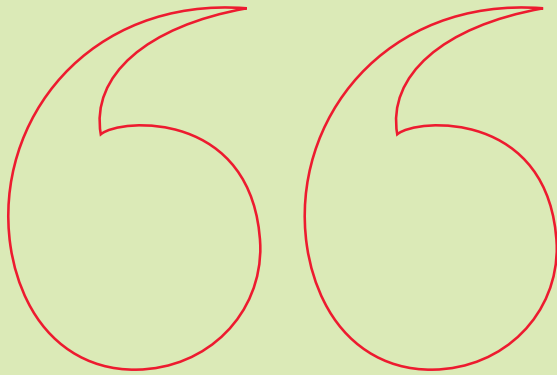
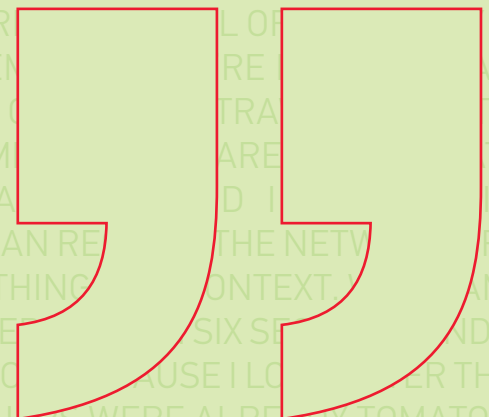




McGill



All education
is a continuous
dialogue—questions
and answers that
pursue every problem
on the horizon. | **William Orville Douglas**



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Principal's Report

2011/2012

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CONVERSATIONS

ON THE COVER: At any given moment, McGill University's campuses are a symphony of conversations. A student catches up with a professor in the hallway to clarify a tricky point from the day's lecture. A coach and her players plan strategy for the weekend's big game. A far-flung group of researchers meet via Skype to discuss surprising lab results. In the words of William Orville Douglas, early environmental advocate and the longest-serving U.S. Supreme Court justice, "All education is a continuous dialogue."



Message from the Principal

By all accounts, the March 28, 1901 meeting of the McGill Physical Society was a spirited affair. It was there that physics professor Ernest Rutherford went toe-to-toe with chemistry lecturer Frederick Soddy over a controversial new theory: The atom, far from being the indivisible building block of all matter, could itself be split into even smaller particles. Rutherford said yes. Soddy said no. Neither man was a shrinking violet; both enjoyed having the last word. The history books tell us it wasn't pretty. But when cooler heads later prevailed, these two brilliant adversaries decided to set up a research lab. Together.

This story, of course, has huge implications for the world of today: Rutherford and Soddy's collaboration not only proved Rutherford correct, but in doing so laid the groundwork for the atom-splitting miracles of the nuclear age. It's a story about the core essence of the material world, yet it's also a story about the core essence of McGill.

On the south wall of the Redpath Library, passersby can read John Milton's words extolling the virtue of "the quiet and still air of delightful studies." McGill is a space where one can engage in deep individual

reflection. This is a special thing, to be cherished. But the University is also, and has been from its inception, a place for freely engaging with others in meaningful dialogue. These conversations may be part of a structured lesson plan, or they may spring from a spontaneous encounter on the Arts Building steps. They may be boisterous, as was that debate in 1901. Or quiet. They may be exercises in logical precision; they may take wing buoyed by passion and heart. Whatever the form, engagement with other people's views and values is invaluable for developing how we think.



Fourth-year theology undergraduate HALEY DINEL tours campus with Principal and Vice-Chancellor HEATHER MUNROE-BLUM. As the Vice-President (University Affairs) of the Students' Society of McGill University, Dinel is a liaison between students and senior University administration.

Just as Rutherford and Soddy brought together chemistry and physics—an obvious pairing now, but unusual bedfellows a mere century ago—McGill continues to encourage and foster nonobvious interdisciplinary conversations. It is by breaking our boundaries of thought that we can create the synthesis of ideas that leads to progress.

Take, for example, recent developments in two fields that have been building momentum over the past ten years. Bioengineering is one of McGill's fastest growing research areas, and the study of how biological knowledge can be applied to living design—of structures and materials processes integral to the life sciences— took a leap forward with the creation of the Department of Bioengineering within the Faculty of Engineering. The second new addition to McGill, the Centre for Population Dynamics (a collaboration between Arts and Medicine), is transforming the static statistics of the past into dynamic models of what really drives health and well-being in individuals and societies.

This year also saw the creation of the BioFuelNet Canada research network, which will receive close to \$25-million from the federal Networks of Centres of Excellence program. Based in McGill's Faculty of Agricultural and Environmental Sciences, and led by Professor Don Smith, BioFuelNet connects plant scientists and combustion engineers and chemists—from McGill and around the world—to form an unparalleled knowledge hub that has the critical mass to create alternate energies that work.

BioFuelNet aims to develop the knowledge, products and processes needed so that Canadians will be using next-generation biofuels for 25 per cent of our fuel needs within 20 years. It's a lofty goal. It's also achievable—and it illustrates the necessity of strong research universities.

The federal government's priorities, as outlined in its Economic Action Plan 2012, are focused on advancing economic growth and job creation. But that kind of movement doesn't just happen. There are drivers behind the drivers: Canada's research universities and their researchers. Universities are the fertile ground in which bold, game-changing ideas can take root and grow. We see it in BioFuelNet. We see it with McGill's pioneering work in green chemistry, led by Professor Chao-Jun Li, and with ground-breaking advances in medical imaging analysis led by Professor Kaleem Siddiqi, both of whom have won major funding from the Natural Sciences and Engineering Research Council of Canada's CREATE program. We see it with Professor Nico Trocmé's extensive study of child protection services in Quebec, and Professor Susanne Lajoie's collaborations on developing technology-rich learning environments for students of all ages, two wide-reaching research partnerships that were recently awarded large grants by the Social Sciences and Humanities Research Council of Canada.

For a progress-minded society, strong research universities are where progress begins.

Over the past two years, I had the opportunity to contribute to a special committee, struck by the U.S. National Research Council to report and give recommendations to Congress on the state of America's research universities. I was the only non-American on this committee. Everything we reported about the relationship between research universities and the U.S.'s economic growth is even more significant in Canada.

More and more nations are recognizing the value of research universities. They're building their own institutions with impressive speed and major investment and they are competing with McGill, other Canadian universities and the great American universities for the world's best students and professors. There is no way to sugar-coat this: McGill performs well but it is significantly underfunded. There are universities in the American Top 15 that are similar to McGill in size but with dramatically higher revenue—and they're struggling financially. We've held our own until now, but maintaining our current position as a top of league institution is not a given. To compete in the global economy, Canada must have at least a few universities that consistently rank in contribution and reputation, with the very best in the world.

As I write this, significant new regulatory and reporting requirements are being layered on top of old ones. The resulting bureaucratic burden serves to restrict agility and to hamper our ability to fulfill our mission. As the OECD and others have noted, educational institutions do not flourish with unproductive regulatory barriers. These barriers must be eliminated. And, yes, the autonomy necessary for optimal productivity and quality comes with responsibility to be accountable. McGill respects society's investment by improving the quality, productivity, and innovation of our teaching, research and scholarship, along with improved cost efficiency and transparent accountability.

Universities are the fertile ground in which bold, game-changing ideas can take root and grow.

Conversations are not confined within McGill's walls, nor should they be.

If the coming years are to be characterized by a single word, it is “sustainable.” This refers as much to what we’re working on—from building the progressive hi-tech classrooms that will best engage bright minds, or the advanced fuels that will light tomorrow’s cities. Thirty-three percent of McGill’s downtown buildings predate the Second World War; these historical treasures, and other fading infrastructure, require major investment. At the same time, renovating these older buildings provides a unique opportunity for renewal. I applaud the efforts of our governments to help McGill and others upgrade our facilities. Kudos also to McGill’s outstanding Facilities Operations and Development team, for their continued efforts to create a McGill where we can all study and work in an energy-conscious and reduced-waste environment. By investing \$35-million in the restoration of historic Wilson Hall, the Quebec government showed its commitment to ensuring that

McGill’s nursing and social work students—some 1,000 strong, and more than 80 per cent from Quebec—begin their service to society with the best possible preparation. This year also saw the completion of a \$103-million

overhaul, funded by the federal Knowledge Infrastructure Program and the Quebec government, that transformed several buildings in terms of both work-flow and energy use.

Student-centred education is central to our mission. Research-intensive universities also have a mandate to educate the next generation of critical thinkers, knowledge-creators and global citizens. At McGill, this means making strides in student counselling, as evidenced by the creation of the Staff-Student Mentoring Program, which complements traditional academic advising by pairing students with dedicated academic and administration staff.

This year saw the addition of important new voices in the leadership of McGill. Dr. David Eidelman has a wealth of experience as a clinician, a scientist and the Chair of McGill’s Department of Medicine—all of which he brings to his new role as McGill’s Vice-Principal (Health Affairs) and Dean of Medicine. Also, Michael Di Grappa, who was recently recruited as Vice-Principal (Administration and Finance), led his team through an exciting year of infrastructure renewal, labour negotiations and the implementation of new cost-cutting procedures.

Of course, conversations are not confined within McGill’s walls, nor should they be. The socially innovative Quartier de l’innovation project, a McGill-École de technologie supérieure partnership to reimagine an under-utilized part of downtown Montreal as a mixed-use “living laboratory” of creativity and innovation, took another step closer to reality this year. This “big picture” initiative benefiting citizens, students, researchers and businesses received more than \$1-million combined from the federal, provincial and Montreal governments for preliminary studies. We are gaining a deeper appreciation of the myriad ways our students, staff and faculty engage with communities other than our own. It’s no secret that McGillians work hard to reach out to the larger community—academically, athletically and through volunteerism—and the vast extent of these efforts is a source of constant encouragement to me. There were many high profile achievements this past year, such as McGill students raising the most money for Rick Mercer’s anti-malaria Spread the Net campaign, or our Redmen hockey team capturing their first national championship in 135 years. There were also equally worthy, yet unsung, McGill stories, like the Toward Health program, which connects Faculty of Medicine students with at-risk Montreal teens to build a personal relationship with learning. Below the radar or on the front page, the McGill community time and again proves its commitment to bettering the world.

Whether I’m in Brazil, where this year a group of colleagues and I represented McGill in Canada’s largest higher education mission (led by Governor-General, and former McGill Principal, David Johnston), or China, I’m heartened to hear that McGill’s reputation has never been stronger. It is thanks to our community’s hard work and dedication to high achievement that McGill again earned its place in the top 28 of the 2011 Times Higher Education World University survey, and 17th in the 2011 QS World University Rankings.

We know that challenges lie ahead, and we are preparing for them. There is work underway and more to be done. And this work is laying the foundation on which McGill is building its future. It starts with something as fundamental as improving our communication thanks to a major redesign of our website. The coming year will see the launch of both a new Strategic Academic Plan and a new Strategic Research Plan designed to ensure that the University has the resources, quality and focus to lift McGill's unique areas of strength to even greater heights. This year will see the implementation of new initiatives resulting from the Principal's Task Force on Diversity, Excellence and Community Engagement. We will continue to ensure and enlarge accessibility for the best students in Quebec, across Canada, and the world, as we push for a funding system that offers autonomy and rewards quality and performance. At all times we will respect the fundamental value of academic freedom. As well, we respect the importance of free expression and peaceful assembly while never losing sight of the responsibilities that come with these great freedoms.

It is a gift to live in times of great change. Frederick Soddy and Ernest Rutherford came of age during a revolution in basic science, and by testing, and then championing, new ideas they set their shoulders against the frontier of ignorance and pushed it back a few yards. This is what a great university does. And, if we push hard enough, the frontier moves. This past year saw challenges worldwide and at McGill. This past year also saw learning and growth and continued progress and success. McGill is asserting its place. Together we are building the McGill that will address the challenges of tomorrow. Together we are positively shaping our communities today.

Heather Munroe-Blum

Principal and Vice-Chancellor

McGill University

We will continue to ensure and enlarge accessibility for the best students in Quebec, across Canada, and the world.



Our Neighbourhood



LAUREN POCHEREVA shares her harvest with PHIL BARKER. Pochereva is a post-grad fellow who is teaching urban gardening to elementary school children. Barker is a co-leader of the Quartier de l'innovation urban renewal project.

Some of the kids started out not knowing that lettuce is a leaf, while others were already experts from gardening with their Italian grandparents. | Lauren Pochereva



Meaningful engagement with society means building partnerships with communities across the province, the country or even an ocean. It's also about working with the people just down the street—one small garden, or an entire neighbourhood, at a time.

Lauren Pochereva has fond memories of peering through a microscope at plants that she helped grow while a child on the Hawaiian island of Oahu. So when the 25-year-old received the 2012 Pathy Family Foundation (PFF) Community Leadership Fellowship, she knew exactly what she wanted to do with it: give Montreal city kids a taste of farming.

Pochereva wanted to put her post-grad fellowship to work in Notre-Dame-de-Grâce (NDG), where she had volunteered while completing a Diploma in Environment and a BA in world religions at McGill. So Pochereva talked to Paquita Nanton, daycare coordinator of NDG's St. Monica School, and Peter Ford, the Director of Jeunesse Benny Summer Camp. Together, they helped some 90 grade-school children grow a veritable cornucopia of vegetables in 200 square metres of dirt. Not only did the kids learn about biodiversity and plant biology, they got to eat their bounty, too, with the extra going to the NDG Food Depot. "Some of the kids started out not knowing that lettuce is a leaf," Pochereva says, "while others were already experts from gardening with their Italian grandparents. But no matter their previous experience, they were all really engaged in watching their food grow."

In nearby Griffintown, the seeds have been planted for urban renewal on a very different scale. A co-initiative of McGill and the École de technologie supérieure (ÉTS), the Quartier de l'innovation aims to revitalize this part of southwest Montreal. The live-work neighbourhood will bring together knowledge-based industries with education, culture and the arts: a "living lab" where science and technology are publicly accessible. "It's an ecosystem to consolidate the things that support innovation, rather than just consolidate the activities themselves," says the Montreal Neurological Institute's interim director, Phil Barker, who led the initial internal QI planning committee. "We're talking about designing something that fosters technological innovation, but also innovation in social, cultural and urban development," Barker says, "and to do that well, we need broad consultation and partnerships."

The past year saw McGill's students and staff use their brains, brawn and spirit to make their home a better place:

- ▶ McGill Faculty of Law students, in partnership with the School of Social Work and the Faculty of Education, organized "Community Captured," a photography-based initiative that sought to challenge stereotypes. The team distributed 50 disposable cameras to Montrealers receiving social services and asked that they capture their notions of "community" on film. The project culminated in a photo exhibit on campus, with many of the photographers on site to discuss their work.



More than 270 student athletes collected seven large bins of non-perishable food items for the Sun Youth Community Centre. It was the McGill Varsity Council's most successful winter holiday food drive.

- ▶ CATHERINE SABISTON, director of McGill's Health Behaviour and Emotion Lab, partnered with CTV Montreal news anchor Mutsumi Takahashi to launch Lifetime, a TV segment that offers strategies and tips for weight loss and other health challenges.
- ▶ The McGill community raised \$409,500 to help thousands of Montrealers in need for its 2011 Centraide campaign.
- ▶ McGill partnered with the Lions Club to educate Montrealers about common eye diseases that progress without noticeable symptoms. Second-year ophthalmology resident ALICE ZHANG and fourth-year medical resident SHEILA XI HUANG helped organize the lectures and screening clinics.

