



UNIVERSITY OF
TORONTO

ROYAL SOCIETY MUSCLE
U of T professors head
two of the three Royal
Society of Canada
academies — page 2

JANUARY 15, 2008 61st year, number 10

the Bulletin

CONTENTS

AWARDS & HONOURS

Six receive Order of Ontario — page 2

NEWS

Ombudsperson's office beefs up staff, raises profile — page 3

Pension plans are fully funded and on solid ground — page 3

Remembering Cecil Yip — page 6

RESEARCH NEWS

Tracking pollution in otters and their food sources — page 5

TEACHING NEWS

Communication Café lends newcomers a helping hand — page 7

FROSH DIARY

Bea Palanca: thoughts on returning to school — page 10

FORUM: TEACHING
President's Teaching Award winner focuses on enriching student experience — page 16

CALL FOR PARTICIPATION ACCESSIBILITY AWARDS

The Students for Barrier Free Access, Health and Well-being and Accessibility Services invite nominations for the Accessibility Awards to celebrate members of the St. George campus community who have demonstrated commitment and dedication to issues of accessibility on campus. The Jan. 21 deadline is fast approaching. See www.utoronto.ca/hrhome/hwb/Accessibilityawards.html for more information and submission deadlines.

WWW.NEWS.UTORONTO.CA/
BULLETIN

Engineering a Victory



JAMIE BRAND

Students from the Department of Mechanical and Industrial Engineering struggle to propel their chariot through the muddy King's College Circle grass, eager to win the engineering society chariot race held annually during Godiva week.

Vice-provost (students) named

BY ELAINE SMITH

Professor Jill Matus of English, vice-principal of University College, has been appointed the vice-provost (students) for a five-year term effective July 1. The executive committee of Governing Council approved the appointment Jan. 9.

The vice-provost (students) has responsibility for policies and procedures affecting students and student organizations across the three campuses. In this role, Matus will oversee operation, administration and delivery of programs and services in student recruitment, admissions and awards, student information systems, international student exchange and the Office of Teaching Advancement. She will also supervise the assistant vice-president

(student life) who oversees the operation, administration and delivery of student programs and services on the St. George campus.

Matus has been at the University of Toronto since 1981, beginning her career here as a part-time lecturer in English at the University of Toronto Scarborough and becoming an assistant professor in 1987. She joined the English department on the St. George campus in 1997 and is also a senior fellow at Massey College. During her tenure here, she has accumulated a wide range of administrative experience at the campus, college and departmental levels. Her most recent academic administrative position has been as acting principal of University College, July to December 2007. Since 2005,

• • • VICE-PROVOST ON PAGE 4

U OF T'S PROSPERITY INSTITUTE ADDRESSES ONTARIO'S COMPETITIVENESS

BY MARIA SAROS LEUNG

Kevin Stolarick knows what it takes to make cities great. He's been called the numbers guru behind Professor Richard Florida's *The Rise of the Creative Class* and in 2007 relocated to Toronto with Florida to head up the Lloyd and Delphine Martin Prosperity Institute at the Rotman School of Management.

The centre's associate director and research associate, who previously taught at Carnegie Mellon University, also has a good sense of the skills that will help U of T's students succeed in competitive job markets.

COMPETITIVENESS:
See pages 3, 8 and 9
for related stories

"Some things you will learn fall into the 'retain for 18 months' category, some of the things you will learn will last you for your whole life," he explained. "No matter the field of study good organizational skills, learning to tap into one's own

Imprisoned professor returns

BY KIM LUKE

Political philosopher Ramin Jahanbegloo, freed in 2006 from imprisonment in Iran's notorious Evin Prison, has returned to the University of Toronto as a professor of political science, a research fellow at the Centre for Ethics and a Massey College scholar-at-risk.

A dual citizen of Canada and Iran, Jahanbegloo taught in the Department of Political Science from 1997 to 2001. He then returned to Tehran, where he was head of the Department of Contemporary Studies

of the Cultural Research Bureau. In that role, Jahanbegloo led a remarkable program of intellectual exchange and intercultural dialogue, bringing a series of leading Indian, European and North American intellectuals to lecture in Iran, including Jürgen Habermas, Richard Rorty, Fred Dallmayr, Michael Ignatieff, Timothy Garton Ash, Agnes Heller, Paul Ricoeur and Antonio Negri.

On his way to an international conference from Tehran in April 2006, Jahanbegloo was arrested by Iranian

• • • IMPRISONED ON PAGE 4

• • • PROSPERITY ON PAGE 9

LETTER FROM THE EDITOR

Welcome back to campus!

I hope the holiday break was a wonderful opportunity to relax and recharge your batteries for the coming semester.

As the new year begins, there's already lots of activity at the university. The front page of this issue highlights a couple of exciting occurrences. Professor Ramin Jahanbegloo, freed from imprisonment in Iran, has returned to U of T and will be sharing his thoughts on a clash of cultures in a Jan. 28 public lecture. We'll also have a new vice-provost (students) in July as Professor Jill Matus leaves University College to engage with student concerns university-wide.

As we welcome them, we bid a sad farewell to Professor Emeritus Cecil Yip of the Banting and Best Department of Medicine, a driving force behind the Terrence Donnelly Centre for Cellular and Biomolecular Research (page 6). He will be remembered at a memorial service Jan. 22.

The centre spread (pages 8 and 9) in our first issue of 2008 focuses on a topic that occupies the thoughts of many administrators, academics and staff here at the university: ensuring our students are competitive in an increasingly global workplace. Writers Maria Saros Leung and Anjum Nayyar offer us food for thought by highlighting two examples of faculties and departments that are meeting the challenge: engineering and computer science. We also highlight the work of the Lloyd and Delphine Martin Prosperity Institute through an interview with second-in-command Kevin Stolarick and a story about a generous donation by the Rotman family that gives the forward-looking institute its name (page 3).

The word competitiveness brings fiscal issues to mind and the pension plan story on page 3 offers some useful information about a common financial consideration for staff and faculty. Sheila Brown, chief financial officer, provides background on the university's pension promise, the guarantee that U of T will always meet its pension commitments.

Additionally, this edition brings you interesting teaching and research stories and our ever-popular features, Forum and Frosh Diary. Not a bad way to start the New Year!

Regards,



Elaine Smith
Editor
(elaine.smith@utoronto.ca)



AWARDS & HONORS

council honoured the university's collective efforts at the volunteer celebration Dec. 11 at the Chappell House at Riverwood.

UNIVERSITY OF TORONTO

Professors Monica Boyd of sociology and **Andrew Miall** of geology have each been elected president of one of the three academies of the Royal Society of Canada. Boyd, Canada Research Chair in equity and health, was elected president of the Academy of Social Sciences while Miall, holder of the Gordon Stollery Chair in Basin Analysis and Petroleum Geology, was elected president of the Academy of Sciences. As presidents of the academies they join the council of the society. Founded in 1882, the Royal Society is Canada's oldest and most prestigious scholarly organization and is composed of three academies: Academy of Arts and Humanities (Academy I); Academy of Social Sciences (Academy II); and Academy of Science (Academy III).

Professors Jamie Donaldson, chair of physical and environmental sciences at U of T Scarborough; **Jean Zu** of mechanical and industrial engineering; and **Peter Zandstra**, Canada Research Chair in Stem Cell Bioengineering, are among the 471 new fellows of the American Association for the Advancement of Science (AAAS) named Oct. 25. Fellows are recognized for meritorious efforts to advance science or its applications. Donaldson is cited for his pioneering fundamental contributions through teaching and research to understanding sunlight-initiated environmental chemical processes with concepts and tools of physical chemistry; Zandstra, for distinguished contributions to the field of bioengineering, particularly for fundamental studies into the development of bioprocesses for the production of stem cells and their derivatives; and Zu, for outstanding contributions to mechanical vibrations in automotive applications and for distinguished contributions to CSME as its president. They will be honoured at the Fellows Forum Feb. 16 during the association's annual meeting in Boston.

COMPILED BY AILSA FERGUSON

FACULTY OF APPLIED SCIENCE & ENGINEERING

Professors Christina Amon, dean of engineering, **Alberto Leon-Garcia** of electrical and computer engineering and Professor Emeritus **Michael Charles** of chemical engineering and applied chemistry have been named fellows of the Engineering Institute of Canada in recognition of their exceptional contributions to engineering in Canada. Since 1963 the council of the institute has annually elected a number of engineers as fellows in acknowledgement of their services to the profession and to society. New fellows will be honoured at the institute's awards banquet March 1 in Ottawa.

Professor Emeritus John Senders of mechanical and industrial engineering was appointed last year to a six-year term as James Marsh Professor-at-Large at the University of Vermont, 21 years after his retirement from U of T at the age of 65. The Professor-at-Large program brings outstanding individuals of international distinction to campus to invigorate the intellectual and culture life of the university. His appointment ends in 2012 when, he said, "I shall be 92 and then I shall have to find something else to do with the time."

