
1st IN QUEBEC. Université de Montréal, together with its affiliated schools, HEC Montréal and École Polytechnique, is Québec’s foremost teaching and research hub in terms of student enrollment, teaching staff and the volume of research activities.

2nd IN CANADA. Université de Montréal serves the second largest student body in the country and ranks fourth for research among Canadian universities according to Re$earch Infosource.

107th IN THE WORLD. In 2009, the Times Higher Education ranked Université de Montréal 107th among the top universities in the world, up 74 spots since 2006.
The work of an entire community has helped the Université de Montréal rise to the top and form, with its two affiliated schools and university hospitals, a complex of extraordinary national and international scope.

In 2009, the Université de Montréal and its affiliated schools, the École Polytechnique and HEC Montréal, affirmed their position as the national leader in scientific research by obtaining the second largest grant in Canada and the largest in Quebec from the Canada Foundation for Innovation and the Government of Quebec. By emphasizing research as the basis for its development, the University is constantly contributing momentum and new ideas to Quebec society. Our community knows that research leads to measurable increases in GDP, employment and quality of life, and we are very proud of this.

These achievements are the result of sustained and unerring effort. They reflect our exceptional ability to establish new networks and lead collaboration between researchers from here and abroad. When our astrophysicists demonstrate the existence of exoplanets, our Mauricie campus trains family physicians for the regions, and our researchers in the humanities distinguish themselves on the international stage, that is our community’s talent at work.

Since 2005, under the rectorship of Luc Vinet, the UdeM has put its strengths to good use and clearly demonstrated the importance it assigns to research as the keystone of society’s development. Host to two centres of excellence in commercialization and research, it inaugurated its Pharmacogenomics Centre and built the most modern university veterinary hospital in Canada. During that time, the University also carried out a Biodiversity Centre project and established the School of Public Health.

The Université de Montréal is more popular than ever! This year, together with its affiliated schools, HEC Montréal and the École Polytechnique, it has a record number of students: nearly 60,000 people who, one by one, chose the University as the place to continue their studies, certain that the Université de Montréal is where they would find the best environment to learn and grow in. This sign of trust delights us, because it attests to the University’s reputation for excellence and confers upon us a responsibility that we fully appreciate.

The Université de Montréal has educated the major share of Quebec’s highly skilled workforce and plays a central role in our society’s socio-economic and cultural development. Since 2000, the number of UdeM students having earned a degree has increased by 26%. Our growing ability to attract international students, whose number has nearly doubled since 2005, reflects the standing of our professors and programs. Close to 15,000 of our students were studying at the graduate levels this year, which puts the UdeM at the top of Quebec’s university network. In 2009, 421 doctorates were awarded, a record in the University’s 132 year history!

The Université de Montréal is also more creative than ever! I am particularly pleased with the growth in the research grants obtained by the UdeM and its affiliated institutions in recent years. In 2009, we were awarded close to $130 million in grants, representing 12% of the Canadian total, through the competitions held by the Canada Foundation for Innovation. The UdeM enables Quebec to obtain a significant portion of federal research funding and contributes greatly to making Montreal the research capital of Canada.

The year 2009 offered a wealth of occasions for us to celebrate. In September, with representatives from the three levels of government in attendance, we officially marked the start of work in Outremont. This project holds our university’s future and gives it an opportunity to create a new paradigm in university campus design.

We also inaugurated the UdeM campus in the Mauricie region and launched the construction of the Cité du Savoir de Laval. Then, in rapid succession, we announced the creation of the Parc du 3e sommet, the founding of the Biodiversity Centre in partnership with the Montreal Botanical Garden, and the construction of the Complexe de diagnostic vétérinaire et d’épidémiologie in Saint-Hyacinthe.

Last year, the Université de Montréal, HEC Montréal and the École Polytechnique set up a joint fundraising campaign plan that, I am quite certain, will draw strong interest. Also in 2009, following the group presentations by the 13 major research universities in Canada, with the UdeM among them, the federal government implemented the knowledge infrastructure program.