Global Communities



ANTONIA ARNAERT (left) and NANCY HEATH don't think technology has to be cold and inhuman. The McGill professors are using hi-tech to connect patients and at-risk individuals—wherever they may be in the world—with the health care and information resources that they need.

People talk about the Internet as the Wild West, but Google has been very supportive and responsive in promoting back-and-forth communication. | Nancy Heath



Like many of us, Nancy Heath goes to Google practically every day. She didn't expect Google to come to her. But that's what happened in February 2011 after Heath and her colleague at the University of Guelph, Stephen Lewis, published their analysis of 100 YouTube videos in which people shared their cautionary tales about self-injury. The two million views these videos had racked up weren't necessarily a good thing, despite the best intentions of their creators. "The messages were trying to help others by saying 'Don't do what I did,' but the people watching the videos were already self-injurers looking for a community of other self-injurers," says Heath, a James McGill Professor in the Department of Educational and Counselling Psychology.

This concerned Abbi Tatton, Manager of Global Communications and Public Affairs for YouTube (owned by Google). She wrote to Heath and Lewis asking how YouTube could provide healthy video alternatives for self-injurers. "It was a great idea," says Heath. "The problem was, we realized there weren't any." So they created their own. A year in the making, Self-injury Outreach and Support (SiOS) is a global resource that provides recovery-focused information for people who self-injure, as well as teachers, health care providers and parents. Since SiOS launched in April 2012, it's received hits from 64 countries. Heath says it's just the beginning of what she hopes will be an ongoing consultation with YouTube to help at-risk viewers access useful information. "People talk about the Internet as the Wild West," says Heath, "but Google has been very supportive and responsive in promoting back-and-forth communication."

Antonia Arnaert is also exploring technology as a health care tool. The Associate Professor at McGill's Ingram School of Nursing has spent close to 20 years exploring ways to help patients with limited mobility—whether they're housebound in Belgium or living in a remote corner of Quebec—receive quality long-term health monitoring. She recently piloted a project for the Public Health Agency of Canada in which diabetes patients in five Quebec regions used smartphones to transmit their vital signs and lifestyle information to a nurse who monitored their health from afar. The long-term challenge in the creation of what Arnaert calls "u-health"—where "u" means ubiquitous—isn't so much about creating a smartphone app that monitors blood sugar levels, or how a wound is healing or EKG readings—it's yoking together all those apps to produce "a single holistic overview of the patient's condition." The easy part, explains Arnaert, is getting the patients to use the technologies. "The patients say they feel they get lots of attention from their nurses, even if they're separated by thousands of kilometres," says Arnaert. "We even had an 85 year-old patient who was so technologically advanced that she showed the nurse how to use the software!"

Global connections are essential for building prosperity in the 21st century, whether it's bridging the gap between patients and caregivers, or bringing together the world's brightest minds to tackle big picture problems:



Last March, McGill's Institute for the Study of International Development, led by Founding Director Professor PHILIP OXHORN, hosted an international conference on sustainable economic development in the mining industry. Participants included Chief TONY JAMES (above) of Guyana's Wapichan peoples.

- ▶ A record number of lottery corporations around the world joined the Faculty of Education's International Centre for Youth Gambling Problems and High-Risk Behaviors and the U.S.'s National Council on Problem Gambling in their annual campaign to highlight the risks of giving lottery tickets as holiday gifts to minors.
- ▶ The McGill World Platform for Health and Economic Convergence and INCLIN Trust International—an India-based, global network of biostatisticians, social scientists and health care professionals—co-hosted a major workshop in Delhi, bringing together researchers, policy makers and top executives from multinationals like PepsiCo and Medtronic, to discuss ways to curb hunger and improve nutrition and health around the world.

Undergraduate Learning & Research



Gone doesn't necessarily mean forgotten. Student research intern **JOSEPH HENRY** (right) is working with Professor **WILL STRAW** to reconstruct a lost part of crime tabloid history.

I would get these enthusiastic emails from him, and I'd reply with suggestions and different ideas to try out. | Will Straw



How do you tell the story of something that disappeared with nary a trace? That question fascinated both Joseph Henry (U3, Art History and German Studies) and Will Straw, Professor of Art History and Communication Studies and Director of the McGill Institute for the Study of Canada. “Joe had taken my Visual Culture of Crime class and we kept coming across the name Pagano Studio as a photo credit in true crime magazines,” says Straw. Whenever a tabloid such as *Inside Detective* needed a photographic reconstruction of a crime scene, be it a gritty alley or lush cornfield, they'd turn to the artists at Pagano. “They were like a movie studio that didn't make movies. All we knew was that in its day it was one of the largest commercial photography studios in the country. We wanted to find out more.”

Thanks to the Arts Undergraduate Research Awards (ARIA) program, they were able to do just that. Established in 2010, ARIA provides an undergraduate Arts student with a \$4,000 stipend to conduct summer research with a professor. Henry spent summer 2011 in New York City, where he scoured old popular magazines, newspaper articles, court records, social event announcements and modeling guides. He would check in with Straw once a week. “It was great,” says Straw. “I would get these enthusiastic emails from him, and I'd reply with suggestions and different ideas to try out.”

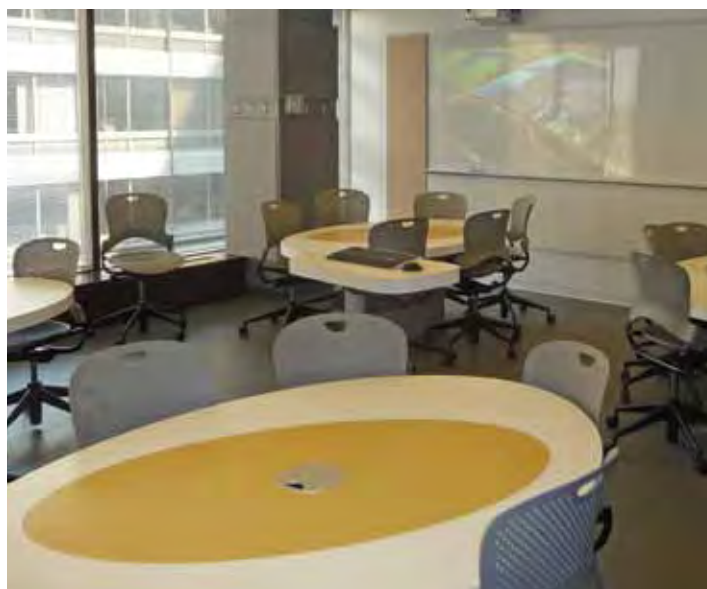
At the end of the summer, Henry handed Straw a fat binder of information about Pagano Studios. Straw plans to use Henry's wealth of primary research—“which I would never have had time to do myself”—to write a reconstructed history of what was a major player, not just in the tabloid trade, but in advertising and fashion—even becoming the first photo studio to have African-American models on full-time contract.

For his part, Joseph Henry has a summer of intense—and unusual—research experience under his belt. “It taught me a lot about the process of tracking down information outside of traditional academic sources—how to approach research archives, how to track leads from one source to another.” These skills have already served him well in school and in a curatorial position tracing the history of pieces of art for New York's Whitney Museum.

Both student and professor also value the ongoing relationship they developed through doing this ARIA project together. “He stops by to visit me on campus,” says Straw. “It's too bad he'll be graduating, in a way, because I'd hire him again in a heartbeat.”

The ARIA program is only one of the ways McGill is strengthening the links between undergraduate teaching, learning and research. Here are some highlights:

- ▶ A Joint Board-Senate meeting in November 2011 addressed the theme of the role of research in undergraduate education. The goal of the meeting was to highlight how undergraduate research and scholarship can enhance the undergraduate student experience.



The Teaching and Learning Spaces Working Group undertook 206 projects in 2011, improving classrooms by adding flexible collaborative learning and teaching tools like writeable walls, moveable podiums, new furniture and AV installations.

- ▶ The Teaching Snapshots website, launched in 2010, continues to grow, now profiling 39 McGill instructors as they share their perspectives on best practices in teaching and learning with the McGill community and the community at large.
- ▶ McGill's International Education increased the exchange opportunities at popular destination schools, allowing more students to get their first choice for an exchange. Of McGill's 142 bilateral exchange partnerships, 12 were developed or expanded in 2011-12, 19 expired agreements were renewed and 25 are currently in the process of being renewed.
- ▶ 2012 saw the launch of McGill's revamped learning management system, myCourses, designed to help instructors provide course materials online, engage with students and provide opportunities for them to interact with one another. The new tools enable everything from sharing files with students to evaluating their progress.

Undergraduate Life



For international student JINGJUN YU, the Staff-Student Mentoring Program, founded by Professor DAVID HARPP, has helped smooth her transition into Montreal life.

It's someone who has your back, as the phrase goes. | David Harpp



When Jingjun Yu arrived in Montreal from China, she could count her entire Canadian support network on two fingers. When David Harpp started his university education, he didn't, by his own admission, "know beans when the bag was open." Something as simple as a friendly ear can make all the difference in smoothing the transitions of those early undergraduate years.

Two things persuaded Jingjun Yu to leave her home in Jiaying, a city of more than 4 million people near Shanghai: McGill's reputation in the field of health-related studies, and Montreal's reputation as an exciting, multicultural city. She knew it was the right move, but settling into a new country isn't always easy. So, when a classmate mentioned that the Office of the Dean of Students was piloting a Staff-Student Mentoring Program, Yu jumped aboard. Her mentor turned out to be the program's founder, David Harpp.

Harpp came up with the idea because he recognized himself in many of his undergrad students. He initially saw the program as pairing students with professors, but has been surprised by the interest of non-academic McGill staff, who currently account for 61 of the 81 mentors. Harpp himself has six mentees, including Jingjun Yu, and stresses that just a little bit of time can make a big difference. A few times a year, Harpp and Yu get together to talk. Not about specific course work—she's a Nutritional Science student at the Macdonald campus, he's a Chemistry professor downtown, an intentional mismatch to encourage wider interactions—but about little things. Some days, Yu asks for a few tips to fine-tune her English skills. Other days, she has questions about Montreal. Yu says it all adds up. "It's not that we talk for all that long," she says, "but it really makes a difference."

"I think of it as discovering you've got an aunt or an uncle that you didn't know you had in Montreal," says Harpp. "It's someone who has your back, as the phrase goes. I get a lot out of it, too: These are smart, savvy kids."

The Staff-Student Mentoring Program is just one of the ways that McGill is working to more actively engage with our students:

- ▶ In 2011, McGill's new Off-Campus Fellow Program worked to give students living off-campus the same sense of community enjoyed by students living in Residences. Participants enjoyed sessions focused on exploring Montreal, getting through the first week at McGill and engaging with their new communities.
- ▶ McGill's newest residence, La Citadelle, is welcoming 280 students in the fall of 2012.
- ▶ Buoyed by early success, the In-Residence Academic Advising pilot program will continue through 2012, with the goal of instituting a permanent program in the near future.



In an effort to maintain open lines of communication between members of the McGill community, the Office of the Deputy Provost, Student Services and student government bodies co-hosted CONSULTATION FAIRS in October 2011 and January 2012. Bringing together students, faculty, administration and staff, each session provided a forum to exchange thoughts and ideas on topics like campus safety, food services and proactive consultation methods.

- ▶ McGill and the Lester B. Pearson School Board have partnered to create opportunities for students from underrepresented groups to engage with McGill students with the aim to inspire them to pursue studies at the University. In turn, the program allows our participating students to engage in enriching community-based learning.



UNDERGRADUATE ACCOMPLISHMENTS

- ▶ Economics undergraduate JOE McGRADE was named top public speaker at the annual World Universities Debating Championships held in Manila, Philippines. McGrade and his debating partner EMMA O'ROURKE-FRIEL, a McGill history undergrad, were ranked as the top Canadian team at the event.



- ▶ KAITLYN SHANNON (above), an International Development Studies and Political Science student, was a winner of the 2012 EU-Canada Young Journalist Award. The award recognizes outstanding journalistic potential among Canadian students.
- ▶ McGill's Faculty of Law continues its streak of sending students in large numbers to clerk at the Supreme Court of Canada. MALCOLM LAVOIE, ILANA LUDWIN, LAURA SCHEIM, KATIE WEBBER and GUILLAUME LAGANIÈRE all earned clerkships for 2013.
- ▶ Chemical Engineering student OMER DOR was named one of The Next 36, a national program initiated by McGill alumnus REZA SATCHU (BA'91) to help launch the careers of Canada's most promising and innovative undergraduates and the next generation of entrepreneurial leaders.

- ▶ Schulich violinist BÉNÉDICTE LAUZIÈRE won the inaugural Michael Measures Prize. The \$15,000 award, co-sponsored by the Canada Council for the Arts and the National Youth Orchestra of Canada, recognizes promising young Canadian performers in classical music.
- ▶ SARAH ARCHIBALD, Faculty of Agricultural and Environmental Sciences, won the Green Student Champion Award at the inaugural National Association of College & University Food Services Sustainability Awards. Archibald works with McGill Food and Dining Services to integrate sustainable practices—including buying produce and eggs from the Macdonald Campus Farm—into dining hall operations.



- ▶ MIA MORISSET (above), a third-year undergraduate at the Desautels Faculty of Management, has been named a recipient of an HSBC Women in Business Leadership Award, a new \$20,000 Desautels scholarship designed to encourage emerging female Canadian business leaders.
- ▶ McGill Medicine student ALEXANDRE ALLARD and his research partner DANNY LUONG, from Concordia University, were named "Personnalités de l'avenir" at the Gala Excellence *La Presse*/Radio Canada for their research into the biodegradation of polystyrene. The pair isolated three bacteria that are capable of breaking down 69 per cent of Styrofoam within two weeks.



- ▶ PASCAL GENEST-RICHARD, Bioresource Engineering, and ALEX PRITZ, McGill School of Environment, won the inaugural 3M National Student Fellowships. The national awards, co-sponsored by 3M Canada and the Society for Teaching and Learning in Higher Education (STLHE), honour full-time university students who have demonstrated qualities of outstanding leadership.



- ▶ Violinist ISAAC CHALK (above) won the Schulich School of Music's 2011-12 Golden Violin Award. Chalk is the sixth winner of Canada's largest privately funded student music prize, established by businessman and philanthropist Seymour Schulich in 2006.
- ▶ Desautels BCom student and Canadian Olympian JENNIFER HEIL received the 2011 Bobbie Rosenfeld Award, given to The Canadian Press female athlete of the year.

McGill students won four FORCES AVENIR Awards, which "recognize, honour and promote the commitment of young people" in socially conscious, community-building endeavours:



- ▶ Law student SIMONE SAMUELS (above) won the Undergraduate Personality Award for her "Girls in Transition" program mentoring black Toronto teens and her volunteer work with various groups that promote the involvement of women in politics.
- ▶ The Mutual Aid, Peace & Justice Award went to three sisters, MARIA (BEng'04), AMENA and ZAREEN ALI (Desautels undergraduate), for their organization called the Abhilasha Project that provides underprivileged children worldwide with educational opportunities.
- ▶ Medical student JUSTIN TAN won the Science and Technology Award for his virtual stroke recovery glove that helps rehabilitate patients.
- ▶ The joint McGill University and Université de Montreal project called FIERES ET EN FORME (F&F) won the Health Award for its use of a series of innovative workshops to promote healthy body image for teenagers.

Athletics



McGill's most decorated student swimmer, STEVEN BIELBY (right), offers some inspirational words to coach PETER CARPENTER.