U OF T MISSISSAUGA

U of T Mississauga has been named the first recipient of the Charlie Brown Distinctive Service Award, a volunteer award presented by Mississauga Garden Council. The honour recognizes the extensive contribution of UTM students, faculty and staff for their assistance with the council's mission of promoting the development of the major public park on the Riverwood property. UTM volunteers were selected based on their strong leadership, dedicated partnerships, volunteerism and for the programs and activities they lead. The

Six named to Order of Ontario

BY ELAINE SMITH

Six U of T professors are among the 27 newest recipients of the Order of Ontario.

Professors Richard Bond, Roderick McInnes, Tak Mak, Frances Shepherd, Janice Gross Stein and Paul Walfish were named to the province's highest, most prestigious honour Dec. 19 by Lieutenant-Governor David Onley.

The Order of Ontario is awarded for excellence and achievement in any field.

"These distinguished individuals are truly exemplary in their fields," said Onley in a news release. "Our province is richer for the breadth and depth of their contributions. Through drive and determination they have pushed boundaries and serve as outstanding examples for all Ontarians."

Bond, a University Professor in astronomy and astrophysics, is an astrophysicist and cosmologist whose pioneering work on the structure, formation and evolution of the universe helped establish Ontario as a centre for cosmology research. Mak, a University Professor in medical biophysics and immunology, is an internationally respected biomedical scientist, noted for his discovery of the T-cell receptor as well as his work in molecular biology and his pioneering contributions in the genetics of immunology.

McInnes of molecular genetics is also a senior scientist with the Hospital for Sick Children. He is internationally known for his research on the eye. Shepherd of medicine also serves as the Scott Taylor Chair in Lung Cancer Research at Princess Margaret Hospital. She is an internationally

renowned oncologist and researcher whose work has led to new treatment options for lung cancer patients in Ontario and throughout the world.

Stein, a University Professor in political science, is director of the Munk Centre for International Studies, a centre committed to public education and civic debate. She is one of Ontario's pre-eminent scholars and experts in conflict management and negotiation, Middle Eastern politics and Canadian foreign policy. Walfish, an emeritus professor of medicine, is also a senior consultant with Mount Sinai Hospital. He is widely published and is a leader in the international thyroidology community.

The newest recipients bring the total membership of the order to 460. They will be honoured at a Queen's Park ceremony Jan. 24.

the Bulletin

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THIS WEEK • ON THE COVER:

The graphics on the top banner and the contents box were composed from the scientific diagrams of RNA and protein research by Professor Ronald Kluger and PhD candidate Svetlana Tzvetkova.

Pension plans achieve improved funding levels

BY ELAINE SMITH

For the first time since the stock market downturn in the early part of this decade, the University of Toronto's pension plans are fully funded. That means as of June 30, 2007, the market value of the pension fund assets was in excess of the \$3 billion in pension obligations.

The 2007 funding level is due to a solid pension contribution strategy and to the excellent net investment earnings of 20 per cent for the year ended June 30, 2007, said Sheila Brown, chief financial officer. However, she noted that the funding excess is modest and would be eliminated if investment earnings were zero for this year.

Brown presented the annual financial report for the plans to Business Board Dec. 17. The university provides pension benefits to current and future retirees through three defined benefit pension plans: the registered U of T and OISE/UT plans and the unregistered supplemental retirement arrangement (SRA).

The plans are the university's means of keeping its pension promise to employees — the commitment to provide them with pensions based on their salaries and length of service as plan members. The risks associated with funding that promise are borne by the university. The commitment is a legal one, ensuring that no matter whether the plans earn surpluses or deficits each year, the university will pay the required pensions to its retirees.

"You don't have to worry 20 years down the road," Brown said. "We've made a legal promise to pay pensions. It's the university's responsibility to ensure that the funds are there to do so."

As of July 1, 2007, the U of T pension plan had 14,727 active and retired members and these numbers continue to grow. The OISE/UT plan, a closed plan as of 1996, has a declining membership of 304

active and retired members. The SRA provides defined benefits based on salary in excess of the salary at which the Income Tax Act maximum pension is reached to a capped maximum salary of \$150,000 per year.

The university's goal is to manage the plans prudently to ensure that the pension commitment does not become a financial burden for the university.

Estimating the pensions that will have to be paid to plan members requires that many variables be taken into account. For example, salaries are increasing, people are living longer and such items as the Income Tax Act maximum benefit limit also continue to grow. It's the responsibility of the university and its advisers to be aware of the changing demographics and changing legal and tax requirements and to take all of these factors into account.

The registered plans' assets, which arise from employee and employer contributions and from net investment earnings, are not considered university assets. They are kept in separate trusts, have their own financial statements and are audited annually by external auditors.

The funds are invested through the University of Toronto Asset Management Corporation (UTAM), a wholly owned, separately incorporated investment management subsidiary of the university, staffed by investment professionals with high levels of expertise in managing a broadly diversified portfolio, Brown said. UTAM, in turn, is overseen by a board composed of investment experts. The organization ultimately reports to Governing Council through the senior administration.

"Defined benefit plans have a lot of oversight," Brown said. "The benefit provisions are negotiated with each of our employee groups and approved by Business Board and the investment risk and return targets that are provided to UTAM must also be approved by Business Board. The pension obligations are estimated annually by the plan actuary. The pension financial statements, which provide audited confirmation of the fair value of the pension assets, are approved by Governing Council. Employer contributions are adjusted annually based on the results of the actuarial valuation of the pension obligations and the pension assets on hand. The university's excellent pension benefits, coupled with continued health benefit provisions, provide considerable security to retired faculty and staff."

Expanded ombudsperson's staff focuses on institutional problems

BY ANJUM NAYYAR

When members of the University of Toronto community can't find answers to their institutional problems, one place they turn is the office of the ombudsperson. Each year, the ombudsperson handles 200 to 300 inquiries from faculty, staff and students.

Now, in an effort to raise the profile of the office, it is welcoming a new member to its team for the first time in more than a decade. Professor Emeritus Joan Foley, university ombudsperson, has hired a case manager, expanding the team at the office from two to three. Newcomer Garvin Da Four, a U of T Scarborough graduate who has worked for both Ombudsman Ontario and the Ontario Human Rights Commission, will handle all frontline work on cases, something that's generally been done by the ombudsperson herself.

"We wanted to strengthen the role of the office in providing input to the administration on policy and procedures that seem to need attention," Foley said. "This reorganization was also a way to provide an opportunity to draw attention to the work of the office."

The term "ombudsman" originated in Sweden and refers to a public official who protects the interests of the citizens against governmental abuses. At universities the mission is protecting the rights of its students, faculty and staff. The office was established in 1975 as part of

the university's commitment to ensure that, in spite of its size and complexity, the rights of its individual members would be protected.

The office is funded by the university and is fully accessible to the entire university community — students, faculty and staff. The staff offer advice and assistance with complaints unresolved through other regular university channels and can conduct an investigation once all other available avenues have been exhausted.

"The purpose really is to

to try and help everybody."

Foley said the most common issues the office deals with include academic disciplinary issues, grade disputes, financial aid concerns and scholastic dishonesty charges. The ombudsperson listens to concerns, provides referrals and helps find solutions — but does not file complaints or solve issues for students.

While the ombudsperson does not advocate for a particular side in a dispute, the staff can help to reach a fair and just resolution of a problem by making



JAMIE BRAND

Left to right: Linda Collins, administrative assistant, Garvin DaFour, case manager, and Ombudsperson Joan Foley are charged with protecting the rights of the university's faculty, staff and students.

ensure that problem situations that are not well handled or well provided for in policy can be addressed and what we do is provide an impartial assessment of the situation," Foley explained. "We're here

recommendations. The office is accountable to Governing Council and it also produces an annual report of its activities for Governing Council and the campus community.

Generous gift supports prosperity research at Rotman School of Management

BY KEN MCGUFFIN

A new gift by the lead benefactors of the University of Toronto's Joseph L. Rotman School of Management will greatly contribute to the study of jurisdictional advantage and prosperity in a newly established research centre.

The donation of \$18 million by Sandra and Joseph Rotman was announced Dec. 12 at a dinner celebrating the naming of the Lloyd and Delphine Martin Prosperity Institute in honour of the parents of Professor Roger Martin, dean of the Rotman School. The institute was established earlier this year by a landmark \$50-million grant from the Province of Ontario.

"Under Roger Martin's

leadership, in nine short years the Rotman School has emerged as a global innovator in business education," Joseph Rotman said.

"Sandra and I are thrilled to be involved in an initiative that will benefit the collective prosperity of Canadians and contribute to the school's global reputation for thought leadership," he added. "The naming of this institute expresses our gratitude for an individual who has displayed the rare ability to transform business education with his thinking and vision."

