read, write, reason and remember.

Stroke patients undergo a detailed testing of cognitive abilities and neuromuscular function to determine the extent and exact location of damage in the brain.

This allows clinicians to tailor rehabilitation and physiotherapy

based on the needs of individual patients. The faster a patient can begin rehabilitation and physiotherapy, the better the chances of recovery.

Funded by the Canadian Institutes of Health Research (CIHR) and DiMedix, a medical

education company, the collaborative project has assessed about 26 stroke patients over the past 18 months. St. Mary's of the Lake Hospital admits about 80 stroke patients to the stroke rehab program annually.

Remarkable SNOmen win Benjamin Franklin Medal

ALBERT EINSTEIN,
ALEXANDER GRAHAM
BELL AMONG PAST
RECIPIENTS OF AWARD

By NANCY DORRANCE

Astrophysicist Art McDonald and his team of scientific sleuths from the Sudbury Neutrino Observatory (SNO) have won another prestigious international award for their groundbreaking discoveries about the nature of matter and the structure of the universe.

This week at a gala ceremony in Philadelphia, Dr. McDonald will receive the 2007 Benjamin Franklin Medal in Physics, with co-winner Yoji Totsuka from the University of Tokyo, for "the discovery that neutrinos change

flavour and have mass." The Franklin Institute Awards Program honours scientists, innovators and entrepreneurs who have made extraordinary scientific achievements, benefited humanity, advanced science, launched new fields of inquiry and increased the understanding of the universe.

Past winners of these medals – which date back to 1824 – include Albert Einstein, Alexander Graham Bell, Marie and Pierre Curie, and Orville Wright. More than 100 Franklin Institute Laureates have gone on to receive Nobel Prizes.

"This is an outstanding international recognition for SNO Director Art McDonald and the whole SNO Project team," says Vice-Principal (Research) Kerry Rowe. "The Franklin Institute Awards are among the world's

oldest and most prestigious comprehensive science awards, with laureates representing some of the most distinguished scientific achievements of the past 180 years."

Dr. McDonald and the SNO team solved the 30-year-old puzzle of the "missing solar neutrinos" in their underground laboratory two kilometres below the surface of CVRD-INCO's Creighton Mine in Sudbury, Ontario. Their discovery that neutrinos (sub-atomic particles considered the basic building blocks of the universe) change from one type to another on their journey to Earth from the Sun modifies the long-held Standard Model of particle physics, and was designated as one of the most important scientific breakthroughs in the world in 2001 by the journal *Science*.

In 2006 the SNO team members were the first recipients of the John C. Polanyi Award for outstanding scientific achievement. Dr. McDonald is the Gordon and Patricia Gray Chair in Particle Astrophysics at Queen's, an Officer of the Order of Canada, and past recipient of the Gerhard Herzberg Gold Medal from NSERC Canada, the Tom W. Bonner Prize in Nuclear Physics from the American Physical Society, and the Bruno Pontecorvo Prize from Russia.

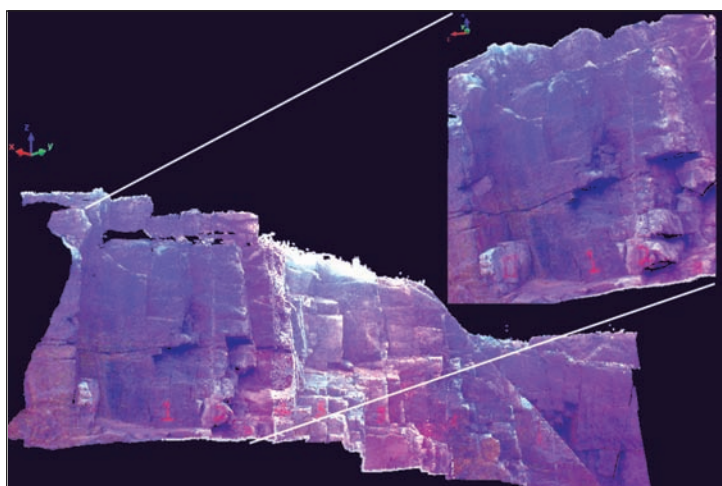
The SNO team includes more than 150 scientists from Queen's, Carleton, Laurentian and Oxford Universities; the Universities of Guelph, British Columbia, Pennsylvania, Washington and Texas; TRIUMF, Berkeley, Los Alamos and Brookhaven National Laboratories and LIP, Lisbon.

"I accept the Franklin Medal

on behalf of the entire SNO team," says Dr. McDonald. "This has been a tremendous collaborative effort over many years. Our success has arisen from the combined talents and hard work of many colleagues and from the tremendous support that we have received from our many international partners."

Many of the Canadian SNO scientists are involved in the development of the new SNO-LAB international underground science laboratory. This new facility will provide opportunities for very sensitive future measurements of Dark Matter particles thought to make up about 25 per cent of the Universe, as well as other frontier measurements of neutrino properties made possible by eliminating almost all sources of radioactive background.

New 3-D scanner helps move geology research forward



MATT LATO

This image is a full-3D model that can be rotated and manipulated.

A new laser scanning device in the Department of Geological Sciences and Geological Engineering will enable researchers to scan potentially unstable cliff faces and complex scarps, profile tunnel walls and faces during mining excavation, and assist with studies of urban infrastructure.

Funded by an equipment grant from the Natural Sciences and Engineering Research Council (NSERC), the new device creates a full three-dimensional model of the scene being surveyed, explains grant recipient Mark Diederich.

"Multiple scans can be merged to create highly complex virtual scapes that can be

visualized, measured and manipulated through sophisticated computer software."

With colleague Jean Hutchinson, also of Geological Sciences and Geological Engineering, Dr. Diederich is involved in rock system characterization and monitoring for geotechnical applications on the surface and underground. They will use the scanner to measure geological structure, geometric parameters, rates of movement and subtle changes from survey to survey over time.

The portable high-speed unit is ideal for scanning adjacent to roads, railway lines and sites constrained by extreme topography, including cliff faces and river

canyons. The equipment will also be used to profile tunnel walls and faces during excavation by mining and by tunnel boring machines, they note. "The speed, accuracy and portability of this system is essential for the logistically demanding environment."