A lot of the things that I ask the swimmers to do are things that any sane person would turn their nose up at. | Peter Carpenter



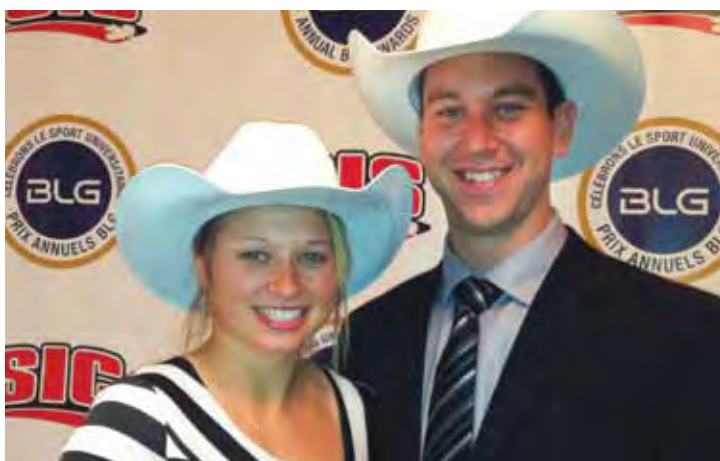
Steven Bielby is no slacker. He graduated from the Department of Electrical Engineering with an impressive 3.9 GPA in the spring, did a summer internship with the ABB Group in Mannheim, Germany, and dived into a master's degree this fall. The 23-year-old is competitive in athletics as well as academics, having earned 11 Canadian Interuniversity Sport (CIS) medals, six of them gold, to make him McGill's most decorated swimmer. No, Steven's not a slacker. He's just not super keen on doing 10 sets of race-pace 100-metre sprints. "The best adjectives to describe them," says Bielby, the good-natured native of Pointe Claire, Quebec, "would be brutal and intense."

That's where Peter Carpenter, head coach of McGill's swim team since 2009, steps in. "A lot of the things that I ask the swimmers to do are things that any sane person would turn their nose up at," admits Carpenter. "Waking up at 5 o'clock on a -30 degree morning? Eight two-hour water workouts a week? Plus two 90-minute dry land workouts? The workload is huge—plus the schoolwork. But as an elite athlete, you have to make that choice."

For Carpenter, one of the joys of coaching is learning how to talk to each athlete as an individual. What may encourage one to find that extra gear may flop for another. "The one thing athletes at this level all have in common is that they *know* what they need to do to finish that 400-metre individual medley in Olympic trials—so I'm really just reminding them."

It's those reminders that help Steven push through the dreaded 100-metre sprint sets. Well, that plus the friendly rivalry among teammates. "We're all in the sport because we like to race," he says, "and we don't like to lose."

Competitive spirit was in overdrive during the 2011-12 season. The year saw 18 out of 28 varsity teams compete in national championships, a new single-season school record. It also saw its two McGill Athletes of the Year, hockey players ANN-SOPHIE BETTEZ and MARC-ANDRÉ DORION (below), sweep the prestigious CIS athlete of the year prizes—the first time both awards went to students at the same university.



Other highlights from this inspiring season include:

- ▶ In their 136th season, the Redmen hockey team won their first-ever CIS national title with a thrilling 4-3 overtime victory over Western.
- ▶ League champions included women's synchro, who earned their eighth consecutive title in the Canadian University Synchro Swim League, and men's rugby, who hoisted their sixth consecutive RSEQ provincial banner. Men's and women's hockey, women's basketball, women's cross-country running and women's swimming also brought home a league banner.
- ▶ Swimmers STEVEN BIELBY (bronze, 200m and 400m individual medley) and MARC-ANDRÉ BENOIT (bronze, 100m freestyle) claimed CIS medals along with the track team, which merited bronze medals in both the 1000m (CHARLENE PUEL) and 4x800m relay (PUEL, AIMEE CASTRO, SARAH MCCUAIG and ALEXANDRA MORIN-BOUCHER). The Martlets volleyball team claimed their first-ever CIS medal, winning the bronze.
- ▶ The men's lacrosse team won the CUFLA East Conference title.
- ▶ 164 individuals were honoured in the fall for making the 2011 Principal's Student-athlete Honour Roll, including 86 who earned CIS Academic All-Canadian status.

LONDON 2012 OLYMPICS & PARALYMPICS

Seven athletes from the McGill community participated in the London 2012 Summer Olympic and Paralympic Games:

- ▶ Swimmer VALÉRIE GRAND'MAISON (current history and psychology student) who won a gold medal, and set a world record, in the women's 200-metre individual medley at the 2012 London Paralympic Games. She also won two silver medals, in the S13 50- and 100-metre freestyle.
- ▶ Former Redmen rowers DOUG VANDOR (BSc'98; MSc'02) and DEREK O'FARRELL (BSc'07)
- ▶ Former Martlet swimmer VICTORIA POON (BSc'10)
- ▶ Former Martlet volleyball star MARIE-ANDRÉE LESSARD (BCom'01), competing in beach volleyball
- ▶ Wrestler MARTINE DUGRENIER (BED'08)
- ▶ Synchronized swimmer JO-ANNIE FORTIN (current psychology student)

The Graduate and Postdoctoral Student Experience



For entomology PhD student and avid science blogger CRYSTAL ERNST, community engagement—such as introducing Teaching and Learning Services’ DAVID SYNCOX to the Indian walking stick insect—is an important part of her education.

I blog because of the dialogue and idea sharing. | Crystal Ernst



When Crystal Ernst wanted to lock down a definition for “micro-arthropod,” a slippery term that could refer to several types of insects, she turned to the blogosphere. Crystal is a third-year PhD candidate in the Department of Natural Resource Sciences, where she’s studying the ecology of ground insects in Arctic Canada. In addition to being one of 21 “Grad Life” bloggers for Graduate and Postdoctoral Studies, Crystal writes about her research on her own blog (“The Bug Geek”) and contributes to other entomology sites.

One day she might pose a query relating to her research. Or post photos of pseudoscorpions collected during fieldwork along the remote Dempster Highway. Or share a cheeky graph documenting the ups and downs of her paper-writing process. “Sure, it’s a platform for talking about what I’m interested in,” Crystal says, “but it’s definitely a two-way process. I blog because of the dialogue and idea sharing.” She’s had readers from around the world forward relevant journal articles, relate their own experiences, and just write to say how refreshing it is to know that someone else shares their academic struggles. “There’s an idea that grad students should just sit at lab benches and churn out papers. But I really think that blogging—and other outreach activities—enhance our own skill sets as well as provide benefits to audiences, especially outside academic communities.” In just two years, Grad Life has grown to become the most visited McGill blog. Its 21 talented student contributors write on topics ranging from research progress to time management, to balancing study with a healthy lifestyle.

Crystal isn’t alone in wanting to develop her talents. With only 30 to 40 per cent of new Canadian PhDs pursuing university careers, the demand for enhanced skills is so huge that McGill has responded in all-caps: SKILLSETS is a joint initiative of Teaching and Learning Services and Graduate and Postdoctoral Studies that prepares grads for success in any sector. “Students now need different types of information to move forward in their careers because they’re often choosing non-academic pathways,” explains David Syncox, Graduate Education Officer in Teaching and Learning Services and SKILLSETS point-man. “They recognize that they need new skills, and they want to learn them.”

Syncox got that message loud and clear when med students May Shawi and Rabia Khan approached him about organizing a one-off workshop for students looking to supplement their scientific knowledge with a little business savvy. SKILLSETS has grown from there. Last year, more than 5,000 grad students and postdocs attended 235 presentations and workshops. Its success was also acknowledged as it was awarded the Canadian Association of Graduate Studies (CAGS)/Educational Testing Service (ETS) Award for excellence and innovation in 2012. Today’s grad students have a lot of questions—from what reviewers look for in a fellowship application to how to manage your online presence—and SKILLSETS is helping to answer them.

But some questions are simply too tough: Crystal never did get a ruling on what constitutes a micro-arthropod. “But it generated some really good discussion about the difficulties of ecological terminology!”



Leadership Training Facilitator JOAN BUTTERWORTH leads a workshop called *Improvisation: Engaging Small and Large Groups* at the bi-annual Learning to Teach Day.

Other highlights that underscore McGill’s commitment to ensure its graduate student experience remains world-class include:

- ▶ Three Minutes to Change the World, a new Graduate and Postdoctoral Studies initiative debuted in March 2012, gave ten Master’s and PhD students the chance to present a summary of their current research and its implications to an audience of colleagues, professors, community members and an international following via live webcast—in only three minutes each.
- ▶ Last year, McGill created expanded offerings in training for graduate supervisors and is adding a suite of workshops to help faculty members improve their teaching and mentoring skills. In addition, work has begun on a web-based hub with comprehensive tools, resources and training modules for educators.
- ▶ The McGill Writing Centre announced new initiatives to improve scholarly writing for all thesis graduate students and postdoctoral fellows. The MWC will offer activities designed to enhance scholarly writing, including instruction in writing strategies and techniques, self-editing processes and the development of peer-review groups and dissertation “boot camps.”



GRADUATE STUDENT ACCOMPLISHMENTS

- ▶ AURÉLIE COBAT, a postdoctoral fellow at the Centre for the Study of Host Resistance, received the high-profile Le Monde Award for University Research in recognition of her doctoral thesis on the human genetics of tuberculosis.
- ▶ A research group led by A. CLAUDIO CUELLO of McGill's Faculty of Medicine, Dept. of Pharmacology and Therapeutics, along with SIMON ALLARD, the study's lead author and a postdoctoral fellow at McGill, has uncovered a critical process in understanding the degeneration of brain cells sensitive to Alzheimer's disease (AD). The study, published in the February issue of the *Journal of Neuroscience*, points to possible new AD therapies.
- ▶ PhD students DAVID MAILLET (Neuroscience), KATHERINE LABBÉ (Microbiology and Immunology), MOHAMMAD QASAIMAH (Biomedical Engineering) and SARAH ASSADIAN (Biochemistry at the Rosalind and Morris Goodman Cancer Research Centre), along with Master's student CHRISTIAN McINTIRE (Biochemistry), each won the Étudiants-Chercheurs Étoiles award, a monthly competition spearheaded by the Fonds de recherche du Québec to recognize the exceptional research contributions of university students, postdoctoral fellows and members of professional bodies enrolled in advanced research programs.
- ▶ "Saudade," created by MSc Pharmacology student YASMINE GHORAYEB, was selected for the Short Film Corner of the 2012 Cannes Festival. The film explores the emotional turmoil of cancer patients.
- ▶ FOURTEEN PRESTIGIOUS 2012 VANIER CANADA GRADUATE SCHOLARSHIPS were awarded to scholars who will be pursuing their doctoral studies at McGill. The Vanier program, run by the Government of Canada, is designed to strengthen Canada's ability to attract and retain the world's top-tier doctoral students from both at home and abroad. This year's recipients are:
 - ▶ JAMES FALCONER (Sociology); KATHARINE E. GLOVER (Law); JESSICA A. HOLMES (Music); MONA C. LUXION (Urban Planning); JASON D.K. NOBLE (Music); ANNE M. RITZEMA (Education); CARLOS O. RUEDA HEREDIA (Management); JONATHAN BERKEN (Neuroscience); PHILIP DICKINSON (Neuroscience); MAXIME ROBERT (Neuroscience); NATHANIEL ROBICHAUD (Biochemistry); JEFFREY WIESKOPF (Neuroscience); JENNA WONG (Epidemiology, Biostatistics and Occupational Health); GRANT COX (Earth and Planetary Sciences)
- ▶ NINE 2011 BANTING FELLOWSHIPS were awarded to elite post-doctoral researchers from McGill—more than any other institution in the country—reinforcing McGill's standing as a leader in postdoctoral research. The fellowships, funded through the Canadian Institutes of Health Research, the Natural Sciences and Engineering Research Council, and the Social Sciences and Humanities Research Council, were awarded to:



- ▶ Two McGill teams of School of Architecture graduate students shared first prize in the 17th Canadian Centre for Architecture Inter-university Charrette. The winning teams were *Hydro cosm* (LANCE MOORE, ALEXANDRE HAMEL and MAXIME LECLERC) and *Down with the Linear Functional* (above) (GABRIELLE POIRIER, GABRIELLE MARCOUX, PHILIPPE LAROCQUE and MARC-ANTOINE CHARTIER-PRIMEAU).

- ▶ AURÉLIE COBAT (right) (Medicine); CORY HARRIS (Dietetics and Human Nutrition); JIM GEACH (Physics); MARION VAN HORN (Neurology and Neurosurgery); JESSICA COON (Linguistics); JEAN-BAPTISTE JEANGÈNE-VILMER (Law); ARMEL BRICE ADANHOUNME (Law); MELODEE MOGRASS (MUHC); MARK LEWIS SHEPHEARD (Law)





- ▶ KİYOKO GOTANDA, PhD candidate in Biology, received the prestigious Senior Women Academic Administrators of Canada's 2012 Graduate Student Award of Merit for her outstanding leadership in the university community, while maintaining exemplary academic records.
- ▶ MARTIN PICARD, a doctoral student in the Faculty of Education's Dept. of Kinesiology and Physical Education, won the Association francophone pour le savoir's Desjardins Award for his research on aging-related muscle loss. Also honoured at the ACFAS gala were graduate students GUNDULA MIN-OO (Biochemistry), ALLISON C. KELLY (Psychology) and STEVEN BENNETT (Physics) for their doctoral theses and SYLVANNE DANIELS (Microbiology and Immunology) for an article on cell response to HIV.
- ▶ Schulich School of Music PhD student JENS KORNDORFER won the Franz Liszt Award for best interpretation at the Canadian International Organ Competition and placed second overall.
- ▶ GORDON BINTNER, an Opera and Voice Master's student at the Schulich School of Music, sang his way to the top prize at the 72nd edition of the OSM Standard Life competition, earning him a \$10,000 scholarship.

- ▶ Faculty of Law Master's student and civil litigation lawyer with the federal Department of Justice TAMARA THERMITUS (right) was named Black History Month Laureate by the Quebec organizers of the annual event.



- ▶ The Canadian Association for Dental Research awarded Dentistry Postdoctoral Fellow VAHID RAVAGHI (above) first place in its Student Research Awards for his project on oral health inequalities in Canada.
- ▶ Desautels Faculty of Management PhD student RUSSELL SEIDLE won the Research Award at the 2011 Administrative Sciences Association of Canada conference. Seidle also received the Outstanding Theoretical Paper Award at the 2011 Eastern Academy of Management meeting.
- ▶ Faculty of Arts PhD candidates CHRISTINA SMYLITOPoulos (Art History and Communication Studies) and KATAYOUN BAGHAI (Sociology) each won 2011 Arts Insights Dissertation Awards.

Research



DON SMITH (left) grows plants, JEFFREY BERGTHORSON designs engines that can burn them. The McGill professors are part of BioFuelNet Canada, a McGill-based cross-Canada research network devoted to finding sustainable alternative fuels.

The network brings me together with people in my field from across the country. | Jeffrey Bergthorson



Don Smith says that six years ago, Jeffrey Bergthorson was “simply someone I would not have collaborated with.” Now they’re working together on an aggressively forward-thinking research project: to reimagine the future of Canada’s engines.

Based at McGill’s Macdonald campus on Montreal’s West Island, Smith is a plant science professor and past director of the Green Crop Network. A lot of his research focuses on creating crops that emit less, and trap more, greenhouse gases. Bergthorson is an Assistant Professor in the Department of Mechanical Engineering on the downtown campus. Bergthorson did post-doc work on high-speed supersonic combustion, but by the time he joined McGill in 2006 he was thinking more and more about alternative fuels. His dean thought it might be a good idea to talk to Smith.