Ten million dollars of the new Rotman gift will go towards the activities of the institute, which will be housed in a newly constructed expansion of the Rotman

School. The expansion is expected to open in 2011 and will also be the home to other Rotman research centres and programs.

The remaining \$8 million will support various projects including U of T's undergraduate commerce program, offered jointly by the Faculty of Arts and Science and the Rotman School, which will be renamed the Rotman commerce program; *Rotman*, the award-winning magazine of the Rotman School; the new building fund; and ongoing academic research activities at the school.

Read the interview with the institute's Kevin Stolarick on page 1.



Saturday, January 19th 2008

Activities: Cross-Country Skiing (bring your own skis) & Skating (if weather permits) * Winter Baseball or Volleyball * Musical Entertainment

Meals: Lunch upon arrival * Supper in late afternoon

TRANSPORT: Buses leave Hart House at 10:30 a.m. Expected departure from the Farm 7:00 p.m.

Advance Ticket Sales: Including, Thursday, January 17th: Cost per person: \$25.00 with bus; \$20.00 without.

Purchase tickets early to avoid disappointment! Tickets after Thursday, January 17th: Cost per person: \$30.00 with bus; \$25.00 without.

Tickets now available at the Hall Porters' Desk

Members may sponsor up to two guests (exceptions to be approved by the Farm Committee). Pets are not permitted at the Farm. Families and children welcome. Children's rates available.

This event is organized and run by volunteers of the Hart House Farm Committee.

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Vice-provost

she has served as vice-principal at University College and she was associate graduate director in the Department of English from 2002 to 2004. From 1994 to 1997 she served as discipline representative for English at UTSC.

"Professor Jill Matus embodies a number of characteristics that are essential for the role of vice-provost (students) at this time — direct experience in undergraduate education, an understanding of the role of college life in the student experience and a tri-campus orientation," said Professor

Vivek Goel, vice-president and provost. "She has been engaged in activities that bridge curricular and co-curricular to ensure that our students have a well-rounded experience and she has demonstrated the ability to develop an excellent working relationship with academic and administrative staff and student groups. In all of these roles she has shown a deep commitment to the student experience at both the undergraduate and graduate levels."

Matus received her BA from the University of the

Witwatersrand, her MA from Columbia University and her PhD from the University of Toronto. A distinguished humanities scholar, she is best known for her research on the Victorian novel in relation to medical and psychological writing of the period and has published widely on George Eliot, Dickens, the Brontës and Elizabeth Gaskell. A secondary research field is contemporary African-American fiction.

She has been the recipient of a Chancellor Jackman Research Fellowship in the Humanities and several Social Sciences and Humanities Research Council grants.

Imprisoned

authorities and sent to Evin Prison. He was never charged and can only speculate on the reasons for his arrest. He was released Aug. 30, 2006. He rejoins U of T after spending 2006-07 as Rajni Kothari Professor of Democracy at the Centre for the Study of Developing Societies in New Delhi, India.

"Ramin's intellectual career has been built around the concept of dialogue across ideological, religious and cultural divides," said Professor Melissa Williams, director of the Centre for

Ethics. "He celebrates non-violence and represents the ideal of the freedom of thought, both necessary conditions of genuine dialogue. He possesses a deep understanding of and delight in the diversity of the human spirit. And he has tremendous personal and moral courage. So he is an exemplar of so much that Canada aspires to be. His presence at the university and at the Centre for Ethics will be a tremendous asset both for our intellectual community and our capacity to build bridges to the world

beyond academe." Jahanbegloo regularly addresses both scholarly and general public audiences through his lectures and essays on tolerance and difference, democracy and modernity and the dynamics of Iranian intellectual life. He has published over 20 books in English, French and Persian.

To celebrate his return to Canada and to the University of Toronto, Jahanbegloo will deliver a public homecoming lecture based on his new book *The Clash of Intolerances*, Monday, Jan. 28 at 7:30 p.m. at the Isabel Bader Theatre.

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Chemists solve biological challenge: modifying protein creation

BY JENNY LASS

Chemistry professor

Ronald Kluger and PhD candidate Svetlana Tzvetkova have made discoveries that could not only allow scientists to generate new kinds of proteins — the building blocks of life — but also eventually lead to practical applications such as simplifying drug development and manufacturing.

These chemists have stretched the bounds of nature and genetics by chemically, rather than biologically, modifying the steps involved in creating proteins. Kluger became interested in the possibility of manipulating proteins after learning about efforts to produce “designer amino acids.”

“I was intrigued by the possibility that someone could actually attempt to make proteins with amino acids that aren’t specified in the genetic code at all,” Kluger explained.

Nature defines 20 different amino acids that can link together to make proteins. But protein creation begins with deoxyribonucleic acid (DNA), which sends out genetic instructions via an RNA message (mRNA) to the ribosomes in our cells. Transfer ribonucleic acids (tRNA) collect the amino acids and bring them to the ribosomes. The

tRNA then aligns with mRNA so the amino acids can join to form proteins. The catch is that an amino acid has to be activated by a specific enzyme before the tRNA can scoop it up.

Kluger and former student Lisa Cameron found that they could mimic the critical action of this enzyme when they combined common inorganic chemicals called lanthanum salts with a chemically activated amino acid. It was Tzvetkova who showed that this chemical mimic will allow an amino acid to attach to the complex tRNA molecule in just the right place. These results were e-published in the Dec. 4 issue of the *Journal of the American Chemical Society*. In principle, this research could be developed to allow tRNA to collect new “unnatural” amino acids, which according to Kluger, could “give anyone the ability to create totally new materials that have nothing to do with the genetically defined functions of proteins.”

Kluger and Tzvetkova aren’t the first researchers to try to create a “ribosome-ready” tRNA. Scientists have been attempting this type of modification for years but “their method involved a lot of difficult steps. They started to mutate the enzymes instead of doing a chemical alteration,”



PhD candidate Svetlana Tzvetkova and chemistry professor Ronald Kluger have chemically modified the steps involved in creating proteins.

JAMIE BRAND

said Kluger, who explained that the elegance of his method is that it changes how amino acids are added to tRNA “in one step, just the way nature does it.”

But just because the solution was simple doesn’t mean that finding it was. This type of

approach has never been tried before. Kluger said that he and his students “were constantly told that this direct chemical route was impossible” and added that “we were novices from day one in this project. Each time we got to another stage of

this, we were novices again.”

These researchers are continuing their work by incorporating their artificially attached amino acids into proteins. Kluger feels that the “possibilities are well beyond our imagination or our lifetime.”

Otters offer insights into pollution



PHOTO COURTESY OF OERS

BY ANJUM NAYYAR

At a time when Canada has received low marks for its efforts to clean up the environment and support anti-global warming moves, two U of T faculty members and researchers are being recognized internationally for their enthusiastic and innovative contributions towards the promotion of biodiversity and environmentalism.

Professor Carin Wittnich of surgery and physiology and Michael Belanger, who runs her research program, have been invited to become affiliate members of the IUCN (World Conservation Union) Species Survival Commission (SSC) — Otter Specialist Group

(OSG) for their research on otters conducted as volunteers through the Oceanographic Environmental Research Society (OERS). They are currently two of only three Canadian members.

SSC is a global, science-based network of thousands of volunteer experts, working together towards “a world that values and conserves present levels of biodiversity.” The commission’s major role is to provide information to the conservation union on the conservation of species and their inherent value. The OSG provides leadership in the conservation of all otter species.

With grant funding from OERS Wittnich and Belanger have been tracking pollution levels in otters and their food sources to get a clearer picture of what is happening in the environment in which humans live. Mercury pollution they found in fish led them to investigate pollutants in animals higher up the food chain. Of all the heavy metals being disposed of in the environment, mercury is the second leading cause of death in people after lead.

“We wanted to see what the environment was like in terms of pollutants and the way to investigate that is to look at animals near the top of the food chain,” said Belanger.

Belanger added that the last study of this kind in Canada was done in Ontario in 1979.

For more information visit: www.oers.ca.

Quantum computing leap by U of T researchers

BY KIM LUKE

University of Toronto

physicists are part of an international team that has made the first execution of a quantum calculation, a major step towards building the first quantum computers.

“What is difficult for the brain is also difficult for conventional computers,” said Professor Daniel James, the Canadian lead on the project. “Quantum calculations are important: it is the computational difficulty of factoring very large numbers that forms the basis of security in such things as widely-used Internet encryption systems.”

By manipulating quantum-mechanically entangled photons — the fundamental particles of light — the team was able to calculate the prime factors of the number 15: three and five. “Of course, this is a simple enough calculation for an eight-year-old: the difficult part is doing these calculations as the number gets bigger and much more difficult,”

explained James.