Rob Harrap of the Queen's Geographic Information Systems (GIS) Laboratory will also use this equipment as part of his research on urban infrastructure. Scan-based projects showing how buildings change with time, and how highly accurate models can be used in applications such as Google Earth, will be carried out by undergraduate and graduate students.

IN BRIEF

Getting more out of clinical supervision

Michael Ellis of SUNY Albany will lead a workshop on Thursday, April 26 entitled *Courageous Supervisees: Getting More Out of Clinical Supervision*. Presented by the Department of Psychology, it takes place in 1102 Biosciences from 7 to 8:30 pm.

All are invited. An expert in the field of clinical supervision, Dr. Ellis is the founder and chair of the Supervision and Training Section of APA and has authored numerous peer-reviewed articles and book chapters pertaining to clinical supervision.

Details: Marjory Phillips, phillipm@post.queensu.ca

Nominate a great supervisor

Here is your chance to recognize the work of those who help guide graduate students through their training while at Queen's. The call for nominations for the 2007 Award for Excellence in Graduate Supervision is out, and the deadline for submissions is Monday, April 30, 2007 at 4:30 pm.

The award recognizes those outstanding supervisors who demonstrate excellence in advising, monitoring and mentoring graduate students through their training.

For details, visit <http://www.queensu.ca/sgsr/> then click Announcements.

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To inform us of your latest research findings or upcoming journal publications, call Senior Communications Officer Nancy Dorrance, 613-533-2869, or Communications Coordinator Lorinda Peterson, 613-533-3234.

Experts address the Canadian "doctor drain," labour relations and team building in the workplace

QUEEN'S IN THE NEWS

Highlights of Queen's experts in the media

■ April 3 - 16

Walter Rosser (Family Medicine) comments in the *Globe and Mail*, *Toronto Star*, *Ottawa Citizen*, *Edmonton Journal*, *Halifax Daily News*, *Calgary Herald*, and on *CBC-Radio's Ontario Today* and *cbc.ca* about his study that suggests one in nine doctors trained in Canada are practicing medicine in the United States.

Labour relations expert **Rob Hickey** (Policy Studies) comments in the *National Post* about the actions of the union representing employees with the *Canadian National Railway Co.*

Shawna O'Grady (Business) continues to comment about the benefits of team building sessions for hi-tech start-up companies, most recently in the *National Post*.

Marketing expert **Ken Wong** (Business) comments in the *National Post* about the market position of Proctor and Gamble. He also comments in the *Vancouver Province* about Wal-Mart's price-cutting game.

Steve Salterio (Business) comments in the *Toronto Star* about the recent merger between Grant Thornton LLP and BDO Dunwoody LLP.

Obesity expert **Ian Janssen** (Kinesiology and Health Studies) comments about guidelines on



Baillie



Bland



Brock



Franks



Janssen



O'Grady



Plinius



Raptis



Ross



Salterio

obesity and being overweight in a *Canadian Press* story picked up by a number of daily publications, including the *Kingston Whig-Standard* and *St. Catharines Standard*, and on *cbc.ca*.

Emeritus professor **Ned Franks's** (Political Studies) expertise on the *Federal Accountability Act* generates coverage in the *Ottawa Citizen*.

E-marketing expert **John Plinius** (Business) comments in the *Ottawa Citizen* about the benefits of on-line social corporate networks.

Emeritus professor **Hugh Thorburn's** (Political Studies) opinion piece on electoral reform in Ontario is published in the *Ottawa Citizen*.

Caroline-Isabelle Caron and **Lise Robichaud** (History) receive coverage in the *Halifax Daily News*, *Edmonton Sun* and *Prince George Citizen* for their program that teaches elementary

students about history through the use of unsolved historic Canadian mysteries.

Tom Courchene's (Policy Studies) comments from a public policy panel discussion entitled "The New Alberta: A New Canada?" are highlighted in the *Edmonton Journal*.

Roel Vertegaal's (Computing) research that suggests there is a correlation between the amount of eye contact people receive in a group and their degree of participation is featured in the *Regina Leader-Post*.

Elsbeth Christie (Health, Counselling and Disability Services) discusses exam stress and learning strategies for college and university students on *CBC-Radio's Ontario Morning*.

Caroline Baillie (Chemical Engineering) addresses the environmental issue of banning plastic bags in the *Kingston Whig-Standard*.

Kathy Brock (Policy Studies) comments in the *Kingston Whig-Standard* about campaign spending.

Emeritus professor **Adele Crowder** (Biology) comments in the *Kingston Whig-Standard* about the city's environmentally sensitive wetlands.

Doug Bland (Policy Studies) comments in the *Kingston Whig-Standard* about the types of offensives being used against NATO troops in Afghanistan.

Kevin Hall (Civil Engineering) comments on the front page of the *Kingston Whig-Standard* about a student voyage that will study the effects of waterborne garbage across the world's oceans.

Jonathan Rose's (Political Studies) expertise in electoral reform is highlighted in the *Kingston Whig-Standard*.

Leda Raptis (Microbiology and Immunology) receives coverage in the *Kingston Whig-Standard* for research that studies the cell process that leads to disease.

Robert Ross (Kinesiology and Health Studies) discusses waist circumference and its role in predicting health risks on *CKWS-TV*.

CANADIAN CLUB OF KINGSTON

Luncheon: noon, Thursday, May 10
"Torture, Secrecy, and the Rule of Law"
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The work of Queen's makes an impact on the world. The support of our staff, faculty and retirees makes it possible.

Our voting system is past its prime

FIRST-PAST-THE-POST BECAME OBSOLETE IN ONTARIO DECADES AGO. WE SHOULD SERIOUSLY CONSIDER THE ALTERNATIVES

The Ontario government's Citizens' Assembly on Electoral Reform is set to report shortly, and is expected to recommend a major reformation of the way we vote.

The citizens' assembly had to consider the values we want the system to enhance and protect:

- obviously we want it to be democratic, so it must give all citizens the vote, and these votes should have equal weight;
- it should be fair, so that it does not give some voters advantages over others;
- it should be efficient, so that it produces results that facilitate the formation of effective, democratic governments;
- it should be adapted to the peculiarities and problems of the Ontario population, and respect the tradition of parliamentary government.

