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COMPUTER & MATHEMATICAL SCIENCES
HUMANITIES
MANAGEMENT
PHYSICAL & ENVIRONMENTAL SCIENCES
PSYCHOLOGY
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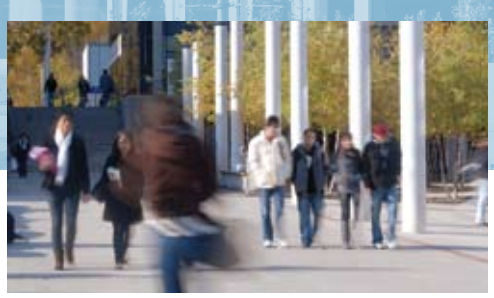
University of Toronto Scarborough
Annual Review 2008

Think: *Ahead*



UNIVERSITY OF TORONTO SCARBOROUGH

The University of Toronto Scarborough has arrived at a new threshold. Recent growth in the campus community has transformed our university and inspired a clear strategic vision for our future.

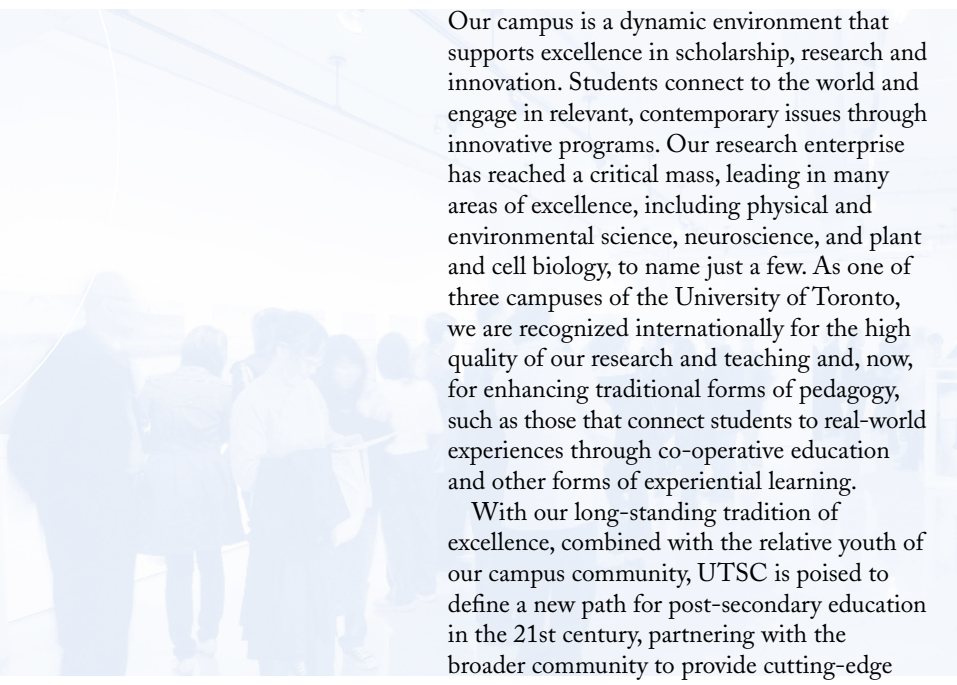
Grounded in excellence, UTSC is an academically rich, comprehensive university campus and a pillar in the tri-campus system of the University of Toronto. Our faculty are exceptional teachers and scholars who are at the forefront of research with global significance.

Thinking ahead, we are embarking on plans that will further our contribution to post-secondary education and research in the 21st century. We are strategically building new capacity and reinforcing our differentiated strengths.

Just as our students are thinking ahead toward their future, at the University of Toronto Scarborough, we are reshaping the thinking and programs that will best prepare them to launch their careers ahead of a changing world.

Principal's Message

The University of Toronto Scarborough (UTSC) is at an important juncture in its growth and development. Having experienced unprecedented growth in recent years, UTSC has doubled in size to a comprehensive, mid-size university campus with a student population of over 10,000. The effect of this growth has been nothing less than transformational.



Our campus is a dynamic environment that supports excellence in scholarship, research and innovation. Students connect to the world and engage in relevant, contemporary issues through innovative programs. Our research enterprise has reached a critical mass, leading in many areas of excellence, including physical and environmental science, neuroscience, and plant and cell biology, to name just a few. As one of three campuses of the University of Toronto, we are recognized internationally for the high quality of our research and teaching and, now, for enhancing traditional forms of pedagogy, such as those that connect students to real-world experiences through co-operative education and other forms of experiential learning.

With our long-standing tradition of excellence, combined with the relative youth of our campus community, UTSC is poised to define a new path for post-secondary education in the 21st century, partnering with the broader community to provide cutting-edge programs, services and opportunities.

In this regard, we have been thinking ahead to the future. Over the past 15 months, we have focused on planning in order to realize the enormous potential of UTSC, not only from an academic perspective, but also in our ability to exert far-reaching influence globally on matters that affect each and everyone of us, whether it is climate change, disease prevention, artistic expression or Third World development.

Together, we have shaped a new vision for UTSC and have already begun to put in place the necessary curriculum and infrastructure. Our focus on five priorities – new and emerging areas of scholarship, experiential learning, internationalism, research and graduate studies, and establishing a sustainable university platform – will position UTSC as a distinct university campus that will continue to attract the best and brightest students, faculty and staff for generations to come.

The momentum we have created is strong. Our scientific enterprise is strengthened by the recently completed Science Research Building. The growth in our faculty complement and the search for additional academic and scientific leaders will propel us forward in new and emerging areas of knowledge. Our department Chairs, as you will learn in this *Annual Review*, are introducing new programs and realigning their departments to respond to the interests of undergraduate and graduate students in the new context that they face in the 21st century. Our fundamental goal is to create an environment that enables each and every student to thrive and learn, to develop fresh perspectives and ways of thinking.

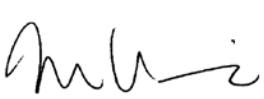
And as we think ahead, our plans for capital expansion will go a long way to address the disconnect between our student needs and our physical space and infrastructure shortage. A new campus master plan will incorporate the views and interests of the communities and businesses of our region, including recreation

facilities and transit services that meet the needs of our community and provide a vital resource for our region.

In challenging economic times such as those we face today, the importance of universities to society is clearer than ever. Our advances in knowledge and innovation, the education of a skilled, creative workforce and our collaborations with government, business and community will drive future prosperity and enhance the quality of life for all. Strengthened by our collective effort, we intend to nurture UTSC's role as an intellectual and cultural anchor, an economic driver in this expanding region of our province.

We have been reaching out and welcoming you. We are grateful for the guidance and insights provided by our outstanding network of alumni, donors and supporters. The feedback that we have received thus far is overwhelmingly positive. We will continue to create opportunities to invite you in, to hear your ideas and to share with you exciting new developments in research and scholarship.

Thank you for working with us to think ahead.



Professor Franco J. Vaccarino
Principal, University of Toronto Scarborough
Vice-President, University of Toronto

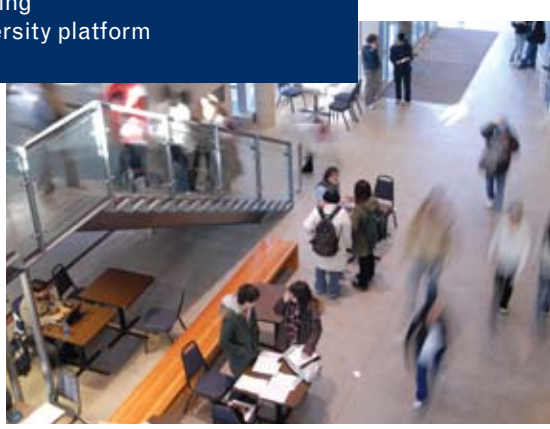
Setting the course for a new kind of campus

Throughout the academic year 2007-08, UTSC students, faculty and administration engaged in a broad strategic planning exercise. Through a process of workshops and discussions, a framework document emerged. Its themes and strategic priorities are guiding academic and resource planning for 2008-09.

UTSC is committed to excellence and innovation in research and teaching by providing an environment that nurtures and supports scholars to make contributions of global significance. Our belief that both research and teaching are central to the educational mission ensures the highest-quality experience possible for our students.

UTSC values:
> research and scholarship
> a broad-based student experience
> a supportive environment for students
> diversity and equity
> partnership and outreach

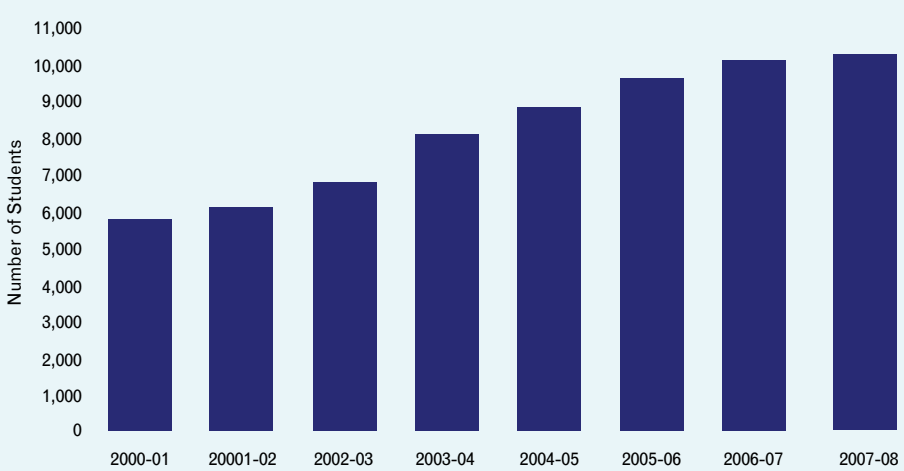
Five strategic priorities set new directions and reinforce areas of strength:
1. New and emerging areas of scholarship
2. Enhanced graduate training
3. Internationalism
4. Experiential learning
5. Sustainable university platform



The World at UTSC

When the University of Toronto Scarborough opened its doors in 1964, it was intended as a satellite campus to accommodate the overflow of undergraduates enrolled at the University of Toronto. Investments in research and teaching capacity have since transformed UTSC into a comprehensive, mid-size university campus. Currently, over 10,000 undergraduate students take more than 1,200 courses annually across a full range of disciplines spanning the arts and sciences. With graduate and research programs on the rise, the number of graduate students in doctoral and professional streams at UTSC increases each year. >>

Student Enrolment, 2001-08



New facilities at UTSC, 2003-08

Opening	Building	Architect
2003	Academic Resource Centre	Brian MacKay-Lyons with Rounthwaite Dick & Hadley
2003	Foley Hall (residence)	Baird Sampson Neuert with Montgomery Sisam Associates
2004	Student Centre	Stantec Architecture (formerly Dunlop Architects)
2004	Management Building	Kuwabara Payne McKenna Blumberg Architects Inc.
2005	Arts & Administration Building	Montgomery Sisam Architects Inc.
2008	Science Research Building	Moriyama & Teshima Architects

Total investment: $122 million

Now a hub in the University of Toronto tri-campus system, UTSC counts many of Canada's top researchers and teachers among its faculty. It also attracts bright, dedicated students. In 2007-08, the average GPA for first-year students applying to UTSC was 82.3 percent. The rise in enrolment since 2001 has been sharp – a remarkable 100-percent increase. In just five years, the physical campus has similarly expanded with six new facilities. The most recent, the state-of-the-art Science Research Building, was erected solely for expanding research activities.

Studying at UTSC reflects the realities of the global economy. International students from over 62 countries represent approximately 10 percent of the student population. However, a much higher percentage includes new Canadians with connections around the world. Proximity to home has made UTSC the university of choice for many first-generation Canadians. UTSC students claim with pride that their campus is one of the most diverse university communities in North America. They value the rich discourse that this engenders in their classrooms.

In response to the high student interest in the global context, UTSC has a growing choice of programs with international relevance and impact. Exchange programs further enable UTSC students to study at more than 100 partner universities in some 30 countries around the world.

Now celebrating its fourth year, Green Path – which translates as "the way to success" in Chinese – exemplifies our unique offerings. In collaboration with top middle (high) schools in China, UTSC designed it as a summer preparatory course for students destined for their first year at the University of Toronto. This highly competitive, 12-week intensive course admits only top students and builds their academic skills in English as a Second Language (ESL) and prepares them for scholarship at the university level. These highly motivated students enter upper-year programs at UTSC and enrich the learning environment for all. Since its inception, the Green Path program has grown tenfold.

UTSC is also recognized as an innovator in experiential learning platforms, evidenced by our new Master of Environmental Science, the first of its kind in Canada (see page 34). Considered the University of Toronto's "co-op campus," UTSC is a long-established leader in successful co-operative programs. Many are shaped through partnerships with leading business and government employers. Joint programs with Centennial College provide other opportunities for students to receive a component of practical experience in their academic program. Internships, service learning and volunteer programs also connect students to the local community.

Having established a number of differentiating strengths as a university, UTSC is making use of the rare opportunity offered by its dramatically expanding student body and faculty complement to think further about its identity and future direction.

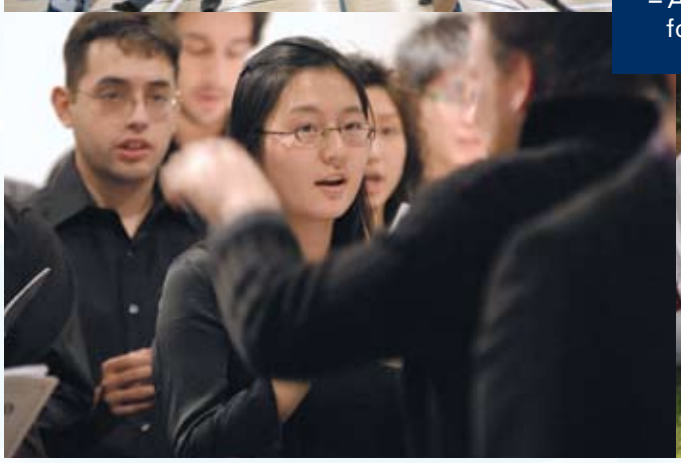
Student experience at a glance

(as of fall 2008)

3,022	first-year students
765	students in residence
1,150	new registrants that attended Get Started program
1,200	first-year orientation participants
200	first-year students in mentorship and engagement programs
3,380	students participating in athletics programs
125	leadership workshops
45	senior mentors helping Black students from local middle and high schools through the Imani Mentorship Program
152	clubs on campus
2,400	students participating in clubs
300	students registered in Access*Ability* Services
430	student volunteer note takers
4,100	visits to an academic advisor or career counselor
11,820	visits to the Health & Wellness Centre

"We have a very multi-cultural campus, and because I'm from the Caribbean, that is really important to me. There are so many different types of students here. You can connect with each and every one of them."

– Aurora Herrera, International Student, fourth-year Journalism



International students come from all corners of the world

(as of 2008)

Focused on student success

In the 10 years since it was established in 1998, the Division of Student Affairs at UTSC has proven that it is critically important to our students' success. Research, both international and national, has long shown that an enriching life outside of class time makes for a more engaged student with a greater sense of belonging and therefore more successful. To this end, Student Affairs has expanded its services and capacity through six areas of support: Academic Advising & Career Centre; Access*Ability* Services; Athletics; Health & Wellness; Student Life & International Student Services; and Student Housing & Residence Life.

Two key themes influence the range of services – co-curricular learning and integrated services. To supplement what students are learning in the classroom, Student Affairs develops programs such as leadership workshops, speaker series, orientations, large-scale and diverse peer mentoring, and living and learning in residence. In November 2008, for example, the division hosted a "Perspectives on Leadership" lecture with Nobel laureate Dr. James Orbinski as guest speaker. Orbinski's audience, of more than 800, primarily students, were engaged by his harrowing experience in health care during the Rwanda genocide.

Recognizing that all aspects of a student's experience at university are connected holistically – from study challenges to personal wellness – Student Affairs provides integrated services whenever possible. The Health & Wellness Centre at UTSC is the only service in the University of Toronto system to integrate medical, nursing, counseling and health promotion in one location. Similarly, the Academic Advising & Career Centre is the only integrated service of its kind in Canada that brings together the four related services of academic advising, learning skills, career counselling and employment skill development.

The Division of Student Affairs also helps new students become aware of available financial support by including financial-aid seminars in UTSC's first-year orientation events. Approximately 45 percent of our student body receives direct support from the Ontario Student Assistance Program (OSAP), and UTSC supplements this with an additional $7 million annually through scholarships and bursaries.

UTSC's extensive safety net of programs and professional services – from the introduction to academic life in the Get Started program, to fun-packed fall orientation days, faculty events organized by seven departmental student associations and ongoing athletics programs, student clubs, counselling and skills workshops – ensures that every student has the opportunity to succeed.

Resources supporting academic success

The Centre for Teaching and Learning (CTL) is recognized by our peers for its cutting-edge assistance on both sides of the educational process – learning and teaching. "Usually, these [two sides] are separated," notes Biology Professor Clare Hasenkampf, who is the Director of CTL. "We championed the combined approach because we think it's superior."

A consultant might help students on an essay, for example, or assist faculty in designing the essay assignment. The CTL also provides assistance in developing student skills, from written communication to quantitative reasoning. At the Communication Café, students practise English skills through face-to-face networking or friendly debates. As well, the CTL supports the faculty's efforts to become experts in the art of teaching, offering support on a wide range of areas, from syllabus design to classroom management and creating effective assignments. Most important, CTL fosters a vibrant community of teaching excellence.

The innovative programming of CTL has been used as a model by other Canadian universities, and in 2008 its writing centre was cited for excellence at the prestigious Conference on College Composition and Communication, the world's largest professional organization for researching and teaching composition.

Another vital resource is the UTSC Library, which provides direct – remote or on campus – access to top-ranking research collections and services. The University of Toronto collection includes more than 17,000 online full-text journals, 2,500 online newspapers, thousands of e-books and print holdings that exceed 15 million. The local collection of the UTSC Library includes approximately 300,000 print items, which

grows by approximately 4,000 new titles annually. An exchange service provides access to all items within the U of T library network. Despite the dramatic shift to online resources, students and faculty value this top-quality study and research centre, as evidenced by more than 855,000 visits in 2007-08. And while study space continues to be in high demand, renovations have expanded study space, including the addition of the new "Ultra Quiet" area. An overwhelmingly successful pilot project to keep the Library open 24 hours has led to an extended 24/7 service throughout the 2008-09 academic year.

UTSC alumni

The ever-increasing UTSC alumni community now numbers more than 33,000. Graduates are making an impact on all facets of world issues. As leaders and entrepreneurs, they have added value to the national economy by creating new jobs in a wide range of fields, including software development, biotechnology, media and manufacturing. As committed citizens, they have enriched our social and cultural lives by spearheading community initiatives, charitable organizations and cultural institutions.

Among the well-known UTSC alumni are The Honourable David Onley, Lieutenant Governor of Ontario; Margarett Best, Minister of Health Promotion; Paul Tsaparis, President and CEO of Hewlett-Packard Canada; and Charles Cutts, CEO of Roy Thomson Hall and Massey Hall.

In 2008, UTSC hosted numerous programs and events to reconnect members of the University of Toronto Scarborough Alumni Association (UTSAA) to one another and to the university. More than 200 alumni attended a spring reunion, which marked the 25-year reunion of the class of 1983. The annual SHAKER networking event helped young professional alumni forge valuable career connections. The new event, Dinner with 12 Strangers, introduced current students to alumni and faculty in an intimate dinner setting. In fall 2007, alumnus Charles Cutts was the featured speaker at the Leadership Perspectives Speaker Series.

Alumni can opt to receive a number of benefits, ranging from a University of Toronto-specific email address and reduced rates at the Athletics Centre to insurance and travel programs, as well as career counselling during the first two years after graduation.

UTSAA Executive Committee

President
Vinitha Gengatharan (BA '99)

Vice-President
An Nguyen (HBA '99)

Treasurer
Robin Stewart (BA '91)

Campus Liaison Officer
Celeste Richards (HBA '05)

Event Officer
Meera Rai (HBA '02)

Marketing and Promotions
Liam Mitchell (HBA '01)

Member at Large
James Hunt (BA '86)

College of Electors Representative
Ann Clarke (BA '84)

College of Electors Representative
Devin Ragwen (HBSc '98)

Past President
Naraindra Prashad (BA '82)

At the 2008 Principal's Spring Celebration, graduates from the class of 1983 were presented with 25-year pins. Appearing with Principal Franco Vaccarino (fifth from left), are alumni (from left) Laurie Barber-Severo, Mary Georgieff-Stepaniuk, Anthony Glover, Patricia Harcourt, Eva Kent, Anne Leon and Nancy Lu.

"Going to university was all about change and creating opportunities to better myself. I was the first person in my immediate family ever to consider a university education.... At the end of third year, I opened a small business, and that, coupled with UTSC offering new courses in marketing, forever changed my life."

– David Lucatch (BA '85), CEO, Intertainment Media Inc., in his address to the graduating class of fall 2008

DEPARTMENT CHAIRS
Greg Vanlerberghe Biological Sciences
Vassos Hadzilacos Computer & Mathematical Sciences
William Bowen Humanities
Michael Krashinsky Management
Don Cormack Physical & Environmental Sciences
John Bassili Psychology
Ted Relph Social Sciences





Synergies in Research & Teaching

Message from the Vice-Principal (Academic) & Dean

A thorough review and planning process engaged the academic leaders of the University of Toronto Scarborough throughout 2007-08. The Chairs of all seven academic departments led numerous discussions and undertook in-depth analysis to explore the potential to build upon our strengths in curriculum and research. I am grateful for the optimism and enthusiasm that each of them brought to the task of shaping new directions for the academic experience at UTSC. This work continues into 2008-09 with our current focus on completing a five-year academic plan.