Considering the strain that Quebec’s universities are under, the Université de Montréal’s achievements are all the more impressive. They are the result of drive, determination and a tradition of quality. This June, Guy Breton will become the University’s rector, a successor who is extremely dedicated to the University, knows it intimately and has a keen understanding of its role, its potential and its future. The 2010 decade, already underway as these lines are written, will see our university achieve everything that its current success allows us to hope for. Those who are acquainted with the University will watch its rise with a knowing smile. Those who are not yet acquainted with the University will want to get to know it. I say to all believers, both old and new, in what the University can do, let’s go the distance together!
In June, Daniel Carpentier will become a Doctor of Medical Dentistry. Highly involved in faculty life, he is the President of the Association des étudiants en médecine dentaire de l’Université de Montréal. He served as co-chair of the organizing committee of the International Dental Student Conference held in January 2009.

“We have a term in my field for describing a person’s awareness of oral health: dental IQ. The more seriously the patient takes dental hygiene, the higher their dental IQ. It’s just a figure of speech, not an actual measure, but it’s still a concept with value. In the past few decades, the dental IQ of Quebeckers has improved dramatically. Today, we no longer fear a visit to the dentist. More and more patients understand that a healthy lifestyle and dental health are directly connected and that it’s possible to keep one’s teeth for life.

In both care and treatment, technology—which has always played a role in our profession—will continue to evolve, sometimes at a very accelerated pace. Over the next 15 years, the use of digital radiology that allows much sharper image resolution and reduces exposure to radiation will have made its way into all dental clinics. In the area of surgery, we will see dental implantology become both more popular and more affordable. New discoveries will likely enable us to use stem cells to regenerate teeth. Exams will increasingly be carried out online, providing greater access for people in remote regions. I also anticipate more collaboration and cooperation among dentists, resulting in clinics that are better equipped to meet the needs of the population. And the best part? We will stop associating the dentist’s chair with pain, as new advances will have eliminated that pain—or almost!”

Just a few months before UdeM created the first Ph.D. program in Cinema Studies in Canada, Viva Paci was already a pioneering figure when she defended her dissertation in Comparative Literature with an option in Cinema. She is a member of two major research groups and has co-authored a book on filmmaker Chris Marker.

“Since the 1950s, the death of cinema has been proclaimed countless times. Successive threats have come from television, video production, digital technology and, more recently, peer-to-peer file sharing. Nevertheless, cinema is alive and well. It changes structure, it changes form, it becomes portable cinema, we carry it with us and it follows us in our evolution. At the same time, we also follow it by continuing to frequent movie theatres. The screening room, the original cinematic experience, has a bright future ahead of it; the general public will still be going to darkened theatres in 2030.

The public screening is a group ritual. It will continue to attract people because it gives them the opportunity to go out, fits a precise schedule and generates a sense of empowerment. The images projected on screen are larger than life. Miniature devices have their place, but the movie theatre experience will always be here. We may be able to hold a film in the palm of our hands, but in the theatre, it’s the film that has a hold on us.

What films will we have to choose from? All signs seem to point to the spectacular, the blockbuster with its special effects. These are the films that are watched the most on smartphones and portable electronics. On the other hand, there’s reason to believe that it will be much easier in 15 or 20 years to have online access to films and world cinema that are not part of the mainstream film distribution industry.”
Diane Lamarre teaches in the Faculty of Pharmacy and is the President of the Ordre des pharmaciens du Québec since 2009. She is also President of Pharmacists Without Borders-Canada. Lamarre has become a familiar face to the public through her role as a commentator on the television program RDI-Santé.

“Pharmacists are front-line professionals. When we don’t feel well, when we’re concerned about a health issue, we talk to our pharmacist, something we saw in the recent H1N1 pandemic. In the future, this community role will develop even further. Pharmacists will devote more time to patients, delegating the distribution of medication to technicians, and in certain cases even robots. Of course, pharmacists will continue to be responsible for monitoring prescriptions. They will ensure increased oversight, compare the results of a treatment with specific targets and make any necessary adjustments. They will also play a key role in providing pharmacogenomic services, which will make it possible for medication to be tailored to the individual.

As the population ages, pharmacists will visit people’s homes and seniors’ residences more and more. Their role will be central to the evaluation and monitoring of increasingly complex drug therapies. They will help us achieve our health objectives by continuing to take into account biopsychosocial factors as they do today. We will also see pharmacists play a greater role in hospitals. Only 30% of Quebec emergency rooms currently offer the services of a pharmacist, yet several studies have shown that the presence of a pharmacist in patient care units results in fewer deaths, shorter hospital stays and reduced complications. In 2025, 100% of our ERs will have a pharmacist. We are part of the solution!”