Today Smith is the Scientific Director and CEO of the new McGill-hosted BioFuelNet Canada network. As the recipient of almost \$25-million from the federal government, BioFuelNet is a cross-Canada super-team of academics and industrial partners that’s working fast to wean Canada off oil. They’re breeding inedible, low-impact crops, figuring out how to convert those crops (and even waste products from agriculture, forestry and your dinner plate) into fuels, and designing efficient engines to burn them. It all adds up to a lofty goal: To make biofuel as much as a quarter of the transportation fuel used in Canadian engines by 2032.

“The network brings me together with people in my field from across the country,” says Bergthorson, who is leading the BioFuelNet Utilization Theme, “and those links between researchers will increase how fast we can prove these technologies are technically and scientifically possible—and to see them come online.”

But there’s another advantage to wide-ranging collaboration. “Knowing people like Don gives me a perspective on the important broader issues we need to take into account. When I talk to people in the aviation community, certainly my expertise in combustion is important. But I’m also expected to be well-informed about the socio-economic issues around biofuels, and you just can’t build that kind of expert perspective without interacting with a wide range of people.”

Innovation rarely happens in isolation. Collaboration, whether between two researchers or on the large scale of BioFuelNet, is the key to answering big questions. McGill’s work to build and support such collaboration during the past year included:

- ▶ McGill and Freie Universität Berlin signed an agreement to enhance their research collaborations through the exchange of faculty, staff and students, as well as joint research activities and publications. ROSE GOLDSTEIN, McGill’s Vice-Principal (Research and International Relations), signed the agreement while part of a delegation marking the 40th anniversary of the Germany Canada Agreement on Cooperation in Science and Technology.



While visiting Brazil as part of an Association of Universities and Colleges of Canada mission, Principal HEATHER MUNROE-BLUM signed research partnership agreements with four universities: the Universidade de São Paulo, the Pontificia Universidade Católica de Paraná, Universidade Estadual de Campinas and the Universidade Estadual Paulista Júlio de Mesquita Filho. The agreements build on McGill’s longstanding priority research collaborations with Brazilian institutions.

- ▶ The Honourable Christian Paradis, Minister of Industry and Minister of State (Agriculture), announced that the federal Agricultural Greenhouse Gases Program will give nearly \$2-million to McGill researchers for the development of ways to reduce the greenhouse gas emissions associated with irrigation and drainage systems.
- ▶ The Natural Sciences and Engineering Research Council of Canada’s (NSERC) CREATE program helps science and engineering graduate students add job skills to their academic achievements. CREATE recently awarded funding for six years to McGill projects in two fields: green chemistry, led by chemistry Professor CHAO-JUN LI, and medical image analysis, led by Professor KALEEM SIDDIQI, School of Computer Science.



RESEARCH HIGHLIGHTS

- ▶ Physics professors BRIGITTE VACHON (right), STEVEN ROBERTSON, ANDREAS WARBURTON and FRANÇOIS CORRIVEAU are part of the ATLAS particle physics experiment at the Large Hadron Collider at CERN in Geneva, Switzerland and contributors to the July 2012 sighting of what could be the elusive Higgs boson.



- ▶ EHAB ABOUHEIF (Biology) and his team found that an entire genus of ants has a hidden ability to make “supersoldiers,” larger-than-average soldier ants that defend the nest against invaders. The finding represents a significant advance in our understanding of evolutionary processes.
- ▶ GARY BROUHARD (Biology) and SUSANNE BECHSTEDT, a postdoctoral fellow, discovered the cause of an inherited form of epilepsy that primarily affects females and arises from mutations on a gene located on the X chromosome. Using a highly advanced microscope, the pair discovered how these mutations cause a malformation of the human brain which gives rise to seizures and other cognitive impairments.
- ▶ A research team led by KRISTEN COPPIN, a postdoctoral fellow in astrophysics, used the Herschel Space Observatory to discover a giant, galaxy-packed filament ablaze with billions of new stars. The filament is the first structure of its kind spied in a critical era of cosmic buildup when colossal collections of galaxies called superclusters began to take shape.
- ▶ HANS LARSSON (Redpath Museum) and University of São Paulo researchers identified *Pissarrachampsia sera*, a new species of 70-million-year-old crocodile with very large teeth and a dog-shaped head.
- ▶ Thanks to Phylo, the web-based game developed by JÉRÔME WALDISPUHL and collaborator MATHIEU BLANCHETTE (both of the School of Computer Science), thousands of gamers have helped advance understanding of the genetic basis of diseases such as diabetes and cancer over the past year. Phylo lets players contribute to research by arranging multiple sequences of coloured blocks that represent human DNA. Since its launch in 2010, the researchers have received more than 350,000 solutions to alignment sequence problems.
- ▶ July saw the creation of McGill’s newest centre, the Centre on Population Dynamics. Led by SHELLEY CLARKE (Sociology), the CPD will bring together professors, postdoctoral fellows and graduate students from the fields of sociology, economics and epidemiology. Their research will focus on critical issues in the area of population dynamics relating to aging, migration, family structures, health and employment.

- ▶ Four of the top 10 scientific breakthroughs of 2011 selected by *Québec Science* magazine were achieved by McGill-led teams. The discoveries were:

- ▶ ALFONSO MUCCI (Earth and Planetary Sciences) revealed the vulnerability of St. Lawrence Estuary and Gulf waters by evaluating the acidification levels of the bottom waters from the 1930s to today.
- ▶ VASSILIOS PAPAPOPOULOS (Medicine; RI MUHC) developed a blood test that could soon be used to diagnose Alzheimer’s disease.
- ▶ LAURA STONE (Dentistry; Alan Edwards Centre for Research on Pain) discovered that if chronic pain is eliminated, the associated cognitive impairment can be reversed.
- ▶ PAUL MARTINEAU and EDWARD HARVEY (Medicine and MUHC), in collaboration with Louis-Philippe Lefebvre of the National Research Council of Canada, patented a screw made of titanium foam that could help broken bones heal faster.
- ▶ FALEH TAMIMI (Dentistry) and colleagues discovered that the drugs commonly used to treat memory loss in Alzheimer’s patients can make bones stronger. The findings may advance research into the idea that bone strength is controlled centrally within the brain.
- ▶ A measurement tool developed by GEORGE HALLER (Mechanical Engineering) and a colleague from the University of Miami uses precise mathematical methods to help scientists accurately predict the spread of oil spills and volcanic ash.
- ▶ A team led by DAVID JUNCKER (Biomedical Engineering) has developed a new microfluidics-based microarray that could radically change how and when breast cancer is diagnosed. The team hopes to develop a simple blood test that can be carried out in a physician’s office.



- ▶ WIESLAW WOSZCZYK, JEREMY COOPERSTOCK and JOHN ROSTON from the Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT) at the Schulich School of Music have developed Open Orchestra (above). The immersive system provides musicians with a high-fidelity “virtual” experience of ensemble rehearsal or performance, combined with the convenience and flexibility of solo study.

- ▶ Research conducted by AMÉLIE QUESNEL-VALLÉE (Sociology and Epidemiology) (right) and a colleague from Florida State University found that higher levels of parental education meant fewer mental health issues for their adult children. Drawing on 29 years of survey data, the duo explored the pathways between a parent's education level and their children's education level, household income and depressive symptoms.



- ▶ In a study of children at two schools in West Africa, VICTORIA TALWAR (Educational and Counselling Psychology) and her colleagues found that children exposed to a harshly punitive school environment are more inclined to lie—and are better at it—than children from non-punitive schools.
- ▶ An international team led by JULIE CUMMING, Schulich School of Music, were among the winners of the second Digging into Data Challenge. The competition promotes innovative humanities and social-science research using large-scale data analysis. The McGill-led team used computers to examine changes in the fundamental language of polyphonic Western classical music between 1300 and 1900.
- ▶ In a comprehensive study based on data gathered from the Inuit Health Survey for International Polar Year, GRACE EGELAND (Dietetics and Human Nutrition) found a very high prevalence of food insecurity—including poor quality of food and insufficient amounts—among children in Canada's Arctic Inuit communities.
- ▶ Since Montreal's Charter of Rights and Responsibilities took effect in 2006, JAMES ARCHIBALD (School of Continuing Studies) has been instrumental in translating the groundbreaking document into various languages to make it more accessible to immigrant communities in Montreal and interested cities abroad. This year, Archibald and his translation team presented Mayor Gérald Tremblay with the Chinese version of the Charter, which follows Spanish and Arabic versions. An Italian version is to follow.
- ▶ The Fonds de recherche du Québec - Société et culture awarded a \$1.6-million grant to a group of researchers led by ELIZABETH GIDENGIL (Political Science) to fund the Centre for the Study of Democratic Citizenship. The Centre brings together an exceptional group of scholars from five Quebec universities with the aim of developing a world-class research centre for the study of democratic citizenship.
- ▶ A research team led by MARY DEAN LEE of the Desautels Faculty of Management has spent the past four years examining how attitudes and approaches toward retirement are shifting. Last year, the researchers released a study, based on in-depth interviews with managers and executives from Canada, that shed light on how Baby Boom managers and corporate leaders are crafting their pathways out of firms and forging new models of retirement.

- ▶ Based on the four-year research project called Diagnosing Ovarian Cancer Early (DOvE), LUCY GILBERT (Medicine and MUHC) and her team published groundbreaking findings suggesting that the killer form of ovarian cancer doesn't start in the ovaries, but often begins in the Fallopian tubes.

- ▶ An international team led by NADA JABADO (Medicine and RI MUHC) has identified two genetic mutations responsible for up to 40 per cent of glioblastomas in children. This fatal brain cancer is unresponsive to chemo- and radiotherapy; the findings could change the way pediatric cancers are treated in the future.

- ▶ JULIO MARTINEZ-TRUJILLO (Physiology) and his team at McGill's Cognitive Neurophysiology Lab published a paper in *Neuron* (right) that uncovers how primates multi-task and filter information. The paper was featured as the journal's cover story that depicted two quintessential "multi-taskers" from the McGill Redmen football team.



- ▶ A saliva test used to diagnose HIV is as accurate as the traditional blood test, according to a study led by NITIKA PANT PAI (Medicine and RI MUHC). Her findings have major implications for countries that wish to adopt self-testing strategies for HIV.

- ▶ Research co-authored by ALAN EVANS of the Montreal Neurological Institute and Hospital found that high-risk infants who develop autism show significant differences in brain development as early as six months of age. Detection of this abnormal development before the appearance of symptoms may lead to earlier—and therefore more effective—interventions.

- ▶ In a study that compared the brains of suicide victims to those who died suddenly from other causes, NAGUIB MECHAWAR of the Douglas Mental Health University Institute found key differences in specific cells in the white matter of the brains. The findings support the idea that inflammation within the brain plays a key role in depression.

- ▶ MOSHE SZYF (Pharmacology and Therapeutics) and his team published findings that, for the first time, link the economics of early life and the biochemistry of DNA. The study found that family living conditions in childhood are associated with significant effects in DNA that persist into middle age. The findings could explain why the health disadvantages associated with low socio-economic status can remain for life, despite an improvement in living conditions over time.

Health



This year has seen a record number of med students, such as Montreal native ANNE ZAHARIA, choose family medicine residencies in McGill hospitals. “We’ve always had very good family medicine people,” says DR. DAVID EIDELMAN, Dean of the Faculty of Medicine, but “now it’s a priority.”

We have to take everything into context. With family medicine, we're looking at the whole person. | Anne Zaharia



Growing up in Montreal with a family physician mom and a general surgeon dad, Anne Zaharia got an inside look at two very different kinds of health care. Yet she still entered med school not knowing where she wanted to specialize. “When I got into clinical work, it narrowed down to a choice between internal medicine and family medicine. They’re both about providing frontline care, and that’s important to me,” says the 25-year-old, who is just beginning her second year of residency at St. Mary’s Hospital Center, in Montreal, one of four teaching hospital centres affiliated with McGill. In the end, Zaharia liked the versatility that comes with being a family doctor, and the need to really get to know patients. “We have to take everything into context—Who is this person? What’s going on in their lives? With family medicine, we’re looking at the whole person.”

Zaharia’s choice is increasingly popular. Over the last decade, the number of McGill med students who go into family medicine has doubled thanks to stepped-up efforts by the Faculty to promote the specialty. “McGill has long been a hotbed of basic science research,” says Dr. David Eidelman, who became Dean of the Faculty of Medicine in January 2012, “and that is always going to be very important. But as our population ages, chronic diseases proliferate and, in Quebec, more babies are born, there’s an increased need for quality frontline care and access to family doctors. We’ve always had very good family medicine people: Now it’s a priority.”

The past year continued initiatives to “orient the Faculty to meet the needs of the population that we are serving,” in the words of Eidelman. Leaders such as Dr. Howard Bergman, the new Chair of the Department of Family Medicine, Dr. Miriam Boillat, Associate Dean of Faculty Development, and Dr. Robert Primavesi, Associate Dean of Medical Education and Student Affairs, are raising the discipline’s profile. Created in response to community demand, the Integrated Clerkship in Gatineau is growing, as is the McGill residency program there, giving students extensive training (en français) in local hospitals while encouraging them to continue their careers in the region.

Looking ahead, the Faculty is getting ready to launch a new curriculum in 2013-2014, which will ensure every medical student is exposed to family medicine from their first year of studies. Equally important in the new curriculum is building in close collaboration among all of the Faculty’s health professionals, including nurses and physical, occupational and speech therapists.

Patient-related research is also a priority. McGill’s family medicine Master’s degree program trains current family physicians to research real-world patient care. When it comes to questions of care—In what situations might a nurse provide better care than a doctor? How can we help elderly patients stay out of the emergency room?—there aren’t yet hard and fast answers. “These questions are as critical as ones about the roles of this particular gene in that particular disease,” says Eidelman. “Both in research and clinical work, family medicine touches people’s lives in a very direct way.”

Health highlights from the past year include:

- ▶ Eighty-four students began family medicine residencies within the McGill hospital network, filling all available positions for the first time ever.
- ▶ More than 90 per cent of students admitted to the medicine program at McGill are from Quebec and 75 per cent of our medical residents remain in Quebec after their studies (based on the latest available data, 2009 cohort).
- ▶ The McGill Academic Health Network (MAHN), with support from the Larry and Cookie Rossy Family Foundation, launched an ambitious collaboration to achieve outcomes in cancer patient survival, mortality and satisfaction among the best in the world. The partners include McGill, the MUHC, the Jewish General Hospital and St. Mary’s Hospital Center.
- ▶ The Gerald Bronfman Centre for Research in Clinical Oncology celebrated its 20th anniversary with several events, including the launch of the Bronfman Scientific Lecture series.
- ▶ Close to 200 doctors, nurses and other allied health professionals from Quebec met at the inaugural RUIS McGill Symposium to share best practices in aging, children’s health, telehealth and other critical areas. RUIS McGill serves 1.8 million people over 63 per cent of Quebec’s land mass.



Thanks to a generous gift by prominent businessman LUCIEN RÉMILLARD (left), the YOSH TAGUCHI Chair in Urology—named after the renowned Royal Victoria Hospital urologist—was established.

- ▶ Close to 700 people attended the second Goodman Cancer Research Gala, raising \$1.15-million in support of the Rosalind and Morris Goodman Cancer Research Centre.
- ▶ The Jim Lund Dental Clinic at Welcome Hall Mission celebrated treating nearly 800 patients since opening its doors two years ago. The Clinic, named for the late Dean of Dentistry, provides pay-what-you-can care for lower-income Montrealers while also training students and residents.