These are obvious criteria, and in seeking to implement them it may be difficult to avoid likely contradictions. Fairness may not easily be reconciled with efficiency; so the assembly has had a difficult task.

We have the same first-past-the-post (FPTP) system that we have had since well before Confederation, and there have been many changes in our society. So is FPTP still suitable?

From Confederation up until 1943 there were only two parties of any real importance in the Ontario legislature. During a surge of discontent following the First World War, the United Farmers won a minority government, but then the alternation of the two old parties resumed: Conservatives to 1934, Liberals to 1943, then a long period of Conservative rule began and continued until the mid-1980s.

However, this was the period when a change in party support began. The Co-operative Commonwealth Federation, now the NDP, a social-democratic party espousing the causes of workers and farmers, appeared in strength during the Second World War, forming the official opposition to the Conservative government, with 34 seats to the government's 38.

Ontario has had a three-party system ever since, but majority governments generally prevailed until 1975, when minority governments became common: 1975-1977, 1977-1981 and 1985-1987. People began to question the suitability of FPTP as governments were being elected with a minority of the popular vote, and sometimes with fewer votes than the official opposition. FPTP was becoming unfair, given the new multiple-party system.

Also, recently we have seen the policies implemented by one government party cancelled and contradicted by succeeding governments. The 1990 NDP victory saw the implementation of many left-wing policies later reversed by the Mike Harris Conservatives when tax cuts became the predominant policy. This occurred although both governments were elected by a minority of voters. In fact no government now is ever elected by a popular majority.

This situation is replicated at the federal level, so there is reason

to infer that the popular discontent is being reflected in the decline of voter turnout at both levels.

Yet there is a strong bias among citizens generally and also among political elites for strong one-party government. This is unattainable at the level of the popular vote, and is now threatened in the legislature as well. So what is to be done? Minority governments are unstable, so if we are to be assured of stable, majority government, then coalitions of two or more parties are required.

This runs contrary to an old belief that coalitions too are unstable. When it is discussed, we hear about Italy, Israel and pre-Hitler Germany. These are indeed cases of extreme instability under proportional representation (PR) — but the reason is too many small and fractious parties in polarized and crisis-ridden societies. Fortunately this is not the case in Ontario. Also if the law requires a minimum percentage of the total vote, say five per cent, to qualify for election to the legislature, these small fractious parties will not be elected.

Most governments in Europe today are coalitions, and most are stable and democratic. Look at the Scandinavian countries, the low countries (Belgium, Holland, and Luxembourg), and Germany. There one finds coalitions and fair, democratic electoral systems. Most employ a form of PR. None has first-past-the-post, and they all have multiple-party systems rather like the one we see evolving in Ontario and across Canada.

In Ontario, the coming of the multiple-party system ended the legitimacy of first-past-the-post. Serious divergences were introduced between the proportion of votes received by parties and their shares of the seats in the legislature. It took time for this to create serious discontent in the electorate, but the disadvantaged parties were well aware of what they saw as undemocratic results.

Governments were elected with substantial majorities of seats, yet none got even half the votes. So it is not surprising that there is now interest in changing the electoral system so that the proportion of seats a party wins is closer to its share of the overall vote in the province.

The wild distortions are recent. In 1985 the Conservatives won more seats with fewer votes than the Liberals. In 1990, the NDP won a strong majority of 74 seats but received only 37.6 per cent of the total vote. In 1995 there was a wild swing to the Conservatives (82 out of 130 seats) but with only



HUGH THORBURN

Expert Outlook

44.8 per cent of votes. This sort of instability and unrepresentativeness persists and appears likely to continue, as the three-party system appears firmly entrenched.

It cannot now be seen as favouring one party, as it did the Conservatives for decades, but it is much more unstable, as the parties (or two of them at least) are more equal in numbers of supporters. Now not only the losers are dissatisfied: so are the winners.

So what is to be done?

The citizens' assembly spent five weekends learning the qualities and details of the various democratic electoral systems with the help of knowledgeable people. After this learning phase, it has been discussing the options and working out a system for Ontario, which it will submit to the government, which in turn will seek the approval of the people by holding a referendum along with the next provincial election on Oct. 10.

While we must await the outcome of this process, it appears that there are really only three options to be considered: the present system of first-past-the-post, mixed-member proportional (MMP), and the single transferable vote (STV), which a B.C. citizens' assembly recommended but did not achieve the supermajority required in a referendum.

The STV system would involve dividing the province into several large multi-member constituencies. Voters would choose their representatives by using numbers, with the first choice shown by the number one, the second by two, and so on.

The counting process is a bit complicated, but this does not affect the voter, who only has to mark the ballot paper with numbers showing preferences instead of a simple X.

The election officials calculate a quota by dividing the number of votes cast by the number of seats. On the first count every candidate with the quota or more of first preference selections is declared elected. Those candidates' surplus votes are transferred to other can-

didates in proportion to the total second preferences declared on those ballots. Then the count of the preferences takes place again and the seats allotted, and so on with the other preferences, until all the seats are filled.

If no candidate is newly elected at each stage, then the lowest-ranking candidate is eliminated and his or her second-preference votes are re-allocated and another ranking taken.

The more likely system is MMP. This is a simple compromise between FPTP and proportional representation. It was devised in Germany to keep the FPTP system — every elector with his own representative from his local area — and a global result providing an allocation of seats more proportional than FPTP alone.

The device is simple: Give the voter two ballots, one for one system and the other for the other. The parliament elected will have part of its members elected by a list system of PR and another part elected by FPTP.

The proportional component is allocated among the parties to give each party the same proportion of seats as indicated by its share of total votes. These seats are filled going down the list of candidates nominated by the parties in the order chosen by them. Therefore a party can decide which candidates are certain to be elected and which have a lower priority. This permits the party to secure the representation of, for example, women and minorities, and also certain specialists or experts it wants in its caucus. Also it is usual to require a party to secure a given percentage of total votes to achieve representation, to

prevent the instability that results from a proliferation of small parties.

Clearly MMP offers both democratic proportionality of representation and the advantage for the citizen of having a single representative for his or her own district. It is a compromise system between FPTP and PR, combining the advantages of both.

It is a more complicated system than the present one, but most of the burden of this complexity is borne by the officials who count the votes. The citizen only has to mark two ballots instead of one. Otherwise it is not inconvenient. So, on balance MMP seems the way to go.