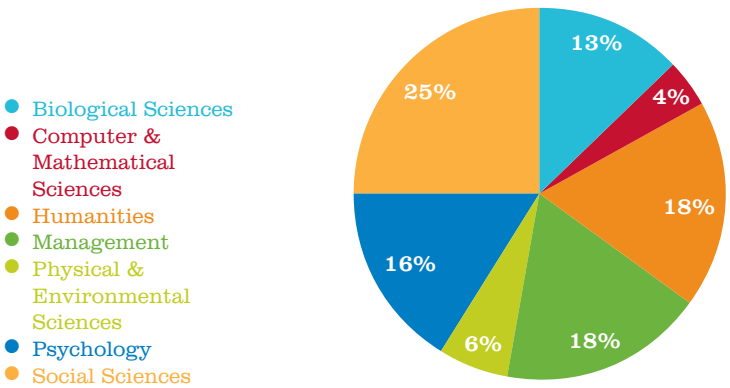
The quality of our faculty distinguishes UTSC in post-secondary education in Ontario. We have exceptional leaders who are renowned for their cutting-edge research and inspirational teaching. The international recognition that our faculty garner through prestigious appointments – such as those to the Royal Society of Canada and the American Association for the Advancement of Science – is impressive, as are the accolades for teaching, including the Ontario Government's Leadership in Faculty Teaching (LIFT) awards and the many nominations to TVO's *Best Lecturer Competition*. This report introduces only a small number of the many within our departments who are leading advances in research and introducing exciting innovations into the classroom.

With the recent increase in enrolment and a change in faculty demographics, approximately one-third of our current faculty members have been hired within the last five years. A synergy between young new hires and established senior members has invigorated planning throughout our departments and allowed for the creation of exciting new programs and courses.

UTSC now boasts a comprehensive curriculum that is both innovative and responsive to contemporary society. A shift in the scholarship and career interests of our students is underway. More students pursue degrees which combine programs, such as double majors, or a major and two or more minors, or programs that are fully interdisciplinary such as Health Studies or Women's and Gender Studies. Our curriculum is evolving to keep pace with this trend.

Each year, our faculty teach more than 200 programs and 1,200 courses, representing about 46,000 course enrolments. The teaching load is considerable, and, not surprising, the rapid expansion has led to new challenges, such as a higher student-faculty ratio. An immediate priority is to ensure that class sizes are appropriate, particularly in upper years, to optimize the interaction between students and faculty.

Enrolment by department, 2007-08
(includes students enrolled in two majors)



UTSC continues to build upon its leadership position in experiential learning opportunities. Co-operative programs have been our flagship since 1975 and now serve approximately 15 percent of our student enrolment. These programs are highly sought after and entry averages are among the highest of all programs at the University of Toronto. Through co-op programs – administered through an Arts & Science and a Management Co-op Office – employers have paid our students approximately $37 million in salaries over the past five years.

Joint programs with Centennial College offer other examples of innovative experiential programming. Students gain a theoretical academic grounding combined with hands-on experience. With such close proximity to Centennial College, UTSC students have access to resources and equipment not traditionally found on a university campus. In 2008, external reviewers recommended the continuation of all five programs: Journalism, New Media Studies, Paramedicine, Environmental Science and Technology, and Industrial Microbiology.

While University of Toronto graduate programs are tri-campus initiatives, an objective of our strategic plan is to establish distinct graduate programs that will be administrated at UTSC. A large proportion of graduate students will enrich our campus and new graduate programs will help to sustain a differentiated university experience well into the future. Approximately 75 percent of UTSC faculty supervise more than 330 graduate students through tri-campus graduate programs.

The best measure of our success is the success of our students. In 2007-08, more than 1,850 students graduated, representing a new threshold for the size of the graduating classes at UTSC. Ten percent of this class was recognized on the University of Toronto Scarborough's Honour Roll. After graduation, many UTSC students pursue graduate studies at prestigious universities such as Oxford, Cornell or Harvard, in addition to the University of Toronto.

This summary report reveals only a fraction of the many areas of excellence and innovation at UTSC. I have enormous confidence that UTSC will make even further progress in the immediate future to strengthen this foundation and shape a new type of university experience – one that gives our students a head start – as scholars, scientists and global citizens – in meeting the challenges and opportunities that await them in their future.

Professor Ragnar-Olaf Buchweitz
Vice-Principal (Academic) & Dean

Programs and courses offered, 2007-08

	Programs	Courses	FCE*
Biological Sciences	10	99	4,329.5
Computer & Mathematical Sciences	39	86	3,510.5
Humanities	60	480	9,664.5
Management	37	181	9,910.0
Physical & Environmental Sciences	36	106	4,152.0
Psychology	11	104	5,900.0
Social Sciences	43	210	9,086.0
Total	**236**	**1,266**	**46,552.5**

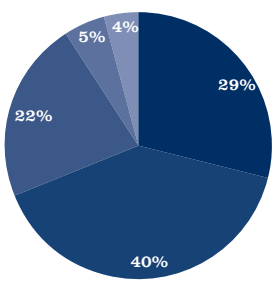
*denotes full-course equivalent

Programs with the highest student enrolment, 2007-08

Psychology	Major
Management	Cooperative
Management	Specialist
Health Studies	Major
English	Major
Integrative Biology	Major
Neuroscience	Major
Political Science	Major
Psychology	Specialist
Biochemistry	Major

Degrees awarded to graduates, 2007-08
(as of September 2008)

BA 4-year
BSc 4-year
BBA
BA 3-year*
BSc 3-year*

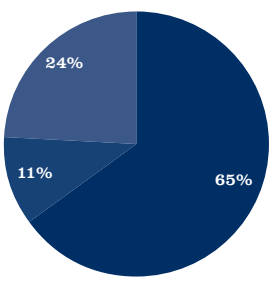


Total graduates: 1,852

*discontinued degree

Full-time faculty count
(as of September 2008)

Full-time tenure professoriate stream
Full-time teaching stream
Full-time non-tenure professoriate stream



Total full-time faculty headcount: 250

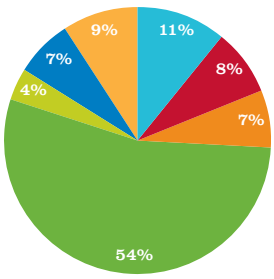
*Based on the full-time faculty definition from the Group of 13 (G13) Canadian research-intensive universities. Part-time faculty not included.

Co-op at a glance

- 30 years of experience as the "co-op"campus of U ofT
- 15% of UTSC student body enrolled in co-op programs, as of 2007-08
- high demand for programs, with entry averages among the highest at U ofT
- offered in more than 87 distinct program streams
- more than 3,200 active co-op employer partners
- 1,000 work placement terms per year
- over five years, co-op employers have paid students more than $37 million in salaries

Co-op enrolment by department, 2007-08

Biological Sciences
Computer & Mathematical Sciences
Humanities
Management
Physical & Environmental Sciences
Psychology
Social Sciences



Total co-op enrolment: 1,526

AT A GLANCE

DISCIPLINES

Biochemistry
Cell & Molecular Biology
Ecology & Evolutionary Biology
Neuroscience
Physiology
Plant Biology

RESEARCH STRENGTHS

Biological Dynamics of Environmental Change
Cells & Infection
Integrative Behaviour & Neuroscience
Neurobiology of Stress
Plant Cellular & Molecular Processes
Physiology

Think: *Discovery*

Biological Sciences

Working with international partners such as the International Rice Research Institute in the Philippines, Professor Herbert Kronzucker and his research team study the nutrient flow of rice at the cellular level. Their work aims to improve crop yields and, ultimately, the planet's food supply.

Biological Sciences at the University of Toronto Scarborough focuses on a detailed investigation of the natural world. From health to agriculture, from the microscopic to the global, our biologists are well engaged in the issues that will concern society for years to come. And as researchers and educators, our faculty are committed to making a difference.

Biological Sciences research and teaching at UTSC covers the full breadth of biology, from the molecular to entire ecosystems and from human-centric aspects to the floral and fauna of the Canadian environment. The choice of student experiences too is broad, from traditional disciplines to interdepartmental options, from co-op and joint programs to Science Engagement experiential learning.

The department is committed to excellence in scholarship and publishes in the premier national and international journals in many areas of contemporary biology. Critical mass has been built in several research nodes, which has enhanced UTSC's unique strengths as well as facilitated collaborative research efforts critical to today's research environment.

Five research clusters comprise the department: Biological Dynamics of Environmental Change; Cells and Infection; Integrative Behaviour and Neuroscience; Neurobiology of Stress; and Plant Cellular and Molecular Processes. We are currently involved in adding a sixth – Physiology – which will strengthen organismal biology scholarship and teaching within the department.

Every member of our Biological Science faculty conducts externally funded research and 4 out of the 20 faculty hold Canada Research Chairs (CRC).

One visible aspect of the intensity of research at UTSC has been the opportunities generated by the new Science Research Building (SRB), which has enabled a cluster of our plant biology scientists to work in six adjoining cellular molecular biology labs with an open-concept layout that encourages interaction.

The SRB also made possible the construction of new state-of-the-art plant growth rooms. With a $200,000 investment from the Canada Foundation for Innovation (CFI), these climate-controlled rooms allow scientists such as Professor Herbert Kronzucker, for instance, to replicate the tropical conditions for growing rice.

Renovated space freed in the original Science Wing now houses other research teams. Of special significance is the upgrade – also made possible by CFI funding – to the Centre for the Neurobiology of Stress, which benefits from the contributions of two Canada Research Chairs – professors Ian Brown and Michelle Aarts.

UTSC has another core group of faculty, at the Centre for Integrative Behaviour & Neuroscience, led by another neuroscience Canada Research Chair on campus, Professor Maydianne Andrade.

The aging of North American populations is putting ever-increasing pressures on the health care system. Therefore, research in neuroscience – one of the central disciplines supporting advances in health care and medicine – is critical to meeting those demands and will likely remain a high priority for scholarship and funding in the long term. Within this vast field, UTSC's strengths in major sub-disciplines have made neuroscience a cornerstone of our research and teaching in Biological Sciences. >

Experiential learning at the cellular level

Biotechnology – the use of biological information in technology applications – has significant potential to contribute to Canada's innovation economy. Our country ranks second after the U.S. in terms of the number of firms headquartered here, of which 80 percent are in the Greater Toronto Area. And the demand for qualified scientists has exploded, whereas supply has not kept pace.

Biological Sciences Professor Clare Hasenkampf recognized the opportunity that this presented for her students and, in 2003, helped launch a co-op program in Cell and Molecular Biology to give talented students a head start on their careers.

UTSC designed the program to develop a high standard of professionalism in our students, as well as meet industry needs. Statistics and computer courses, for example, were added to the academic program in response to requests from employers. So that students are qualified for the best work opportunities, our program requires two years of classroom education before job placements begin.

Students have received job placements at Health Canada, pharmaceutical firms and, more recently, the University of Toronto's Structural Genomics Consortium at the MaRS Centre, where students help produce vaccines and participate in investigations of the role of proteins in diseases.

Attracting some of the university's best incoming students, the Cell and Molecular Biology program typically provides two four-month work placements or, occasionally, an eight-month placement, which offers more continuity on the job.

"Co-op helps enrich the experience for students," says Hasenkampf. "They go out and find out why those skills and subjects they are learning are important and they come back highly motivated. The biotechnology industry benefits from having good employees and, ultimately, the people who will make a difference in [its] future."

Co-op student Zhifen Zhang at the MaRS Centre, where she is working on test expression, protein purification and cloning for the Structural Genomics Consortium.

This expertise allowed us to develop the highly successful undergraduate program in neuroscience, which is unique to the University of Toronto and shared by UTSC's departments of Biological Sciences and Psychology. Plans are underway for a graduate program in neuroscience, whose administrative and intellectual home will be here at UTSC.

With so many top researchers on campus, the department is active in the on-campus training of future scientists, which currently includes 50 MSc and PhD graduate students and 20 post-doctoral fellows, research assistants and technicians. It also means we are able to offer a richer, more comprehensive experience for our undergraduates.

Professor Clare Hasekampf exemplifies our commitment to teaching in Biological Sciences. Hasenkampf helped found the first-year program Foundation Skills for Scientists and a Science Engagement program that sends out UTSC students to high schools to inspire the next generation. For her efforts, she has been recognized with numerous awards, including the Ontario Ministry of Training, Colleges and Universities' Leadership in Faculty Teaching (LIFT) Award.

In fall 2008, faculty began making presentations on their research projects and the scientific process to students in second-year tutorials. These presentations gave biology students vital early insights into both the powers and limitations of research. We expect that, with an early exposure to research, more students will seek lab placements or summer research work funded through the Natural Sciences and Engineering Research Council of Canada (NSERC). This year, more than 80 UTSC students benefitted from these opportunities.

As well, our upper-year Biological Sciences students typically engage in eight-month independent research projects, interacting one-on-one with faculty and early-career scientists in a Principal Investigator's lab. Last year, 45 senior students gained this experience. For many of our students, such experiences were a high point of their undergraduate years. •

Undergraduate student Nirusan Rajakulendran conducts plant biochemical analyses as part of his fourth-year research project course in the laboratory of Professor Greg Vanlerberghe.

Bone cells in space

Professor Rene Harrison (pictured below, centre) has shown her students that research can be, literally, out of this world. In Harrison's second- and fourth-year classes, cell biology comes to life through stories of her research experiment launched into space on-board a Russian rocket.

In fall 2007, experiments from Harrison's cell biology lab went on a 12-day unmanned space flight as part of an international mission to learn more about bone loss and osteoporosis. A joint study between the Canadian Space Agency and the European Space Agency (ESA), the experiments were the first done on living cells in space without on-site supervision by astronauts.

Through that collaborative project, Harrison's team hopes to learn more about disuse osteoporosis, wherein patients lose bone mass by being bedridden or paralyzed and not weight-bearing. Astronauts suffer a similar affliction in the weightlessness of deep space – a condition that is not rectified even five years after they return to Earth.

"When the undergraduate students see my graduate students – who are their TAs [teaching assistants] – and they hear me say that they did this experiment, the science becomes a lot more meaningful to to them," notes Harrison.

Harrison worked with PhD student Noushin Nabavi and research assistant and technician Arian Khandani. The trio were based in the Netherlands, at ESA's new microgravity space lab, and living bone cells were launched from a remote site in Baikonur, Kazakhstan. After re-entry, the cells were brought back to UTSC, where Harrison has engaged her undergraduate students at every stage—from her early hypothesis to prototype demonstrations and hands-on lab work.

Since her arrival at UTSC in 2003, Harrison's research program has drawn $2.6 million in research-grant support.

"Being able to bring your own research into the classroom has a much more profound effect than talking about somebody else's work."

– Professor Rene Harrison

The challenge of feeding the world has become a daunting and pressing concern. Because we are consuming more food than we produce, food stockpiles are falling rapidly and prices are rising in many of the world's most vulnerable regions, while hoarding and market speculation compound the problem.

"The fundamental issue of our time is that the rate of human population growth is outpacing the rate at which crop increases are growing – by about threefold," says Herbert Kronzucker, Professor of Biological Sciences and Canada Research Chair in Metabolic Bioengineering of Crop Plants.

Kronzucker leads a research team studying the transport of ions across membranes in plant root systems, with the goal of improving the flow of nutrients and reducing toxic intrusions, like salt. Kronzucker's focus is on rice, a non-model plant that's difficult to investigate, yet warrants the effort, as over three billion people receive more than 70 percent of their food calories just from this one crop. The UTSC lab, which is unrivalled in its use of radioisotopes, has discovered phenomena at rice's cellular level that have not been visible to scientists until now.

Research to address world hunger

The larger-plant biology group at UTSC maintains a range of diverse research programs related to central issues of plant productivity – tolerance toward biotic and abiotic stress, the genetics of development and reproduction, and nutrient acquisition. This cluster of research excellence positions UTSC to take a leading role in addressing the issue of world hunger. A proposal is underway to create a centre dedicated to world hunger research that would bring together experts from multiple disciplines to contribute their perspectives on the complex, multifaceted problem of world hunger.

"Students often say they want to attend medical school because they want to help people," says Kronzucker, "and I respond, 'If that is your motivation, you may find [that] the radius of people you can help can be far greater in other scientific pursuits.' "

PhD student Lasse Schulze uses a radioactive Na+ tracer from the McMaster Nuclear Reactor to test salt tolerance in rice in UTSC's new climate-controlled plant growth room.

AT A GLANCE

DISCIPLINES

Computer Science
Mathematics
Statistics

RESEARCH STRENGTHS

Mathematics:
- *Algebra*
- *Applied Mathematics*
- *Combinatorics*
- *Geometry*
- *Number Theory*
- *Topology*

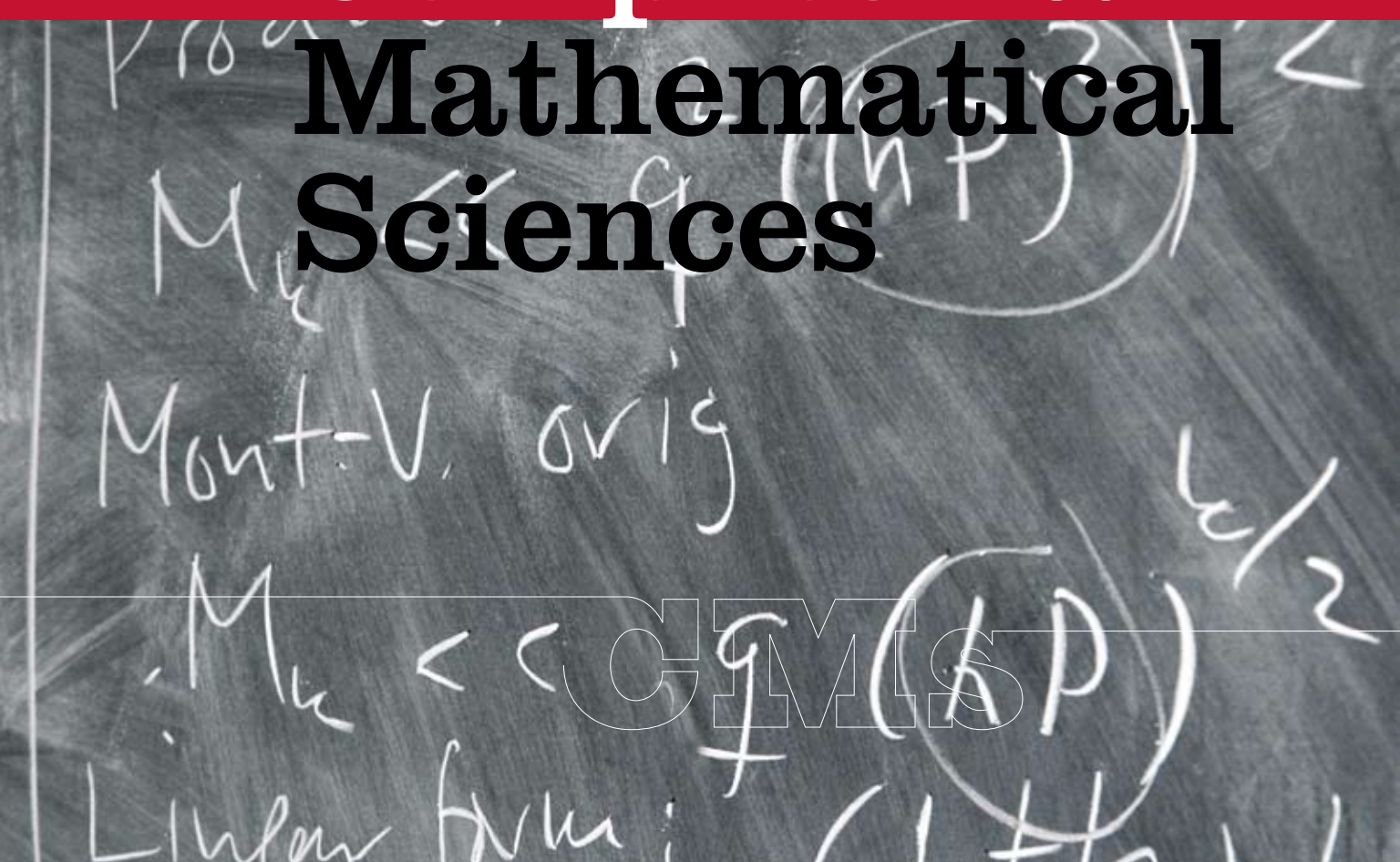
Computer Science:
- *Artificial Intelligence*
- *Computer Systems*
- *Database & Knowledge Management*
- *Scientific Computing*
- *Theoretical Computer Science*

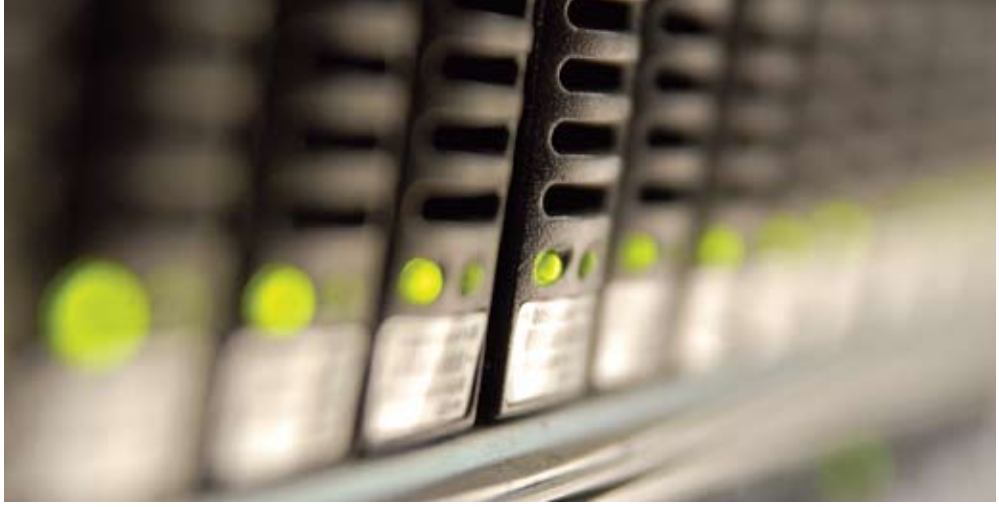
Statistics:
- *Bayesian Statistics*
- *Probability*

18

Think: *Solutions*

Computer & Mathematical Sciences





The Department of Computer and Mathematical Sciences (CMS) is the University of Toronto Scarborough's home for mathematics, statistics and computer science – three disciplines at the core of advances in science and technology. The University of Toronto is at the elite level of research in these fields – a distinguished reputation in which the faculty of the CMS Department at UTSC plays an important role.