But calculating the prime factors of 15 is a major step to calculating much larger numbers, which could be used to crack cryptographic codes that are unbreakable using conventional computers. These codes form the basis of all banking and computer security and have implications for how successfully we can keep all data secure in the future, James said.

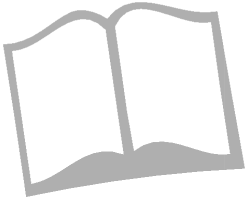
Classical computers use two-level systems called bits — binary digits — while quantum computers use two-level quantum-mechanical systems called qubits — quantum bits. “A qubit is like a coin that can be heads (on), tails (off) or simultaneously heads and tails (on and off) or any possible combination in-between,” James explained. “Quantum memory sizes grow exponentially with the number of qubits.”

The research was published in December in the prestigious *Physical Review Letters*.

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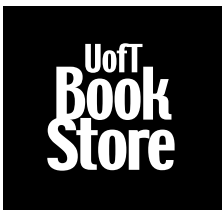
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IN MEMORIAM

Yip was one of U of T's great minds

BY AILSA FERGUSON

Professor Emeritus Cecil Yip of the Banting and Best Department of Medical Research, an outstanding scientist in the field of insulin biology and a former vice-dean (research) in the Faculty of Medicine, died Nov. 27 after a difficult struggle with multiple system atrophy. He was 70 years old.

Yip received his BA from McMaster University in 1959 and his PhD from Rockefeller University in 1963. In 1964 Yip joined the University of Toronto's Banting and Best Department of Medical Research as an assistant professor, progressing through the ranks to professor in 1974 and becoming chair of the department from 1990 to 1995. He was appointed vice-dean (research) for the Faculty of Medicine in 1993, a position he held until his retirement in 2002. He contributed broadly to the governance and leadership of the university over several decades and served as vice-president (grievances) of the U of T Faculty Association in 1981 and as president in 1983.

A fellow of the Royal Society



of Canada, Yip was cited for his seminal papers illuminating the structure and mechanism of the action of insulin and the insulin receptor. Among his contributions are the discovery of pre-proinsulin, proinsulin and the insulin c-peptide. He was the first to use photo-labelled insulin to identify the insulin receptor and in his crowning achievement, provided a three-dimensional reconstruction of the dimeric insulin receptor bound to insulin.

In 2004 he was member of the U of T team of researchers who showed that "designer molecules" can interact with the body's insulin receptor, a step towards the development of an oral medication for diabetes. The team created the

first small molecules using the three-dimensional structure of the insulin receptor.

A prolific writer, Yip was the author of more than 100 scientific articles in peer-reviewed journals. He was known not only for his research accomplishments and administrative contributions but also as a mentor to many U of T faculty and students.

"Cecil Yip is not only one of the university's great minds; he is one of our great citizens," Professor David Naylor, then dean of medicine, told *The Bulletin* in 2002 on Yip's retirement. "He has worked tirelessly to better this university, whether as a vice-dean, a department chair or an officer of UTFA. Cecil has always been a statesman.

"Further, it was on his watch as vice-dean of research that the Faculty of Medicine has enjoyed massive growth in research productivity and funding," he said. "He would say that the credit for that belongs elsewhere; most everyone else would say that Cecil as a broker, catalyst, consensus-builder and stand-setter, deserves a meaningful share of the credit for our collective success in research."

After his retirement Yip turned his sights to the Centre for Cellular and Biomolecular Research. A key player in its creation, Yip served as interim co-director from 2002 to 2004, becoming director emeritus in July. The centre, now named after Terrence Donnelly, who contributed \$13 million to the enterprise, creates a unique organization in which research investigators from medicine, pharmacy and applied science and engineering have been brought together; it provides an open, fluid environment that encourages new ways of approaching biological programs by stimulating unconventional interactions among disciplines.

"His vision of a new concept for interdisciplinary research has now been realized in the successful establishment of the Terrence Donnelly Centre for Cellular and Biomolecular Research," said Professor Catherine Whiteside, dean of medicine. "Cecil Yip will be greatly missed and remembered fondly by all of us."

The Faculty of Medicine will hold a public memorial service for Yip Jan. 22 at 3:30 p.m. in the JJR McLeod Auditorium of the Medical Sciences Building.

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Teaching office leadership set

BY ELAINE SMITH

Talented teachers have been tapped to head the University of Toronto's Office of Teaching Advancement (OTA) through 2014.

Professor Kenneth Bartlett of history, one of the inaugural recipients of the President's Teaching Award, has been reappointed to the position of director for an 18-month term beginning Jan. 1 and ending June 30, 2009. Bartlett has served as director of OTA since its inception in 2002 and has won numerous teaching awards, including a prestigious 3M Teaching Fellowship.

Following the completion of Bartlett's term, Professor Carol Rolheiser of the Ontario Institute for Studies in Education of U of T will serve as director for a five-year term extending from July 1, 2009 to June 20, 2014. Rolheiser is currently associate dean

(teacher education) at OISE/UT and helped inaugurate the two-year master of teaching program. She was also an inaugural winner of the President's Teaching Award.

Rolheiser's research focuses on effective learning and teaching and she is the author of a number of books, including *Self Evaluation: Helping Students Get Better At It*.

"Ken's knowledge of the university and his commitment to highlighting teaching excellence have been invaluable assets," said Professor Vivek Goel, vice-president and provost. "Carol's experience as a participant and a leader in programmatic changes at OISE and her ongoing interest in effective teaching and learning will allow her to apply this knowledge on a broader scale to the benefit of the entire university."

UTSC Communication Café helps newcomers with language fluency

BY CATHY BAILLIE

Lecturer Elaine Khoo has sparked a wave of academic excitement among English-as-a-second-language students at U of T Scarborough through the creation of the Communication Café.

This initiative, part of the growing English language development program, began in 2005 with 42 participants. Today, the Communication Café, which is offered thrice weekly in the first five weeks of the semester, involves more than 600 students who engage in fun and fulfilling one-and-a-half hour sessions of games and intellectually stimulating exchanges with their peers.

Through these pedagogical games, designed by Khoo and her team, the café helps students to improve the way they articulate their thoughts, develop critical and creative thinking as well as expand their academic vocabulary within a safe and comfortable environment.

Chang (Tetty) Liu, a first-year management student, describes her new-found confidence after participating. "The Communication Café has made me see that communication is not as hard as I thought and it could be just as fun as playing a game."

"I want students to feel that they can achieve an accelerated rate of development in English and that they stand a good

chance of enjoying academic success at university," said Khoo, who is also the English language development co-ordinator at UTSC's writing centre.

These sentiments are unmistakable in Khoo's recent publication, *Beating the Odds: Success Stories of Students Overcoming English Language Challenges*, which outlines the experiences of seven students in the English language development program at UTSC.

One such student is Adam Liu, a third-year international studies co-op and political science student, who joined the Communication Café a year after arriving in Canada in 2005.

"I felt quite strongly in first year that I was alienated from my tutorials as I would always sit inconspicuously in corners for fear of showing my lack of fluency," Liu said. "The Communication Café has been an effective avenue through which I have been transformed from a silent individual in tutorial into a proactive and visible participant."

Khoo will be leading a roundtable discussion entitled *Developing Learner Autonomy Through Self-Assessment* at the Office of Teaching Advancement Jan. 23. Please visit www.utoronto.ca/ota/events/07-08EventDescription.html to register.



Left to right: Dr. Barry Korzen, dentistry's assistant dean (development and continuing dental education), Professor David Mock (dean of the Faculty of Dentistry) and emcee Monica Matys of CTV News officially open the new Centre for Continuing Dental Education.

Dentistry opens state-of-the-art continuing education centre

BY MARIA SAROS LEUNG

The Faculty of Dentistry's new Centre for Continuing Dental Education, which officially opened on Jan 10, is the first university-based centre for continuing dental education in Canada.

While the faculty has been offering continuing dental education for many years out of its home on Edward Street, the new facility now makes it possible to offer more programming to more dental professionals.

Dentists in North America are required to complete continuing education courses to renew their licenses. In Ontario, dentists must earn 90 continuing education points in a three-year period to maintain licensure. The faculty's approach to cutting-edge continuing education is renowned among the professional community so its courses are in demand,

explained Dr. Barry Korzen, assistant dean of continuing education at dentistry.

"We offer strictly evidence-based courses. We are able to give dentists more theoretical and hands-on courses from a scientific point of view than they can receive anywhere else in Canada," Korzen said.

"The Faculty of Dentistry

"This is a major step forward for dentistry and the University of Toronto."

has always had an excellent reputation for meeting its obligation to the profession by providing high quality continuing education programs," added Professor David Mock, dean of dentistry. "In the past, the availability and quality of space available has been a major limiting factor; however, this new

state-of-the-art facility has eliminated such restrictions."