Sustainability



To build the campus of tomorrow, McGill is turning to the community of today. Students such as SEAN REGINIO and JOSÉE MÉTHOT (right) are collaborating with LILITH WYATT and her colleagues in the Office of Sustainability on Vision 2020, a long-term strategy that addresses social, environmental and economic issues.

Vision 2020 is about conversations. | Sean Reginio

Sean Reginio and Josée Méthot probably won't be at McGill in the year 2020, but that isn't stopping them from spending long hours thinking about how the University will look and feel in that hazy future far beyond their own graduations. Sustainability, after all, doesn't have an expiry date.

Vision 2020: Creating a Sustainable McGill is a project driven by the grassroots energy of students like Reginio and Méthot, as well as faculty and staff. Centrally supported by McGill's Office of Sustainability, Vision 2020's purpose is to set a long-term sustainability strategy for—and from—the entire community, integrating social, economic and environmental elements of sustainability through the lens of McGill's mission and strengths.

"Vision 2020 is really about conversations," says Reginio, a U2 Economics & Finance student and a Vision 2020 intern. "It's an opportunity for the entire McGill community to work together and plan out our future. How often do you actually get to play a role in making lasting positive change in a community this huge?"

The conversation has been happening all over McGill's campuses—including facilitated visioning sessions, flash consultations and an online ideas slam. Hundreds of people from across the McGill community have participated, sharing ideas ranging from rooftop gardens to interdisciplinary student research hubs to more efficient storage options for biomedical samples.

"We're seeing some really great ideas," says Josée Méthot, a data strategist for Vision 2020 who just completed her Master's in Natural Resource Sciences. She was drawn to the project's pragmatism, foresight and optimism. "Themes are definitely emerging from the consultations: physical spaces that connect people, stronger ties with the local and global community, more opportunities for experiential learning."

"People leave our events really energized," Reginio says. "They're excited about being able to connect with people from across the community—students, administrators, professors—sharing ideas and finding common ground."

In addition to the Vision 2020 initiative, the McGill community has been busy with on-the-ground sustainability efforts, including:

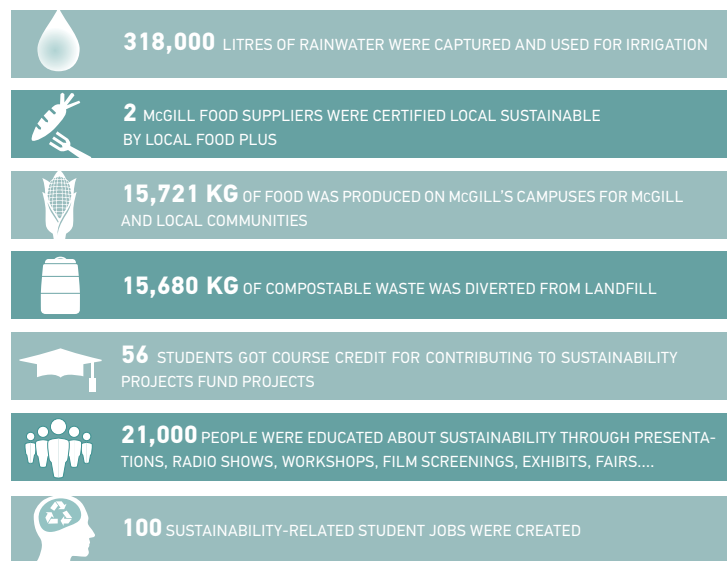
- ▶ The Sustainability Projects Fund, established in 2009, continues to build a culture of sustainability on McGill's campuses. With over \$800,000 to distribute annually—administration matches student fees dollar-for-dollar—the Fund empowers anyone with a good idea. Over 80 projects have been funded to date, approximately half led by students and half by staff.
- ▶ The new networked fleet of uPrint printer/copiers is reducing the number of devices on campus, saving paper (through default double-sided printing) and energy (by reducing the number of devices on campus). The project, a joint effort between Ancillary Services and IT services, received a 2012 Canadian Association of University Business Officers (CAUBO) Quality and Productivity award.

- ▶ An online Energy Dashboard now enables students and staff to track their real-time electricity and steam use in more than 70 buildings on both McGill campuses. The system also helps rival student residences keep score in their annual Fight the Power competition.



The annual Catalyst Awards honoured people working to integrate sustainability into McGill's knowledge, operations and culture. Recipients included student JOSHUA FLETCHER KYLE of the Reboot computer reuse initiative, the Macdonald Student-run Ecological Garden (above), Teva Recycling Initiative, plant science lecturer CAROLINE BEGG and the McGill Grounds Services team. Student MAX LUKE received the Emerald Key and Associate Vice-Principal (University Services) JIM NICELL received a lifetime achievement award.

SUSTAINABILITY PROJECTS FUND - 2011



Infrastructure



Bringing outdated infrastructure, like the Otto Maass Chemistry Building, into the 21st century requires wide-ranging planning and consultation. From left to right: BOB STANLEY (Director, Project Management - Facilities Operations & Development), BRUCE LENNOX (Chair of the Department of Chemistry), CYNTHIA WESTON (Director, Teaching and Learning Services) and JIM NICELL (Associate Vice-Principal, University Services).

Students can now go from their desk to their experiment in six seconds. And there's no smell of chemistry anywhere. | Bruce Lennox



Something had to be done about Otto Maass. Not the legendary chemist, that is, but the half-century-old chemistry building named in his honour. The ventilation systems, so crucial to laboratory safety, were showing their age. So was the plumbing, the electrical and the lab layouts. "The question," says Bruce Lennox, chair of McGill's Department of Chemistry, "was whether to recreate a 45-year-old model of infrastructure, or to really reinvent the building."

As far back as 2007, Lennox and his team had been talking with Jim Nicell, Associate Vice-Principal (University Services), and staff from McGill's Facilities Operations and Development unit. They quickly realized that the bolder "reinvention" option would create cutting-edge teaching and research spaces while yielding dramatic energy savings—a goal that's particularly important for the sustainability-focused Department of Chemistry, home to a flagship Green Chemistry research group.



In 2009, those makeover dreams were fast-tracked to reality when the federal government launched its Knowledge Infrastructure Program (KIP). With \$103-million in funding from the KIP program and the Quebec government, McGill began extensive overhauls of labs, classrooms and mechanical systems at Otto Maass, the McIntyre Medical Building, the Macdonald Engineering Complex and the Douglas Mental Health University Institute.

The project kicked into high gear, with crews working double shifts four days a week. In the autumn of 2011, the construction fence surrounding Otto Maass came down to reveal a building transformed. "This was a massive undertaking," says Jim Nicell. "It was made possible through teamwork, and by the fact that we were prepared. The renovations will set the stage for transformative research and teaching in chemistry for decades to come."

Numerous new, large labs integrate office space, instrument space and chemical storage—all separated by glass walls, and with their own ventilation systems. "Students can now go from their desk to their experiment in six seconds," says Lennox. "And there's no smell of chemistry anywhere." The new large labs (above) have the added benefit of combining two or three compatible research groups, encouraging network-building and idea-sharing among approximately 225 researchers and 5,000 undergraduates who use the space.

The complete overhaul of systems has brought the building in line with the energy management objectives for McGill's campuses; by repurposing the heat generated by computer servers in next-door Burnside Hall, for example, the annual Otto Maass heating bill will drop by an estimated \$120,000 a year. In addition to those increased efficiencies, the changes have also laid the groundwork for the *next* stage of renovations, in particular the undergraduate teaching labs. "With the old teaching labs, we could not innovate in our academic curriculum," says Lennox. In the new labs, with state-of-the-art fume hoods and experiment space, "we'll have the facilities to do everything we want to do academically. There's really no limit."

The spirit of teamwork and long-range vision has fueled a number of other recent infrastructure projects, including:

- ▶ In March 2012 the Government of Quebec awarded McGill \$35-million to undertake a much-needed full renovation of Wilson Hall, a heritage building that houses the schools of Social Work and Nursing.
- ▶ McGill's new Life Sciences Complex earned a LEED Gold certification from the Canada Green Building Council, for its innovative heat recovery system, maximized use of daylight, rainwater capture and green roof. In addition, more than 96 per cent of construction-related waste was diverted from landfill.



The cleaning and restoration of the masonry on the iconic, 169-year-old Arts Building reversed many years of weathering and deterioration on a building that is so symbolic of McGill's deep roots and traditions.

Workplace



Behind every successful teaching program or research lab, there's a bustling office. Principal's Award winners NAOMI TAKEDA (left) and ANNE BILLYARD are two of the thousands of administrative and support staffers who keep McGill running.

The students and professors gave me the title of ‘lab mom’ because I look after them like they’re my kids. | Naomi Takeda



Anne Billyard’s office is in the Desautels Faculty of Management’s Bronfman Building, on busy downtown Sherbrooke Street. Naomi Takeda works at the Montreal Neurological Institute & Hospital, perched on the steep slope where the city blends into the wild greenery of Mount Royal. They may not share a workplace, but Anne and Naomi have a lot in common. Together, they’ve clocked 45 years at McGill. Both were honoured with 2011 Principal’s Awards for Administrative and Support Staff, a recognition of their above-and-beyond dedication. And a lot of students and faculty depend on them.

“The students and professors gave me the title of ‘lab mom’ because I look after them like they’re my kids,” says Naomi. (Her other title is Administrative Coordinator in the Neurobiology Unit.) She’s the backbone for not one but five busy research labs. That means five times the grant proposals, five times the payroll paperwork and five times the grad students. “It’s quite a multi-tasking job,” she deadpans. And, yet, she still makes it a point to organize twice-a-year potlucks for the students. She holds one in the fall so new students can meet people and the other to celebrate the end of the school year.

Anne is close to many students, too, but she rarely shares a meal with them. And when she does, it’s usually in a restaurant in Tokyo.

Anne joined the Desautels Faculty of Management’s “MBA in Japan” program in 1998, a year after it began. (She’s worked at the Faculty, though, since 1981.) In the past 14 years, she’s helped hundreds of students through every stage of the program, from applying to registering for classes to graduation. She’s also responsible for making sure course materials make it to Tokyo prior to the start of each course.

Outside the day-to-day responsibilities, there are curveballs. In the chaotic hours and days after the March 2011 tsunami decimated parts of Japan, she tracked down every student and made sure they had a safe place to stay—and if they didn’t, she found one. “Our entire interaction over the years is through e-mail,” she says, “but I still really get to know them. Every other year or so, I go to Japan for the graduation ceremony—that’s the only time I get to meet each of them.”

The hard work and dedication of Naomi and Anne—and that of McGill’s 5,278 faculty and staff—are the engines driving McGill forward. The past year has been a time to both reflect and recognize these amazing achievements, and to plan for the challenges ahead:

- ▶ **LABOUR RELATIONS** were also an important focus during the year, with the University signing new collective agreements with the SEU Trades, Powerhouse (downtown), Trades (Macdonald campus), the AGSEM Teaching Assistants and MUNACA/PSAC. The University also signed a first collective agreement with AMUSE, the union representing the University’s non-academic casual employees.



The 2011 PRINCIPAL’S AWARDS recognized the outstanding achievements of administrative and support staff in four categories: ANNA MCNICOLL (Technical & Library Assistants), MICHEL MEDEIROS (Trades and Services), NAOMI TAKEDA (Clerical) and ANNE BILLYARD (Management). JAMES D’ELIA (above left), and LINDA ORTUSO (right), seen here with KATHLEEN MASSEY, shared the Team Project award. Each person or team received \$5,000.

- ▶ McGill ranked among CANADA’S TOP 100 EMPLOYERS for the fourth consecutive year and was the only university to make the top 20 list. McGill received high grades for its physical workplace, for its employee training and skills development, and for its family-friendly health benefits. Randstad Canada also ranked McGill among its top five “Most Attractive Companies to Work for in Canada,” while Waterstone Human Capital placed the University among its own top five “Most Admired Corporate Cultures” in the public sector (Quebec and Atlantic Canada).
- ▶ The first cohort of the redesigned LEADERSHIP DEVELOPMENT PROGRAM graduated in April 2012. The new year-long program is divided into three streams: managers/supervisors, change agents and academic advisors.
- ▶ In order to redesign the McGill website for maximum usability, CONTENT AND COLLABORATION SOLUTIONS and COMMUNICATIONS AND EXTERNAL RELATIONS engaged in extensive community consultations. The resulting overhaul, which now allows users to customize the homepage based on their particular information needs, won the 2012 eduStyle Higher-Ed Web Awards for “Best Redesign”—and, in a user survey, has been praised for being “accessible,” “modern” and “user-friendly.”



FACULTY & STAFF HONOURS

ORDERS AND ACADEMIES

- ▶ This year, nine distinguished McGill scholars from the faculties of Arts, Law and Medicine were named Fellows of the Royal Society of Canada (RSC). The following individuals joined about 130 other McGill-affiliated members of Canada's senior national body of distinguished scholars:
 - ▶ FREDERICK ANDERMANN, Neurology and Neurosurgery/ The Neuro
 - ▶ EDUARDO L. FRANCO, Oncology
 - ▶ ALLAN GREER, History
 - ▶ GERSHON HUNDERT, Jewish Studies
 - ▶ MICHAEL S. KRAMER, Pediatrics and Epidemiology
 - ▶ CELINE LE BOURDAIS, Sociology
 - ▶ DESMOND MANDERSON, Law
 - ▶ WILLIAM J. MULLER, Biochemistry
 - ▶ MICHAEL PETRIDES, Psychology/Neurology and Neurosurgery/ The Neuro
- ▶ The RSC's Willet G. Miller Medal was awarded to ANTHONY E. WILLIAMS-JONES (Earth and Planetary Science) for his advancement of our understanding of how metals are transported and concentrated from economically exploitable mineral deposits.
- ▶ MICHAEL MEANEY, Associate Director of the Research Centre at the Douglas Institute and McGill Professor of Psychiatry and Neurology and Neurosurgery, was inducted as a Member into the Order of Canada for his contributions to the fields of neuroscience and epigenetics.
- ▶ The Ordre du Québec bestowed its highest civilian honours to three McGillians this year: BARTHA MARIA KNOPPERS, Director of the Centre of Genomics and Policy, Faculty of Medicine, was named an Officer of the Order in recognition of her contributions in the field of health law and biomedical ethics; GILLES JULIEN, Faculty of Medicine, was named an Officer of the Order for his transformative contribution to social pediatrics; and WAGDI G. HABASHI, Faculty of Engineering, was named a Knight of the Order for his internationally renowned research in the area of in-flight aircraft icing.

- ▶ F. CLARKE FRASER, one of Canada's first medical geneticists, and PETER T. MACKLEM (1931-2011), one of Canada's greatest pulmonary clinician-scientists, were inducted into the Canadian Medical Hall of Fame. These medical pioneers, both McGill graduates, carried out their illustrious careers primarily at McGill and three MUHC hospitals: the Montreal Children's Hospital, the Royal Victoria Hospital and the Montreal Chest Institute.



- ▶ Provost ANTHONY C. MASI (above, left) was appointed as Knight in the Order of Merit of the Italian Republic in a ceremony June 5 at the residence of the Italian Ambassador to Canada. Prof. Masi was recognized for his contribution to the support of research activities and to the strengthening of cooperation between Canadian and Italian academic institutions.
- ▶ Vice-Principal (Administration and Finance) MICHAEL DI GRAPPA was awarded the Queen Elizabeth II Diamond Jubilee medal in recognition of his ongoing and tireless contributions to the Montreal community.
- ▶ MICHAEL PETRIDES, Director of the Montreal Neurological Institute and Hospital's Cognitive Neuroscience Unit, was elected to the Royal Society of London, an independent academy dedicated to promoting excellence in science.