In Mathematics, UTSC is the de facto hub within the three University of Toronto campuses for work in probabilistic combinatorics. Faculty also work in number theory, algebra, geometry, topology and applied mathematics. In Statistics, the focus of research is Bayesian statistics. Computer Science faculty work in database and knowledge management, artificial intelligence, computer systems, scientific computing and theoretical computer science.

The CMS Department's 16 tenure-stream faculty are active in graduate-student supervision as well as research, publishing 45 articles in prestigious refereed journals and conference proceedings in 2007-08. Collectively, the department's researchers bring to UTSC close to $1 million in research funding each year. With 14 other members in the teaching stream, CMS faculty total 31. Two recent hires in the department are Balazs Szegedy in Mathematics and Bianca Schroeder in Computer Science.

CMS offers about 80 courses and 90 lecture sections every year to some 7,000 students, with more than 500 of these students enrolled in the department's four specialist and three major programs. All CMS programs have a co-op option. Programs are also provided in conjunction with other departments such as Management and IT, Natural Sciences and Physical and Mathematical Sciences.

In 2007-08, the department introduced the Quantitative Analysis program, in which students apply mathematical tools to discover patterns in data. This highly interdisciplinary program brings together mathematics, statistics and computer science, combining them with knowledge in other subjects. It prepares students for careers as data analysts in numerous fields, including biological and life sciences, physical sciences, finance and economics, and social and health sciences. To enhance the ability of UTSC students to pursue interdisciplinary studies, the department will also offer two new minor programs in Computer Science and Statistics.

The superior quality of the faculty and programs at CMS is evidenced by its outstanding students. Wojciech Gryc, a graduate of UTSC's International Development Studies (IDS) and Mathematics programs, was named a Rhodes Scholar for 2008; he now pursues a master's degree in mathematical modelling and scientific computing at the University of Oxford. (Read more about Gryc's story on page 45.) Thuy Vu, an undergraduate in the Computer Science co-op program, was a finalist for the Google Anita Borg Scholarship in 2008, which honours women who excel in computer science. •

Elites among the elites of mathematics

The "University Professor" designation, which recognizes pre-eminence among the many distinguished professors at the University of Toronto, is held by only 35 – barely 2 percent of the total number of professors across the three University of Toronto campuses.

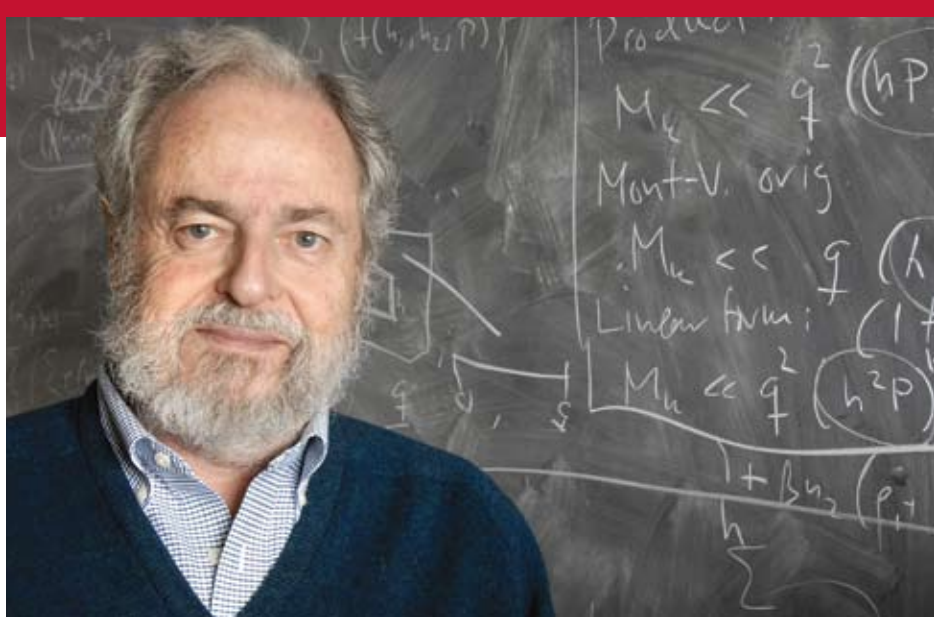
Renowned number theorist John Friedlander is UTSC's only faculty with the distinction, which was awarded to him in 2002. Before joining U of T in 1977 and serving as Chair of the Mathematics Department in 1987-91, Friedlander has held appointments at Massachusetts Institute of Technology, University of California, Berkeley, and Princeton University, where he has been a member of the Institute for Advanced Study.

The importance of any mathematical advance relates to its close connection to other fields of knowledge such as physics or computer science. Once seen as unconnected to anything outside the realm of pure math, number theory has arrived in the everyday world via high-speed computation and cryptography in applications such as online security.

Friedlander's contribution to this field has been highly lauded. In 1988 he was named a Fellow of the Royal Society of Canada. In 2002 he received the CRM-Fields prize, Canada's premier award for mathematics, and the Killam Research Fellowship from the Canada Council for the Arts for 2003-05.

Another accolade garnered by the Computer and Mathematical Sciences faculty is the appointment of Professor Lisa Jeffrey in 2007 to the Royal Society of Canada. She was also selected in 2005 as a Fields Institute Fellow, a distinction conferred to those with outstanding contributions to mathematics in the country. An expert in symplectic geometry, an area of mathematics linked to theoretical physics, Jeffrey applies pure mathematics to prove results predicted by physicists in quantum field theory. She excels at making abstract principles relevant in her second- and third-year mathematics classes at UTSC.

Among the notable early-career scholars in the department is Mathematics Professor and Canada Research Chair Bálint Virág. In August 2008, Virág received – jointly with University of Colorado's Brian Rider – the Rollo Davidson Prize, presented by the University of Cambridge to young, promising researchers in probability theory. The international award recognizes Virág and Rider's work in random walks and matrix theory with practical applications ranging from the evaluation of search engine effectiveness to representing properties of physical systems and nature.



The Computer and Mathematical Sciences Department boasts many distinguished faculty who are recognized for making groundbreaking contributions to their respective fields. Among them are (from top), Professor Bálint Virág, Professor Lisa Jeffrey and University Professor John Friedlander.

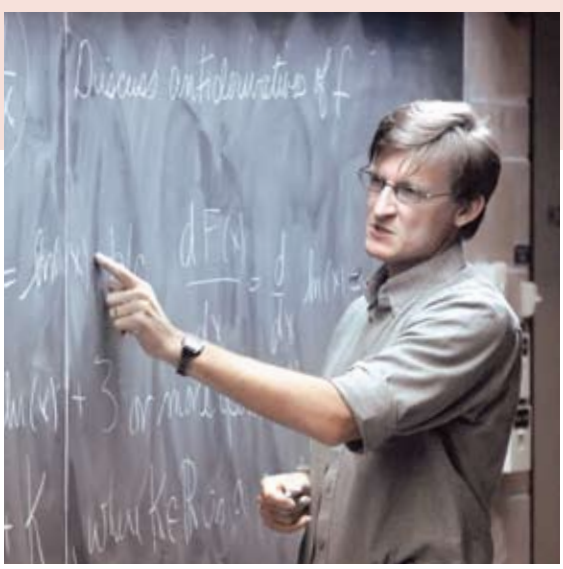
Visualizing new directions in computing

Award-winning UTSC Computer Science Professor David Fleet is researching how to enable computers to *see*. Computers do see but in limited ways – vision chips in cars, for example, can detect obstacles – but Fleet is more involved in the fundamental problems of computational perception rather than in the applications.

His interdisciplinary research spans problems in computational visual perception and neuroscience, as well as computer vision, an area of interest to numerous fields, such as aerospace and medicine. He foresees the addition of a machine learning course to his teaching portfolio which includes computer graphics and computer vision.

In one of his research projects, computers are programmed to estimate the shape and movement of people from digital video. With this information, he can synthesize animated characters from new perspectives, or recognize a person's activity. With research projects like this, Fleet's work will help future computers perceive and process images and video of the three-dimensional world in ways similar to humans.

Professor David Fleet is pictured here with images depicting results from the physics-based people-tracking project, produced in collaboration with PhD student Marcus Brubaker.



Senior Lecturer Ray Grinnell teaches students the value of mathematics in getting to the heart of matters.

Teaching the value of math

UTSC Mathematics Senior Lecturer Ray Grinnell is recognized as an excellent teacher. He won the Scarborough Campus Students' Union Teaching Award in 2005 and was nominated for two consecutive years for TVO's *Best Lecturer Competition*.

Grinnell's view of his job – *teaching* mathematics, not *lecturing* on it – benefits the wide range of students who take courses in the Department of Computer and Mathematical Sciences, as the vast majority of them are not math specialists or majors. The secret, according to Grinnell, is in instilling in students the value of mathematics to other applications. Math skills – such as numeracy, critical thinking, analytic and logic – help students in any program get to the heart of matters. Frequently applying context – and humour – Grinnell is able to bring on board students from a diversity of academic programs and math skills.

"One popular theme is money. Money almost always gets the attention of management students," says Grinnell. "I tell them, 'Drink one less medium cup of coffee a day. Take the $500 annual saving and invest that each year at 7 percent. Then, when you're my age, you'll have $40,000 – all because you bought one less cup of coffee. However, do it now, because the key factor is time.' "

"When I arrived at university, I found math much tougher than I expected. Professor Grinnell was extremely approachable and gave me extra help every week through a summer make-up program. This became a turning point for me and now I'm pursuing teaching as my career path."

– Anna Fan, fourth-year student, Mathematics and Chemistry Major

AT A GLANCE

DISCIPLINES

African Studies*
Classical Studies
English
French
Global Asia Studies*
History
Intersections, Exchanges, Encounters (IEE) in the Humanities*
Journalism
Languages
Linguistics
Media Studies*
Philosophy
Visual & Performing Arts (including Art History, Arts Management, Drama, Music & Studio)
Women's & Gender Studies

* proposed for 2009

RESEARCH STRENGTHS

Faculty lead in a broad range of fields, from environmental history in ancient Egypt, media and culture in contemporary China to biomedical ethics and the literacy expression of diasporic cultures.

Think: *Intersections*

Humanities

The Women's & Gender Studies program, in collaboration with UTSC administration, hosted *A Conversation with Deepa Mehta*. The acclaimed director, producer and screenwriter spoke about her new film, *Heaven on Earth* and the issue of violence toward women.

As part of Asia Arts – a year-long series of cultural events celebrating Asian traditions – Duo Diorama soloists Winston Choi (piano) and Minghuan Xu (violin) performed at a Music of All Latitudes concert.

New connections across disciplinary frontiers are pointing to novel directions of inquiry, and with the multidisciplinary focus of our experts at UTSC, the Humanities Department is well positioned to lead the way. By bringing research innovations into the classroom, our faculty inspire students to look beyond boundaries.

Humanities is the study of the constructs of human culture in all its aspects – aesthetic, intellectual, philosophical, religious, social and political. It is also the study of the similarities and differences between time eras, places and people.

Traditionally, humanities research had a narrower focus – on individual disciplines – but the world is changing. While humanists have always believed in the interconnectedness of all aspects of knowledge, the new emphasis is on connections, and the definitions of disciplines are blurring, be they geographic, cultural or gender. And as researchers explore these areas of overlap and intersections more and more, the global village is but one of myriad influences on humanistic inquiry.

Humanities faculty travel the world to conduct research and fieldwork, create and exhibit art, and contribute their expertise at conferences and think-tanks or as guest professors at other educational institutions. Their achievements are acknowledged in Canada through prestigious professional awards such as the Canada Council for the Arts and the Governor General's Award in Visual and Media Arts. They have also garnered awards and fellowships from esteemed international institutions – Hamburg University's Asien-Afrika-Institut, Canberra's Australian National University, New York City's Andrew W. Mellon Foundation and Chicago's Newberry Library.

UTSC's relatively small size and youth have worked in our favour. Our cohort of always engaged, vibrant faculty has enhanced the development of a Humanities Department that interacts on multidisciplinary levels and has fostered closer contacts between experts of different disciplines than is usually possible. Our faculty interest in multidisciplinary investigation, combined with their disciplinary expertise, creates a strong foundation on which we are building innovative programming.

Many of UTSC's Humanities students, particularly those pursuing graduate school, enrol in double majors or a combination of a major with one or two minors, reflecting their interest in the interconnections of disciplines. As well, the cultural diversity of our student body has made them particularly open to querying those intersections.

Unique programs specific to UTSC – Psycholinguistics, for example, or the marriage of arts and business in Arts Management (see page 24) – are the offspring of multi-disciplinary thinking, as is Intersections, Exchanges, Encounters (IEE), a new program in the Humanities Department.

The multidisciplinary, competitive-admission IEE is built around the shift in recent humanities research, wherein students explore topics shared across disciplines – the connected histories, the in-betweens, the liminal and the borders. In discipline-specific programs, such innovative research would normally be peripheral to teaching. Taken with a companion major, IEE allows students to gain insights >

Leading in Arts Management

Every year, students compete for places in UTSC's Arts Management program, which celebrates its 25th anniversary in 2009. Among the first arts management programs to be offered in Canada, it is today the largest, most robust and diverse.

Unique for its requisite that students take at least one arts discipline, this program is also balanced by business courses, many of which were developed specifically for arts managers, which gives UTSC students a distinct edge. They understand the artist as well as the culture they are charted to protect and advance.

Comprised of leading researchers, award-winning lecturers and practicing arts managers, our Arts Management faculty have placed UTSC at the forefront of research and practice in arts management, an exciting and relatively young academic field.

Co-op students gain practical experience from paid placements at a range of arts organizations, from Soulpepper Theatre, First Nations De-Ba-Jeh-Mu-Jig Theatre Group, the Royal Ontario Museum and the Toronto International Film Festival to the Edinburgh Festival Fringe. Many UTSC graduates are offered continuing positions at their placement employers.

Caitlin McKee (left) at Soulpepper Theatre and Sandy Saad at St. Mark's Coptic Museum gain first-hand experience working in an arts organization through the Arts Management Co-op program at UTSC.

that are both broad and deep. Team-taught by faculty whose research transcends traditional boundaries, the program brings leading-edge research into the lecture halls and tutorials and enhances the intellectual development of its students. The first cohort of IEE majors begins in 2009-10.

Women's & Gender Studies, another multidisciplinary UTSC program, draws on a diversity of areas – Anthropology, Social Science, Literature, History, Linguistics, Philosophy, Visual & Performing Arts, Environmental Science and International Development Studies – all of which are taught on our Scarborough campus. Focused on women as members of different communities, ranging from neighbourhoods to ethnocultural, this program aims to provide students with practical skills for working on women's issues on the community level.

The recent growth in the number of Humanities courses and programs at UTSC has been significant, along with the increase in new faculty, many of whom are launching their careers and contributing expertise at the vanguard of new research. This has enabled UTSC to shape curriculum in new directions, and to be nimble and responsive to modern-day world issues.

At UTSC, we refer to "the world" both in general and in particular, with a burgeoning international perspective. In Humanities, this has meant more than a move away from the conventional Euro-centric or Anglo-American focus. Our new Global Asia Studies (GAS) program, for example, views Asian cultures as they thrive worldwide, not just as they exist in Asia.

As languages are of prime importance to our internationally focused students, UTSC offers numerous options for study, ranging from Latin, French and Spanish to Arabic, Hindi, Mandarin, Sanskrit and Tamil. An example of the popularity of language programs is how the Tamil course – among 28 language offerings in summer 2008 – filled within minutes. We are now preparing to launch a Living Languages summer institute, which will provide total language immersion programs that will mark UTSC as the international destination for intensive language acquisition.

From the arts and culture perspective, we have also integrated co-curricular initiatives such as gallery space under our departmental umbrella, resulting in student life being enriched by cultural experiences that range from theatre to music and art. Since the opening of our Doris McCarthy Gallery in 2004, for example, 22 exhibitions have connected UTSC students to the international community of contemporary art.

Equipped with multiple language skills, a critical understanding of diverse cultures and the ability to analyze complex information, our Humanities students will be well prepared for the realities of the workplace and will be poised to meet the challenges of the global economy and culture of the future. •

UTSC visual artist wins Governor General's Award

Tanya Mars, Senior Lecturer and Program Supervisor in Visual and Performing Arts at UTSC, won the prestigious Governor General's Award in Visual and Media Arts in 2008.

Recognized as one of Canada's most innovative multidisciplinary artists, Mars has been active in the Canadian alternative-art scene since the 1970s and a role model and mentor for emerging artists. In 1973 she helped found one of the country's first feminist art collectives, was editor of *Parallelogramme* magazine for 13 years and co-edited *Caught in the Act: An Anthology of Performance Art by Canadian Women*, published in 2005.

Mars's *Pure Virtue*, selected for an exhibition by six artists at the National Gallery of Canada, depicted Mars as a fire-breathing Queen Elizabeth I.

Notes the artist: "I'm trying to create strong images and positive images of women, [but] I like to have a healthy dash of humour."

Tanya Mars as Queen Elizabeth I in *Pure Virtue*, performance, 1986. Dress: Elinor Rose Galbraith. Photograph is courtesy of George Whiteside.

Carving out a new branch of research in African art

For Professor Elizabeth Harney, it all began in the backrooms of Harvard University's Peabody Museum of Archaeology and Ethnography, when she was an undergraduate on a work placement. There, she became intrigued by African objects crafted in the colonial period, in the mid-19th century. "I was fascinated by the slippages between what was seen as traditional and what might be modern or indicate a connection beyond Africa."

Harney wrote her undergraduate thesis on these "slippages" and started investigating a phenomenon that had been dismissed from the art canon by curators and academics. Later, at the University of London, on a Commonwealth Graduate Fellowship, she embarked on groundbreaking research on the link between African art and the modernist movement.

"Modernism has been seen as an early-20th-century European phenomenon," says Harney. "Except for the tired narrative of primitivism, luminaries like Picasso looked to African art and were inspired. But other types of modernist themes were happening later in Africa when independence came."

Her PhD thesis examined the vibrant visual arts scene in Senegal under the patronage of cultural theorist Léopold Sédar Senghor, the country's first post-independence president, and led to her award-winning book *In Senghor's Shadow*.

During her four-year tenure as curator of contemporary arts at the National Museum of African Art, Smithsonian, Harney proceeded to correct the omission of African art from the story of modernism. Since arriving at UTSC in 2003, she has maintained her two-pronged career as curator and academic.

"Professor Harney has established herself as a pioneer and leader, shaping the conceptual framework for the discourse on modernity and African art."

– Professor William Bowen, Chair of Humanities

"University of Toronto Scarborough was one of the first universities to offer a course on the history of food. We are still the only one to bring food into the classroom. We 'eat our homework,' cooking something in every class.

When you're trying to understand the Columbian Exchange – the global process in which food, people, germs and ideas were transferred across the Atlantic – it isn't enough to talk about it. Potatoes, chili peppers and chocolate were native to South America; yet, chili peppers made their way across the globe within a few decades.

So, in one class we make chocolate: first, the kind the Aztec might have been eating when Europeans arrived; then, a version that shows how Europeans were changing it. How much closer can you get to history? You are there, holding it in your hands and tasting it."

26

– Daniel Bender, Canada Research Chair, Urban History, and Professor, Department of Humanities

"UTSC is building up a program in Humanities, conscious of where the boundaries are and willing to critique them. It's about creating conversations across the humanities. That is our real strength. We can create those conversations in a way that other universities cannot."

Artist Glynis Humphrey exhibits her work *Breathing Under Water* at the Doris McCarthy Gallery. Since opening in 2004, the gallery has become an important hub at UTSC for showcasing contemporary art in all media.

In November 2008, the Tung Lin Kok Yuen 東蓮覺苑 Public Lecture Series presented *Sound and Silence in Buddhist Ritual*. The audience learned the traditions of silent meditation and mantra while experiencing ritual music performed by Buddhist practitioners and monks.