The increase in space offered by the centre, located at 1440 Don Mills Rd. in Toronto, has stimulated new programming options, including new longer-term courses in dental implants and cosmetic dentistry. More than \$500,000 in funds and state-of-the-art equipment were donated to the centre. The new facility has a large lecture hall and stations for 32 individuals in a simulated laboratory environment.

The centre will offer programming for all dental professionals, including dental hygienists, assistants and technologists.

"We plan to expand the breadth of our offerings, not only to the dental profession but the healthcare community in general," Mock noted. "This is a major step forward for dentistry and the University of Toronto."

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COMPETITIVENESS: U OF T PREPARES ONTARIO FOR THE GLOBAL MARKETPLACE

As Canada faces the threat of the higher dollar, here are three ways U of T is helping to compete

engineering

DESIGNING CURRICULUM FOR GLOBAL COMPETITIVENESS

BY MARIA SAROS LEUNG

Beginning in 2008, the Faculty of Applied Science and Engineering will offer an energy systems program that allows students to compete in Ontario and beyond. The option, available through the undergraduate engineering science program, will prepare students to address the challenge of global energy generation and management by emphasizing not only the technical aspects of energy systems but public policy and environmental science as well.

Innovative curricula are just one of the ways the faculty is preparing students for the global workplace, said Dean Cristina Amon. With programming tailored to the changing engineering landscape, an emphasis on creative problem solving and mentoring opportunities, the faculty is ensuring its students are prepared to take on leadership

positions once they graduate.

"We start with a great crop of students and provide incentives to develop their creativity," said Amon. "We're always looking ahead so we can prepare our students and position engineering education at U of T and in Canada for what lies ahead."

The energy systems option is only one example of the faculty's innovations in recent years. In 2001, it became the first in the world to offer an undergraduate nanoengineering option.

Arash Joushaghani is a fourth-year nanoengineering student who was drawn to the field because of its interdisciplinary nature. "Nano is where boundaries of physics, biology and chemistry collapse. It's about making the connections between the different fields."

He plans to pursue graduate studies and credits the opportunity to work alongside some of the most notable names in nanotechnology during summer research opportunities for giving him a competitive edge.

"We're trying to build a research community which includes multiple professors and students collaborating in strategic areas. A flow of information and discussion about research topics includes students," said Professor Stewart Aitchison, the faculty's vice-dean (research). "Even if students decide not to go on to graduate school, research teaches a lot of investigative and problem-solving skills that can be transferred to a whole range of activities."

The faculty is committed to encouraging creative problem solving early on in its degree programs. The engineering strategies and practice course for first-year students, piloted in 2003 and rolled out to all students in 2005, has students form small groups and work with organizations, often non-profits, who are looking for innovative and inexpensive ways to tackle problems. A walker that sounds an alarm if it goes off its wheels and a canoe custom-made for physically challenged people are two examples of the students' work.

"Students are thinking in creative ways and developing attitudes on how they can apply an innovative solution to a problem. It's our approach, from day one, creating solutions that did not exist before," said Amon.

The faculty is also committed to

instilling leadership skills in students. Its Leaders of Tomorrow program, launched in the chemical engineering program in 2002 and made available to all students in 2006, links students with leading professionals who offer workshops with practical tips on team building, networking and conflict management.

"WE'RE ALWAYS LOOKING AHEAD SO WE CAN PREPARE OUR STUDENTS AND POSITION ENGINEERING EDUCATION AT U OF T AND IN CANADA FOR WHAT LIES AHEAD."

DEAN CRISTINA AMON

Understanding the global workplace, where graduates must now compete and contribute, is a critical component in producing engineering leaders, said Amon. She has established a task force to examine the impact of globalization in engineering and what these changes mean to engineering education.

"It could mean more international exchange opportunities for students, as one example," said Professor William Cluett, chair of engineering science. "We want our students to develop a mindset for tackling problems with a specific community in mind." The task force will also recommend ways to increase the faculty's international presence and its number of international students.

Professor Grant Allen, vice-dean (undergraduate studies), said the task force's findings, due in spring 2008, will impact the education offered at the faculty. "How should we incorporate issues of globalization in our curriculum? How can we effectively contribute in the new global environment? We are looking at that in a very focused way. I expect some profound changes that will impact our curriculum."

computer science

FROM X-BOX TO WORLD STAGE

BY ANJUM NAYYAR

All those hours playing video games in their spare time is paying off for 20 undergraduate computer science students who are receiving credit for their expertise.

The computer industry will be key for Ontario's competitiveness, but fewer and fewer students are choosing to study computer science. It's a trend seen across North American universities where enrolment in computer science programs dropped by 70 per cent from 2000 to 2005.

To reverse this trend the Department of Computer Science is offering fourth-year students an introduction to the process of game design and the history, social issues and story elements behind video games. The new half-course is all part of the department's mission to give students more of what they want and make them more marketable to employers in a changing workplace.

"The aim is not so much to teach students about gaming as it's to take something they're excited about and use it as a vehicle to teach them computer science," said Professor Craig Boutilier, chair of the computer science department.

"We want to attract students to the discipline and we want to expose them to the latest and greatest cutting-edge techniques because it makes them more attractive to employers."

Since the gaming course started in September, Professor Steve Engels said three major game companies, EA Games, Ubisoft and Microsoft, have all visited his lectures and spoken to students.

"The companies see this course being offered at U of T and they want to be right in on it. They want to know that these graduates will come out and work for them because they know that U of T is trustworthy."

The course, capped at 20 students,

"... about half of our undergraduates are exposed to some research experience before they graduate."

PROFESSOR CRAIG BOUTILIER



is based on a real-life, year-long game design cycle compressed into three months. It teaches students to design a full playable video game, looking at how to design good characters, good levels and graphics and how to make characters seem real using artificial intelligence.

One student's game design has already led to an offer to join Ubisoft's team in the future.

Boutilier said one of the other changes the department has made in the undergraduate curriculum is to introduce two new programs — artificial intelligence and bioinformatics — that draw on its strengths. Both have now become



prosperity institute

THE SOCIAL SCIENCE OF COMPETITIVENESS

...CONTINUED FROM PAGE 1
creativity and embracing lifelong learning once they enter the workforce, Stolarick said.

"In fast-paced, frequently changing fields, universities need to focus on teaching students how to learn. Learning is at least career long, if not life-long. Students that are prepared to learn even more as soon as they graduate are the ones that are going to be the most successful."

One of the new institute's mandates will be to translate prosperity research into teaching programs at Rotman.

In fact, Stolarick said, the "prosperity" under investigation at the new institute is not about making the rich richer. "When we talk about prosperity, it's not just financial. It can mean improving health and education for citizenry, improving the environment, allowing more people to realize their dreams. There are these different kinds of measures you can use."

Jurisdictional advantage, the study of how places (including provinces) can compete to attract both

companies and individuals, is one of its key components. In that respect, U of T students already have a leg up on many others because they are studying in one of the world's 30 "fast cities" — hubs of creativity, multiculturalism and innovation ripe for attracting the best and the brightest.

Last year, *Fast Company* magazine published a list of these metropolises on its website — Stolarick contributed data to the rankings — and Toronto made the grade, in the company of Ho Chi Minh City, Berlin, Shanghai and San Francisco.

"With jurisdictional advantage, there are things that you can do in the realm of city boundaries that have impact," Stolarick said. "In addition to the research piece, there's an engagement piece at the institute. We'll do our own work, find great research that people have done and develop educational programs for decision-makers and policy-makers in an executive education setting or help students either at the undergraduate commerce level or MBA level before they enter the workforce."

ENGINEERING (FAR LEFT): The innovative biowall in the Galbraith Building is a symbol of the engineering faculty's drive to keep ahead of industry trends.

COMPUTER SCIENCE (LEFT)

Top (left to right): Students Shae Birch, Mark Cautillo who wrote the gaming software, Elena Flat (background) and May Solis (foreground) test a new video game.

Bottom (left to right): Jing Feng tries a video game as creator Daniel Steger explains the rules.

PROSPERITY INSTITUTE (TOP): Kevin Stolarick, associate director of U of T's Lloyd and Delphine Martin Prosperity Institute, believes Toronto has jurisdictional advantage in attracting talent.

PHOTOS BY CAZ ZYVATKAUSKAS



Exploring Bio Business

Join us for our continuing series on BioEntrepreneurship with a session that examines the global regulatory pathways required to get new drugs to market: successful strategies and potential pitfalls.

BIOENTREPRENEURSHIP Navigating the Global Regulatory Path for New Drugs

January 16 This session will explore the how-to's of the regulatory approvals process, including a review of the submissions required to be filed for conducting clinical trials in the U.S., Europe or Canada. The speaker will also cover marketing applications for these three regions as well as how the International Conference on Harmonization fits into the overall regulatory scheme of drug development.

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Frosh Diary BACK TO SCHOOL BY BEA PALANCA

Monday, Jan. 7
6:10 a.m.