STV and MMP come much closer than FPTP to preserving the values cited above: democracy, fairness, efficiency, and parliamentary tradition. Of the two, only MMP offers the assurance that the proportion of votes cast for a party will produce the same proportion of seats. This appears to be the opinion of the citizens' assembly now considering the matter, so if its supporters are successful in convincing Ontario voters, this could be our new electoral system.

However this is still a doubtful matter, because the government has announced a requirement of 60-per-cent support in the referendum across the province, and 50 per cent support in at least 60 per cent of the ridings before a new system will be adopted. These are high hurdles, so there is a big educating job ahead.

Hugh Thorburn is professor emeritus of political science. This op-ed originally appeared in the April 11 Ottawa Citizen.

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SPRING HAS SPRUNG



CELIA RUSSELL

What a difference a week makes. These students, enjoying lunch on University Avenue last Friday, got to trade in winter coats and boots for tank tops and flip flops.

Web conferencing: the next best thing to being there

In today's busy world, people are interacting with one another in ways they never did 25 years ago. I can remember when Queen's first introduced Qlink as the students' email server. We went from having a couple of hundred email users to having 20,000 email users – almost overnight. For many students it became a lifeline between themselves and their families.

Whether they were across the city, the country, or the world, students could keep in touch with their families and could receive daily updates about what was going on at home. Parents were also quick to adopt this new method of keeping in touch with their children – many of whom were away from home for the first time.

Today, instant messaging is gaining in popularity. Students can carry on a conversation with friends and family without worrying about what geographic region they are in.

Web Conferencing is becoming a common tool as well. It allows multiple people to take part in a meeting – much like a phone conference – over the Internet. With a microphone and speakers plugged into a networked computer, individuals can now take part in a meeting that they would not otherwise be able to attend. While it is still nice to get out of the office from time to time to attend a "real" meeting, there is a great overhead in doing so. To attend a two-hour meeting in a different



NECOLE BRESEE

Plugged In

city involves the cost of travel and accommodations and the time away from the office and family.

To attend a web meeting, you need a computer, a headset with ear phones and a microphone (preferably USB), an internet connection, and the actual time in the meeting. Each person can participate as they would if they were gathered around a boardroom table. They can speak to all the participants, they can hear the other participants, and they can share ideas. They have a "whiteboard" just like in the boardroom, where notes can be taken. They can show presentations, or they can create presentations. And they can save their work ready to share with others.

People who are collaborating on a paper to be presented at a conference can work together in a web meeting discussing the issues, creating the paper and presentation, and then get together at the conference to deliver it.

Web Conferencing has also opened doors allowing students to learn from a distance and to participate in "class" where before these students might not have been able to take a real-time course because of their location. They can attend their class by sitting in front of their computer, listening to their professor speak, ask questions, interact with others taking the class, even answer quizzes.

To help facilitate this emerging technology, ITSservices has begun a six-month pilot of the web conferencing tool Elluminate Live! The pilot will run January 2007 through June 2007 and allows for an unlimited number of seats (participants). For the remainder of 2007 (July through December) we will have 25 seats.

The web conferencing tool will be available for anyone with a valid Queen's account code who is interested in having an online meeting relevant to teaching and learning.

Elluminate Live! has recently introduced a free version of their web conferencing software. It is the same as their regular software but limited to three people or fewer.

If you would like more information on Web Conferencing @ Queen's visit our web page at www.its.queensu.ca/services/web Conferencing

Necole Bresee is a web analyst with Client Services and Communications in ITSservices.

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Jun 6, 16&17	PHANTOM OF THE OPERA (includes dinner)	\$169
Jun 10	NASCAR: Pocono 500	\$199 (VIP \$259)
Jun 10	CIRQUE DU SOLEIL "KOOZA"	\$175
Jun 25-29	Cape Cod, Newport & Boston	\$749
Jun 29-Jul 2	NASCAR: Loudon, NEW HAMPSHIRE	\$689
Jul 26, Aug 11	Chinese Lantern Festival	\$99
Aug 5	NASCAR: Pennsylvania 500	\$199 (VIP \$259)
Aug 20-24	Vermont / New Hampshire	\$799
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Mario Béland, Curator of Historical Art (1850-1900), Musée national des beaux-arts du Québec, will speak about the exhibition. All are welcome.

The exhibition has been organized and circulated by the Musée national des beaux-arts du Québec, a public corporation funded by the Québec Ministry of Culture and Communications. The exhibition is funded under the Department of Canadian Heritage's Museums Assistance Program.

The Art Centre's presentation is supported by the Janet Braide Memorial Fund and the Frances K. Smith Annual Lecture in Canadian Art Fund.

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When good enough just isn't enough

The Principle of Good Enough (POGE) employed by software designers favors the quick and simple over the complex.

No question, this can be a good thing. The World Wide Web is an example of POGE dynamic design. Eric Norlin, in an online article called *The Net's Getting Messy*, succinctly describes POGE as "meant to emphasize the open source tenet that you don't begin a project by over-engineering the end result. Instead, you do what is "Good Enough" and then let things improve over time." However, this model often fails us when applied to the pursuit of high-quality research.

The breakdown occurs when we abbreviate the process and do not "let things improve over time." Perhaps due to lack of time or lack of knowledge of the alternatives some students are submitting work without following through with the best research available. When scholars limit their research to the open web, they neglect the rigorous standards applied to scholarly articles published in peer reviewed journals.

Research from the University of Arkansas on student achievement has shown considerable advantage is gained by students who utilize library subscription databases in their native interface over information freely accessed on the web. This includes articles found via Google Scholar, which although it sources some articles found on the subscribed databases does not represent the entirety of research available to the persistent student researcher. Yes, Google Scholar is easy to use and maybe even Good Enough, but because of its lack of currency and transparency it remains a tool that can separate the B papers from the A's.

It is a maxim that students over-use Google and think they are search experts. After all, they ask, didn't I just get five million hits? Librarians encourage students to question the credibility of these results. The library offers article and indexing services in the core journals, plus librarians able to assist student researchers in picking an appropriate database with guidance in how to use it to greatest effect.