Fostering a global perspective of Asia

Beginning in fall 2009, the University of Toronto Scarborough's Global Asia Studies (GAS) program will offer students a new way to engage their interest in Asia, through intensive study of that continent and its diasporas, past and present.

The last few decades have witnessed the growing importance of Asian countries – such as China, India, South Korea, Japan and Singapore – within the world's geopolitical, economic and cultural spheres. Asians migrating around the world have also added to the multicultural fabric of communities, well exemplified by Scarborough in the Greater Toronto Area. UTSC's Global Asia Studies program couldn't be more timely and pertinent.

With its global, transnational and interactive approach, this cutting-edge multidisciplinary program builds on courses currently taught at UTSC, notably Language Studies, by providing dynamic new programs in Asian history, media, religion, law, literature, political and visual culture, social development, gender and women's studies.

The GAS program will extend its reach beyond the classroom through a variety of co-curricular programming, such as the Global Asia Colloquium Series, and events organized through Tung Lin Kok Yuen Hong Kong's Buddhist Studies initiative or in partnership with UTSC Arts & Events programs and our Summer Language Institute. Meanwhile, a new network of relationships with local community associations and businesses will flourish through the creation of co-op and student internship opportunities, as will connections to institutions of higher education in East and South Asia.

A $4-million gift strengthens cultural pluralism at UTSC

Our stature as a centre of learning and research in Asian culture is growing. In 2006, UTSC received its largest-ever endowment, a $4-million donation from non-profit organization Tung Lin Kok Yuen 東蓮覺苑 (Hong Kong) to fund a visiting professorship program, lectureship program, conferences, public lectures and student scholarships in Buddhist studies.

By supporting opportunities for international scholars to teach, confer and lecture at the UTSC, this generous gift has enhanced ongoing dialogues on cultural pluralism and diversity on campus.

The first major initiative made possible by the donation was the conference "Visualizing and Performing Buddhist Worlds." This global symposium in November 2007 focused discourse on Buddhist religion, performance, visual culture and art, and featured high-calibre international participants and keynote speakers, including Eugene Wang, an art professor at Harvard, and Phyllis Granoff, a professor of world religions at Yale University.

AT A GLANCE

DISCIPLINES

Accounting
Business Economics
Finance
International Business
Management Science
Marketing
Organizational Behaviour/
Human Resource Management
Strategic Management
Public Management

RESEARCH STRENGTHS

Performance: Individual & Organizational
Leadership
Recruitment & Retention
Organizational Knowledge & Learning
Trade & Globalization
Branding & Consumer Behaviour
Public Finance & Management
Business Ethics & Innovation
International Finance
Education: Early Childhood to Graduate
Production & Distribution Optimization

Think: *Experience*

Management

The Management Department aims to provide the best pre-professional undergraduate program in Canada and to educate future business leaders in all areas of management. Pictured here is management co-op student Kenway Du.

Student group organizes national business conference

The Management and Economics Students' Association (MESA) is the largest student-operated business organization at UTSC. MESA, which represents more than 2,500 students in Management, Co-op Management, Joint Management, Pre-Management and Economics, fosters learning and growth through competitions, seminars, skill-building sessions, networking and social activities.

At the LIVE Conference, a major MESA initiative, some of the brightest undergraduate business students gather in Toronto from across Canada. LIVE's principal event is a competition, wherein 30 delegate teams, each with 5 participants, compete, putting their business acumen in all areas to the test and simulating a real business environment by managing their own companies and making decisions that impact the bottom line. Students also get the opportunity to network with business executives and alumni through the Corporate Connections event.

Now in its third year, LIVE is building a profile within the national business student community as a top-tier conference.

Business students from across Canada came to downtown Toronto to compete in a management event organized by the Management and Economics Students' Association at UTSC.

UTSC Management aims to provide the best undergraduate management education in Canada through cohesive learning experiences that teach skills and develop analytical thinking for the business leaders of the future. Complemented by our strength in the co-op model of education, our programs maintain close links with private and public organizations to bridge the gap between education and careers.

The Department of Management provides exceptional undergraduate studies in Management through an innovative Bachelor of Business Administration (BBA) program. And exemplifying our growing global constituency is the significant number of students from China accepted into the BBA as part of the Green Path program, which helps them adjust to language and cultural differences.

All Management programs are available with a co-op option combining academic studies with work terms to enrich the learning experience. Co-op at UTSC now attracts some of the best and brightest students in Canada and the world, with work placements beginning in the second year – in January, May or September – for four or eight months alternating with study terms.

Specialist programs in Management and Economics for Management Studies offer students flexibility and cover a range of topics, including accounting, finance, organizational behaviour and human resource management, strategy, statistics and marketing. As part of a major strategic planning exercise, Management is currently redesigning its undergraduate programs and developing new graduate initiatives. At the undergraduate level, we are also developing new Specialist programs such as an International BBA (IBBA), which will include work placements and study abroad.

At the graduate level, programs for a research Master's and PhD in Human Resource Management are being developed, along with a professional Master's program in Managing Professional Firms.

Our 36 full-time faculty, 35 to 40 part-time instructors and more than 150 teaching assistants deliver 116 undergraduate and graduate courses within the department. For their graduate appointments, all of our research faculty are cross-appointed to either the Rotman School of Management or the Centre for Industrial Relations and Human Resources (CIRHR).

We are proud of the quality of both research and teaching, which enhance each other in the department. Our faculty's research interests span a broad range of topics in management, from organizational justice to work-life balance, cross-cultural differences to recruitment, and information processing to consumer behaviour, international finance and integrated production-distribution systems.

We coordinate these areas of inquiry into a broad-based education, with the goal of preparing our students, in this rapidly changing environment, to be critical thinkers able to adjust to the possibility that most of them will change their areas of work four or five times during their lifetimes. We believe that the purpose of management education is to train students, not just for tomorrow but also for decades ahead.

Forty percent of our most recent management students have come to UTSC with an interest in accounting. In training them within the BBA program, we combine a >

Management Professor Elizabeth Dhuey, pictured (right) at the campus day care, utilizes economics to study early childhood education.

Age matters: Economist studies early childhood education

"As an economist, I use the tools of economics to study education. In one branch of my research, I look at the fact that some kids are relatively older than their classmates when they enter school. What effect does that have and does it perpetuate over time?

I co-authored an article in 2006, published in *The Quarterly Journal of Economics*. We looked at statistics in 18 countries. The key finding was that children who are older do better in a variety of metrics. If you're the oldest in your class at school entry, you'll do better in fourth- and eighth-grade standardized math and science tests. In the U.S., you're more likely to go to university. The effect was consistent in different educational systems across the developed world.

Another published study looked at age of entry and its effect on leadership in high school. Again, if you're older, you're more likely to become class president or team captain. This has relevance. I'm not interested in working on a mathematical model that no one but I will read. I like being able to go to a legislator or policy-maker and say, 'If you're choosing between X and Y, I can give you an answer and here are the numbers.' "

– Elizabeth Dhuey, Professor of Economics, Department of Management

rigorous education in accounting with a broad exposure to all the functional areas of management. Modern accounting is a lot more than just balancing the books; our students learn to analyze cases, communicate with clients and formulate strategies for companies.

To support the growth of the department, five faculty searches are underway. In 2007-08, 20 faculty in Management were active in scholarship, generating 35 journal articles, 16 book chapters or book reviews, and one book. All faculty had a significant pipeline of ongoing research and 18 held major research grants.

Esther Eiling was recognized for having the best business valuation research paper at the Northern Finance Association's annual meeting in September 2008. Julie McCarthy received the Wynne and Beryl Plumptre Research Award for her winning proposal in April 2008 – "Public Policing in Canada: Police Officer Reactions to the Promotion Exam Process" – which will be presented as the Plumptre Lecture in March 2009.

Liang Chen received an Alice L. Beeman Research Award in communications and marketing for educational advancement for her thesis on East Asian students' choice of graduate schools. Michelle Lung, Bilal Khan and Sherry Feng placed third in the CA$H Competition of the Canadian Institute of Chartered Accountants (CICA) in January 2008.

Our alumni also demonstrate distinction. In CICA's 2007 Uniform Final Examinations, Lindsay Chu was a Gold Medalist, achieving the highest mark among 1,300 students, and Thomas Gingras was an Honour Roll recipient. Matthew Ma was awarded the prestigious Ontario Graduate Scholarship in April 2007. •

"The 12 months of work terms you complete before you graduate gives you a real head start over other students."

– Akhil Gupta, fourth-year Accounting Student, UTSC Management Co-op

Co-op program gives students a competitive edge

The co-op programs in Management at UTSC began with 25 students in 1975; in 2008, of the approximately 1,800 Management students, almost one-half are co-op.

Co-op and Management are a natural fit, allowing students to explore the real-world workplace with up to three employers before looking for a permanent job. Alternating study and work, the students discover the relevance of classroom learning to the workplace and then bring back job knowledge to inform their studies.

"The feedback we get about co-op students, particularly from the Scarborough campus, is that they are so open to learning," notes Tiffany Wilson, campus recruitment specialist in the Greater Toronto Area for New York-based Deloitte, one of the Big Four in the accounting field.

All of the Big Four accounting firms are top co-op employers. Among the university's other placements are major banks and the HR and marketing departments of well-known corporations such as Microsoft and Toyota Canada.

Success stories are impressive. In investment banking, a field typically dominated by MBAs, UTSC student Shisir Nigam won a highly sought position in the asset management area at TD Securities. He was the only undergraduate in Canada selected for the two-year rotational program.

Derrick Fung recently completed a summer internship with BNP Paribas, ranked among Europe's major banks, where he supported large derivative trades and helped launch a structured product which raised more than $10 million. He and Nigam are sharing their knowledge with junior students as leaders of a workshop series, "Breaking into Bay Street."

While at Scott Paper, Sarah Loucks created and implemented a performance-appraisal process that is now used company-wide. At Markham, Ontario-based GE Digital Energy, she actually headed up the human resources department when the manager moved on.

Among our students who completed international placements is Irene Fok, who was employed full-time by JP Morgan in Hong Kong after her work term there. Jennifer Zhu, winner of the Jon S. Dellandrea Award for International Students, also worked at JP Morgan and at Ontario Teachers' Pension Plan.

Co-op also enhances the department's research profile, integrating faculty with the business community. The co-op office collaborates to incorporate faculty research into its program, linking researchers to potential partners through its strong business relationships.

Great work placements help co-op Management students to gain valuable experience. From top: Zang Hong (Sophia) Sun at IBM, Maithilee Juvekar at Microsoft and Daniel Eskin at Deloitte.

Researcher focuses on the effects of work

"Often, businesses minimize emotions, and yet, we are all human. Business can't ignore emotions. They communicate information and determine our attitudes about our jobs or customers. All this influences how much energy people devote to work. One of my research interests, directly funded by a SSHRC grant, is work recovery. As work can be tiring and depleting, how do people offset that? In an article published in the *Academy of Management Journal*, we looked at work breaks. How did experiences during break time influence performance? Some think they can be more productive by working through a break. We found the opposite: it's better to take a rest or get away from your job for a bit.

This has larger implications for a society that works long hours. [Every year] people give up an average of two to three days of vacation to work. A recent survey found that 50 percent of employees don't even take lunch. Then, we wonder why we're tired."

– John Trougakos, Professor of Organizational Behaviour

AT A GLANCE

DISCIPLINES

Chemistry
Environmental Science
Physics
Astronomy

RESEARCH STRENGTHS

Environmental Chemistry
Biological Chemistry
Biological, Chemical, & Physical Processes in the Environment
General Relativity, Planetary System Formation & the Evolution of Planetary Interiors

Think: *Sustainable*

Physical & Environmental Sciences

Rarely offered at Canadian universities, field camp courses at UTSC help students learn hands-on skills to assess environmental problems first-hand. Faculty conduct UTSC courses across North America, from Arizona to the Canadian Rockies in Western Canada and Ontario's Algonquin Provincial Park, as well as Costa Rica.

In collaboration with Fisheries and Oceans Canada, Professor Mathew Wells uses fluorescent tracer dye in Goderich Harbour on Lake Huron to study the dispersion of ship ballast water and the factors that affect the survival of invasive species, such as zebra mussels and spiny water fleas.

Pressures on the planet generated by human activity are posing major challenges to science – challenges that could alter life on Earth. In Physical and Environmental Sciences, solutions to these challenges provide the thrust behind some of the most distinctive research projects and course programs at the University of Toronto Scarborough.

Universities, business and government are all tackling environmental problems and developing adaptive and mitigative strategies to minimize the negative impact of human activity on the environment. Such endeavours have sparked the surge in collaborative research and jobs in the environmental industry. At UTSC, our scientists are leaders in cutting-edge research that will result in a more sustainable planet, providing inspiration to a new generation of students to follow their lead.

Built on disciplinary strength, the multidisciplinary structure of Physical and Environmental Sciences at UTSC has given the department a strategic edge in the pursuit of solutions, and our major research initiatives have been enhancing the global understanding of environmental issues.

For example, our research has yielded insights into the reasons why certain chemical contaminants bio-concentrate to toxic levels, while others do not. Another UTSC research project is involved in the study of the role of soil in the carbon cycle, which includes analyzing how climate change might cause Arctic soils to release large quantities of stored carbon into the atmosphere.

But in order to achieve progress in addressing environmental concerns, fine minds must also be marshalled to focus on solutions. At UTSC, our recently hired Physical and Environmental Sciences faculty members are building on the department's strengths in research as well as in the teaching field, particularly in Environmental Science, Planetary Physics and Biological Chemistry while maintaining the university's level of excellence and broadening the diversity of its fields of expertise. Seven new faculty have joined the department since 2007, with two more searches underway – an increase of almost 40 percent in teaching faculty. One such new faculty member is Dr. Carl Mitchell, who joined the department in mid-2008 after a year at the Smithsonian Institution in Maryland. Dr. Mitchell's research specialty is the transport and fate of mercury in the environment.

Another significant achievement for the department is the relocation of a large research group to the new state-of-the-art Science Research Building and the renovation of the freed-up space. The enhanced facilities enable us to bring together groups involved in related research – mainly environmental chemists, biologists, and microbiologists working on environmental problems. Graduate students also play an integral part in this multidisciplinary department's research, and their close proximity to faculty here will promote a dynamic interchange of ideas.

Members of the Environmental Chemistry group are currently investigating how chemical contaminants are transported and distributed in soils, sediments, water and the atmosphere. Other researchers are developing novel analytical approaches utilizing nuclear magnetic resonance (NMR) and magnetic resonance imaging (MRI), and then >

A distinctive blend of academic and professional

Now in its third year, the **Master of Environmental Science Program** at UTSC has been gaining recognition as a significant mark of excellence. This one-year graduate program aims to provide skills that are in high demand in the environmental industry in both the public and private sectors. It is attracting high-calibre students from across Canada, and the number of applications has been exceeding projections.

Offering a unique balance of academic and professional content, the program features a four-month paid internship that places students in a broad range of private-industry settings or in government departments at all levels. As a result, students acquire exceptional work experience, often receiving offers of full-time employment at the end of their internship. Those students who choose the Research Paper option, which involves working with a faculty advisor, often pursue further graduate degrees.

The program's courses are delivered by our professorial faculty and a select number of practitioners with years of solid experience in their particular fields.

Students analyze samples in the lab, sample the biota in the Highland Creek on the UTSC campus and participate in a field camp on Lake Opeongo in Algonquin Park.

applying those approaches in assessing environmental stress in living systems. Professor Frank Wania and his team have made major advances in research on the transport of low-volatility organic chemicals and have developed an inexpensive new passive sampling technique for the remote monitoring of airborne contaminants at low concentrations. This technique has since been adopted by researchers around the world.

Another new departmental initiative is the raising of the level of Biological Chemistry – the interface of biology and chemistry. A rapidly evolving science with major impacts in the fields of medicine, the environment and the food industry, Biological Chemistry has become our most popular undergraduate program.

In Physics & Astronomy, our research strengths are wide-ranging, from theoretical work to high-performance computing. Faculty interpret ground-based and space-borne observations of astrophysical objects, propose novel theories about how planets evolve, and use supercomputers to run large-scale particle-based and continuum fluid-dynamics models.

UTSC research in Environmental Science is investigating biological, chemical and physical processes in air, soil and water. Our researchers are involved in significant fieldwork and remote sensing in geology, hydrology, physical limnology, coastal geomorphology and groundwater. They also conduct modelling studies on aquatic ecology and the dynamics of oceans and climate. Advanced laboratory techniques explore microbial ecology and the fate and behaviour of chemicals in the environment.

The department also offers programs in Chemistry, Environmental Science, Physics and Astronomy. Many of these programs are available as a co-op option – a mode of learning in which UTSC has demonstrated leadership within the larger context of universities. Another distinctive achievement of the department is our Joint Program in Environmental Science and Technology, a collaboration with Centennial College. Combining a solid science education with practical technical and applied courses for environment and industrial settings, this program now has a solid five-year track record and recently received a positive external review. Graduates earn both a UTSC Bachelor of Science degree and a Centennial College diploma in Environmental Protection Technology.

Also unique is our innovative five-year Concurrent Teacher Education Program (CTEP), which leads to both a BEd and BSc upon graduation. We believe that this approach is the preferred path for a science teaching career. •

Professor Myrna Simpson used soil from the valley at UTSC to conduct groundbreaking research that showed unequivocally that global warming will alter soil processes and composition.

Shedding light on the Earth's surface

35

Professor Nicholas Eyles is a glacial geologist involved in the study of the formation of ice and rock over millions of years and its impact on climate change and the evolution of humans as a species.

Professor Eyles has also made a difference in the public domain. He served as the scientific authority on the CBC-TV series Geologic Journey, a five-part documentary on the geology of Canada. Seen by 20 million viewers, the series, hosted by ecologist David Suzuki, also aired on Discovery Channel. Its companion book – *Canada Rocks: The Geologic Journey* – co-written by Eyles and his colleague Professor Andrew Miall, became a Canadian best-seller. Two follow-up series, each in four parts, will be produced in 2009 – one on world geology and the other on oceans.

The ability of Eyles to engage people in geology also extends to his classroom. "All my classes, even in first year, get people into the field, so they can see the significance of rocks in ancient landscapes. It sticks with them," explains Eyles. "They look at their area – their country – in a different way."

Professor Nick Eyles (centre) on location in the Canadian Rockies with the film crew from CBC-TV's *The Nature of Things*.

Will we run out of soil before we run out of oil?

In her groundbreaking research on the chemical nature of soil, Myrna Simpson, Professor of Environmental Chemistry, and her research collaborators – professors Dudley Williams and André Simpson – have been the first to show that global warming changes the molecular structure of organic matter in soil. As a testament to the importance of this discovery, her findings were recently published in the prestigious journal *Nature Geoscience*.

It's essential to understand how global warming affects soil composition because such an impact could significantly hinder the ability of agriculture to feed the world. Organic matter is central to soil fertility, as it allows soil to retain water and prevent erosion. Through the carbon cycle, soil holds twice as much carbon dioxide than what is found in the atmosphere.

"We need to look closely at what is happening to [soil's] organic-matter composition," notes Simpson, "because the more detailed you get, the better you can predict the future."

Prior to the research conducted by Simpson and her group, not much was known about the molecular composition of soil. Part of the reason is that soil is difficult to analyze because it has numerous components, including bacteria, fungi and an assortment of fresh, partially degraded and old plant material.

Simpson's team used an outdoor lab in the river valley of UTSC. While electrodes warmed the test soil through winter and summer seasons, soil samples were analyzed at UTSC's nuclear magnetic resonance (NMR) facility – the only NMR facility in Canada specifically dedicated to environmental research. The results of the research point to significant shifts in soil processes as a result of global warming.