Good Morning! I know, I know it's six o'clock in the morning, on the first day back to school! I actually woke up slightly before 5 a.m. I don't remember the last time that happened ...

Well, what a way to start this fine back-to-school day! I know that everyone was dreading going back, even if just the slightest bit. School is school is school. There is no other way around it. But having had three weeks off school (hehe, suckers!), I feel that that was a fair amount of time to rest. Yet, I still want more.

Tuesday, Jan. 8

I am never going to read my column out loud. Ever.

Last night, while waiting for another friend in the Arbor Room, Jenny spotted the last article in *the Bulletin* that I wrote before the break. Our friend Leslie, didn't know that I write.

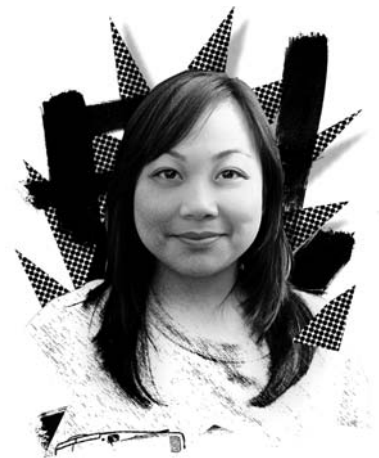
All in good fun, Jenny and Leslie decided to read the article aloud, together. It sounded even lamer than normal, hearing it from their mouths. So I ended up entertaining them and saving me from their sad renditions, with my spoken version of the article. Ha-ha-ha. In truth, it was very fun to read aloud.

Noon

I met my Physics 101: Patterns From Chaos professor today — we had our first class. I heard from a second-year friend that the prof would be funny; he did not disappoint. He introduced himself as our “host.” From what I have seen, his “performances” will be able to hold my attention for two hours a week. Here's hoping!

Wednesday, Jan. 9
9:55 p.m.

I got an extremely crummy mark on an even more heinous anthropology paper! It is very discouraging because my professor was also disappointed. I know I could have tried harder and spent more time on it. Julia, who is also in the seminar, told me not to think about it so much ... but it's a hard blow during the first week back. Ahh...! After receiving another poor mark



(announcing: a 'C+') in French, I really need to push, push, push myself.

Hey, laugh all you want at the marks I've announced, but this is U of T and this is life. I am here to struggle, to strive and to survive.

Happy New Year, everyone.

Bea Palanca is a first-year University College humanities student. She shares her first-year experiences with the Bulletin on a regular basis.



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LETTERS TO THE EDITOR

**Sorry to hear Nick's moving on**

I read Nick's last article and am sorry to hear he is moving on (Vale, adieu, farewell, Nov. 27). I really enjoyed all of his work while I was at U of T and since I retired. I guess since we are from the same generation, I could relate to his brand of humour. I never got a chance to tell him how much I admired his work. Could you pass this along to him for me?

KEN HINE
TORONTO

Pashley's absence will be felt

I just read Nick Pashley's column in *the Bulletin* and see that he's retiring as one of your contributing writers (Vale, adieu, farewell, Nov. 27). The man truly is a diamond in the rough and I hope that every effort has been made to try and convince him to stay on. Offer him another pint of beer for lunch ... whatever ...

just get him to stay on. I've worked at U of T for going on 34 years and had the pleasure and honour of working with Nick for many of those years. He always seemed to have time to talk and when he did he ultimately left you with a smile on your face. When he retired from the Bookstore there was a definite void that will never be replaced. Now he's abandoning us as a writer for the *Bulletin*. The fact he's written for *the Bulletin* for so long is a testament to his ability to bring both humour and sarcasm to civic events when it is needed most. You will feel his absence. As will the university as a whole.

MIKE O'HEARN
U OF T BOOKSTORES

Pashley's leavening will be missed

I wanted to let you know how sorry I was to learn that Nick Pashley's column in the Nov. 27 *Bulletin* was going to be his last (Vale, adieu, farewell). I have always enjoyed his writing and appreciated his viewpoint on the U of T experience as a former student and staff member, both in "olden days" and the present "happenings." I am particularly saddened that his glibness/facetiousness seems

not to have been welcomed. I can only say that I am going to miss the leavening that he brought to the sometimes deadly earnestness of *the Bulletin*.

MARGARET STREADWICK
UNIVERSITY ADVANCEMENT

Say it isn't so

Vale, adieu, farewell to Nick Pashley (*the Bulletin* Nov. 27)? Please say it isn't so! On the Other Hand is a welcome breath of fresh air and we'll certainly miss it.

CHARLES AND PLEASANCE
CRAWFORD
TORONTO

LETTERS DEADLINES

JANUARY 18 FOR JANUARY 29
FEBRUARY 1 FOR FEBRUARY 12
FEBRUARY 15 FOR FEBRUARY 26

We'd love to hear from you. Just remember that letters are edited for style and sometimes for clarity. Please limit the number of words to 500 and send them to Ailsa Ferguson, associate editor, fax: 416-978-7430; e-mail, ailsa.ferguson@utoronto.ca. When submitting letters please include a telephone number.

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Friday January 11, 2008 at 12:00 noon

Nominations Close:

Friday January 25, 2008 at 5:00 pm

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3-year terms from July 1, 2008 to June 30, 2011:

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- Law: 1 seat
- Medicine: 4 seats
- Nursing: 1 seat
- OISE/UT: 1 seat
- UTM: 1 seat
- UTSC: 1 seat

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1-year term from July 1, 2008 to June 30, 2009:

- Applied Science and Engineering: 1 seat
- Arts and Science: 1 seat

Nomination Forms will be available beginning 12:00 noon, Friday January 11, 2008 at:

- www.governingcouncil.utoronto.ca
- Office of the Governing Council
Simcoe Hall
27 King's College Circle, Room 106
- Registrar's Office, UTM
- Registrar's Office, UTSC

Work of the Academic Board:

The Academic Board of the Governing Council is composed of 117 members, 48 of whom are elected teaching staff.

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- Academic discipline
- Research policy

Questions?

Please contact Nancy Smart, Chief Returning Officer at: nancy.smart@utoronto.ca or 416-946-7663

The membership of the Governing Council should reflect the diversity of the University. Nominations are encouraged from a wide variety of individuals.

NOTE: Multi-departmental faculties have agreed that no more than one teaching staff member may be elected to the Academic Board from any one department.

www.governingcouncil.utoronto.ca/elections

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Friday January 11, 2008 at 12:00 noon

Nominations Close:
Friday January 25, 2008 at 5:00 pm

Positions Available:

8 Students
1-year term from July 1, 2008 to June 30, 2009:
• 4 full-time undergraduate students
• 2 part-time undergraduate students
• 2 graduate students

4 Teaching Staff
3-year terms from July 1, 2008 to June 30, 2011:
• Faculty of Arts and Science (Departments of Anthropology, Economics, Geography, History, Philosophy, Political Science, Psychology, Sociology, and Centre for the Study of Religion)
• University of Toronto at Mississauga
• Faculty of Architecture, Landscape, and Design, Rotman School of Management, Faculty of Forestry, Faculty of Information Studies, Faculty of Law, Faculty of Music and the Factor-Inwentash Faculty of Social Work
• OISE/UT

Nomination Forms will be available beginning 12:00 noon, Friday January 11, 2008 at:
• www.governingcouncil.utoronto.ca
• Office of the Governing Council Simcoe Hall 27 King's College Circle, Room 106
• Registrar's Office, UTM
• Registrar's Office, UTSC

Work of the Governing Council:
The Governing Council is composed of 50 members, including the President, Chancellor, 16 government appointees, 2 administrative staff and 2 presidential appointees.

As the University of Toronto's senior governing body, it oversees the University's academic, business and student affairs. Decisions approved by the Governing Council affect all members of the University community.

Council and its Boards approve:
• Academic and incidental fees
• Establishment of new academic programs
• Admissions and awards policies
• University's budget and financial matters
• Campus planning and capital projects
• Personnel policies
• Campus and student services
• Appointment of senior administrators

Questions?
Please contact Nancy Smart, Chief Returning Officer at: nancy.smart@utoronto.ca 416-946-7663

The membership of the Governing Council should reflect the diversity of the University. Nominations are encouraged from a wide variety of individuals.

www.governingcouncil.utoronto.ca/elections

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- How Do I Know I Have Heart Disease? A Woman's Guide to Diagnosis & Treatment – Dr. Mina Madan, Cardiologist
- Women, Coronary Artery Disease and Prevention: Are We Different? – Dr. Shaheeda Ahmed, Cardiologist
- Traditional Chinese Medicine for Women & Heart Health – Special Guest Dr. Xiaolan Zhao, Traditional Chinese Medical Doctor (CMD) & Author of *Reflections of the Moon on Water: Healing Women's Bodies and Minds Through Traditional Chinese Wisdom*

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Evelyn Sommers, Ph.D., Psychologist, provides psychotherapy and counselling for individuals and couples from age 17. Covered under U of T benefits. Yonge/Bloor. Visit www.ekslibris.ca; call 416-413-1098; e-mail for information package, eks@passport.ca

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114

Maitland St. (Wellesley and Jarvis). 416-570-2957.