If a student knows where to access the best databases for their subject area, the difference between a legal paraphrase and not, the value of scholarly over popular literature, what "peer-



MARIE CLAIRE VANDENBURG

Library Now

reviewed" means, what is a controlled vocabulary and its impact on searching key databases, which citations style is preferred in the department, how to access subscription databases from home, how to borrow a book from a library in the UK, how to use WorldCat, and RefWorks, then their "Good Enough" is probably at a standard they can stand by proudly when asked if they did your best.

When in doubt, research education is offered in Queen's Libraries. Librarians can assist students to become familiar with the wealth of databases available to researchers, and offer instruction in devising search strategies. Classes held in the fall and winter terms include *Navigating the Library*, *Searching Journal Articles*, *Evaluating Web Information* and *Creating Bibliographies*. All help students create better-informed essays. Ultimately, it is research, critical thinking, and writing skills that distinguish the

quality of one's education.

Just as library reference assistance burgeoned in the late 19th century to serve a newly literate population leaving a life of farming for the industrial world, contemporary academic libraries serve an increasingly technologically literate population whose economy is based not on manufacturing but rather on knowledge. Google is an ideal tool to satisfy many straightforward queries.

However, reference librarians are able to assist student researchers with the more complex questions requiring subject databases for which the library pays dearly. Their knowledge of these resources and their traditional commitment to personal service provide one more valuable resource in a student's quest for excellence at Queen's. Having spoken with a few professors regarding Wikipedia, I can tell you some want an education campaign explaining why it is unacceptable to quote from a source without an acknowledged author, while others are considering automatic failure for any paper in which it is cited as source. The use of tools such as these illustrates a lack of intellectual persistence required by academia. Good Enough research can be the start of a research path but must not be the destination.

Mary Claire Vandenburg is a research and instruction librarian at Stauffer Library.

Inquire within

Good research starts with a curious mind, a question, and a desire to investigate that question using the best resources. Identifying resources and how best to learn from them is part of the self-directed learning students and faculty presented at the first annual *Inquiry@Queen's Undergraduate Research Conference*, March 8-9 at Stauffer Library. The program (www.queensu.ca/iatq/conference.html) gives a sense of the diverse and engaging research questions being posed by undergraduates and the faculty who mentor these students in their investigation.

It is clear from the program Queen's has a varied group of student talent exploring new areas of undergraduate education with innovative faculty willing to guide students in assessing the quality of their inquiry, research and communications. The conference promotes critical, creative thinking and recognizes that conducting research and creating knowledge equip our students for lifelong learning.

Making research a more prominent part of the undergraduate experience for thousands of students can enrich research and teaching on campus. It will require commitment at all levels, creativity, energy, resources and persistence. Take a risk and consider contributing to next year's *Inquiry@Queen's*.

A Memorial Service to remember the life of former Queen's University Chancellor
Agnes McCausland Benidickson
will be conducted by Brian Yealland, University Chaplain
Friday, 4 May, 5 p.m.
Grant Hall

Reception to follow at
Agnes Etherington Art Centre
University Avenue at Bader Lane

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Bulletin Board

Submission information

Please note that appointment submissions will be edited to address style considerations and length. Submissions should be a maximum of 200 words.

Appointments

Kenneth Rose appointed Associate Dean, Life Sciences and Biochemistry

Principal Karen Hitchcock announces the appointment of Ken Rose as associate dean, Department of Life Sciences and Biochemistry for a five-year term commencing July 1, 2007. After receiving his PhD from Queen's in 1974, Dr. Rose completed two years of postdoctoral training at the University of Edinburgh. He returned to Queen's in 1976 as an MRC Scholar and Assistant Professor of Physiology. He served as Acting Head of Physiology from 1997 to 1998. Dr. Rose has been involved in the development of several courses in cell physiology and neuroscience at the undergraduate and graduate levels. He currently chairs the Education and Training Committee for the Centre for Neuroscience Studies, and from 2001 to 2003 he was President of the Canadian Association for Neuroscience. He has built a multi-disciplinary research program devoted to unraveling the computational properties of neurons involved in the control of movement and the changes in these properties caused by spinal cord injury. Principal Hitchcock thanks William Racz for his outstanding contributions to the Faculty and University during his appointment as associate dean, Life Sciences.

Awards and Grants

Honorary degree nominations for 2008

The Senate Committee on Honorary Degrees invites nominations for the award of honorary degree at the 2008 Convocations. Information and nomination forms are available at <http://www.queensu.ca/secretariat/HonDegre.html> Deadline: Friday, Aug. 10.

Award for Excellence in Graduate Supervision

Nominations are invited for the 2007 Award for Excellence in Graduate Supervision, recognizing outstanding supervisors who demonstrate excellence in advising, monitoring and mentoring graduate students through their training. Excellence is judged on the quality of supervision and mentorship in facilitating the acquisition of skills and resources needed for students to succeed as scholars and professionals. Characteristics include availability, timeliness and quality of guidance and feedback, responsiveness to student needs, and enthusiasm for the pursuit of knowledge. In addition the supervisor must promote timely completion of the thesis and encourage the career development of the student through the provision of leadership and support in academic matters such as publishing, presenting, and applying for funding. Preference will be given to faculty members who have displayed sustained mentorship activity over many years.

Details and forms: www.queensu.ca/sgrs Deadline: April 30, 4:30 pm.

Technology Sponsorship Fund call for applications

The Queen's University Technology Sponsorship Fund has been established to fund priority adaptive and learning technology initiatives at Queen's. The total available for disbursement in the current year's competition is approximately \$100,000. Funds will be awarded competitively to high-need projects, the support of which will have a direct impact on the quality of the learning environment at Queen's. Priority will be given to projects related to adaptive and special-needs technologies, and technologies which will have an impact on the teaching and learning environment. Projects related to the broader learning environment will also be considered. For full terms of reference and other details, visit www.queensu.ca/vpac/docandrep.html Submit applications to the Office of the Vice-Principal (Academic) by Friday, April 27, 2007. Awards will be announced by the end of May.