AT A GLANCE

DISCIPLINES

Psychological Science
Neuroscience (collaborative with Biological Sciences)
Mental Health Studies (2009)
Clinical Psychology (MA/PhD)*
Neuroimaging Technologies (MSc)*

* proposed for 2011

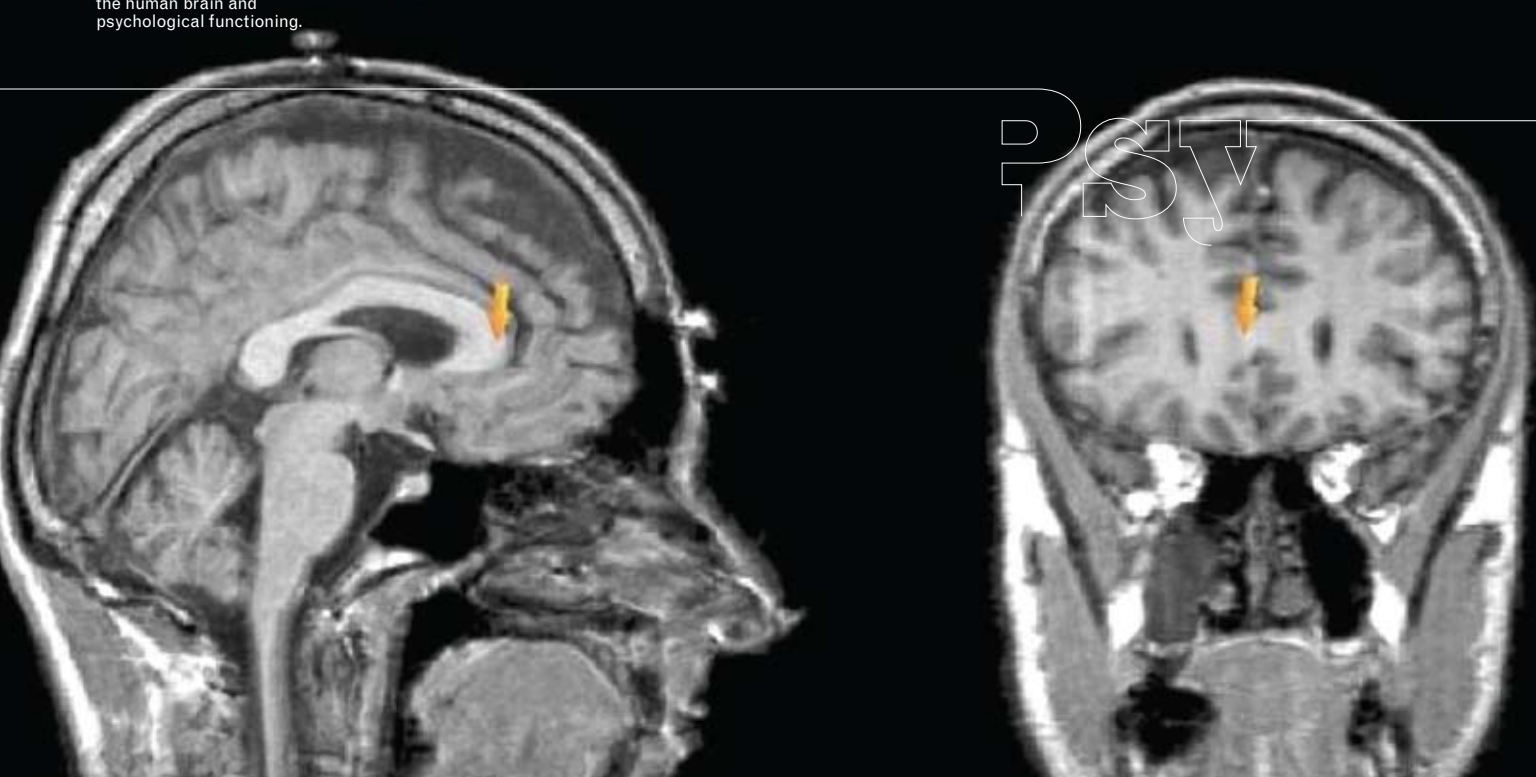
RESEARCH STRENGTHS

Cognitive, Social & Affective Neuroscience (including Neuroimaging Technologies)
Computational Cognition
Lifespan Development
Social & Personality Psychology
Mental Health

Think: *Frontiers*

Psychology

UTSC psychologists are using cutting-edge technology such as neuroimaging to gain deeper insights into the human brain and psychological functioning.



The study of the human mind in all its aspects is active at the University of Toronto Scarborough – social, personality, abnormal, developmental, cognitive and perceptual psychology – and extends into the neural dimension. Neuroscience is one of the Department of Psychology's research strengths and it is matched by teaching excellence that brings students to the forefront of psychology's newest frontiers.

The Psychology Department at UTSC is involved in leading research, with faculty working in many current and emerging fields of study. One cluster is focused on computational approaches to cognition, which adds a theoretical perspective to enrich the department's functional neuroscience endeavours. Other clusters involve developmental phenomena, social and personality psychology, and mental health. Our highly regarded scientists are also using neuroimaging technologies to investigate how the human brain works.

In recent years, the Psychology Department has grown significantly, with four ongoing searches promising to further enhance the faculty. As measured by faculty numbers, the size of the Scarborough department is considerable, equaling the size of the departments at the St. George and Mississauga campuses. All UTSC faculty participate in U of T's graduate programs.

Our strong faculty have earned many accolades in teaching and research. John Kennedy is a Fellow of the Royal Society of Canada and Laura-Ann Petitto has been elected a Fellow of the American Association for the Advancement of Science. They have both been invited to centres for advanced studies – Petitto at Stanford and Kennedy at Berlin. Suzanne Erb won a Governor General of Canada's Gold Medal.

Besides the increasing number of students who enrol in psychology courses, there are other indicators of teaching excellence at UTSC. Most dramatic is the success of the Psychology faculty at TVO's *Best Lecturer Competition* in the past three years. Steve Joordens and Marc Fournier (with Biology professor Maydianne Andrade) made the competition's list of top 10 finalists in 2007, and Fournier and Gerry Cupchik made the list in 2008. What is remarkable about the 2008 achievement is that both UTSC lecturers were the only faculty to finish in the top 10 from the entire University of Toronto system. The success continues, with 12 faculty members from UTSC – 7 of them from the Psychology Department – nominated for the first round of the 2009 competition.

Currency in new and emerging fields of study is also central to our development of programs, including our proposed courses in Mental Health Studies and a leading-edge Master's and PhD programs in Clinical Psychology, all based at UTSC.

As one of the primary factors impacting disability, mental health is a vital concern in today's society but traditionally also a taboo subject, which was evidenced by a series of stories published recently in *The Globe and Mail*. Perceived as instrumental in "outing" this health challenge, the series has helped promote the importance of mental health, while heightened public awareness of the issue has resulted in an increasing number of students pursuing psychology as their field of study.

Traditional psychology was about therapy and interpersonal supports that helped patients deal with life and social stresses. This approach is now complemented by >

Mapping science's new frontier – the brain

As an undergraduate, Laura-Ann Petitto conducted research with a chimpanzee in an attempt to teach him sign language, and ever since has had a career-long fascination with language. Her current research project at UTSC, however, studies not just language development but also the neural tissue that makes human language possible. It also has an impact on aspects as diverse as dyslexia and bilingualism.

Petitto – the senior scientist of UTSC's Genes, Mind & fNIRS Brain Imaging Laboratory for Language, Bilingualism and Child Development – uses cutting-edge technology to map brain activity. Says Petitto: "With new neuroimaging technologies and new methods to associate clusters of genes with their regulatory role in parts of the human brain, we have the capacity to look inside a living human brain and to study many clusters of genes in relation to the brain and its higher cognitive functions, such as language, and executive functions, such as attention and memory."

The technology at the centre of Petitto's lab is a functional near-infrared spectroscopy (fNIRS), which utilizes light to detect changes in blood flow in the brain. Small, portable, silent and less costly than an fMRI (functional magnetic resonance imaging), fNIRS is also more tolerant of movement, thereby permitting participants to do a fuller range of more natural activities such as talking and writing while undergoing brain imaging.

Psychology Professor Laura-Ann Petitto uses functional near-infrared spectroscopy (fNIRS) for her research. The high-tech method utilizes light to detect changes in the brain's blood flow and map brain activity.

psychopharmacological and neuroscience approaches to understand the mechanisms of the brain.

Our programs at UTSC will offer a balance – and a choice. This dual focus on psychobiological and psychosocial factors will position our programs at the leading edge of education in the field. Another exciting new direction for psychology is neuroimaging technology – the use of technology to monitor brain activity. These new programs will enhance our strength in cognitive, affective and social neuroscience, as well as in social and developmental psychology and in "wet" neuroscience.

Several of our researchers are using these tools to investigate higher-order cognition in addition to social and affective phenomena. Linking human phenomena to brain activity gives much deeper insights into psychological functioning.

Our labs are home to a functional near-infrared spectroscopy (fNIRS) recorder, electroencephalography (EEG) installations and electrophysiology systems that monitor neural and autonomic activity concurrently. One of our labs has a virtual-reality installation; another has an installation for visual-perception research that includes an eye tracker.

While neuroimaging has become the method of choice for neuroscience research, very few programs provide focused professional training in imaging technologies. At UTSC, we are developing another graduate program centred on imaging technologies.

While the requirements for this – and for our Clinical Psychology graduate programs – have not yet been fully laid out, we know that the training will be multifaceted. Departmental strengths such as computational modelling, a relevant tool for theorizing about neural data, will be part of the course.

These are exceptional times for psychology, both as a department and as a field. Gaining autonomy in 2007 has galvanized our planning for the next five years. We are confident that these plans, once achieved, will benefit students, staff and faculty and will contribute to the growing success of UTSC. •

Psychology Professor Michael Inzlicht studies the biological bases of racism and the brain's mirror neuron system to examine how it affects the way people perceive others from different ethnic groups.

Decoding the mind of prejudice

High-tech learning with personal impact

The most popular first-year course at UTSC is Introductory Psychology, which is taken by 70 percent of students – as many as 1,500 all at once. The popularity of this course poses challenges, not the least being the need to engage students in a large-class context.

Professor Steve Joordens succeeds in this area on a number of fronts. He's a three-time contender in TVO's *Best Lecturer Competition* – twice, including 2008, in the top 20.

"Students can view textbook material as dry. I try to make it relevant to their lives," explains Joordens. "To illustrate reinforcement and conditioning, for example, I use the idea of flirting: Should a girl smile each time a guy flirts with her? This makes an abstract concept real. Students respond to it."

From his background – in cognition and memory – Joordens has branched into the use of technology in learning. He and his team were among the first to employ webOption courses, applying rigorous methodologies to ensure that learning is not eroded.

Introductory Psychology is taught to 500 students in a classroom setting and to 1,000 others through webOption. Originally conceived by Dr. John Bassili, Chair of the Psychology Department at UTSC, the online alternative is preferred by students because of its flexibility. It allows them to watch a lecture – and to pause and rewind – at any time. This year, up to 30 UTSC courses are available to students via webOption.

Joordens also enjoys success with his Internet-based peerScholar program, which supports his belief that teaching should foster critical thinking. By engaging students in peer reviewing each other's work, this technology provides an active learning experience. Students submit their essays online, and then evaluate and comment on six other anonymous submissions on the same topic. As they assess their peers' work, their own essays are being marked by six other students.

Now in use at UTSC for seven years, peerScholar was recently licensed by Pearson Education Canada, which will distribute the program across North America in January 2009.

Professor Steve Joordens is skilled at delivering high-powered lectures and using technology, so that even in large classes, such as Introductory Psychology, students get the most out of their learning.

For those who think prejudice is dead in egalitarian countries such as Canada, UTSC psychology professor Michael Inzlicht responds: Racism is alive and well. It has simply mutated.

Its most subtle form is "implicit racism" – the unconscious attitudes of even those who consider themselves consciously unbiased. This type of racism is difficult to measure in the lab because people may be unaware of their biases or want to hide them.

Exploring a new area in psychology, Inzlicht's groundbreaking research on prejudice focuses on the role of mirror neurons – a system of brain cells considered to be involved in triggering feelings of empathy – which activate when a person performs certain acts and also when that person observes other people performing the same acts.

Does implicit racism exist and, if so, is it possible to change the brain's hardwiring? In attempting to answer that question, Inzlicht and his team record the brain activity of people watching videos of others performing simple actions. The goal is to see if our mirror-neuron system activates when we watch those who look like us (our in-group) versus those unlike us (our out-group). If his hypothesis proves true – that there is less mirror-neuron activity with out-group than with in-group members – then the evidence would suggest that empathy with our in-group is hard-wired in our brains.

Still, this does not mean that prejudice is unavoidable. In researching gender prejudice, for example, Inzlicht has found that women who work in mathematics and sciences in Eastern Europe don't experience negative stereotyping as their counterparts do in the West. "If environmental influences affect how we perceive others and how we behave – and they do – environment can change the very expression of our genes," he says.

AT A GLANCE

DISCIPLINES

Anthropology
City Studies
Geography
Health Studies
International Development Studies
International Studies
Political Science
Public Policy
Sociology

RESEARCH STRENGTHS

The planning and governance of cities; tourism, recreation and world heritage sites; political ecology, forms of environmental knowledge and governance; equity, gender, and rights; ethnic diversity and multiraciality; epidemics and the history of health care in Latin America and Eastern Europe; transnational religious movements; failed authoritarian states; teenage gangs; the ethics of ordinary life; international development; local issues, ranging from foster parenting and citizenship, to regional planning and greenbelts.

Think: *Global*

Social Sciences

SS

In 2008, Leslie Campbell (pictured left and on opposite page) worked as an Agricultural Program Assistant in Thailand through CUSO/VSO Canada for his IDS placement. He helped the organization's local partner there, Network for Environment and Economic Development (NEED), to develop a model farm and an environmental and agricultural curriculum.

At the University of Toronto Scarborough's Social Sciences Department, we prepare students to become effective, enlightened global citizens poised to face the challenges of the future. With a range of program choices, we develop their conceptual tools in order to obtain a nuanced understanding of complex issues and make an impact on the processes of socio-political change.

Social sciences are fundamental to a well-rounded education. These disciplines prepare tomorrow's leaders with the tools to tackle the challenges and opportunities of the 21st century – globalization, international migration and cultural diversity, increasing urbanization, inequalities both local and global, and environmental sustainability.

A strong social sciences department begins with outstanding faculty. Every tenure-stream faculty member of our Social Sciences Department has a strong international reputation. Many are working internationally and making significant contributions to debates in global governance, civil society, international migration and the ethics of ordinary life.

Over the past year, Social Sciences faculty have been developing plans to strengthen the balance of disciplinary and interdisciplinary programs and facilitate new academic initiatives. Looking ahead, the department will continue to build programs in emerging disciplines and increase experiential learning. There will be a major renewal over the next five years in our department, with as many as 31 new faculty appointments in an anticipated surge of replacements and new hires.

This department promotes scholarship at the confluence of four disciplines: Political Science and Sociology, our largest single-discipline programs, and Anthropology and Human Geography. At the intersections, are programs in City Studies, International Studies, Health Studies, Public Policy and International Development Studies, a program which attracts outstanding international and Canadian students and involves a year working in countries such as Zambia, Bolivia, Thailand, and Ghana.

City Studies, one of our newest inter-disciplinary fields, further exemplifies our department's approach to emerging issues in research and programming. Launched in 2003, City Studies now has 175 students enrolled. The program is developing a new experiential service learning component, in a blend of academic programming and partnerships with local communities that we believe does not exist elsewhere [see story on page 43].

Other initiatives include a new gateway course, Society in Mind, which will introduce students to the thinkers and ideas that have shaped the development of the social sciences and will challenge traditional ways of thinking about the world. The Centre for Canadian Ethnography will be reinforced by new faculty hires that will position UTSC as a leading centre for research in socio-cultural anthropology and cultural diversity.

Social Sciences has the potential to foster cross-disciplinary teaching and research. We aim to support the insights and intellectual strengths associated with traditional disciplines and then combine them with innovative, cooperative teaching and research across disciplines and curricula. •

Sustainable solutions for global health

With her comprehensive research into the history of public health in Latin America, Professor Anne-Emanuelle Birn has emerged as an expert on international health policy. In her study of child health in early-20th-century Uruguay, for example, she was able to show an unequivocal relationship between infant mortality and social factors, such as inequality.

At UTSC, Birn helps students understand global health challenges through her introductory course, International Health Policy Analysis, and her advanced course, Issues in International Health. Meanwhile, her classroom experience has enhanced her work as lead author of Oxford University Press's *Textbook of International Health: Global Health in a Dynamic World*, for publication in February 2009. "In writing the book," notes Birn, "I had the learning experience of UTSC students in mind."

Among her most noteworthy recent engagements was a critique, published in the prestigious medical journal *The Lancet*, of Grand Challenges in Global Health, an initiative of the Bill and Melinda Gates Foundation. According to Birn's article, which received extensive media coverage, the Grand Challenges initiative ignores social science in sole favour of technical innovations, giving priority to technological quick fixes over preventive approaches. Any real impact on global health, Birn argued, must integrate socio-political and scientific solutions.

Students in Professor Anne-Emanuelle Birn's course, Issues in International Health, highlight UTSC International Health Week by creating interactive displays that raise awareness of a diverse range of issues, from human-organ trafficking to prenatal care, delivery and infant health.

When climate change crosses borders

When global environmental problems such as climate change rose to prominence in the 1980s, it was assumed that governments would solve them through international negotiations – a conventional wisdom that has since been challenged over the last decade.

The stagnation of such negotiations is what motivates Professor Matt Hoffmann's current research on global climate governance. His interest in global environmental politics began with an undergraduate program in environmental engineering, and during his doctoral studies he researched the dynamics of multilateral environmental negotiations. According to Hoffmann (pictured left), we need creative, new ways to deal with climate change. In a book he is currently writing, he analyzes how the world is responding to a stalemate in multilateral climate negotiations through various initiatives from local communities, cities and provinces, as well as corporations.

Working with researchers in Ottawa and the U.S. and at the University of Toronto St. George, Hoffmann has applied for a federal grant from the Social Sciences and Humanities Research Council (SSHRC) to study environmental initiatives, including emissions trading, where eager student volunteers have offered to assist with his research.

He is also planning a Summer Scholarship program on behalf of the department to better integrate top undergraduate students into faculty research projects. Students hired for the 10-week summer program, to be capped with a student conference, will be selected for the quality of their proposal and its synergy with the faculty supervisor's research agenda.

Reconciling cultural and national identity

Immigration has transformed Toronto. With nearly half the city's population born outside Canada, multiculturalism is part of Toronto's identity. In such a diverse society, what are the fundamental rules and values that define us as Torontonians — or as Canadians? How, for example, do the votes of new citizens influence the outcomes of the democratic process?

Such questions are central to the research of Political Science Professor Phil Triadafilopoulos (pictured below, centre), who believes that Toronto and UTSC — the most diverse campus he has ever experienced — provide an ideal base for seeking answers. "There's no better place in Canada, or perhaps [even] North America or Europe," he says. "Students here have a thirst for anything relating to these issues because they relate to their lives."

Bolstering his perspective was the significant student turnout for 2008's Snider Visiting Lecturer, Professor Tariq Modood, an authority on ethnicity and founding director of the University of Bristol's Centre for the Study of Ethnicity and Citizenship.

Triadafilopoulos adds his own level of support. "The students here are...like me, often the first in their family to go to university.... It's nice to be able to encourage them to push their intellectual horizons because I share that background."

"Many of our students grew up in our catchment area," says Professor Andre Sorensen, "so their volunteer work will improve their own neighbourhoods. But for many it will bring a very different perspective on the largely unseen institutions that make cities work."

Building great cities, first-hand

Cities are now home to more than half of the world's population, which has sparked global questions about how to make cities work.

Known for his research on urbanization in Japan, Professor of Urban Geography Andre Sorensen (pictured left) has recently widened his focus, looking at the impact of civil society organizations on processes of urban change. According to Sorensen, such groups introduce important new methods and values to the city-building processes. Two examples are evident in Toronto – non-profit organization Evergreen's reshaping of the Don Valley Brickworks and Artscape's transformation of the historic Wychwood Barns.

It's a concept that is integral to the innovative City Studies program at UTSC, which offers two new courses in 2009-10. One involves fieldwork in East Scarborough, with students conducting joint research with local community organizations such as Action for Neighbourhood Change and East Scarborough Storefront. The other course provides service learning, with students volunteering at local agencies to learn about community development.

Canada's most distinctive program in international development

In 1985, UTSC introduced the International Development Studies (IDS) Co-op Program – a first for Canada. Several years later, the university added a Major option to the successful program, followed by a Minor and, recently, a Specialist stream. More than 400 students are currently enrolled in IDS, which combines an international development (ID) focus with other disciplines, such as environmental science, human geography, political science and history. It fosters cross-cultural sensitivity and an analytical understanding of vital issues, including social justice in developing countries.

Long recognized as a flagship program for UTSC, the Co-op section of IDS will mark 25 years of operation in 2010, making it one of the longest-running and best-recognized programs in Canada. The IDS Co-op is unique for its requirement that students must complete a one-year overseas placement in their fourth year. It is taken as a five-year BSc or BA, both combining physical and social sciences to reflect the two paradigms of development. Often in remote field settings, ID practitioners need to be versed in both the hard and soft aspects of development, ranging from practical concerns such as water resources to complex cultural and political issues. While working abroad, students devote a percentage of their placement time to their own primary research.

Some placements are in rural development projects; others are in head offices in regional capitals. Both types of placements let students grapple first-hand with diverse issues, ranging from soil management to AIDS orphans. Among UTSC's ongoing partners are CARE Canada, World University Service of Canada and Médecins Sans Frontières.

Sonya Silva, for example, was placed in the Shinyanga region in Tanzania, working with the Presbyterian World Service & Development and a local partner, the Africa Inland Church. Silva lived in a small rural town, helping the local church to monitor and evaluate its community programs in food security and water supply. Her work included field visits and writing reports and proposals. Silva is currently finishing a specialist program in IDS, with a focus on socio-cultural anthropology.

IDS Co-op admits 20 students per year, 25 percent of them from outside Canada, including China and India. The highly selective program attracts exceptional students, with entry averages above 85 percent.

Organizations such as the Canadian International Development Agency and CUSO have sought out IDS graduates as employees. A 2004 report documented our alumni in 18 countries on 5 continents, with more than half of them pursuing further degrees.

"In my 10-month IDS placement with the Ghana National Education Campaign Coalition,...[not] only did I learn the professional aspects of development, it was a personal growth experience."