Dr. Cindy Wahler, Registered Psychologist. Yonge/St. Clair area. Individual and couple psychotherapy. Depression, relationship difficulties, women's issues, health issues, self-esteem. U of T extended healthcare plan covers psychological services. 416-961-0899. cwahler@sympatico.ca

Dr. Carol Musselman, Registered Psychologist. Psychotherapy for depression, anxiety, trauma and other mental health needs, relationship problems, issues related to gender, sexual orientation, disability. Covered by extended health plans. 455 Spadina (at College), #211. 416-568-1100 or cmusselman@oise.utoronto.ca; www.carolmusselman.com

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Dr. Scott Bishop, Registered Psychologist. Offering psychotherapy and psychoanalysis. Anxiety, depression, trauma, addictions, work stress and burnout, loss/grief, recurrent interpersonal problems, substance abuse, identity issues. U of T healthcare benefits apply. 14 Prince Arthur Avenue (Bloor and Avenue). 416-929-2968 or scott.bishop@bellnet.ca

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IN MEMORIAM
PETER JOHN HARE

Passed away November 29, 2007 at the age of 82. A graduate of Forestry in 1948, he served on the executive of his faculty alumni association, as well as the University of Toronto Alumni Association. In 1989, he was awarded the Alumni Service Award (the predecessor of today's Arbor Award.) He was a dedicated long-term member of the Soldiers' Tower Committee and the Senior Alumni Association. The SAA have established a scholarship in his name in the Faculty of Arts and Science, to be given yearly to a student in Environmental Studies. It is a fitting tribute for a man who gave so much.

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LECTURES

Alashiya Rising: Cyprus in the Late Bronze Age.
Wednesday, January 23
Prof. Kevin Fisher, anthropology, 213 Old Victoria College Building. 5:15 p.m. *Archaeological Institute of America, Toronto Society*

SEMINARS

Mapping the Social Economy: Three Views.
Wednesday, January 16
David Lashy, Imagine Canada; Mark Ventry, Ontario Co-operative Association; and Sherida Ryan, OISE/UT. 12-100 OISE/UT, 252 Bloor St. W. Noon to 1:30 p.m. *Social Economy, OISE/UT*

Hysteria to Neuroscience: Psychiatry's Struggle to Bring Together Mind and Body.
Wednesday, January 16
Presenters: Profs. Anthony Feinstein, Gary Rodin and Edward Shorter, psychiatry; Jon Hunter, moderator. David & Vivian Campbell Conference Facility, Munk Centre for International Studies. 5 to 7 p.m. *Psychiatry*

Use of 911 Ambulance Dispatch Data for the Syndromic Surveillance of Heat-Related Illness in Toronto: Summer 2007.
Thursday, January 17
Kate Bassill, PhD candidate, and Prof. Donald Cole, public health sciences. 177 University College. 1:15 to 2:45 p.m. *Urban Health Initiatives*

Role of Cholinergic and GABAergic Basal Forebrain Neurons in Modulating Cortical Activity and Behavioural State.
Friday, January 18
Prof. Barbara Jones, McGill University. B150 Leslie Dan Pharmacy Building. 1 p.m. *Cell & Systems Biology*

Looking for TrUbl: Using Mass Spectrometry to Study the Ubiquitin-Like Proteins.
Monday, January 21
Prof. Brian Raught, medical biophysics. 2172 Medical Sciences Building. 4 p.m. *Laboratory Medicine & Pathobiology*

Reducing HIV Stigma and Discrimination: Developing a Best Practice Model.
Wednesday, January 23
Carmen Logie, HCTP fellow, PhD student social work, speaker; Jack Butler, HCTP adjunct mentor, interdisciplinary artist, discussant; Monir Moniruzzaman, HCTP doctoral fellow anthropology, moderator. 100 Health Sciences Building, 155 College St. 3 to 5 p.m. *Health Care, Technology & Place*

Genome Duplication and Origin of Robustness.
Friday, January 25
Prof. Zhaolei Zhang, Banting & Best Department of Medical Research. 432 Ramsay Wright Building. 1 p.m. *Cell & Systems Biology*

Did the Oncogene Revolution Set Back Clinical Oncology?
Monday, January 28
University Prof. Tak Mak, medical biophysics. 2172 Medical Sciences Building. 4 p.m. *Laboratory Medicine & Pathobiology*

Imagining the Future: How Skepticism Can Renew Philosophy of Religion.
Monday, January 28
Prof. John Schellenberg, Mount St. Vincent University. Centre for the Study of Religion, 123 St. George St. 4 to 6 p.m. *Study of Religion*

Dementia in Later Life: The Coming Storm.
Wednesday, January 30
Prof. William Reichman, psychiatry. Suite 106, 222 College St. Noon to 1:30 p.m. *Life Course & Aging*

MUSIC

FACULTY OF MUSIC EDWARD JOHNSON BUILDING Thursdays at Noon.
Thursday, January 17
Gillian MacKay, trumpet. Walter Hall. 12:10 p.m.

Thursday, January 24
Part of Musica Ficta/Lived Realities: A Conference on Engagements and Exclusions in Music, Education and the Arts, lecture by Deborah Wong, Wilma & Clifford Smith visitor in music. Walter Hall. 12:10 p.m.

Chamber Music Series.
Monday, January 21
St. Lawrence String Quartet. Walter

Hall. 7:30 p.m. Tickets \$22, students and seniors \$14.

Voice Performance Class.
Tuesday, January 22
Student performances. Walter Hall. 12:10 p.m.

Tuesday, January 29
Oratorio ensembles. Walter Hall. 12:10 p.m.

Opera Teas.
Sunday, January 27
Party pieces. MacMillan Theatre stage. 2:30 p.m. Tickets \$26.

New Music Festival.
Monday, January 28
Gryphon Trio. Walter Hall. 7:30 p.m. Tickets \$22, students and seniors \$14.

Tuesday, January 29
Composers forum; George Tsontakis discusses his music. 7:30 p.m. Geiger Torel Room.

Wednesday, January 30
Music for clarinet and electronics. Walter Hall. 12:10 p.m.

FILMS

House Calls.
Wednesday, January 23
A documentary that follows Dr. Mark Nowaczynski as he makes his house calls to three of his elderly patients; third forum in the Knowledge Translation in Motion: A Film and Performance Series About Issues in Health Care. 106 Health Sciences Building, 155 College St. 5:30 to 7:30 p.m. *Health, Technology & Place*

PLAYS AND READINGS

Criminals in Love.
Wednesday to Saturday, January 16 to January 26
By George Walker, directed by Andrea Wasserman. Hart House Theatre production. Hart House Theatre. Performances at 8 p.m.; Saturday matinee, Jan. 26, 2 p.m. Tickets \$20, students and seniors \$12.

EXHIBITIONS

U OF T ART CENTRE On a Tear.
To January 26
The giclée prints on view are from the On a Tear series — photographs of the resulting collages from tearing paper. Art Lounge. Hours: Tuesday to Friday, 10 a.m. to 5 p.m.; Saturday, noon to 4 p.m.

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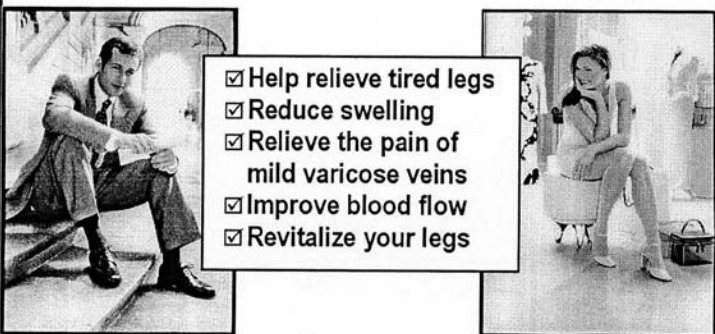
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COMMITTEES

SEARCH

CHAIR, DEPARTMENT OF ENGLISH
A search committee has been established in the Faculty of Arts & Science to recommend a chair of the Department of English. Members are: Professors Pekka Sinervo, dean, arts and science (chair); Suzanne Stevenson, vice-dean (students), arts and science; Parth Bhatt, chair, French; Linda Hutcheon, John Baird, Michael Cobb and Sara Salih, English; Elspeth Brown, study of the United States; Susan Lamb, humanities, UTSC; and Leslie Thomson, English and drama, UTM; and Tanuja Persaud, administrative staff, English; Sarah Copland, graduate student, and Timothy Harrison, undergraduate student, English; and Vera Melnyk, director, office of the dean (secretary).