A SELECTION OF OTHER HONOURS FOR 2011-12

- ▶ RODERICK A. MACDONALD (right), F.R. Scott Professor of Constitutional and Public Law, was awarded a Lifetime Achievement Award for Leadership in Learning, McGill's highest teaching honour, at fall Convocation.



- ▶ The Principal's Prize for Excellence in Teaching was awarded to: JAMES HANLEY, Professor, Faculty of Medicine; MARILYN SCOTT, Associate Professor, Institute of Parasitology, and Director, McGill School of Environment (MSE); KRISTA R. MUIS, Assistant Professor, Faculty of Education; and SUJATA MADAN, Faculty Lecturer, Desautels Faculty of Management.

- ▶ At spring Convocation, renowned medical anthropologist Professor Emerita MARGARET LOCK (right), became the fourth, and first female, recipient of the McGill University Medal for Exceptional Academic Achievement.



- ▶ PETER J. MCLEOD, Core Faculty Member at the McGill Centre for Medical Education, was awarded the 2012 Royal College of Physicians and Surgeons of Canada's Duncan Graham Award in recognition of his career-long service in shaping training at McGill and various Montreal-area hospitals.
- ▶ XUE LIU, School of Computer Science, ANDREW HENDRY, Redpath Museum, and KARIM NADER, Dept. of Psychology, were named winners of the 2012-2013 Tomlinson Science Awards in recognition of excellence and scientific leadership.
- ▶ HENRY MINTZBERG, the Cleghorn Professor of Management Studies at the Desautels Faculty of Management, is one of four Canadians listed among the world's Top 50 business thinkers, according to biennial rankings sponsored by the *Harvard Business Review*.
- ▶ ROBERT J. ZATORRE, Montreal Neurological Institute, was one of three recipients of the annual Neuronal Plasticity Prize from the Fondation Ipsen for his pioneering research in the domain of music and brain plasticity.

- ▶ ACFAS awarded its 2011 Jacques-Rousseau Award to BARTHA MARIA KNOPPERS (right), Director of the Centre for Genomics and Policy at the McGill and Génome Québec Innovation Centre. The award recognizes exceptional scientific achievements by a researcher in Quebec whose work establishes innovative bridges between disciplines.



- ▶ BALFOUR MOUNT, Emeritus Professor of Palliative Care, received the 2011 Canadian Medical Association's (CMA) Medal of Service in recognition of his outstanding and exceptional contribution to the advancement of health care in Canada and his pioneering and tireless advocacy for quality end-of-life care.
- ▶ RICHARD L. CRUESS, Core Faculty Member at the McGill Centre for Medical Education, received the 2012 Canadian Medical Association's Medal of Service in recognition of his outstanding and exceptional contribution to the advancement of health care in Canada.
- ▶ DANIEL LEVITIN, Dept. of Psychology, and MARK WAINBERG, Director of the McGill AIDS Centre, were named Fellows of the American Association for the Advancement of Science, an honour bestowed upon AAAS members by their peers. Levitin was cited for his role as a leader in the psychology and neuroscience of music. Wainberg was honoured for his contributions to HIV drug development. In April, Mark Wainberg was also awarded the 2012 Killam Prize in Health Science by the Canada Council for the Arts.
- ▶ LAURETTE DUBÉ, Marketing Professor at the Desautels Faculty of Management, received a 2011 Woman of Outstanding Achievement Award given by the Women's Y Foundation in the category of Social and Environmental Sciences.
- ▶ ROUSSOS DIMITRAKOPOULOS, Dept. of Mining and Materials Engineering, won NSERC's 2011 Leo Derikx Synergy Award for his work in developing stochastic mathematical and computing models to help mining companies make effective strategic and sustainable decisions.
- ▶ The Canadian Cancer Research Alliance (CCRA) bestowed its inaugural award for Exceptional Leadership in Cancer Research to PHILIP E. BRANTON, Faculty of Medicine, for his outstanding contributions to the development of the cancer research community and inter-agency research collaboration in Canada.

FACULTY & STAFF HONOURS

- ▶ FRANÇOIS CRÉPEAU, the Hans and Tamar Oppenheimer Professor in Public International Law, was appointed UN Special Rapporteur on Human Rights of Migrants for a three-year term.
- ▶ WENDY THOMSON, Director of the McGill School of Social Work, was appointed Chair of the expert panel on Activity-based Funding in Health and Social Services by the Quebec Government. The panel will report to the government on the challenges facing Quebec's health and social services in the future.
- ▶ RODERICK A. MACDONALD, F.R. Scott Professor of Constitutional and Public Law, was named co-commissioner of the Charbonneau Commission—Quebec's public inquiry on corruption.
- ▶ MARK FEWER, violinist and Schulich School of Music professor, won a Juno for Contemporary Jazz Album of the Year for his album *Changing Seasons*.

- ▶ Faculty of Education Professor SHAHEEN SHARIFF (right), has been named one of four worldwide recipients of Facebook's first Digital Citizenship research grants—an award that will support her Define the Line project, designed to help reduce cyber-bullying and promote responsible digital citizenship.



- ▶ NAHUM SONENBERG, Professor of Biochemistry at the Goodman Cancer Research Centre, was awarded the 41st Lewis S. Rosenstiel Award for Distinguished Work in Basic Medical Science. The award recognizes Prof. Sonenberg's research on the mechanism and control of protein synthesis, which has revolutionized our understanding of fundamental biological processes underlying diabetes, cancer, viral infection, immunology and memory.
- ▶ SALEEM RAZACK, Assistant Dean of Admissions, Equity and Diversity in the Faculty of Medicine, received the 2012 Association of Faculties of Medicine of Canada May Cohen Gender Equity Award. The award serves to recognize outstanding effort in improving the gender equity environment in academic medicine in Canada.
- ▶ ANNETTE MAJNEMER, Associate Dean and Director of the School of Physical and Occupational Therapy, was elected to the American Occupational Therapy Foundation (AOTF) Academy of Research—the highest scholarly honour that the AOTF confers.

FELLOWSHIPS

- ▶ COLIN CHAPMAN, Dept. of Anthropology and MSE, was named one of the winners of the 2012 Killam Research Fellowships to continue his work that explores risk factors to the primate population in Uganda.
- ▶ JEAN-MARIE DUFOUR, Dept. of Economics, won the 2012 Bank of Canada Fellowship Award for his role as one of Canada's leading econometricians.
- ▶ ANDREW PIPER, an Associate Professor, Dept. of Languages, Literatures and Cultures, who looks at the intersection of literary and bibliographic communication from the 18th century to the present, received a New Directions Fellowship from the Andrew F. Mellon Foundation.
- ▶ The work of ROBERT SEIRINGER, Dept. of Mathematics and Statistics, which involves the use of modern mathematical techniques to learn about physics, earned him an E.W.R. Steacie Memorial Fellowship from the Natural Sciences and Engineering Research Council of Canada.

WRITING

- ▶ CARMAN MILLER, Professor Emeritus in the Dept. of History and Classical Studies, has been awarded the C.P. Stacey Award for the Best Book on Canadian Military History for *A Knight in Politics: A Biography of Sir Frederick Borden*.
- ▶ The International Academy of Astronautics (IAA) awarded its 2011 Social Sciences Book Award to the Faculty of Law's RAM JAKHU for *National Regulation of Space Activities*.
- ▶ The Bibliographical Society of Canada awarded the Tremaine Medal and Watters-Morley Prize for 2011 to PETER F. McNALLY, Director of the History of McGill Project. The Tremaine Medal is awarded for outstanding service to Canadian bibliography and for distinguished publication in either English or French.
- ▶ The Faculty of Law's EVAN FOX-DECENT published *Sovereignty's Promise: The State as Fiduciary*. It is one of three books shortlisted for the 2012 C.B. Macpherson Prize, awarded to the best book published, in English or in French, in a field relating to the study of political theory.

Year In Review



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JULY 2011

The University community mourns the loss of EMERITUS WAINWRIGHT PROFESSOR OF CIVIL LAW PAUL-ANDRÉ CRÉPEAU, a McGill professor for more than 50 years. *La Presse* described Prof. Crépeau as one of the most important legal reformers in Quebec history and a father of Quebec's Charter of Human Rights and Freedoms. He died on July 6 at the age of 85. (1)

AUGUST 2011

The Quebec Ministry of Education, Recreation and Sports recognizes McGill's MBA PROGRAM as a "specialized" program—a decision that will permit the University to continue operating the program on a self-funded basis.

SEPTEMBER 2011

McGill, in conjunction with POP Montreal and WIN BUTLER, BA'04, of the rock band ARCADE FIRE, present the first annual POP vs. JOCK charity basketball game at the McGill Sports Centre. The game features a team of musicians (Team POP) against an all-star team comprised of current and former players from the McGill Redmen and Concordia Stingers (Team JOCK). All proceeds go to DJ Sports Club, a Montreal organization that provides sports, mentorship and educational programs to more than 900 youths. (2)

After months of voting and 60,000 votes cast, the results from the GREATEST MCGILLIAN CONTEST are announced: THOMAS CHANG, BSc'57, MDCM'61, PhD'65, the inventor of the artificial blood cell, comes first, closely followed by poet and singer-songwriter LEONARD COHEN, BA'55, and Nobel-prize winning physicist ERNEST RUTHERFORD, who carried out seminal work at McGill in the early 1900s.

OCTOBER 2011

The ROSALIND AND MORRIS GOODMAN CANCER RESEARCH CENTRE officially launches its McGill Dances for Cancer Research video on YouTube. The choreographed video, which features some of McGill's top cancer researchers, students and technicians, highlights the critical work being done at the Centre, while also raising funds for cancer research. The video generates widespread interest online and in the media. It goes viral, reaching 27,000 hits within days. (3)

THE MCGILL DAILY, the University's independent student newspaper, celebrates its 100th anniversary.

NOVEMBER 2011

SERGIO LUZZATO, a professor of modern history at the University of Turin, Italy, wins McGill's 4th Annual Cundill Prize in History for *Padre Pio: Miracles and Politics in a Secular Age*. The Cundill Prize in History at McGill is the world's most important non-fiction historical literature prize, with a grand prize of U.S.\$75,000.

McGill's GERALD BRONFMAN CENTRE FOR CLINICAL RESEARCH IN ONCOLOGY launches its anniversary celebrations marking 20 years of patient-focused research, the generosity and vision of the Bronfman Family and seminal work that changed the lives of countless individuals.

WE ARE ALL MCGILL, a large student-led rally discusses the events of Nov. 10, when a province-wide protest against tuition-fee increases spilled onto campus and resulted in an occupation of the James Administration Building. The event also draws a number of faculty and administrators, who listen to personal accounts of what transpired.

Year In Review



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Entrepreneur and longtime McGill philanthropist LORNE TROTTIER, BEng'70, MEng'73, DSc'06, brings science out of the ivory tower and into the public domain thanks to a transformative \$5.5-million gift to McGill's Faculty of Science. This endowment will fund in perpetuity the Lorne Trottier Public Science Symposium Series, the Mini-Science Series and the McGill Office for Science and Society (OSS), which offers programs aimed at separating scientific fact from fiction. (4)

DECEMBER 2011

Exercise scientist from the University of South Carolina Dr. Steven Blair is named the inaugural winner of the BLOOMBERG MANULIFE PRIZE FOR THE PROMOTION OF ACTIVE HEALTH. The prize, established last year at McGill, is to honour research that has the potential to have transformative impacts on how people approach their health. Blair is widely known as one of the first researchers to link moderate increases in fitness with reduced mortality rates.

The STUDENTS' SOCIETY OF MCGILL UNIVERSITY (SSMU) teams up with Therapeutic Paws of Canada to bring students a bit of cheer and relaxation in between studying for their exams. Over a three-day period, hundreds of students get a chance to meet, pet and play with a dog. (5)

Members of the MCGILL UNIVERSITY NON-ACADEMIC CERTIFIED ASSOCIATION (MUNACA) ratify a new contract with the University, bringing an end to a three-month-long strike by the union representing some 1,700 McGill lab technicians, IT technicians, clerical staff and library assistants.

Following board consultation, Dean of Law DANIEL JUTRAS issues a report recommending improved procedures and means to create dialogue concerning civic protests on campus. Dean of Arts CHRISTOPHER MANFREDI leads the process of inviting exchange among members of the University Community.

JANUARY 2012

Leading McGill administrator and researcher DAVID EIDELMAN, MDCM'79, is named Dean of the Faculty of Medicine and Vice-Principal (Health Affairs). A native Montrealer, Eidelman has previously held posts as a leading clinician-scientist based at the Meakins-Christie Laboratories, Physician-in-Chief at the McGill University Health Centre (MUHC) and Director of McGill's renowned Division of Respiratory Diseases (see Health, page 26).

McGill University's LIFE SCIENCES COMPLEX is awarded LEED gold certification for new construction from the Canada Green Building Council (CaGBC), a significant upgrade from the silver rating that was first sought. Completed in 2008, it is the only university-owned laboratory building in Quebec to achieve the LEED gold rating (see Infrastructure, page 31). (6)

FEBRUARY 2012

A second student occupation of the JAMES ADMINISTRATION BUILDING sparks intense debate and dialogue about the rights of employees to a safe workplace, free expression and peaceful assembly on campus. The sit-in lasts five days and ends peacefully.

About 30 undergraduate and MBA students head to South Africa to meet top business, government and community leaders as part of the "hot cities tour," the shortest course offered by the DESAUTELS FACULTY OF MANAGEMENT. The course, now in its fourth year, seeks to bridge the gap between academic learning and the real-world dilemmas that exist outside the classroom.

THE MCGILL INSTITUTE FOR GLOBAL FOOD SECURITY, Canada's leading multidisciplinary teaching and research hub on global food security, receives a generous \$1.5-million gift from New York-based businesswoman MARGARET A. GILLIAM, BSc'59. The gift supports research, teaching and graduate fellowships at the Institute and helps build on its recent initiatives to tackle the global food and nutrition crisis and seek long-term answers for sustainable agricultural production.



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MARCH 2012

The MCGILL INSTITUTE FOR THE STUDY OF CANADA examines crime, policing and justice at its annual conference, *Crime and the Law: The Future of Justice in Canada*.

JOSH REDEL, engineering undergraduate, is elected President of the Students' Society of McGill University (SSMU) and JONATHAN MOONEY, PhD candidate in chemistry, is elected Secretary-General of McGill's Post-Graduate Students' Society (PGSS).

Economics and Psychology grad TRIP YANG produces a five-minute-long celebration of student life with his hip-hop video "A MCGILL STATE OF MIND." Set to the tune of Jay-Z's hit "Empire State of Mind," the video includes a cast of hundreds of students, faculty and staff and footage in some 35 different locations across campus. Yang's video has almost 30,000 views on YouTube within its first week.

McGill's REDPATH MUSEUM, one of Canada's oldest freestanding museums, celebrates its 130th anniversary. (7)

Television funnyman RICK MERCER spends a day on campus to film a segment for his popular show, *The Rick Mercer Report*. He is at McGill to celebrate the more than \$9,000 raised by McGill students—the most raised by any university group in the country—to buy mosquito netting for people in Africa as part of his Spread The Net campaign. (8)

Montreal native, McGill alumnus and professor emeritus, and leading Canadian philosopher and public intellectual CHARLES TAYLOR is the subject and the guest of honour at a major conference, "CHARLES TAYLOR AT 80: AN INTERNATIONAL CONFERENCE." Over the course of three days, scholars from around the world analyze Taylor's scholarly work and his contributions to public life.