– Courtney Strutt, fifth-year student, International Development Studies

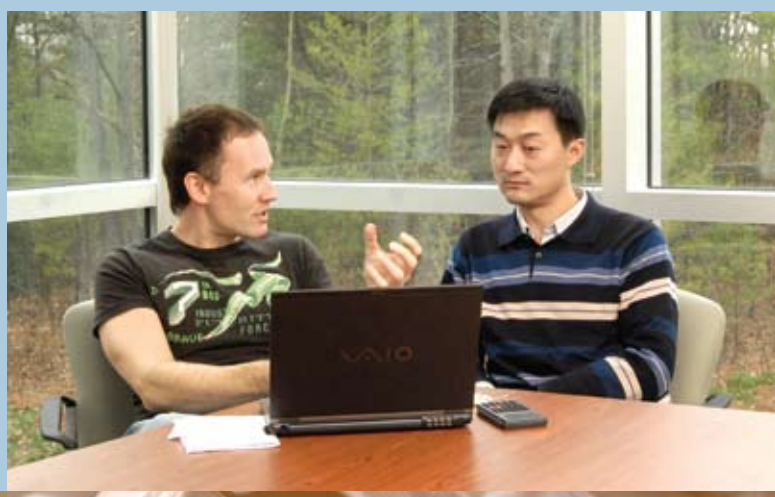
Rhodes Scholar making a difference as a global citizen

International Development Studies (IDS) alumnus Wojciech Gryc (pictured at right) was drawn to UTSC exclusively for its IDS Co-op Program. And although he switched to the non-Co-op Major in his third year, following a job offer from IBM in New York, he credits his co-op experience with providing the information, connections and skills to launch his own ID projects.

In 2005 Gryc made it to the "Top 20 Under 20" list of Youth in Motion, a Toronto-based charitable organization. In 2006 he travelled to Chad to teach young adults how to use computers, and then in 2007 he worked in the slums of Nairobi in Kenya training young adults to use computers in order to produce a community newspaper. For Gryc, a highlight of IDS was the quality of its people – faculty willing to listen to ideas and share their extensive networks with strongly committed students.

Currently completing a Master's in mathematical modelling and scientific computing at the University of Oxford on a Rhodes Scholarship, Gryc continues to collaborate with former classmates at UTSC. His Oxford degree doesn't mean he is abandoning international development: "I am studying mathematical modelling to solidify my knowledge, so I can apply its tools to social problems and public policy."

In 2008, IDS student Jenika Wong (below) worked for WUSC/Uniterra as an institutional capacity building officer in Lilongwe, Malawi, where she assisted a local youth-counseling organization with its strategies and programs.



Research Profile: Local & Global Impact

Message from the Vice-Principal (Research & Graduate Studies)

In the fall of 2008, I completed a three-year term as Vice-Principal (Research & Graduate Studies) at the University of Toronto Scarborough. Over that time, it has been a privilege to watch the research enterprise at this campus undergo a truly transformative phase. Many colleagues have worked diligently with me to ensure that scholarship and discovery become integral to the academic life at UTSC, and for their efforts I am grateful.

Research at UTSC has experienced a real maturation, coinciding with a dramatic growth in faculty and students. Yet, it is not head-count numbers but careful planning that has led to our position of strength today.

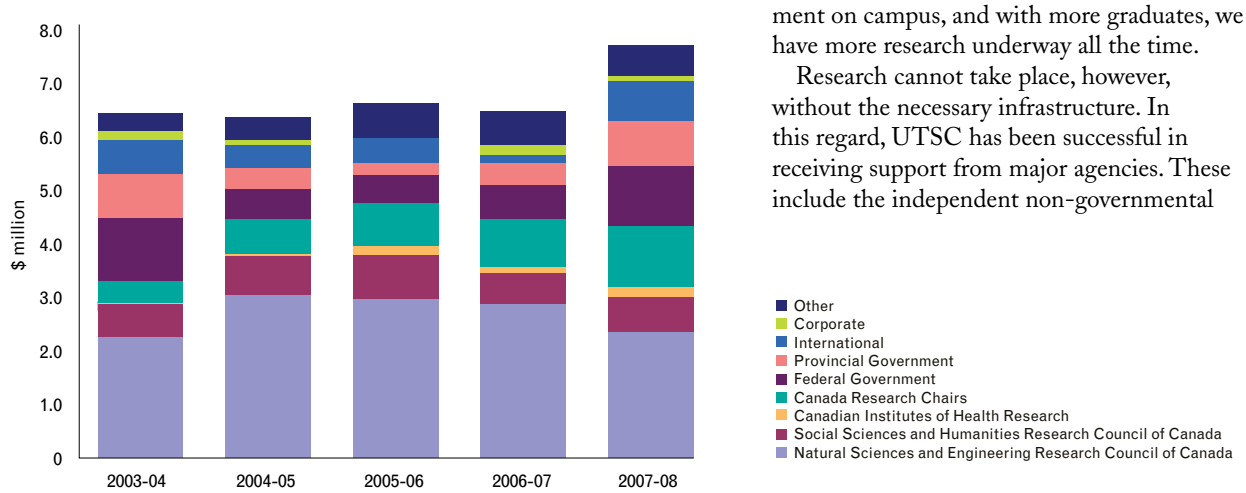
A research agenda is not built overnight. It takes time. Over many years, UTSC has made tough decisions, hired faculty strategically to allow research clusters to emerge, and has carefully directed resources to build infrastructure and employ graduate students in areas of distinction.

UTSC is now a full research partner in the University of Toronto tri-campus system. We boast eight Canada Research Chairs (CRC) – the hallmark federal government program that funds research programs of the most accomplished international minds at Canadian universities. Our success at creating eight Chairs at UTSC is relatively high for a campus of this size.

Over the past five years, the total amount of annual funding for research projects underway at UTSC has grown to almost $8 million – an increase of 19 percent. Across all academic departments, a true research culture has emerged, with collaborations and mentoring among faculty leading to greater success in grant proposals. Our faculty continue to submit grant proposals in increasing numbers, and grants are being awarded in increasing numbers, too. For the past three years, we have more than doubled our annual graduate enrolment on campus, and with more graduates, we have more research underway all the time.

Research cannot take place, however, without the necessary infrastructure. In this regard, UTSC has been successful in receiving support from major agencies. These include the independent non-governmental

Total research funding by source, 2003-04 to 2007-08



Canada Foundation for Innovation (CFI), which supports top research initiatives that strengthen Canada's capacity for innovation. In recent years, such funding has allowed, for example, our Psychology Department to expand its neuroscience imaging facility into a state-of-the-art lab, our Biological Sciences Department to install highly specialized, climate-controlled plant growth rooms, and our environmental geochemists to acquire and upgrade nuclear magnetic resonance spectrometers.

The opening of the new Science Research Building in October 2008 was a watershed for new infrastructure on this campus. I cannot overemphasize its significance to faculty and the community at large, as it will make possible research of global relevance. This state-of-the-art 6,080-square-metre facility provides lab space for 16 Principal Investigators and their research staff, all of them focused on responding to issues that matter to the whole planet. This new facility will be an important home for students at all stages of their academic careers, from the undergraduates working on lab projects to graduate and post-doctorate students, as well as research associates.

I have had the pleasure and privilege to be involved from the earliest stages of planning for the Science Research Building to the final construction. We have achieved our goal to create a new paradigm for dynamic research space. The open-concept layout will foster dynamic interdisciplinary interaction between researchers and students. Organized into research clusters, the labs will facilitate the types of collaborations that will lead to important discoveries.

UTSC now has a strong platform on which to reinforce existing programs and build new clusters of strength. As we continue our success in attracting exceptional faculty who build international reputations for research excellence, the University of Toronto Scarborough will, undoubtedly, soon take its place as a leading centre for research on the world stage.

Dr. John R. Coleman
Vice-Principal (Research & Graduate Studies)
Professor of Cell & Systems Biology

Summary of research grants & contracts, 2007-08

	$ Value	Number
Biological Sciences	2,669,091	54
Computer & Mathematical Sciences	760,827	22
Humanities	359,766	34
Management	275,731	21
Physical & Environmental Sciences	1,785,500	38
Psychology	1,047,747	23
Social Sciences	687,223	26
Total	**$7,585,885**	**218**

Summary of research publications, 2007-08

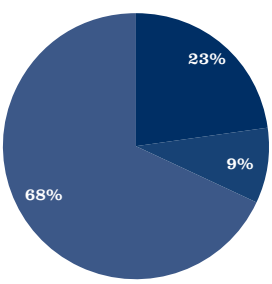
	Number of papers in refereed journals	Number of books	Number of book chapters
Biological Sciences	44	1	5
Computer & Mathematical Sciences	45	0	1
Humanities	92	2	25
Management	39	3	18
Physical & Environmental Sciences	91	3	5
Psychology	56	0	17
Social Sciences	40	7	49
Total	**407**	**16**	**120**

Summary of graduate-student supervision, 2007-08

	Number of graduate students supervised	Number of post-doctoral fellows
Biological Sciences	59	17
Computer & Mathematical Sciences	52	12
Humanities	63	1
Management	16	2
Physical & Environmental Sciences	51	6
Psychology	42	3
Social Sciences	50	2
Total	**333**	**43**

Graduate students supervised by UTSC faculty

Master of Art
Master of Science
Doctor of Philosophy



Designed for discovery

Our new Science Research Building (SRB) is dedicated exclusively to fostering collaborative research at UTSC. Scientists in the fields of brain science, plant biology and environmental science work in 16 open-concept labs in the three-storey SRB, which is situated next to the Highland Creek Ravine. Designed by Toronto's Moriyama + Teshima Architects, the state-of-the-art facilities are making a vital contribution to the intellectual life of the campus and enriching the undergraduate and graduate experience.

Conferences & Presentations

NORTH & CENTRAL AMERICA

Albuquerque, New Mexico, USA
Amherst, Massachusetts, USA
Ann Arbor, Michigan, USA
Arlington, Virginia, USA
Asilomar, California, USA
Athens, Ohio, USA
Atlanta, Georgia, USA
Baltimore, Maryland, USA
Banff, Alberta, Canada
Barrie, Ontario, Canada
Bellingham, Washington, USA
Berkeley, California, USA
Boston, Massachusetts, USA
Boyne Falls, Michigan, USA
Brockville, Ontario, Canada
Cambridge, Massachusetts, USA
Cancún, México
Cape Breton, Nova Scotia, Canada
Chapel Hill, North Carolina, USA
Chattanooga, Tennessee, USA
Chicago, Illinois, USA
Cold Spring Harbor, New York, USA
Columbus, Ohio, USA
Corvallis, Oregon, USA
Cuernavaca, México
Denver, Colorado, USA
Durham, Ontario, Canada
Edmonton, Alberta, Canada
Ellis Island, New York, USA
Etobicoke, Ontario, Canada
Ewing, New Jersey, USA
Fairfax, Virginia, USA
Fargo, North Dakota, USA
Fredericton, New Brunswick, Canada
Fredonia, New York, USA
Gatineau, Quebec, Canada
Georgetown, Washington, D.C., USA
Guelph, Ontario, Canada
Halifax, Nova Scotia, Canada
Hamilton, Ontario, Canada
Honolulu, Hawaii, USA
Ithaca, New York, USA
Kentucky, USA
Kingston, Ontario, Canada
Lafayette, Indiana, USA
Laurentians, Quebec, Canada
Lincoln, Nebraska, USA
Long Beach, California, USA
Los Angeles, California, USA
Louisville, Kentucky, USA
Lubbock, Texas, USA
Madison, Wisconsin, USA
Markham, Ontario, Canada
Marquette, Michigan, USA
Memphis, Tennessee, USA
Miami, Florida, USA
Middlebury, Vermont, USA
Milwaukee, Wisconsin, USA
Minneapolis, Minnesota, USA
Mississauga, Ontario, Canada
Montreal, Quebec, Canada
Mountain View, California, USA
Nashville, Tennessee, USA
New Orleans, Louisiana, USA
New York, New York, USA
North York, Ontario, Canada
Oakville, Ontario, Canada
Orlando, Florida, USA
Ottawa, Ontario, Canada
Pacific Grove, California, USA
Palo Alto, California, USA
Park City, Utah, USA
Peterborough, Ontario, Canada
Philadelphia, Pennsylvania, USA
Pittsburgh, Pennsylvania, USA
Portland, Oregon, USA
Princeton, New Jersey, USA
Providence, Rhode Island, USA
Puebla, México
Puerto Vallarta, México
Quebec City, Quebec, Canada
Richmond, British Columbia, Canada
Riverside, California, USA
Rochester, New York, USA
San Antonio, Texas, USA
San Diego, California, USA
San Francisco, California, USA
San Jose, California, USA
Sarasota, Florida, USA
Saskatoon, Saskatchewan, Canada
Savannah, Georgia, USA
Scarborough, Ontario, Canada
Seattle, Washington, USA
Smithfield, Rhode Island, USA
Snowbird, Utah, USA
St. Louis, Missouri, USA
Stanford, California, USA
Stratford, Ontario, Canada
Syracuse, New York, USA
Toronto, Ontario, Canada
Trois-Rivières, Quebec, Canada
Tucson, Arizona, USA
Urbana, Illinois, USA
Vancouver, British Columbia, Canada
Victoria, British Columbia, Canada
Waikoloa, Hawaii, USA
Washington D.C., USA
Waterloo, Ontario, Canada
Williamstown, Massachusetts, USA
Windsor, Ontario, Canada
Winnipeg, Manitoba, Canada
Yellowknife, Northwest Territories, Canada
Zacatecas, México

EUROPE

Amsterdam, The Netherlands
Arrábida, Portugal
Bailrigg, Lancaster, UK
Barcelona, Spain
Barga, Italy
Berlin, Germany
Birmingham, UK
Borovets, Bulgaria
Braga, Portugal
Brussels, Belgium
Cambridge, England
Constance, Germany
Copenhagen, Denmark
Coventry, England
Crieff, Scotland
Davos, Switzerland
Dubrovnik, Croatia
Durham, UK
Edinburgh, Scotland
Florence, Italy
Frankfurt (Oder), Germany
Geneva, Switzerland
Halle, Germany
Hamburg, Germany
Heidelberg, Germany
Helsinki, Finland
Innsbruck, Austria
Kalmar, Sweden
Krakow, Poland
Leeds, England
Leiden, The Netherlands
Leuven, Belgium
Lisbon, Portugal
Liverpool, England
Ljubljana, Slovenia
London, England
Madrid, Spain
Malmo, Sweden
Manchester, UK
Marburg, Germany
Moldova
Mont Verité, Switzerland
Murcia, Spain
Newcastle, United Kingdom
Oberwolfach, Germany
Paris, France
Perugia, Italy
Pisa, Italy
Poznan, Poland
Prague, Czech Republic
Rotterdam, Netherlands
Sheffield, UK
St. Andrews, Scotland
St. Malo, France
Torquay, England
Torun, Poland
Trieste, Italy
Turku, Finland
Vienna, Austria
Zürich, Switzerland

ASIA

Almaty, Kazakhstan
Ankara, Turkey
Beijing, China
Beirut, Lebanon
Emek Hefer, Israel
Hong Kong, China
Jerusalem, Israel
Jurong, Singapore
Kent Ridge, Singapore
Kuala Lumpur, Malaysia
Osaka, Japan
Seoul, South Korea
Shanghai, China
Suzhou, China
Tokyo, Japan

SOUTH AMERICA

Atibaia, São Paulo, Brazil
Buenos Aires, Argentina
Catamarca, Argentina
Ciudad Colón, Costa Rica
Comayagua, Honduras
Montevideo, Uruguay
Panama City, Panama
Rio de Janeiro, Brazil

AFRICA

Cape Town, South Africa
Durban, South Africa
Gaborone, Botswana
Johannesburg, South Africa
KwaZulu-Natal, South Africa

AUSTRALIA

Canberra, Australia
Kiola, Australia
Perth, Australia
Sydney, Australia
Wellington, New Zealand

50

Faculty List

As of January 2008

Aarts, M.M. B.Sc., M.Sc. (Western), Ph.D. (McGill), Biology, *Assistant Professor*

Aggarwal, P. B.A., M.B.A. (India), M.B.A., Ph.D. (Chicago), Management, *Assistant Professor*

Ahmed, S. B.Com., M.A. (Sind), M.B.A. (Concordia), Management, *Senior Lecturer*

Al-Kasey, T. B.A. (Slippery Rock), M.A.s, Ph.D. (Massachusetts), Languages and Linguistics, *Lecturer*

Andrade, M.C.B., B.Sc. (Simon Fraser), M.Sc. (Toronto), Ph.D. (Cornell), Biology, *Associate Professor*

Andrew, E.G., B.A. (British Columbia), Ph.D. (London), Political Science, *Professor Emeritus*

Arhonditsis, G.B., BSc &amp, MSc (Agricultural Univ of Athens, Greece), PhD (Univ of the Aegean, Greece), Environmental Science, *Assistant Professor*

Artymowicz, P., M.Sc.(Warsaw University), Ph.D. (N. Copernicus Astron. Center, Polish Academy of Sciences), Physics, *Professor*

Au, I.M.S., B.A., M.A., Ph.D. (Simon Fraser), Economics For Management Studies, *Lecturer*

Averbakh, I., M.Sc., Ph.D. (Moscow Institute of Physics &amp, Technology), Management, *Associate Professor*

Bahl, S., B.F.A. (York), M.A. (NYU), Visual and Performing Arts, *Lecturer*

Bamford, S., B.A. (Toronto), M.A. (McMaster), M.A., Ph.D. (Virginia), Anthropology, *Associate Professor*

Bassili, J., B.A. (McGill), Ph.D. (Cornell), Psychology, *Professor*

Beauquis, C., M.A., Ph.D. (Western), French, *Lecturer*

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Bender, D.E., M.A., Ph.D. (New York), History, *Assistant Professor*

Bennett, D., M.A. (Connecticut), English, *Associate Professor*

Berry, A., B.A. (Western), M.A. (Yale), Ph.D. (Princeton), International Development Studies, *Professor Emeritus*

Bertrand-Jennings, C., L. Đ¥s L. (Paris), Ph.D. (Wayne State), French, *Professor Emerita*

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Binnick, R.I., B.A. (CUNY), M.A., Ph.D. (Chicago), Languages and Linguistics, *Professor*

Birn, A.E., B.A. (Harvard), M.A. (University of Canterbury), Sc.D (Johns Hopkins), International Development Studies, *Associate Professor*

Bolus-Reichert, C., M.A., Ph.D. (Indiana), English, *Associate Professor*

Boonstra, R., B.Sc. (Calgary), Ph.D. (British Columbia), Biology, *Professor*

Borins, S., B.A. (Harvard), M.P.P. (Kennedy School of Gov't.), Ph.D. (Harvard), Management, *Professor*

Bors, D.A., B.A. (Florida), M.A. (Regina), Ph.D. (Toronto), Psychology, *Senior Lecturer*

Bovaird, C., B.A. (Queen's), M.Sc. (Stirling), M.B.A. (Western), Management, *Senior Lecturer*

Bowen, W.R., M.A., Ph.D. (Toronto), Visual and Performing Arts, *Associate Professor*

Bretscher, A., B.Sc., M.Sc. (Queen's), Ph.D. (Toronto), Computer Science, *Lecturer*

Brotman, Y., B.A. (Manitoba), B.Ed., M.V.S. (Toronto), Visual and Performing Arts, *Lecturer*

Brown, I.R., B.Sc. (Carleton), Ph.D. (Texas), Biology, *Professor*

Buchweitz, R.-O., Ph.D. (Hanover), Mathematics, *Professor*

Bunce, M.F., B.A., Ph.D. (Sheffield), Geography, *Associate Professor*

Burton, F.D., B.Sc., M.A., (NYU), Ph.D. (CUNY), Anthropology, *Professor Emerita*

Butler, K., Ph.D. (Simon Fraser University), Statistics, *Lecturer*

Butscher, A., Ph.D. (Stanford), Mathematics, *Assistant Professor*

Campolieti, M., B.Sc., M.A., Ph.D. (Toronto), Economics For Management Studies, *Associate Professor*

Carney, L., M.A. (Columbia), Visual and Performing Arts, *Associate Professor*

Chan, L., B.A., M.A. (Toronto), International Development Studies, *Senior Lecturer*

Chandrasekhar, S., B.Sc., M.Sc. (Bombay), Ph.D. (Victoria), Chemistry, *Lecturer, (deceased)*

Chau, D., B.Com. (Toronto), MBA (McMaster), Ph.D. (HKUST), Management, *Lecturer*

Chen, L.H., MSEd. (U Penn), M.B.A. (U Toronto), PhD (U Toronto), CGA, Management, *Lecturer*

Cheng, N., B.Sc. (Toronto), Computer Science, *Senior Lecturer*

Cheredeko, N., M.Sc. (Kharkov), Ph.D. (Moscow), Mathematics, *Senior Lecturer*

Chrysostomou, S., M.Sc. (Toronto), Mathematics, *Senior Lecturer*

Cleveland, G., B.A. (Dalhousie), M.A., Ph.D. (Toronto), Economics For Management Studies, *Senior Lecturer*

Colman, S.J., M.A. (Oxon.), Political Science, *Professor Emeritus*

Cormack, D.E., B.A. (Hons), M.A.Sc. (Toronto), Ph.D (California Inst. of Tech), Chemistry, *Professor*

Cree, G.S., B.A., M.A., Ph.D. (Western), Psychology, *Assistant Professor*

Cuddy-Keane, M.C., M.A., Ph.D. (Toronto), English, *Professor*

Cummings, B.A. (York), M.A. (Dalhousie), Ph.D. (2008) (York), Anthropology, *Assistant Professor*