The committee would appreciate receiving nominations and/or comments from interested members of the university community. These should be submitted to Professor Pekka Sinervo, dean, Faculty of Arts & Science, Room 2005, Sidney Smith Hall.

CHAIR, DEPARTMENT OF SOCIOLOGY
A search committee has been established at U of T Mississauga to recommend a chair of the Department of Sociology. Members are: Professors Gage Averill, vice-principal (academic)

and dean (chair); Blair Wheaton, sociology, St. George campus; Marion Blute, Barry Green, Paula Maurutto and Weiguo Zhang, sociology; and Tracy Rogers, anthropology; and Julie Waters, undergraduate adviser, sociology; and Noella Ramos, undergraduate student.

The committee would appreciate receiving nominations and/or comments from interested members of the university community by Jan. 22. These should be submitted to Professor Gage Averill, vice-principal (academic) and dean, Room 3135 South Building.

CHAIR, DEPARTMENT OF ECONOMICS
A search committee has been established at U of T Mississauga to recommend a chair of the Department of Economics effective July 1. Members are: Professors Gage Averill, vice-principal (academic) and dean (chair); Arthur Hosios, chair, economics, St. George campus; Andres Erosa, Lee Bailey, Gueorgui Kambourov and Xiaodong Zhu, economics; and Catherine Seguin, management; and Lorna Taylor, business officer, economics; and Carol Sun, undergraduate student.

The committee would appreciate receiving nominations and/or comments from interested members of the university community by Jan. 22.

These should be submitted to Professor Gage Averill, vice-principal (academic) and dean, Room 3135 South Building.

DIRECTOR, WOMEN AND GENDER STUDIES INSTITUTE
A search committee has been established in the Faculty of Arts & Science to recommend the appointment of a director of the Women & Gender Studies Institute. Members are: Professors Pekka Sinervo, dean, arts and science (chair); David Klausner, vice-dean (interdisciplinary affairs); Berry Smith, vice-dean (students), graduate studies; Kathryn Morgan and Ashwini Tambe, Women & Gender Studies Institute; Kerry Rittich, law; and Joan Simalchik, history and classics, UTM; and June Larkin, undergraduate co-ordinator, and Angela Fleury, administrative staff, Women & Gender Studies Institute; Cassandra Lord, graduate student, and Sarah Eisen, undergraduate student, Women & Gender Studies Institute; and Vera Melnyk, office of the dean (secretary).

The committee would appreciate receiving nominations and/or comments from interested members of the university community. These should be submitted to Professor Pekka Sinervo, dean, Faculty of Arts & Science, Room 2005, Sidney Smith Hall.

**BLACKWOOD GALLERY
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**Signals in the Dark:
Art in the Shadow of War.**
January 16 to March 2

Showing both at the Blackwood Gallery and the Justina M. Barnicke Gallery at Hart House, this interdisciplinary exhibition explores contemporary art's relationship to war and its representations. Gallery hours: Monday to Friday, 11 a.m. to 5 p.m.; Sunday, 1 to 5 p.m.

**DORIS McCARTHY GALLERY
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**Paragons: New Abstraction From
the Albright-Knox Art Gallery.**
January 17 to March 9

Artists include David Batchelor, Tim Bavington, Andy Collins, ChanSchatz, Karin Davie, Rachel Lachowicz, Lim Lambie, Roxy Paine, Lisa Stefanelli and Sue Williams. Gallery hours: Tuesday to Friday, 10 a.m. to 4 p.m.; Sunday, noon to 5 p.m.



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FOSTERING STUDENT SUCCESS

Enriching the experience inside and outside the classroom

By Corey Goldman

What does it mean to be a successful undergraduate student? What is the purpose of post-secondary education? What qualities do prospective employers seek from recent graduates? These are some of the important questions to consider when asking ourselves, What is the undergraduate “student experience”? and, What can we each do to support student learning, development and success?

Students will often say that they are successful when they have achieved their goals and aspirations. Faculty and staff often define student success in terms of students demonstrating academic competence in their courses. Academic competence alone is insufficient, as there are many dimensions to defining a successful student.

The authors of *Challenging and Supporting the First-Year Student: A Handbook for Improving the First Year of College* identify eight dimensions that define the successful first-year student. These can be expanded to characterize any successful undergraduate student. Successful students:

- develop intellectual and academic competence, including learning how to learn and appreciating what it means to be an educated person;
- are effective in establishing and maintaining interpersonal relationships;
- explore identity development (who they are); consider career goals; maintain health and wellness, leading a healthy life and dealing with stress;
- reconsider and internalize what they believe and value;
- develop an awareness and appreciation of diversity; and
- develop community and civic responsibility.

Students are often unaware of why they are attending university, other than increasing their chances of getting a better job upon graduation. A transformation in their attitude often occurs when they realize that the purpose of higher education is three-fold: acquiring knowledge for personal growth, learning to become engaged citizens and serve the public good, and learning to prepare for future employment.

An awareness of the qualities sought by prospective employers can help us better understand how we can best prepare our students for future employment. It is also useful to help students realize that it is often not the specific *content* they learn in their classes that is most important; rather it's the skills they acquire during the learning *process*. The top performance dimension most often sought by prospective employers is interpersonal skills, followed by integrity, leadership, perseverance, and, lastly, knowledge, according to student development researchers.

The student experience is now part of the institutional vocabulary in universities

and colleges across North America. Research universities now include “enhancing the student experience” as an institutional goal. But what do we mean by the student experience?

The two most important elements are student satisfaction with their courses (content and quality of instruction) and satisfaction with their grades (grades are reflective of effort and understanding). Next is connection to a community on campus, followed by a supportive campus environment.

Contented students are genuinely interested in the content of their courses. Their instructors provide a supportive learning environment and demonstrate the relevance of the course material; actively engage students and guide student learning; are deeply interested in and excited about the material they are teaching, striving to motivate, inspire and model how scholars practise and engage in their discipline; and are open to new ideas and demonstrate

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that they too are students and that learning is lifelong.

Satisfied students believe that the grades they are receiving in their courses reflect their effort and understanding. Their instructors define clear expectations for assignments and tests and have realistic expectations for grade distributions. Their instructors also employ an “early warning system,” whereby students who are not doing well are contacted early in the course and informed of where they can obtain help.

Connection to a community on campus is another key element of the student experience. A “community” is an association of individuals that have mutual relationships and function to some degree as a unit, such as clubs, teams, academic programs and online communities. It is within these communities that students nurture many of the attributes required of a successful student such as maintaining interpersonal relationships and developing leadership skills. Communities often provide an important forum for peer support, as well as the creation of meaningful and lasting friendships.



JACQUI OAKLEY

A supportive campus environment is the foundation of a positive student experience and sends a clear, consistent message to students that staff and faculty are here to help students learn. This includes access to study and activity spaces, academic and non-academic advising, required courses and athletics and recreation, to mention just a few of the many campus services required to support student learning.

A positive student experience is characterized equally by the out-of-class experiences as those that occur within the classroom. Out-of-class experiences such as community service, leadership opportunities and involvement in co-curricular activities have positive effects on academic and cognitive learning, facilitated in part by increased opportunities for interactions with peers, faculty and staff.

First-year students face special challenges, among them a lack of preparedness and learning skills required to cope with the academic expectations of undergraduate course work, a declining sense of community and a confusion and frustration caused by the size and complexity of the university.

Many entering students require assistance to ease their transition from high school to university and help with understanding and developing the strategies and skills they need to be independent learners and successful university students. The strategies and skills students develop in their first year are those they carry into upper years.

The goals of classroom and departmental transition initiatives should include helping first-year students:

- make new friends and develop a supportive peer network;

- adjust to the teaching style at university, including becoming familiar with the culture and expectations of the institution and the expectations of instructors, and how to be successful in an environment where students are responsible for their own learning;
- become familiar with the university resources, facilities and services that will assist them achieve their personal and academic goals.

Transition initiatives should encourage positive attitudes and stimulate an excitement for learning and promote the idea that a university education is more than attending classes thus encouraging students to participate in out-of-class campus activities.

The role of faculty is to teach as well as to help students learn. The involvement of faculty in the lives of students outside of the classroom, as advisers and mentors, is also key to student success. The degree to which faculty embrace each of these roles can greatly increase the institution's success in enhancing the student experience.

However, students are ultimately responsible for their success. They are more likely to succeed when they are treated with dignity and respect and are taught the strategies and skills they need to be successful. It is the institution's responsibility to create an environment that both challenges students and supports such success.

Corey Goldman, a President's Teaching Award winner, is a senior lecturer and associate chair (undergraduate) in the Department of Ecology and Evolutionary Biology. He is also the director of the First-Year Learning Communities program in the Faculty of Arts and Science and co-ordinator of the introductory biology course.