Basmajian Award

Nominations are invited for the 2006/07 Mihran and Mary Basmajian Award. This annual award is presented to a full-time Health Sciences faculty member or two members working as a team. The nominee must have a maximum of six years independent research and have made the most meritorious contribution to health research during the previous year or several years. Nominations may be made by any department head or by any member of the faculty with the knowledge and support of the department head. Nominations are due April 30 to the Associate Dean (Research), Health Sciences, c/o Mary Pope, Vice-President (Research Development) Office, Watkins 2, KGH. For terms of reference, visit www.queensu.ca/vpr/basmajian.htm

Convocation

Faculty invitation to spring convocation ceremonies 2007 in Jock Harty Arena.

Thursday, May 24

2:30 pm
Business, Industrial Relations, Urban & Regional Planning, Policy Studies
Honorary graduand (LLD): Donald Cooper

Friday, May 25

9:30 am
Health Sciences (Medicine, Nursing, Rehabilitation Therapy)
Honorary graduand (LLD): John de Chastelain

2:30 pm
Applied Science
Honorary graduand (DSc): Faquir Kohli

Thursday, May 31

9:30 am
Education
Honorary graduand (LLD): Jack Chiang

2:30 p.m.
Arts & Science (Anatomy & Cell

Biology, Biochemistry, Biology, Chemistry, Community Health & Epidemiology, Computing, Environmental Studies, Geological Sciences, Life Sciences, Mathematics & Statistics, Microbiology & Immunology, Music, Pathology, Pharmacology & Toxicology, Physics, Physiology)
Honorary graduand (LLD): James Orbinski

Friday, June 1

9:30 am
Arts and Science (Communication, Culture & Information Technology, Development Studies, Economics, Geography, German Language & Literature, Health Studies, Kinesiology and Health Studies, Psychology, Sociology, Spanish and Italian Language & Literature, Women's Studies)
Honorary graduand (DSc): Malcolm Peat

2:30 pm
Arts and Science (Art, Canadian Studies, Classics, Drama, English Language & Literature, Film Studies, French Studies, History, Jewish Studies, Language & Linguistics, Philosophy, Political Studies, Religious Studies, Russian Studies)
Honorary graduand (LLD): Isabel Bader

Friday, June 8

2:30 pm
Law
Honorary graduand (LLD): George Thomson

Assembly: The academic procession will assemble in the Upper Lounge of the Physical Education Centre 30 minutes before convocation times. (Note: for the June 8 convocation, assemble on the second floor of Kingston Hall.) If you will be joining the academic procession, please complete our online form before May 16 at www.queensu.ca/secretariat/convocation/RSVPform.html so that sufficient seats may be reserved or e-mail cowperth@post.queensu.ca (ext. 77927). Those needing a hood or gown should make arrangements with the Alma Mater Society 30 minutes before each ceremony. 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.

Human Resources

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 2007
25 years: Linda Cripps, Psychiatry; Lee Schuster, William R Lederman Law Library.
20 years: Kevin Knott, Postal Services; Marilyn Oosten, Pharmacology and Toxicology.
15 years: Kristine Bowes, Faculty of Health Sciences; Wendy Powley, School of Computing; Heather Stanton, NCIC.
10 years: Gillian Berry, Student

Information Systems; Julie Einarson, School of Business; Margaret Einarson, Development & Business Relations; John Garrah, PPS.

Five years: Meagan Conners, School of Business; Deborah Emerton, Emergency Medicine; Denise Jones, School of Medicine; Iva Kosatka, Gastroenterology; Nadine Magoski, NCIC; Theresa Mitchell, Development & Business Relations; Hollie O'Dette-Hoiles, eQUIP Queen's University Infrastructure Programs Task Force; Lori Verton, Medicine; Lisa Webb, Ban Righ Centre.

Employee Assistance Program

For off-campus professional counselling call toll free 1-800-387-4765 (français 1-800-361-5676). This service can be reached 24 hours a day, seven days a week. For more information, visit www.queensu.ca/eap

Notices

QUFA members applying for renewal, tenure, promotion or continuing appointment

Under the terms of the collective agreement between Queen's University and Queen's University Faculty Association for faculty, librarians and archivists, Sept. 1, 2007 is the deadline for regular faculty to apply for renewal, tenure or promotion; librarians and archivists to apply for renewal, continuing appointment or promotion; term adjuncts to apply for promotion and a continuing appointment; and continuing adjuncts to apply for promotion. Members must notify their unit head of their intent to apply for renewal, tenure, continuing appointment, or promotion by July 1, 2007.

Four Articles in the Collective Agreement are relevant to these procedures:
Article 24 – Employment Equity
Article 30 – Renewal, Tenure and Promotion for Tenure-Track and Tenured Faculty Members
Article 31 – Renewal, Continuing Appointment and Promotion for Librarian and Archivist Members
Article 32 – Personnel Procedures for Adjunct Faculty Members.

PhD Examinations

Members of the regular staff at the university may attend PhD oral thesis examinations.

Thursday, April 19

Michael Douglas Leo Suits, Department of Biochemistry. Structural Determination and Functional Annotation of ChuS and ChuX, Two Members of the Heme Utilization Operon in Pathogenic Escherichia Coli O157:H7. Supervisor: Z. Jia, 660 Botterell Hall, 9:30 am.

Friday, April 20

Hairong Zhou, Department of Electrical & Computer Engineering. Network Architecture and Protocol Design for the Next Generation Wireless Metropolitan Area Network. Supervisors: C.-H. Yeh and H.T. Mouftah, 302 Walter Light, 2 pm.

Tuesday, April 24

Rachel Claire Sheffrin, Department of Philosophy. Thinking Beyond the Bounds of Sense: Reflections on the Possibility of Transcendental Reflection.

Supervisor: D.J. Bakhurst, 307 Watson, 1 pm.

Wednesday, April 25

Lya Guadalupe Hernandez, Department of Anatomy & Cell Biology. Protective Effects of Diallyl Sulfone Against Vinyl Carbamate-Induced Mutagenesis, Clastogenesis and Carcinogenesis. Supervisor: P.G. Forkert, 912 Botterell, 1 pm.

Thursday, April 26

Yibing Zhang, Department of Civil Engineering. On the Computation of Flow and Bed Deformation in Alluvial Meandering Streams. Supervisor: A.M.F. da Silva, 212 Ellis, 9:30 am.

Friday, April 27

Andrew Robert Bukata, Department of Geological Sciences & Geological Engineering. Reconstructing Environmental Change Using Stable Isotopes (δ^{15} and δ^{13}) and Metal Contents of Tree-Rings. Supervisor: T.K. Kyser, M100A Miller, 9 am.