Cupchik, G.C., B.A. (Michigan), M.A., Ph.D. (Wisconsin), Psychology, *Professor*

Daga, S., B.A. (Waterloo), M. Ed. C.A. (CICA) C. P. A., Management, *Senior Lecturer*

Dalili, S., M.Sc., Ph.D. (Toronto), Chemistry, *Lecturer*

Daswani, BSc (National University of Singapore), MSc, PhD (London School of Economics), Anthropology, *Assistant Professor*

Dion, K.K., B.A. (Wellesley), Ph.D. (Minnesota), Psychology, *Professor*

Dolan, N., M.A., Ph.D. (Harvard), English, *Assistant Professor*

Donaldson, D.J., B.Sc. (Carleton), Ph.D. (Carleton), Chemistry, *Professor*

Doucette, L.E., B.A. (London), Ph.D. (Brown), French, *Professor Emeritus*

Dowler, E.W., A.M., (Harvard), Ph.D. (London School of Economics), History, *Professor*

Droge, A.J., Ph.D. (Chicago), Humanities, *Professor*

DuBois, A., Ph.D. (Harvard), English, *Assistant Professor*

Dunbar, K.N., B.A., M.A., (University College Dublin), Ph.D. (Toronto), Psychology, *Professor*

Duncan, K., Hons. BA (University of Toronto), PhD (University of Edinburgh), Health Studies, *Assistant Professor*

Dyer, C.C., B.Sc. (Bishop's), M.Sc., Ph.D. (Toronto), Astronomy, *Professor*

Dyson, I., BA, MA, Ph.D (Toronto), Languages and Linguistics, *Lecturer*

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Enright, W.H., B.Sc. (U.B.C.), M.Sc., Ph.D., (Toronto), Computer Science, *Professor*

Erb, S., B.Sc. (Wilfrid Laurier), M.A. , Ph.D. (Concordia), Psychology, *Assistant Professor*

Evans, M., B.Sc. (Western Ontario), M.Sc., Ph.D., Statistics, *Professor*

Eyles, N., B.Sc. (Leicester), M.Sc. (Memorial University NFLD), Ph.D. (East Anglia), D.Sc. (Leicester), P.Geo., Environmental Science, *Professor*

Fitzpatrick, M.J., B.Sc., M.Sc., (Brock), Ph.D. (Toronto), Biology, *Assistant Professor*

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Foley, J.E., B.A., Ph.D. (Sydney), Psychology, *Professor Emerita*

Forrin, B., B.A.(Toronto), M.A., Ph.D (Michigan), Psychology, *Professor Emeritus*

Fournier, M.A., B.A., Ph.D. (McGill), Psychology, *Assistant Professor*

Fraser, G., M.A. (Toronto), Ph.D. (Yale), International Development Studies, *Assistant Professor*

Fraser, S., B.A. (Oxford), Ph.D. (Cambridge), Chemistry, *Associate Professor*

Frazer, G., B.Math (Waterloo), B.Ed. (Western), M.A. (Toronto), M.Phil., Ph.D. (Yale), Economics For Management Studies, *Assistant Professor*

Friedlander, J., M.A. (Waterloo), Ph.D. (Penn. State), F.R.S.C., Mathematics, *University Professor*

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Gazzarrini, S., B.Sc., M.Sc. (Milan), Ph.D. (Tuebingen), Biology, *Assistant Professor*

Gerber, R.E., B.Sc. (Waterloo), M.Sc., Ph.D. (Toronto). P.Geo., Environmental Science, *Adjunct Assistant Professor*

Gervers, M., A.B. (Princeton), M.A. (Poitiers), Ph.D. (Toronto), Visual and Performing Arts, *Professor*

Ghosh, Geography, *Assistant Professor*

Giri, T., B.Sc., M.Sc. (Toronto), Ph.D. (Texas), Biology, *Lecturer*

Goldman, M.B., M.A., (Victoria), Ph.D. (Toronto), English, *Associate Professor*

Goldstein, M., Ph.D. (Tashkent), Mathematics, *Professor*

Gough, W.A., B.Sc. (Waterloo), M.Sc. (Toronto), Ph.D. (McGill), Environmental Science, *Associate Professor*

Graham, W.C., M.A., Ph.D. (Toronto), Philosophy, *Professor Emeritus*

Greenwood, B., B.Sc., Ph.D. (Bristol), Ph.D. (Hons. Causa, Uppsala), Environmental Science, *Professor*

Griffin, A., M.Sc. (British Columbia), Ph.D. (Cornell), Physics, *Professor Emeritus*

Grinnell, R., Ph.D. (Queen's), Mathematics, *Lecturer*

Guberman, C., B.A. (Manitoba), M.E.S. (York), Women's Studies, *Senior Lecturer*

Gurd, J.W., B.A. (Mount Allison), Ph.D. (McGill), Psychology, *Professor Emeritus*

Hadzilacos, V., B.S.E. (Princeton), Ph.D. (Harvard), Computer Science, *Professor*

Haley, D.W., B.A. (Annapolis), M.A. (San Francisco), Ph.D. (Albuquerque), Psychology, *Assistant Professor*

Hannigan, J., B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Sociology, *Professor*

Harney, E.A., M.Phil., Ph.D. (London, U.K.), Visual and Performing Arts, *Assistant Professor*

Harrison, R.E., B.Sc. (Winnipeg), M.Sc. (Manitoba), Ph.D. (Toronto), Biology, *Assistant Professor*

Hasenkampf, C.A., B.Sc. (Loyola), M.Sc., Ph.D. (Florida State), Biology, *Associate Professor*

Hashim, A., B.Sc. (Colombo), Ph.D. (Missouri), Statistics, *Senior Lecturer*

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52

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Grants & Awards

Aarts, Michelle M. *Biochemistry and Signaling of TRPM-family cation channels.* Natural Sciences and Engineering Research Council of Canada.

Aarts, Michelle M. *Development of a Stroke-Model in Non-Human Primates.* Canadian Stroke Network.

Aarts, Michelle M. *Establishment of a Molecular Biology and Proteomics Laboratory for Research into Signal Transduction and Cell Death in Ischemia.* Canadian Foundation for Innovation.

Aarts, Michelle M. *NMDA: Treatment of Stroke with Peptide and Small Molecule Inhibitors of NMDA Receptor-PSD95 Interaction.* Canadian Stroke Network.

Aarts, Michelle M. *Signal Transduction in Ischemia.* Canada Research Chair.

Aarts, Michelle M. *Targeting Cell Death in the Neurovascular - Inflammatory Unit.* Canadian Stroke Network.

Aggarwal, Pankaj. *Brand Anthropomorphism: People as Carriers of Brand Traits.* Social Sciences and Humanities Research Council of Canada – Special Call in Management, Business, and Finance.

Aggarwal, Pankaj. *The Heuristic Basis of Consumer Choice and Brand Preferences.* Social Sciences and Humanities Research Council of Canada.

Aggarwal, Pankaj. *The Heuristic Basis of Consumer Choice and Brand Preferences.* Social Sciences and Humanities Research Council of Canada – General Research Grant.

Aggarwal, Pankaj. *The Moderating Role of Brand Relationship Norms on Fairness and Causal Attributions.* Social Sciences and Humanities Research Council of Canada.

Andrade, Maydianne C.B. *Best Lecturer Competition Finalist.* Television Ontario.

Andrade, Maydianne C.B. *Influence of mating system and variable selection on adaptive variation within and across species of black widow spiders.* Natural Sciences and Engineering Research Council of Canada.

Andrade, Maydianne C.B. *Integrative Behaviour & Neuroscience Research & Rearing Facility.* Canadian Foundation for Innovation Ontario Research Fund – Leaders' Opportunity Fund Grant.

Andrade, Maydianne C.B. *Integrative Behavioural Ecology.* Canada Research Chair.

Arhonditsis, George B. *Bayesian Calibration and Benefits for Environmental Management.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Artymowicz, Pawel. *The Origin and Early Evolution of Planetary Systems.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Averbakh, Igor. *Nonclassical Discrete Optimization Problems.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Beauquis, Corinne. *Research in Montreal to prepare for APFUCC & CIEF Conferences.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Bejar, Susana. *Data Elicitation for Inuktitut Language Workshop.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Bejar, Susana. Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Birn, Anne-Emanuelle. *Grant for Occasional Workshops.* Social Sciences and Humanities Research Council of Canada.

Birn, Anne-Emanuelle. *History (Non-U.S.).* Fulbright Scholarship to France (Multidisciplinary Research Award).

Birn, Anne-Emanuelle. *International Health in the Making: Uruguay on the Global Stage, 1880-1940.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Birn, Anne-Emanuelle. *International Health.* Canadian Institutes of Health Research – Canada Research Chair (Tier II).

Boonstra, Rudy. *Response of the Boreal Forest in the Yukon to Global Warming.* EJLB Foundation, Montreal.

Boonstra, Rudy. *Student Salary.* Department of Indian and Northern Affairs – Northern Sciences Training Program.

Boonstra, Rudy. *Support of Arctic Institute Base at Kluane Lake, Yukon.* Natural Sciences and Engineering Research Council of Canada – Major Resources Support Program.

Boonstra, Rudy. *The Role of Stress in Natural Populations.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Boonstra, Rudy. *The Role of Stress in Natural Populations.* Natural Sciences and Engineering Research Council of Canada - Northern Research Supplement.

Boonstra, Rudy. *Vehicle Grant for Algonquin Wildlife Research Station.* Natural Sciences and Engineering Research Council of Canada – Equipment Grant.

Borins, Sandford. *Contemporary Narratives on Managing Public Organizations.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Borins, Sandford. *The Impact of Information Technology on the Public Sector.* Social Sciences and Humanities Research Council of Canada – Initiative on the New Economy Public Outreach Grant.

Bowen, William. *Improving Access to Medieval and Renaissance Manuscripts: The Cranz Corpora Online.* Gladys Krieble Delmas Foundation.

Brotman, Yael. Canada Council for the Arts – Visual Arts Summit Bursary.

Brown, Ian R. *Heat Shock Proteins in the Nervous System.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Brown, Ian R. *Protein Misfolding in Neurodegenerative Disease.* Canada Research Chair.

Buchweitz, Ragnar-Olaf. *Deformations of Complex Structures.* Natural Sciences and Engineering Research Council of Canada – Operating Grant.

Buchweitz, Ragnar-Olaf. *Homological Methods in Algebra and Geometry.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Campolieti, Michele. *A Spectral Analysis of Disability Benefits and the Labour Force Participation of Older Men in Canada.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Campolieti, Michele. *An Analysis of Unemployment Incidence and Duration: Canada, 1987-2004.* Canadian Labour Market and Skill Researcher Network.

Campolieti, Michele. *Disability and the Labour Market.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Campolieti, Michele. *Disabled Persons and Volunteer Work in Canada: An Empirical Analysis Using the PALS.* Canadian Labour Market and Skill Researcher Network.

Campolieti, Michele. *Informal Learning in Canada: Estimates from a Two-Part Model and Time Use Data.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Campolieti, Michele. *Minimum Wage Impacts in Canada.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Campolieti, Michele. *New Forms of Worker Voice and Representation in Canada and the U.S.: Are Unions Being Squeezed Out?.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Campolieti, Michele. *Skill Acquisition of Dropouts and Subsequent Labour Market Behaviour.* Canadian Labour Market and Skill Researcher Network.

Campolieti, Michele. *Studies on the Duration of Workers' Compensation and Post-Injury Employment Spells.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Chan, Leslie Kin Wai. *Open Access Scholarly Information Source Book (OASIS). Practical Steps for Implementing Open Access.* Open Society Institute – Information Program.

Chan, Leslie Kin Wai. *Project Open Source and Open Access.* Atlantic Innovation Fund.

Chan, Leslie Kin Wai. *Smart Campus in Your Pocket (SCYP): A Research Framework for Inclusive Design and Student Engagement.* Bell University Laboratories.

Chen, Liang-Hsuan. *Choosing Canadian Graduate Schools from A-far: East-Asian Students' Perspective.* Council for Advancement and Support of Education, Washington, DC. - Alice L. Beeman Research Award in Communications and Marketing for Educational Advancement.

Cree, George S. *Neurobiologically Constrained Understanding of Semantic Memory.* Natural Sciences and Engineering Research Council of Canada.

Cuddy-Keane, Melba. *Modernism, Geopolitics, Globalization.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Cuddy-Keane, Melba. *Modernist Keywords.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Cupchik, Gerald C. *Excellence in Teaching.* TVO – Best Lecturer Finalist.

Daswani, Girish. *Spirit Mediums, Local Histories, and Global Identities in Southern Gana.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Dhuey, Elizabeth. *K-12 Education Expenditures.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Donaldson, James. *Fellow.* American Association for the Advancement of Science.

Droge, Arthur J. *Visiting Scholar–American Academy in Rome.* National Endowment for the Humanities.

DuBois, Andrew. *The Song Is You: Song Lyrics and Literary Study.* Jackman Humanities Institute.

Dunbar, Kevin & Petitto, Laura-Ann. *Arts Education and its Impact on the Brain and Enhanced Learning in Other Knowledge Domains.* Dana Foundation.

Dunbar, Kevin. & Petitto, Laura-Ann. *Center for Cognitive and Educational Neuroscience.* National Science Foundation - Science of Learning Center Grant.

Dunbar, Kevin. *The Traveling Exhibitions At Museums of Science (TEAMS).* National Science Foundation.

Dyer, Charles C. *Applications of General Relativity in Cosmology.* Natural Sciences and Engineering Research Council of Canada.

Eiling, Esther. *Dispersion, Equity Returns Correlations and Market Integration.* Inquire Europe.

Eiling, Esther. *Industry-Specific Human Capital, Idiosyncratic Risk and the Cross-Section of Stock Returns.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Enright, Wayne. *Robust and Reliable Software for the Numerical Solution of ODEs.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Enright, Wayne. *Silver Core Award.* International Federation for Information Processing.

Erb, Suzanne. *Role of Stress-Related Neuropeptides in the Reinstatement of Cocaine Seeking: Behavioural and Neuroanatomical Studies in Rats.* Natural Sciences and Engineering Research Council of Canada.

Evans, Michael. *Bayesian Statistical Inference and Computation.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Eyles, Nicholas. *A Geologic Journey: Nature of Things Television Series Opener and Lecture Tour at Canadian Science Centres (Canadian Broadcasting Corporation).* Natural Sciences and Engineering Research Council of Canada.

Eyles, Nicholas. *Canadian Arctic Drilling: A 50 Million Year Long Record of Changing Climate at the Top of the World.* Natural Sciences and Engineering Research Council of Canada – Special Research Opportunities Grant.

Eyles, Nicholas. *Geophysical Assessment of Lake Floor Habitat in Fathom Five Marine Park.* Parks Canada.

Eyles, Nicholas. *Sedimentology of Glaciated Basins.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Febria, Catherine M. *Canada Graduate Scholarship.* Natural Sciences and Engineering Research Council of Canada.

Febria, Catherine M. *Research Grant.* North American Benthological Society – President's Award.

Fleet, David J. *CIFAR Fellowship in Neural Computation and Adaptive Perception Program.* Canadian Institute for Advanced Research – Research Grant.

Fleet, David J. *Computational Vision.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Fleet, David J. *Storage and Analysis of Image and Video Data.* Natural Sciences and Engineering Research Council of Canada – Research, Tools and Instruments Grant.

Fleet, David J. *Video-Based 3D People Tracking.* Bell University Laboratories – Research Grant.

Fournier, Marc. *Adolescent Depressive Vulnerability Through Face-to-Face and Day-to-Day Social Interaction.* Canada Foundation for Innovation – New Opportunities.

54

Fournier, Marc. *Excellence in Teaching.* TVO – Best Lecturer Finalist.

Fournier, Marc. *High Schools as Hierarchies, Cliques as Coalitions, and the Social Ecology of Adolescent Depression.* Social Sciences and Humanities Research Council of Canada.

Fraser, Simon J. *Investigation of Invariant Manifolds, Bifurcations and Stochastics Processes in Chemical Systems.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Frazer, Garth. *Unions, Globalization, Wages and Productivity in Africa.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Friedlander, John B. *Research in Number Theory.* Natural Sciences and Engineering Research Council of Canada.

Friedlander, John B. *Research in Number Theory.* Natural Sciences and Engineering Research Council of Canada.

Fulthorpe, Roberta R. *Thermophilic Biofiltration of Odourous Compounds.* Natural Sciences and Engineering Research Council of Canada – Idea to Innovation Phase I Grant.

Gamble, Brenda Jean. *Employment Patterns Among Ontario's Allied Health Professionals.* Medicare to Home and Community – Research Unit's Opportunities Award.

Gazzarrini, Sonia. *Developmental Phase Transitions in Plants.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Gervers, Michael. *DEEDS Project.* Self-funded.

Gervers, Michael. *Digitization of Ecclesiastical Manuscripts on Parchment in Ethiopia.* Asien-Afrika-Institut of Hamburg University.

Gervers, Michael. *Participation in the International Symposium "In Search of Origins: Wool and Culture, 1500-1900".* Historic Deerfield.

Gervers, Michael. *Presenting a Paper at the School of Oriental and African Studies (SOAS), University of London.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Gervers, Michael. *Presenting a Paper to the Seminar in Humanities Computing, Centre for Computing in the Humanities, Kings College London.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Gervers, Michael. *The Zagwe Palatine Church of Yemrehanna Krestos (Lasta, Ethiopia): Its Historical and Art Historical Context.* Jackman Humanities Institute – Chancellor Jackman Research Fellowship in the Humanities.

Gervers, Michael. *The Zagwe Palatine Church of Yemrehanna Krestos (Lasta, Ethiopia); Its Historical and Art Historical Context.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Goldman, Marlene. *Altered States of Mind.* Jackman Humanities Institute.

Goldman, Marlene. *Constructing Consciousness.* Jackman Humanities Institute.

Goldman, Marlene. *The Politics and Poetics of Haunting in Canadian Literature.* Social Sciences and Humanities Research Council of Canada – General Research Grant.

Goldstein, Michael. *Applied Mathematics.* Guggenheim Fellowship.

Goldstein, Michael. *Lyapunov Exponents, Anderson Localization and Averages of Subharmonic Functions.* Natural Sciences and Engineering Research Council of Canada.

Gough, William A. *Assessing Vulnerability to Sea Ice Change: An Example from Igloolik, Nunavut.* Canadian Coalition for Immunization Awareness & Promotion.

Gough, William A. *Climate Change Scenarios Development.* Environment Canada.

Gough, William A. *IPCC Professional Course.* Environment Canada – Science Horizons.

Gough, William A. *Permafrost in Northern Ontario.* Ontario Ministry of Natural Resources.

Greenwood, Brian. *Coastal Hydrodynamics, Sedimentation & Morphodynamics.* Natural Sciences and Engineering Research Council of Canada.

Greenwood, Brian. *Sediment Transport on a Prograding (Accreting) Shoreline.* Danish Research Council for Science and Technology.

Hadzilacos, Vassos. *Fault-Tolerant and Synchronisation in Distributed Computing.* Natural Sciences and Engineering Research Council of Canada – Research Grant.

Haley, David W. *Coregistration of Ambulatory Impedance Cardiography and Behaviour Analysis.* Natural Sciences and Engineering Research Council of Canada.

Haley, David W. *Neuroendocrine Modulators of Infant Memory.* Natural Sciences and Engineering Research Council of Canada.

Haley, David W. *Stress and Memory: Physiology, Brain, and Behavior in Infants, Children, and Parents.* Canada Foundation for Innovation.

Harney, Elizabeth Ann. *In Senghor's Shadow.* Arnold Rubin Outstanding Book Award.

Harney, Elizabeth Ann. *Modernist Exile and Visual Arts in Postcolonial Perspective.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Harrison, Rene E. *Functional Roles and Molecular Regulation of the Microtubule Cytoskeleton in Phagocytosis and Antigen-Presentation.* Canadian Institutes of Health Research – Operating Grant.

Harrison, Rene E. *Microgravity Effects on Microtubule Architecture and Function in Cultured Bone Cells.* Canadian Space Agency/Canadian Institutes of Health Research - Operating Grant.

Harrison, Rene E. *Microtubule Associated Proteins in Phagocytosis and Infection.* Canadian Institutes of Health Research – Operating Grant.

Harrison, Rene E. *Microtubule Proteins during Phagocytosis and Infection.* Canadian Institutes of Health Research – New Investigator Award.

Harrison, Rene E. *Microtubule Proteins in Macrophages and Osteoclasts.* Ontario Ministry of Research and Innovation – Early Researcher Award.

Harrison, Rene E. *Microtubules in the Bone-Resorbing Osteoclast.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Harrison, Rene E. *Role of Osteoclastogenesis and Osteoclast Activation in Joint Destruction in Degenerative and Inflammatory Joint Diseases.* Canadian Institutes of Health Research – New Emerging Team Grant.

Hasenkampf, Clare A. *Chromosome Organization during Mitosis and Meiosis.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Hasenkampf, Clare A. *Excellence in Teaching.* Ontario Government – Leadership in Faculty Teaching Award.

Hasenkampf, Clare A. *Investigation of Chromosome Pairing, Synaptonemal Complex Formation and Reciprocal Genetic Exchange During Meiosis in Arabidopsis Thaliana.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Hasenkampf, Clare A., Riggs, Daniel, Vanlerberghe, Greg C. & Kronzucker, Herbert H. *Plant Growth Facility.* Natural Sciences and Engineering Research Council of Canada – Equipment Grant.