Some of McGill's trailblazing scientists come together with a delegation from the Canadian Space Agency to share their cutting-edge research with the McGill community at the first ever MCGILL-CSA SPACE DAY.

MAY 2012

With Campaign McGill hitting the homestretch, MARC WEINSTEIN is reappointed Vice-Principal (Development and Alumni Relations) for a six-year term. Since his initial appointment in 2008, Weinstein has spearheaded the University's \$750-million fundraising campaign; at the time, the largest and most ambitious ever undertaken by a Canadian university.

THE DAVID COLMAN SYMPOSIUM brings together prominent international neuroscientists as a tribute to the visionary leadership of the late Neuro director, who passed away unexpectedly in June 2011.

JUNE 2012

As part of MCGILL'S 190TH ANNIVERSARY festivities, the University celebrates its distinctly Scottish roots by conferring honorary doctorates on Anton Muscatelli, Principal and Vice-Chancellor of the University of Glasgow, and Sir Timothy O'Shea, Principal and Vice-Chancellor of the University of Edinburgh. Prior to the ceremony, principals Muscatelli, O'Shea and Munroe-Blum unveil three commemorative benches made of Scottish granite in James Square. (9)

Due to the ongoing tuition demonstrations, spring CONVOCATION CEREMONIES move from the lower field of the downtown campus to indoors at the Bell Centre and the Centre Mont-Royal.

Honorary Degree Recipients



1



2



3



4



5

FALL 2011

- ▶ ALFRED BRENDEL, KBE, DOCTOR OF MUSIC, considered one of the greatest contemporary classical pianists; poet, author and artist.
- ▶ SHEILA GOLDBLOOM, MSW'64, CM, CQ, DOCTOR OF LAWS, inspiring social worker, educator and volunteer, dedicated to improving the lives of others through organizations such as Centraide, Meals-on-Wheels and the Temple Emanu-El-Beth Sholom. (1)
- ▶ ROBERT WETENHALL, DOCTOR OF LAWS, owner of the Montreal Alouettes football club and pivotal player in the redevelopment of the team and the expansion of McGill University's Percival Molson Stadium.
- ▶ BERNICE GRAFSTEIN, PhD'54, DOCTOR OF SCIENCE, noted expert in the field of neuroregeneration research and longstanding advocate for women in science. (2)
- ▶ JOHN A. RAE, CM, DOCTOR OF LAWS, Executive Vice-President, Office of the Chairman of the Executive Committee of Power Corporation of Canada and former Executive Assistant to the Minister of Indian and Northern Affairs and Northern Development, the Right Hon. Jean Chrétien, from 1967-71.
- ▶ CARL W. COTMAN, DOCTOR OF SCIENCE, Professor of Neurology, Neurobiology & Behavior, and Biomedical Engineering at the University of California and Director of the Alzheimer's Disease Research Center, recognized internationally for his landmark studies.
- ▶ ANDRÉ DESMARAIS, OC, OQ, DOCTOR OF LAWS, Deputy Chair, President and Co-CEO of Power Corporation, and Co-Chair of Power Financial, recognized for his role in transforming Power Corporation of Canada into a worldwide financial services institution.
- ▶ PAUL DESMARAIS JR., BCom'77, OC, OQ, DOCTOR OF LAWS, Chair and Co-CEO of Power Corporation and Co-Chair of Power Financial, known for his exceptional business acumen, vision, leadership and philanthropic endeavours. (4)

SPRING 2012

- ▶ JULIAN ADAMS, BSc'77, DOCTOR OF SCIENCE, President of Research and Development and Chief Scientific Officer of Infinity Pharmaceuticals; known for spearheading the discovery and development of life-enhancing cancer and HIV drugs.
- ▶ ALDO BENSADOUN, BCom'64, OC, DOCTOR OF LAWS, businessman and founder of the ALDO Group; under his astute leadership the company has placed Canada at the forefront of the international footwear industry.
- ▶ EDGAR M. BRONFMAN, BA'51, DOCTOR OF LITERATURE, Former Chairman of the Seagram Company Limited; President of the Samuel Bronfman Foundation, which is responsible for many programs dedicated to youth and education, including Hillel: the Foundation for Jewish Campus Life, and MyJewishLearning.com.
- ▶ RONALD CHWANG, BEng'72, DOCTOR OF SCIENCE, Chairman and President of iD Ventures America; key contributor to semiconductor, computer and electronics industries worldwide; successful venture capital investment manager in several well-known technology start-ups. (3)
- ▶ BOAVENTURA DE SOUSA SANTOS, DOCTOR OF LAWS, Director of the Center for Social Studies of the University of Coimbra and Scientific Coordinator of the Permanent Observatory for Portuguese Justice; considered one of the leading sociologists of law of his generation.
- ▶ PETER MILLIKEN, PC, DOCTOR OF LAWS, Former Member of Parliament representing the Ontario riding of Kingston and the Islands, longest-standing Speaker of the House in Canadian history, lawyer.
- ▶ ANTON MUSCATELLI, FRSA, FRSE, ACSS, DOCTOR OF LAWS, Principal and Vice-Chancellor of the University of Glasgow, renowned economist.
- ▶ KANAYO NWANZE, DOCTOR OF SCIENCE, President of the International Fund for Agricultural Development (IFAD), recognized for the development of policies to eliminate poverty and malnutrition, raise productivity and incomes, and improve quality of life for the rural poor. (5)
- ▶ SIR TIMOTHY O'SHEA, FRSE, DOCTOR OF LAWS, Principal and Vice-Chancellor of the University of Edinburgh; researcher in computer-based learning, artificial intelligence and mathematics education.
- ▶ PHILLIP A. SHARP, DOCTOR OF SCIENCE, Nobel laureate (1993), leading molecular biologist of our era, co-discovered RNA splicing, which greatly advanced the understanding of the genetic basis of many diseases, including cancer.
- ▶ MAX R. VAN EGMOND, DOCTOR OF MUSIC, renowned Dutch bass-baritone singer, among the most respected figures in the field of Early Music performance; his recordings, concerts and teaching have influenced generations of aspiring artists.
- ▶ ROBERT WARES, BSc'79, DOCTOR OF SCIENCE, CEO and Executive Vice-President of Brett Resources Inc., Founder and Executive Vice-President of Exploration and Resource Development at Osisko Mining Corporation, quintessential scholar/entrepreneur, visionary geologist.

Fact Book

STUDENTS

OUTSTANDING STUDENTS

- ▶ **37,835** STUDENTS
- ▶ **7,715** (20%) INTERNATIONAL STUDENTS
- ▶ **8,881** (23.7%) GRADUATE STUDENTS
- ▶ DEGREES GRANTED IN 2011-12: **8,300**
- ▶ RHODES SCHOLARS: **133**
- ▶ **6,782** (17.9%) OF OUR STUDENTS CLAIM FRENCH AS THEIR FIRST LANGUAGE

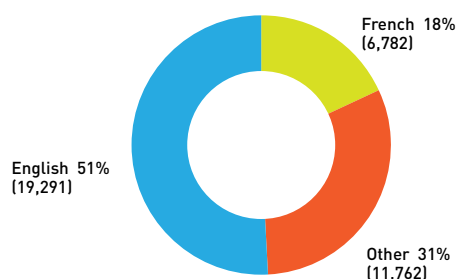
STUDENT ENROLMENT FALL 2011

Full-time undergraduate	22,155
Part-time undergraduate	3,783
Full-time graduate	6,592
Part-time graduate	2,289
Postdoctoral scholars	625
Residents and fellows	1,250
Other (non-credit)	1,141
TOTAL ENROLMENT	37,835

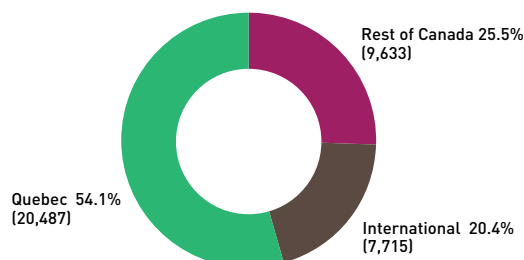
ENROLMENT BY FACULTY

FACULTY	UNDER-GRADUATE	GRADUATE	POST DOCTORAL + RESIDENTS	OTHER	TOTAL
Agricultural & Environmental Sciences	1,229	526	23	102	1,880
Arts	7,314	874	34		8,222
Interfaculty B.A. & Sc.	594	-	-	-	594
Dentistry	132	62	36	-	230
Education	1,664	1,075	5	-	2,744
Engineering	2,969	1,141	62	-	4,172
Law	697	129	8	-	834
Desautels Faculty of Management	2,373	435	3	-	2,811
Medicine	1,504	2,012	1,560	-	5,076
Schulich School of Music	558	291	5	-	854
Religious Studies	34	61	-	-	95
Science	4,498	1,004	139	-	5,641
Continuing Studies	2,372	1,271	-	1,039	4,682
TOTAL ALL STUDENTS	25,938	8,881	1,875	1,141	37,835

ENROLMENT BY MOTHER TONGUE



ENROLMENT BY PLACE OF ORIGIN



Fact Book

STUDENTS

AVERAGE ENTERING R SCORE* OF UNDERGRADUATES

SOURCE: CREPUQ



*The R score (cote de rendement au collégial or cote R in French) is a statistical method which classifies college students' academic performance in Quebec. R scores in the range of 29.5 to 31.9 are considered well above average. Those between 26 and 29.4 are above average and those between 20 and 25.9 are considered average.

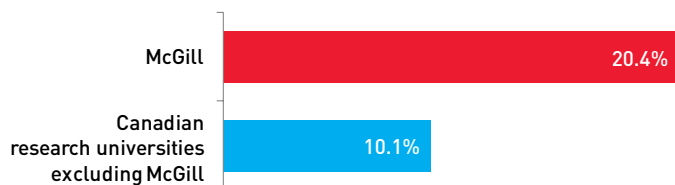
UNDERGRADUATE TUITION FEES 2011-12

Quebec Students	\$2,168
Rest of Canada	\$5,858
International Students	\$14,561-26,827*

*Depending on program

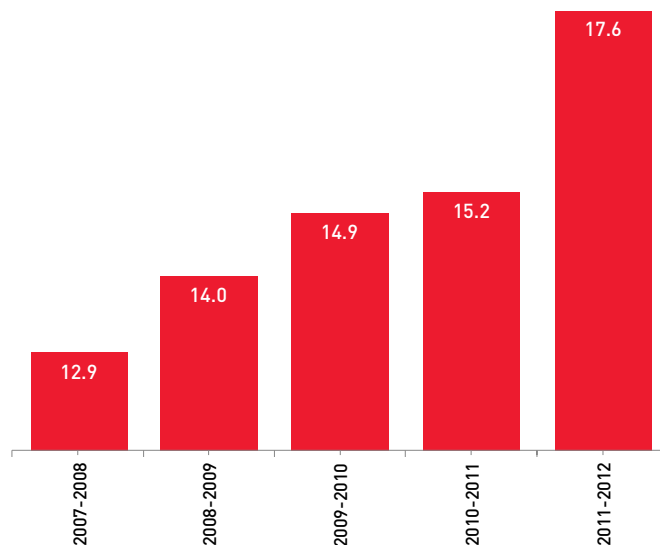
PROPORTION OF INTERNATIONAL STUDENTS* (AS A % OF DEGREE-SEEKING STUDENTS)

SOURCE: U15 DATA EXCHANGE



*includes full- and part-time degree-seeking students

UNDERGRADUATE SCHOLARSHIPS & FINANCIAL AID (\$ MILLIONS)



PROPORTION OF PHD STUDENTS (AS A % OF DEGREE-SEEKING STUDENTS)

SOURCE: U15 DATA EXCHANGE



Fact Book

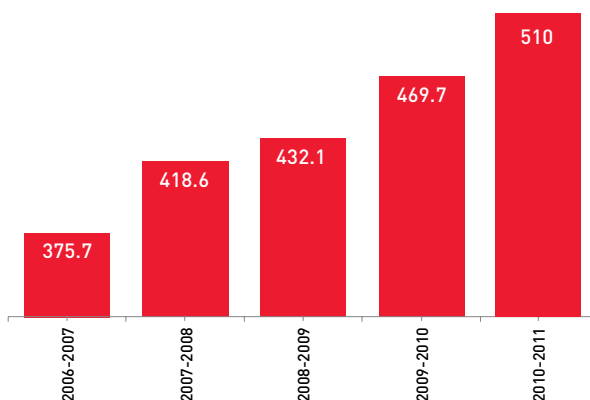
FACULTY & RESEARCH

OUTSTANDING FACULTY

- ▶ **1,636** TENURED AND TENURE-STREAM FACULTY
- ▶ **159** CANADA RESEARCH CHAIRS AWARDED TO MCGILL, 148 OF WHICH ARE CURRENTLY FILLED
- ▶ **163** ENDOWED TEACHING AND RESEARCH CHAIRS
- ▶ **139** LIVING MEMBERS OF THE ROYAL SOCIETY OF CANADA
- ▶ **MORE THAN 1,000** TENURE-TRACK PROFESSORS HIRED UNDER AN AMBITIOUS RECRUITMENT PROGRAM SINCE 2000. OF THESE, **626** WERE RECRUITED FROM OUTSIDE CANADA

RESEARCH FUNDING IN \$M (INCLUDING AFFILIATED HOSPITALS*)

SOURCE: CAUBO



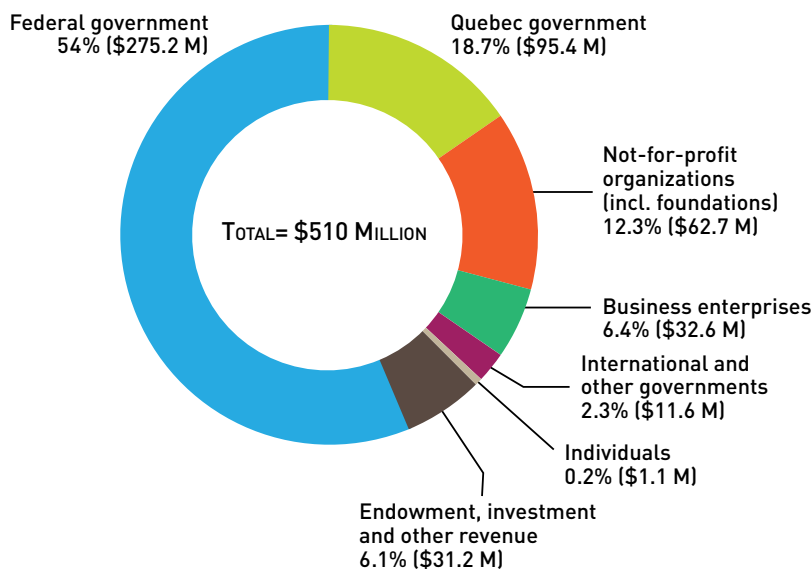
*Includes the McGill University Health Centre (MUHC), the Jewish General Hospital (Lady Davis Institute), the Jewish Rehabilitation Hospital, the Shriners Hospital, the Douglas Hospital, and St. Mary's Hospital Center.