Thursday, May 3

Runkai Li, Department of Chemistry. Fiber-Loop Ring-Down Spectroscopy – A Novel Online Detection Method. Supervisor: R.D. Oleschuk, 515 Chernoff, 1:30 pm.

Friday, May 4

Karen Elizabeth Samis, Department of Biology. The Evolution of Species' Geographical Range Limits: An Empirical Evaluation Using Two Coastal Dune Plants, *Camissonia Cheiranthifolia* (Onagraceae) and *Abronia Umbellata* (Nyctaginaceae). Supervisor: C.G. Eckert, 3112 BioSciences, 1:30 pm.

Calendar

Unless specified, all events are free.

Art

Agnes Etherington Art Centre

Events:
April 29: Frances K. Smith Annual Lecture in Canadian Art, with Mario Béland curator at the Musée national des beaux-arts du Québec, 2 pm.
May 3: Art Matters, with Annabel Hanson, curator of Between the Lines: 19th-century French Prints, 12:15 pm.
May 6: ArtDocs: Under My Shell, by Valerie Westgate. A documentary on Kingston printmaker Nan Yeomans, 2 pm.
May 13: ArtDocs: The Art of Time, by Phillippe Baylaucq. An affectionate portrayal of André Biéler, popular artist, teacher and first director of the Art Centre, 2 pm. Corner of University Avenue and Bader Lane. Extended hours to 9 pm on Thursdays.
Free parking on campus after 5 pm. Free admission on Thursdays. For exhibition information, see www.aec.ca

Exhibitions: Contemporary Feature and The Davies Foundation Galleries, Karin Davie, March 1 – April 29. Frances K. Smith Gallery, Between the Lines: 19th-century French Prints, April 1 – August 5. Historical Feature, R. Fraser Elliott and Samuel J. Zacks Galleries, Antoine Plamondon (1804-1895): Milestones of an Artistic Journey, April 22 – July 2. African Gallery, The Art of Mali, to Nov. 4. The

Bader Gallery, Revelations: European Old Masters in Kingston Collections, to Aug. 19. Etherington House, Kingston Picks, to Dec. 22.

Union Gallery

Exhibitions: Expression, an exhibition by fourth-year fine art students Vanessa Nicholas and Laura Vincent, April 10 – 28, Main Space. Une Ville Abandonnee, an artist's book and video installation by Kingston artist Jennifer Roche, Project Room.
www.uniongallery.queensu.ca

Music

Tuesday, April 24

Faculty of Education

Bruce Vogt, pianist; Susan Young, soprano, University of Victoria. An Illusory Self: an evening of songs featuring composers Alfred Fisher, Poldowski, Strauss and Liszt. A celebration of the UNESCO Chair in Arts and Learning, and the centenary of the first founding of the faculty. 7:30 p.m.

Courses and Workshops

April 28, 29

Engenuity

A hands-on weekend workshop for high school girls to promote the viability of a career in engineering, helping them to make an educated career decision. Beamish-Munro Hall. To register, visit www.appsci.queensu.ca/prospective/engineering/women/initiatives/engenuity/index.php. Details: Liz May at 613-533-6000 ext. 74134 or sofficer@post.queensu.ca

Friday, May 11

Providence Continuing Care Centre

A one-day workshop on mindfulness meditation, loving kindness meditation and related techniques. Paul Kelly, University of Toronto. Mindful Meditation and Psychotherapy: A Practical Guide for Clinicians. Radisson Hotel Kingston Harbourfront, Harbour Shadows Room, 1 Johnson Street, 8:30 – 4 pm. Registration and continental breakfast at 8 am. Details: Barb Ryce (613) 548-5567 ext. 5705.

Lectures

Tuesday, May 1

Business

Gordon Hunter, University of Lethbridge. Repertory Grids, 403 Goodes, noon – 2:15 pm. Of interest to qualitative researchers.

Special Events

April 25, 26

Materials and Nanotechnology Symposium

Hosted by the Department of Chemistry. 117 Chernoff Hall. Details:

www.chem.queensu.ca/SpecialEvents/MaterialsandNanotechnologySymposium

Tuesday, May 1

Ban Righ Foundation spring awards

Honouring mature women students and their generous supporters, the annual Ban Righ Foundation for Continuing University Education spring awards ceremony features the unveiling of

a plaque marking the role of alumnae in founding the Ban Righ Centre. Grant Hall, 7-9 pm.

Award recipients:

Jillian Burford – Carole Kinnear Bursary
Martina Chan – Diane McKenzie Award
Amy Seul Yoo – Diane McKenzie Award
Iyabo Babasola – Marian C. Webb Award
Kara Braun – Helen Richards Campbell Award
Christine McIntyre – Dorothy Parnell Prize
Ethel Achampong – Troupe Ballantyne Fund
Saeeda Shoukat – Elizabeth Wallace Bursary
Christa Armstrong – Barbara Paul Memorial Award
Dana Wesley – Mildred Blackadder/Zonta Club Award
Glenda Sandy – Mildred Blackadder/Zonta Club Award
Melissa Dunnett – The Janet Bilton-Holst Citation

Friday, May 4

Memorial service

A memorial service commemorating the life of Chancellor Emeritus Agnes Benidickson will take place in Grant Hall, 5 pm.

Monday, May 14

The Monieson Centre Business

YOUR Human Resources: What You Know; What You SHOULD Know. Top-ranked employers in Canada, and expert faculty address the most pressing human resource and leadership issues. Queen's staff, faculty and students receive a 50-per-cent discount. For conference details and to register, visit

business.queensu.ca/centres/qcbv/BSME_2008_invite.html

Wednesday, May 23

Ban Righ Centre fundraiser

The Sisters Rosensweig, a play written by Wendy Wasserstein and directed by Angie Fyke. Domino Theatre, 370 King Street W., 8 pm. Tickets: \$18. Details and reservations: Karen Knight, 613-533-2976, email kk9@post.queensu.ca.

Submission Information

The next deadline for Calendar, Bulletin Board and general editorial submissions is at noon on Monday, May 7.

The next issue of the Gazette appears Monday, May 14.