Heathcote, Joanna. *Training Leadership Skills with Technology.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Hejazi, Walid. *Analyzing the Canada-Barbados Economic Relationship.* Government of Barbados.

Hejazi, Walid. *Outsourcing.* Rotman School of Management: Desautels Centre for Integrative Thinking.

Hellie, Benj. *The Slightest Philosophy.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Hirst, Graeme. *Paraphrase and Semantic Distance in Applications of Natural Language Processing.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Hirst, Graeme. *Towards Articulatory-Based Adaptation in Recognition of Dysarthric Speech.* Bell University Laboratories.

Hirst, Graeme. *Towards Articulatory-Based Adaptation in Recognition of Dysarthric Speech.* Natural Sciences and Engineering Research Council of Canada – Collaborative Research Grant.

Hlynsky, David. *Collect Printed Ephemera from the Emerging, Artist-Run Culture in Toronto between 1970 and 1980 (For Exhibition).* Art Gallery of Ontario (AGO).

Hlynsky, David. *Produce a Digital Photo Collage.* Canada Council's Art Bank.

Hoffman, Matthew J. *Transnational Climate Change Governance.* Leverhulme Trust International Networks Grant.

Howard, K.W.F. *Equipment, Pressure, Conductivity Development on Aquifer Systems.* Natural Sciences and Engineering Research Council of Canada.

Howard, K.W.F. *Impacts of Urban Development on Aquifer Systems.* Natural Sciences and Engineering Research Council of Canada.

Howard, K.W.F. *Management and Sustainable Development of Urban Water Resources in the Azerbaijan Republic.* North Atlantic Treaty Organization – Science for Peace.

Howard, K.W.F. *New Approaches to the Vulnerability Assessment of Critical Transportation Infrastructure.* European Union, Science & Technology Centre in Ukraine.

Howard, K.W.F. *Origin and Transport Behaviour of Saline Groundwater Bodies of Central Alberta.* Alberta Ministry of the Environment – Solicited Research Contract.

Howard, K.W.F. *Strategic Options and Priorities in Global Groundwater Resources.* Global Environmental Facility – Proposal Development Award (Medium Size Proposal).

Hsiung, Ping-Chun. *Non-Governmental Organizations and Democracy in Taiwan.* Social Sciences and Humanities Research Council of Canada.

Hsiung, Ping-Chun. Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Hunter, Mark. *Child Politics in South Africa: Children, Geography and Social Mobility after Apartheid.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Iacovetta, Franca. *Edible Histories, Cultural Politics: Towards a Canadian Food History.* Social Sciences and Humanities Research Council of Canada – Occasional Grant.

Iacovetta, Franca. *Gatekeepers: Reshaping Immigrant Lives in Cold War Canada.* Canadian Historical Association's John A. Macdonald Prize for Best Book in Canadian History.

Iacovetta, Franca. *The International Institute of Metropolitan Toronto in North American Context, 1940s-1970s.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Inzlicht, Michael. *Coping with Stigma: The Neural, Physiological, and Behavioural Consequences of Prejudice.* Canada Foundation for Innovation – Leaders Opportunity Fund.

Inzlicht, Michael. *Stereotype Threat Spillover: How Stereotype and Social Identity Threat Impact Self-Control, Decision-Making, and Neurophysiology.* Social Sciences and Humanities Research Council of Canada.

Inzlicht, Michael. *Stereotype Threat Spillover: How Stereotype and Social Identity Threat Impact Self-Control, Decision-Making, and Neurophysiology.* Social Sciences and Humanities Research Council of Canada – Research Time Stipend.

Inzlicht, Michael. *The Inaccurate Self: How Being the Target of Discrimination Hurts Self-Knowledge.* Social Sciences and Humanities Research Council of Canada.

Inzlicht, Michael. *Uncomfortably Numb: How Self-Control Failure Dampens Emotions and Hurts Decision-Making.* Ontario's Early Research Award.

Jeffrey, Lisa. *Group Actions and Localization.* Natural Sciences and Engineering Research Council of Canada – Leadership Support Initiative.

Jeffrey, Lisa. *III-MPS.* Royal Society of Canada – Fellow.

Jeffrey, Lisa. *Symplectic Geometry and Moduli Spaces.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Joordens, Steve. *Excellence in Teaching.* Ontario – Leadership in Faculty Teaching Award.

Joordens, Steve. *Influences of Memory.* Natural Sciences and Engineering Research Council of Canada.

Kang, Yoonjung. *English Voiced Stops in Korean in the 1930s.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Kang, Yoonjung. *Tensification of English and Japanese Voiced Stops in Loanwords in Korean.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Kazal, Russell A. *Grass-Roots Pluralism: Los Angeles and the Origins of Multiculturalism, 1880-1975.* The Huntington Library – National Endowment for the Humanities Fellowship.

Kazal, Russell A. *The Lost World of Pennsylvania Pluralism: Immigrants, Local Intellectuals, and the Regional Roots of Multiculturalism, 1880-1970.* The Library Company of Philadelphia and the Historical Society of Pennsylvania – Visiting Research Fellowship.

Kazal, Russell A. *Visiting Lecturer.* Jackman Humanities Institute – New Programming Grant.

Kennedy, John M. *Fellowship.* Wissenschaftskolleg zu Berlin (Germany's Centre for Advanced Study, Berlin).

Kennedy, John M. *Leonardo's Rules of Thumb for Making Perspective Pictures: Optics and Vision.* Ministry of Education – TSTOP.

Kennedy, John M. *Perception and Perspective: Vision and Touch.* Natural Sciences and Engineering Research Council of Canada.

Kennedy, John M. *Perception's Version of Perspective.* Natural Sciences and Engineering Research Council of Canada.

Kennedy, John M. *Research Visitor.* Monash University.

Kennedy, John M. *Summer Students.* Natural Sciences and Engineering Research Council of Canada.

Kepe, Thembela. *Leveraging Support for Sustainable Development: Local People and the Politics of Land Use Planning in South Africa.* Social Sciences and Humanities Research Council of Canada.

Krashinsky, Harry. *How are Hockey Players and School Teachers the Same? The Effect of Randomized Co-Worker Assignment on Salaries in the NHL.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Krashinsky, Harry. *Labour Market Experiences of the Double Cohort.* Social Sciences and Humanities Research Council of Canada.

Krashinsky, Harry. *The Double Cohort and the Effect of Education on Earnings and Achievement.* Social Sciences and Humanities Research Council of Canada.

Kremer, Philip. *Truth and Paradox.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Kronzucker, Herbert J. *A Novel Transgenic Approach to Improving Nitrogen-Use Efficiency and Carbon Sequestration in Cereals.* Natural Sciences and Engineering Research Council of Canada.

Kronzucker, Herbert J. *Constitutive Overexpression of Nitric Oxide Synthetase and Glutamine Synthetase in Crop Plants.* Natural Sciences and Engineering Research Council of Canada.

Kronzucker, Herbert J. *Glutamine Synthetase Over-expression in Wheat.* European Union – SUSTAIN.

Kronzucker, Herbert J. *Manipulation of C and N Metabolism in Tropical Lowland Rice.* International Rice Research Institute – Research Grant.

Kronzucker, Herbert J. *Metabolic Bioengineering of Crop Plants.* Canada Research Chair.

Kronzucker, Herbert J. *Physiological Ecology of Terrestrial Plants.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Kronzucker, Herbert J. *Physiological Ecology of Terrestrial Plants.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Kwan, Will. *Canaries: The Bank and the Treasury.* Canada Council for the Arts, Visual Arts Office – Visual Arts Production Grant.

Kwan, Will. *Night School.* Exhibition Assistance Grant – Ontario Arts Council.

Kyeongheui, Kim. *Effects of Mortality Salience on Consumer Judgments and Choices.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Lambek, Michael. *Anthropology of Ethical Life.* Canada Research Chair.

Lambek, Michael. *Medicine, Culture, and Citizenship.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Lambek, Michael. *The Anthropology of Ordinary Ethics.* Social Sciences and Humanities Research Council of Canada – Conference Grant.

Landolt, Patricia. *Immigrants in the Global Economy: Precarious Employment and the Transnational Dimensions of Economic Incorporation.* Social Sciences and Humanities Research Council of Canada – Strategic Research Grant, Initiatives in the New Economy.

Landolt, Patricia. *Income Security, Race and Health: A CBR Participatory Research Project with the Blackcreek Community.* Wellesley Institute.

Landolt, Patricia. *Public Outreach Partnership on Immigration, Settlement and Precarious Employment.* Social Sciences and Humanities Research Council of Canada – Initiative on the New Economy – Public Outreach Grant.

Larson, Katherine R. & Lee, Sherry D. *Telling Stories Through Opera.* Jackman Humanities Institute – Jackman Program for the Arts.

Larson, Katherine R. *Crafters of Language: Representations of Women's Rhetorical Agency in Early Modern Drama.* Social Sciences and Humanities Research Council of Canada – Canada Graduate Doctoral Scholarship.

Larson, Katherine R. *Politic and Civil Words: The Textual Conversations of Early Modern Women, 1590–1660.* Philanthropic Educational Organization – Ann H. Fields Presidential Scholarship.

Larson, Katherine R. *Politic and Civil Words: The Textual Conversations of Early Modern Women, 1590-1660.* Jackman Humanities Institute – Chancellor Jackman Fellowship in the Humanities.

Lee, Sherry D. *A Florentine Tragedy, Or Woman as Mirror.* American Musicological Society – Philip Brett Award.

Lee, Sherry D. *Adorno on Opera: Reading Critical Theory and Modern Music Drama.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Lee, Sherry D. *Operatics: A Working Group on the Workings of Opera.* Jackman Humanities Institute – Working Group Grant.

Liddle, Kathleen. *How Culture Shapes Attitudes Toward Gays and Lesbians.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Lovejoy, Nathan R. *Conservation Genetics of Deepwater Sculpin in the Great Lakes.* Great Lakes Fishery Commission – Research Grant.

Lovejoy, Nathan R. *Evolution of Species and Signal Diversity in the Neotropical Electric Fish Gymnotus.* National Science Foundation Grant – Systematic Biology Program.

Lovejoy, Nathan R. *Molecular Systematics, Biogeography, and the Evolution of Fishes.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Lowman, Julian. *The Thermal Evolution of Terrestrial Planets.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

MacDonald, Kenneth I. *Environmental Degradation, Social Marginality, and the Institutional Dynamics of Vulnerability in the October 8, 2005, Pakistan Earthquake.* International Development Research Centre.

MacDonald, Kenneth I. *Markets: From the Bazaar to eBay.* Social Sciences and Humanities Research Council of Canada – Grants in Aid of Workshops and Conferences.

MacDonald, Kenneth I. *Memories of Tibet: Transnationalism and Transculturation in the Production of Collective Identity in Northern Pakistan.* Social Sciences and Humanities Research Council of Canada.

MacDonald, Kenneth I. *Mountain Cultures of Baltistan.* National Geographic Committee for Research and Exploration.

MacDonald, Kenneth I. *Sustaining Biological and Cultural Diversity in a Rapidly Changing World: Lessons for Global Policy.* The Christensen Fund, Werner Gren Foundation, National Science Foundation.

MacDonald, Kenneth I. *Sustaining Biological and Cultural Diversity in a Rapidly Changing World: Lessons for Global Policy.* The Christensen Fund.

Mars, Tanya. *Excellence in the Field.* Governor General's Award in Visual and Media Arts.

Mars, Tanya. *La Cité Internationale des Arts, Paris.* Canada Council for the Arts – International Residencies Program in Visual Arts.

Mason, Andrew C. *Complex Sensory Signals: Mechanism and Function.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Mason, Andrew C. *Evolution of Sensory Integration in Jumping Spiders.* National Institutes of Health – Ruth L. Kirchstein National Research Service Award.

Mason, Andrew C. *Vibration Communication in the Gryllotalpidae.* National Science Foundation.

Maurice, Alice M. *Figure, Frame and Narrative: A Panel Discussion with Laylah Ali.* Jackman Humanities Institute.

McCarthy, Julie. *Balancing the Roles of Student, Family Member and Paid Employee: An Investigation of Coping, Conflict, Facilitation, and Satisfaction.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

McCarthy, Julie. *Job Interview Anxiety: Exploration of a New Realm.* Social Sciences and Humanities Research Council of Canada.

McCarthy, Julie. *Public Policing in Canada: Police Officer Reactions to the Promotional Exam Process.* Wynne and Beryl Plumptre Research Award.

Milgram, Norton W. *Effect of Age on Visual Processing in the Beagle Dog.* Natural Sciences and Engineering Research Council of Canada.

Molloy, Michael S.O. *Probabilistic Graph Theory and Theoretical Computer Science.* Natural Sciences and Engineering Research Council of Canada – Individual Research Grant.

Mortensen, Lena M. *Intellectual Property Issues in Cultural Heritage: Theory, Practice, Policy, Ethics.* Social Sciences and Humanities Research Council of Canada – Major Collaborative Research Initiative.

Mullen, Ann L. *Access to Higher Education: Application and Admission to Top-Tier American Universities.* Social Sciences and Humanities Research Council of Canada.

Nash, Joanne. Canadian Common Wealth.

Nash, Joanne. *Molecular Mechanisms Underlying Motor Control in the Normal Striatum and in Parkinson's Disease.* Canada Foundation for Innovation – Leaders Opportunity Fund.

Nash, Joanne. *Molecular Mechanisms Underlying Motor Control in the Normal Striatum and in Parkinson's Disease.* Ontario Research Fund – Leaders Opportunity Fund.

Nash, Joanne. *Understanding Intra Organelle Signalling Mechanisms in Neurons.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Ndayiragije, Juvénal. *Ergativite et Microvariation.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Ndayiragije, Juvénal. *Syntactic Ergativity: A View from Bantu.* Social Sciences and Humanities Research Council of Canada – Institutional Grant.

Niemeier, Matthias. *The Cognitive and Neural Mechanisms of Perception and Attention for Optimal Sensorimotor Integration.* Canada Foundation for Innovation – New Opportunities.

Niemeier, Matthias. *The Cognitive and Neural Mechanisms of Perception and Attention for Optimal Sensorimotor Integration.* Ontario Innovation Trust – Matching Fund.

Niemeier, Matthias. *The Neural and Cognitive Mechanism of Action and Perception Underlying the Visual Exploration of Space.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Pancer, Richard N. *Outstanding Ph.D. Thesis in Applied Mathematics.* Canadian Applied and Industrial Mathematics Society – Cecil Graham Doctoral Dissertation Award.

Petit, Ted L. *Synaptic Structure and Plasticity.* Natural Sciences and Engineering Research Council of Canada.

Petitto, Laura-Ann. *Brain, Behaviour, Genes: New Knowledge from Innovative Studies of Language and Reading in Monolingual and Bilingual Children Leads to Optimal Pathways to Remediation.* Canada Foundation for Innovation.

Petitto, Laura-Ann. *Brain, Behaviour, Genes: New Knowledge from Innovation Studies In Monolingual and Bilingual Children Leads to Optimal Pathways to Remediation.* Ontario Research Fund – Research Infrastructure Funding.

Petitto, Laura-Ann. *Infants' Neural Basis for Language Using.* National Institutes of Health – R21 Grant.

Petitto, Laura-Ann. *Neuroimaging and Behavioral Studies of Bilingual Reading.* National Institutes of Health – R01 Grant.

Reid, Stephen G. *Central Control of Breathing in Lower Vertebrates: Episodic Breathing and Ventilatory Acclimatisation to Hypoxia.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Reid, Stephen G. *Digital Gas Mass Flow Controllers.* Natural Sciences and Engineering Research Council of Canada – Equipment Grant.

Riendeau, Pascal. *Enjeux du Roman de L'extrême Contemporain : Écritures, Engagements, Énonciations.* Social Sciences and Humanities Research Council of Canada – Aid to Research Workshops and Conferences in Canada.

Riendeau, Pascal. *Tours et Détours de L'éthique dans le Roman de L'extrême Contemporain.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

56

Riggs, Daniel. *Molecular Aspects of Plant Development.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Rothman, E. Natalie. *Support for Residential Research and Writing.* Newberry Library, Chicago – Mellon Postdoctoral Research Fellowship.

Rothman, E. Natalie. *The Dragoman Renaissance: Venetian Diplomatic Interpreters and the Reconstitution of Ottoman Otherness in the Early Modern Mediterranean.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Sawchuk, Larry A. *The Great Fever Epidemic – A Lesson from the Past.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Sawchuk, Larry A. *Tuberculosis and the Family in Ontario: 1900-1950.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Schillaci, Michael A. *A Bioarchaeological Study of Migration, Gene Flow, and Social Organization in the American Southwest.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Schmuckler, Mark. *Excellence in Teaching.* TVO – Best Lecturer Semi-Finalist.

Schmuckler, Mark. *Perception-Action Coupling in Context: Developmental Processes / Pitch Structures in Music Cognition.* Natural Sciences and Engineering Research Council of Canada.

Schroeder, Bianca. *The Petascale Data Storage Institute.* Scientific Discovery through Advanced Computing Grant.

Schroeder, Bianca. *Understanding and Coping with Failure at Scale.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Scott, Kristyn. *Mental Representations and Perceptions of Past Leaders: Implications for Female Leaders.* Social Sciences and Humanities Research Council of Canada – Standard Research Grant.

Selick, Paul. *Homotopy Theory.* Natural Sciences and Engineering Research Council of Canada – Discovery Grant.

Sev'er, Aysan. *Women's Health and Urban Life Journal.* Social Sciences and Humanities Research Council of Canada.

Simpson, Andre J. & Simpson, Myrna J. *Climate Controls on Soil Organic Carbon Composition and Potential Responses to Global Warming.* Canadian Foundation for Climate and Atmospheric Science.

Simpson, Andre J. *Assessing the Role of Soil Microbial Biomass in Global Carbon Cycling: Novel Application and Combination of Advanced NMR Spectroscopy and Stable Isotope Probing (SIP) on Isotopically Labelled Soil Micro-Organisms.* Science Foundation of Ireland.

Simpson, Andre J. *Compositions and Aspects of Humic Structures in Irish Soils.* Irish Environmental Protection Agency.

Simpson, Andre J. *Environmental Impact of Chronic Wasting Disease.* United States Department of Defence: National Prion Research Program.

Simpson, Andre J. *Novel Molecular Approaches to Assess Cumulative and Sub-Lethal Toxicity in the Environment.* Early Researcher Award (Ontario Government).

Simpson, Andre J. *Ship Time on Board the Coriolis II.* Natural Sciences and Engineering Research Council of Canada.

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Simpson, Myrna J. *"Green Crop Network".* Natural Sciences and Engineering Research Council of Canada – Research Networks.

Simpson, Myrna J. *Carbon and Nitrogen Analyzer for Aquatic and Terrestrial Biogeochemistry.* Natural Sciences and Engineering Research Council of Canada – Research Tools and Instruments.

Simpson, Myrna J. *Dedicated Nuclear Magnetic Resonance Probe for the Detection of Site-Specific Natural Isotopic Fractionation (SNIF).* Natural Sciences and Engineering Research Council of Canada – Research Tools and Instruments.

Simpson, Myrna J. *Improving the Fundamental Understanding of Soil Contamination Processes with Nuclear Magnetic Resonance (NMR) Spectroscopy.* Ontario Government – Premier's Research Excellence award.

Simpson, Myrna J. *Isolation and Characterization of Novel Environmental Compounds by Chromatography and Fraction Collection.* Natural Sciences and Engineering Research Council of Canada – Research Tools and Instruments.

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Wania, Frank. *Creation, Evaluation, and Application of an Integrated Environmental Fate and Human Food Chain Bioaccumulation Model for Polar and Non-Polar Organic Substances (IMPS).* European Chemical Industry Council.

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Wania, Frank. *Support for Graduate Research in Chemistry at UTSC.* Rohm & Haas.

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62

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64

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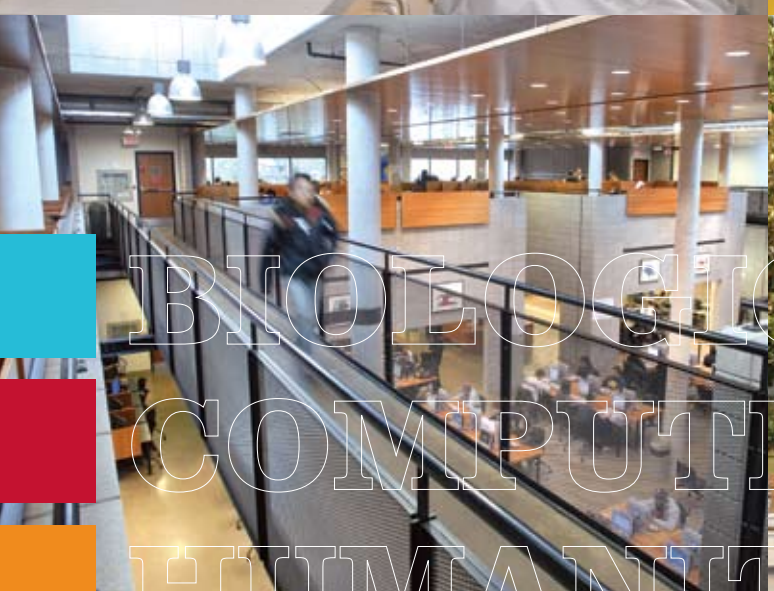

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