OUTSTANDING RESEARCH

- ▶ **\$510 MILLION** AWARDED IN RESEARCH FUNDING IN 2010-11 (MCGILL AND AFFILIATED HOSPITALS)
- ▶ **163** GOVERNMENT- AND INDUSTRY-SPONSORED RESEARCH CONTRACTS VALUED AT **OVER \$17.5 MILLION** IN 2011-12 (NOT INCLUDING AFFILIATED HOSPITALS)
- ▶ **19** LICENCES AND OPTIONS TO LICENSE GRANTED TO THE PRIVATE SECTOR IN 2011-12, FOR A CUMULATIVE TOTAL OF **175** ACTIVE LICENCES
- ▶ **ONE OF THE LARGEST** PATENT PORTFOLIOS AMONG CANADIAN UNIVERSITIES. IN 2011-12, **38** NATIONAL AND INTERNATIONAL PATENTS WERE GRANTED TO MCGILL. **#1 IN CANADA** FOR U.S. PATENTS GRANTED IN 2010
- ▶ **#1 FOR PUBLICATION IMPACT** AMONG CANADA'S RESEARCH UNIVERSITIES (RESEARCH INFOSOURCE 2011)

2010-11 RESEARCH FUNDING (INCLUDING AFFILIATED HOSPITALS*)

SOURCE: CAUBO

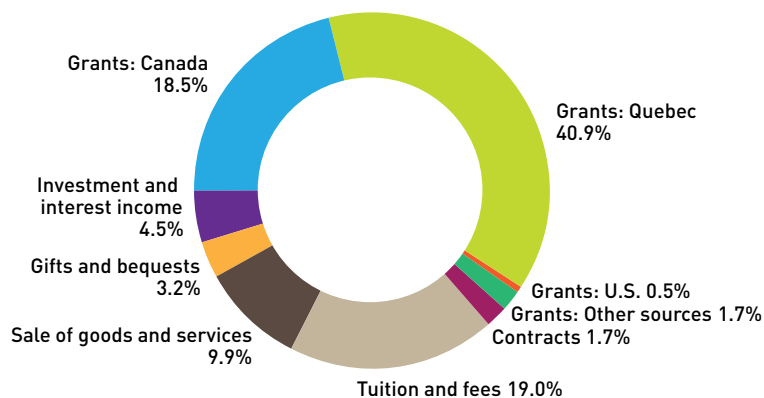


Fact Book

FINANCE & ADMINISTRATION

FINANCIAL HIGHLIGHTS 2011-2012 (IN THOUSANDS OF DOLLARS)

Grants	
Canada	210,912
Quebec	467,118
United States	6,312
Other sources	19,772
Contracts	20,057
Tuition and fees	217,133
Sale of goods and services	111,326
Gifts and bequests	37,067
Investment and interest income	51,611
TOTAL REVENUE	1,141,308



STUDENT FINANCIAL SUPPORT

- ▶ IN FIVE YEARS, STUDENT AID FROM MCGILL'S OPERATING BUDGET HAS INCREASED MORE THAN **FIVE-FOLD**. MUCH OF THE FUNDING HAS COME FROM CONTRIBUTING 30% OF NET NEW TUITION INCREASES INTO STUDENT AID

TOTAL STUDENT ASSISTANCE FROM OPERATING FUND (\$ MILLIONS)



Fact Book

RANKINGS

TOP 20 UNIVERSITIES - 2011 QS WORLD UNIVERSITY RANKINGS

2011 RANK	2010 RANK	INSTITUTION	OVERALL SCORE
1	1	University of Cambridge	100
2	2	Harvard University	99.3
3	5	Massachusetts Institute of Technology	99.2
4	3	Yale University	98.8
5	6	University of Oxford	98.0
6	7	Imperial College London	97.6
7	4	UCL (University College London)	97.3
8	8	University of Chicago	96.1
9	12	University of Pennsylvania	95.7
10	11	Columbia University	95.3
11	13	Stanford University	93.4
12	9	California Institute of Technology	93.0
13	10	Princeton University	91.9
14	15	University of Michigan	91.3
15	16	Cornell University	90.7
16	17	Johns Hopkins University	90.0
17	19	McGill University	89.6
18	18	ETH Zurich (Swiss Federal Institute of Technology)	89.5
19	14	Duke University	89.3
20	22	University of Edinburgh	88.6

QS 2012 SUBJECT RANKINGS MCGILL'S WORLD RANK FOR SUBJECTS IN TOP 25

SUBJECT	RANK
Communication and Media Studies	18
Education	25
English Language and Literature	19
Geography	Tied 18
Law	20
Linguistics	Tied 17
Medicine	19
Modern Languages	Tied 20
Philosophy	24
Psychology	18

Note: The 2011 QS World University Rankings are produced in association with Scopus, the Elsevier database of bibliometric data and U.S. News & World Report. The methodology employed in the 2011 QS World University Rankings is consistent with the former THE-QS ranking. Indicators include academic peer and employer review; international academic staff and student numbers; staff/student ratios and citations per staff.

Fact Book

RANKINGS

TIMES HIGHER EDUCATION 2011 WORLD UNIVERSITY RANKINGS

RANK	INSTITUTION	OVERALL SCORE
1	California Institute of Technology	94.8
2	Harvard University	93.9
2	Stanford University	93.9
4	University of Oxford	93.6
5	Princeton University	92.9
6	University of Cambridge	92.4
7	Massachusetts Institute of Technology	92.3
8	Imperial College London	90.7
9	University of Chicago	90.2
10	University of California, Berkeley	89.8
11	Yale University	89.1
12	Columbia University	87.5
13	University of California, Los Angeles	87.3
14	Johns Hopkins University	85.8
15	ETH Zurich - Swiss Federal Institute of Technology Zurich	85.0
16	University of Pennsylvania	84.9
17	University College London	83.2
18	University of Michigan	82.8
19	University of Toronto	81.6
20	Cornell University	80.5
...
28	McGill University	75.5

SHANGHAI ACADEMIC RANKING OF WORLD UNIVERSITIES

- ▶ MCGILL RANKED **63RD** IN 2011 AND ONE OF ONLY FOUR CANADIAN UNIVERSITIES IN THE TOP 100.
- ▶ THE SHANGHAI RANKING LOOKS AT CITATIONS, PUBLICATIONS IN CERTAIN JOURNALS AND SUCCESS OF ALUMNI AND ACADEMIC STAFF IN WINNING NOBEL PRIZES AND FIELD MEDALS.

#1 IN MACLEAN'S SEVEN YEARS RUNNING

- ▶ AGAIN IN 2011, MACLEAN'S MAGAZINE RANKED MCGILL **FIRST** IN ITS MISSION CLASS – **MEDICAL- DOCTORAL CATEGORY** – FOR THE **SEVENTH** YEAR IN A ROW – IN ITS ANNUAL CANADIAN UNIVERSITY ISSUE. THE CATEGORY INCLUDES 15 CANADIAN UNIVERSITIES WITH MEDICAL SCHOOLS AND A BROAD RANGE OF DOCTORAL PROGRAMS.
- ▶ THE MACLEAN'S RANKING MEASURES A NUMBER OF ASPECTS OF A UNIVERSITY'S OPERATION. MCGILL WAS A **LEADER** IN A NUMBER OF AREAS, INCLUDING:
 - ▶ FIRST IN STUDENT AWARDS FOR THE 13TH CONSECUTIVE YEAR
 - ▶ FIRST IN SCHOLARSHIPS AND BURSARIES AS A PERCENTAGE OF BUDGET
 - ▶ FIRST IN REPUTATIONAL SURVEY

Leadership 2011-12

SENIOR ADMINISTRATION

PRINCIPAL AND VICE-CHANCELLOR
Heather Munroe-Blum

PROVOST
Anthony C. Masi

SECRETARY-GENERAL
Stephen Strophe

**VICE-PRINCIPAL
(ADMINISTRATION AND FINANCE)**
Michael Di Grappa

**VICE-PRINCIPAL
(RESEARCH AND INTERNATIONAL
RELATIONS)**
Rose Goldstein *

VICE-PRINCIPAL (HEALTH AFFAIRS)
David H. Eidelman *

VICE-PRINCIPAL (EXTERNAL RELATIONS)
Olivier Marcil

**VICE-PRINCIPAL (DEVELOPMENT AND
ALUMNI RELATIONS)**
Marc L. Weinstein *

**DEPUTY PROVOST, STUDENT LIFE
AND LEARNING**
Morton J. Mendelson *

**GENERAL COUNSEL AND
DIRECTOR OF LEGAL SERVICES**
Line Thibault

**EXECUTIVE DIRECTOR, PLANNING
AND INSTITUTIONAL ANALYSIS, AND
SENIOR ADVISOR (POLICY DEVELOPMENT)**
Pierre Moreau *

**CHIEF OF STAFF, OFFICE OF THE
PRINCIPAL AND VICE-CHANCELLOR**
Susan Aberman

DEANS

**AGRICULTURAL AND
ENVIRONMENTAL SCIENCES**
Chandra Madramootoo *

ARTS
Christopher Manfredi *

CONTINUING STUDIES
Judith Potter

DENTISTRY
Paul Allison *

EDUCATION
Hélène Perrault

ENGINEERING
Christophe Pierre/Andrew Kirk (interim)

**GRADUATE AND
POSTDOCTORAL STUDIES**
Martin Kreiswirth

LAW
Daniel Jutras

LIBRARIES
Colleen Cook

**DESAUTELS FACULTY OF
MANAGEMENT**
Peter Todd *

MEDICINE
David H. Eidelman *

SCHULICH SCHOOL OF MUSIC
Sean A. Ferguson *

RELIGIOUS STUDIES
Ellen B. Aitken

SCIENCE
Martin Grant

STUDENTS
Jane Everett *

BOARD OF GOVERNORS

CHANCELLOR
H. Arnold Steinberg *

**PRINCIPAL AND
VICE-CHANCELLOR**
Heather Munroe-Blum

SECRETARY-GENERAL
Stephen Strophe

MEMBERS-AT-LARGE
Michael Boychuk *
Gerald Butts *
Stuart (Kip) Cobbett, Chair *
Peter Coughlin
Lili de Grandpré, Vice-Chair *
Kathy Fazel *
Claude Génereux *
Samuel Minzberg *
Martine Turcotte *
Thierry Vandal

**ALUMNI ASSOCIATION
REPRESENTATIVES**
Morna Flood Consedine *
Cynthia Price *
Ann Vroom *

ACADEMIC STAFF REPRESENTATIVES
Kenneth Hastings *
Amir Raz

**ADMINISTRATIVE AND SUPPORT
STAFF REPRESENTATIVES**
Ron Critchley
David Kalant *

SENATE REPRESENTATIVES
David N. Harpp
Gary Pekeles *

STUDENT REPRESENTATIVES (to Aug. 31, 2012)
Maggie Knight (Students' Society of McGill
University) *
Roland Nassim (Post Graduate Students' Society)

STUDENT OBSERVERS (to Aug. 31, 2012)
Audrey Hasagewa (Macdonald Campus Stu-
dents' Society)
Nadia Hourri (McGill Association of Continuing
Education Students) *

* Graduate of McGill

Senate 2011/2012

EX OFFICIO

The Chancellor
The Chair and three members of the Board of Governors
The Principal and Vice-Chancellor
The Vice-Principals
The Provost
The Deputy Provost
The Deans

SECRETARY-GENERAL

Stephen Strople

ELECTED ACADEMIC MEMBERS

FACULTY OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Brian Driscoll
Ashraf Ismail*
Mark Lefsrud
Michael Ngadi

FACULTY OF ARTS

Darin Barney
Brian Cowan
John Galaty
Brendan Gillon
Allen Hepburn
Juliet Johnson
Wilbur Jonsson
John Kurien
Lydia White*

FACULTY OF DENTISTRY

Ji Zhang

FACULTY OF EDUCATION

Jamshid Beheshti
Kevin McDonough
Caroline Riches*
Ada Sinacore

FACULTY OF ENGINEERING

David Covo*
Richard Leask
David Lowther
Arun Misra

FACULTY OF LAW

Richard Gold
Richard Janda*

DESAUTELS FACULTY OF MANAGEMENT

Hamid Etemad
Leslie Breitner

FACULTY OF MEDICINE

Daniel Bernard
James Brophy*
Serge Carrier
Renzo Cecere*
Claudio Cuello
Elaine Doucette
Kalle Gehring
Laura Gonnerman
Terence Hebert
Gary Pekeles*
Melvin Schloss
Christina Wolfson*
Edith Zorychta*

SCHULICH SCHOOL OF MUSIC

Kyoko Hashimoto
Joel Wapnick

FACULTY OF RELIGIOUS STUDIES

Torrance Kirby

FACULTY OF SCIENCE

Gregory Dudek
Charles Gale*
John Gyakum
Peter Grütter
David Harpp
Jacques Hurtubise
Andrew Hynes
Bruce Lennox
Nigel Roulet

UNIVERSITY LIBRARIES

Daniel Boyer*
Joan Hobbins*
Marc Richard*

ELECTED ADMINISTRATIVE AND SUPPORT STAFF

Gregg Blachford
Ruth Kuzaitis
Mary Jo McCullough
Mark Michaud
Kathryn Peterson
Honora Shaughnessy*

ELECTED STUDENT MEMBERS

STUDENTS' SOCIETY OF MCGILL UNIVERSITY

Maggie Knight (SSMU President)*
Emily Yee Clare (SSMU VP University Affairs)*
Matthew Crawford (Arts)*
Jason Leung (Arts)
Kady Paterson (Education)
Usman Bin Shahid (Engineering)
Ian Clarke (Law)
Tom Acker (Management)
Mahmoud Almasri (Medicine)
Emil Briones (Music)
Haley Dinell (Religious Studies)
Max Luke (Science)
Annie Ma (Science)

MCGILL ASSOCIATION OF CONTINUING EDUCATION STUDENTS

Isabel Vivas
Eric Laverdiere

MACDONALD COLLEGE STUDENTS' ASSOCIATION

Alex Pritz

POST-GRADUATE STUDENTS' SOCIETY

Adam Bouchard*
Lily Han*
Roland Nassim

MEDICAL RESIDENT GROUP OR POSTDOCTORAL SCHOLAR

Ziad El-Khatib

* Graduate of McGill



THE FULL-PAGE PORTRAITS were taken by Montreal-based photographer Richmond Lam.

ADDITIONAL PHOTO CREDITS: The Association of Universities and Colleges of Canada (AUCC), Owen Egan, John Kelsey, Lysanne Larose, The McGill Varsity Council, McGill Athletics and Recreation, Mia Morisset, Nicolas Morin and Michael Woloschuk.

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The *Principal's Report 2011-2012* looks at the conversations that are the heart of McGill University. Whether it's a deep discussion in a lecture hall, or an impromptu meeting between colleagues in a hallway, our campuses thrive on the exchange of diverse ideas and opinions. Some of those conversations, like the one between JENNY ADDESA (left) and MICKIE GUERRERA (right), seen here with Principal HEATHER MUNROE-BLUM, have even gone on for decades. Jenny was an 8-year McGill veteran when she met "new kid" Mickie. That was 22 years ago. Their jobs have changed over the years—today Jenny is the Communications & External Relations financial officer and Mickie is the senior administrative assistant for Graduate and PostDoctoral Studies—but their friendship at, and outside of, McGill has been a constant. "We're always bouncing work ideas off each other," says Mickie, "and talking about home life, our kids. Jenny is one of my dearest friends."

DOWNTOWN CAMPUS
MACDONALD CAMPUS
CONTACT

845 Sherbrooke Street West, Montreal, Quebec, Canada H3A 0G4
21111 Lakeshore Road, Ste. Anne de Bellevue, Quebec, Canada H9X 3V9
info.communications@mcgill.ca



www.mcgill.ca



McGill