Email submissions in the following format to gazette@post.queensu.ca

Date; lecturer's name, affiliation, title of lecture, location, time.

For news and information between issues of the Gazette, visit www.queensu.ca/newscentre.

NEWS and MEDIA SERVICES

To inform us of your latest research findings or upcoming journal publications, call Senior Communications Officer Nancy Dorrance, 613-533-2869, or Communications Coordinator Lorinda Peterson, 613-533-3234.

HELP LINES

Campus Security
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533-6111

Human Rights Office

533-6886
Irene 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

Please contact Harry Smith, Coordinator of Dispute Resolution Mechanisms, at 533-6495 for assistance or referral to an advisor.

Sexual Harassment Respondent Advisors

Paul Banfield – Archives
533-6000 ext. 74460

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 Harry Smith, Coordinator of Dispute Resolution Mechanisms, at 533-6495 for assistance or referral to an advisor.

University Grievance Advisors – Staff

Janet Cowperthwaite
University Secretariat
533-6000 ext. 77927

Bob Burge – JDUC
533-6000 ext. 78775

Gary Racine – Telecommunications
533-3037

Freedom of Information and Protection of Privacy

Diane Kelly, Access and Privacy Coordinator
613 533-2211

Accommodation and Wellness

Shannon Casteels, Workplace Advisor
ext. 77818

Employee Assistance Program

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Brian Yealland
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On the centenary of the first founding of the Faculty of Education and in Celebration of the UNESCO Chair in Arts and Learning at the Faculty of Education

Dr. Rosa Bruno-Jofré,
Dean of Education
welcomes you to attend



An Illusory Self:

an evening of songs featuring composers Alfred Fisher, Poldowski, Strauss and Liszt

performed by

Bruce Vogt, pianist

Professor of Piano Performance, University of Victoria

Susan Young, soprano

Professor, University of Victoria

Canadian soprano Susan Young maintains a demanding performance schedule. She has performed in Canada, the United States, Spain, France and Austria. Pianist Bruce Vogt appears regularly in concert and on the CBC within Canada, but he has also inspired audiences in England, USA, Germany, France, Italy, Norway, the Czech Republic, Bulgaria and Japan. Susan and Bruce have enjoyed a fruitful musical collaboration since 1987. Together they have presented numerous "specialty" concerts of works by Franz Schubert, Franz Liszt, Claude Debussy, Poldowski, Alfred Fisher and others.

24 April 2007, 7:30 pm

Duncan McArthur Hall Auditorium

Free Concert (no RSVP necessary)
open to the public, everyone welcome

Contact Bob Snell at Bob.Snell@Queensu.ca or 613-533-6000 ext. 75408 for additional information



Sponsored by Queen's University, Faculty of Education



COURTESY OF THE ARTIST

Manufacturing #11, Youngor Textiles, Ningbo, Zhejiang Province, China, 2005, by Edward Burtynsky. A gift of the artist to the Agnes Etherington Art Centre.

Well-known photographer donates work to art centre

Renowned Canadian artist Edward Burtynsky has donated a substantial body of work to the Agnes Etherington Art Centre.

The award-winning Toronto-based photographer has made a gift of a collection of 47 colour photographs spanning his career from 1985 to 2005. These large-

format, high-resolution images document the extraction of natural resources and the spectacular impact of industry on the environment.

The beauty and relevance of Mr. Burtynsky's art attracted enormous interest at Queen's during the artist's 2005 visit,

organized by Joan Schwartz of the Department of Art and Victoria Remenda of the Department of Geological Sciences and Geological Engineering.

"This is a major step in building our holdings of work by key figures in Canadian art," says Curator of Contemporary Art

Jan Allen of the selection of works. "I'm especially pleased to note that the artist has included in this donation a substantial group of works from his recent, widely celebrated China series."

"Our outstanding collections of contemporary and historical

art, along with the integrity and innovation of our programs, make the Agnes Etherington an excellent context for this gift," says Director Janet Brooke.

"Our public, the wider community, and future generations will benefit from Edward Burtynsky's generous donation."

Mourning

continued from page 1

community now supporting and comforting them."

Dr. Hitchcock has written to the president of Virginia Tech, Charles Steger, to express condolences on Queen's behalf to all members of the Virginia Tech university community. Queen's will also make a contribution to the Hokie Spirit Memorial Fund to aid their students, faculty and staff in the healing process associated with the tragedy. The AMS and the SGPS have also sent their condolences to the students' associations in Virginia Tech.

"Over the last several days, we have seen scenes of unimaginable violence," said AMS President James Macmillan. "In this global society, borders are not boundaries. We stand resolute with them as fellow students in their time of need."

The Blacksburg community is very much like our own, said Jovan Groen, SGPS vice-president, external.

"As a university, we are similar to them. We carry them in our thoughts."

Universities have borders that are permeable and virtually impossible to seal off, especially if they value open inquiry, discovery, teaching and learning, said Dr. Hitchcock.

"When this ideal is shattered at one institution of higher learning, all of us share the pain."

When tragic events like this happen, Queen's community members analyze the information to improve the university's ability to prepare and respond, she said.

Queen's Campus Security Director David Patterson told the Gazette that his department continues to monitor the situation at Virginia Tech.

"As with other similar tragic events, we take this opportunity to examine our policies and procedures and, if necessary, make changes to enhance our response and services to address acts of violence on our campus."

Since a similar incident last September at Dawson College in Montreal took the life of a student and wounded 19 others, he has worked closely with the Kingston Police, ensuring efficient emergency response to university property.

Campus Security officials carry floor plans of university property and master keys and would be able to turn those over immediately once police arrived on the scene.

"As a student on campus, I've always felt very secure, not only because of the work done by Campus Security but also the Walkhome program and the student constables," says Meghan Teuber, the AMS vice-president of university affairs.

"There is a real feeling of



STEPHEN WILD

Principal Karen Hitchcock addresses a crowd of more than 300 people April 19 at a vigil remembering the victims of the Virginia Tech tragedy. The vigil took place outside Stauffer Library at the corner of Union Street and University Avenue.

security on Queen's campus. When something like (Virginia Tech) takes place, this will have

an effect on students regardless of where it happens. This was not geographically close to us,

but still it's something that would rattle students here and anywhere."