Professor and researcher Roch Chouinard is Associate Dean in the Faculty of Education. In his research, he is particularly interested in the development of academic motivation among children and adolescents.

“Homework has been the subject of debate for more than 100 years. If the past is any indication of the future, homework and after-school lessons will continue to spark controversy in tomorrow’s society. I am not one of those who believe they will gradually disappear. I am in favour of homework, insofar as it is reasonable and satisfies the school’s mission of instruction, qualification and socialization. It has been shown that homework results in gains in cognitive and social abilities. One thing is certain: frequent but short homework assignments are preferable to long assignments.

Over the next quarter century, I think homework is going to evolve in several ways. For instance, we believe the supervision of homework by family members will become less prevalent. With parents often unable to provide help because of work obligations or limited knowledge, students will use remote access to receive help from local and national community organizations. This trend is already well underway and will become even more widespread. The use of the Internet should greatly encourage these kinds of initiatives. One notable example is the Allô Prof program, which features call-in help, online chatting, a virtual library and YouTube clips. Another development will be in the content of homework. Keeping pace with changes in the educational system, it will focus more on critical thinking and problem-solving, as well as real-world scenarios.”

*A GROUP OF TERTIARY STRUCTURES FROM THE P4-P6 DOMAIN OF A GROUP I INTRON. SOURCE: INSTITUTE FOR RESEARCH IN IMMUNOLOGY AND CANCER. IMMUNOFLUORESCENCE ON A GIANT CELL OBTAINED AFTER LOSS OF FUNCTION OF A GENE INVOLVED IN CELLULAR DIVISION. SOURCE: FACULTY OF MEDICINE.*
Last October, Kim Deschênes scored the first goal in the history of the Carabins women’s hockey team. The young offensive player from Saint-Quentin, New Brunswick, is currently completing a 120-credit bachelor’s degree and intends to continue in the Security and Police Studies program.

“When I was a little girl in Acadia, I played on a boys’ hockey team. I was the only girl and got teased a lot. At one point, it even made me give up team sports. Today more mixed teams and girls’ teams are being organized. Around the world, hockey among girls has risen by 350% in the last ten years!

In the coming years, the profile of women’s hockey will increase considerably. Already, I am seeing more young girls going to hockey camps to learn how to play better, and I’m also seeing bigger, more enthusiastic crowds at women’s hockey games. I believe that scholarships for female hockey players will soon be more substantial and begin to approach the amounts awarded in men’s programs. The more the game evolves, the more people will see how women’s hockey is a great game to watch, distinct from the men’s game. Passing and speed are the main elements, and roughing plays much less of a role. It’s my dream to participate in the 2014 Winter Olympics – a perfect opportunity to show off our sport. In the meantime, university is an excellent environment for developing this new vision of hockey. I’m pleased to be a part of the movement at UdeM, the only francophone university in Quebec to offer this opportunity for young women hockey players.”

David Ownby is a Professor in the Department of History and heads the Centre for East Asian Studies, home to Quebec’s largest collection of works on the Far East. The author of Falun Gong and the Future of China, Ownby is a China specialist who has spent years studying this country called Zhongguo – the centre of the world – by its 1.3 billion inhabitants.

“In 2025, millions of Westerners will have bought a car from the Chinese manufacturer Chery. In 2050, there will be more cars in China than in all regions of the world combined. But China’s future is not solely limited to industry. China will transcend its status of workshop of the planet. The Chinese civil servants I meet are highly informed. Fueled by new think tanks, they have examined the most advanced approaches overseas. China has invested massively in education and infrastructure. The new universities that I have visited are large, beautiful and equipped with the best technology.

These developments can only precipitate China into becoming an open society. As it stands, China still has trouble interacting with the world and tends to isolate itself with respect to domestic issues. It will still try to separate economic freedom and political freedom, but this is becoming increasingly difficult. The communication strategy of the ‘haomousociety,’ the rehabilitation of Confucius, and a certain enlightened despotism professing kindness and competence will not be sufficient to quench the thirst for openness and rights, or to dispel legitimate questions regarding Tibet and minorities. Barring a major crisis, the change should occur without revolution or civil war. After all, the Chinese showed a satisfaction rate of more than 80% when the Pew Research Center polled them recently on the direction being taken by their country.”

The China of Tomorrow

Hockey of Tomorrow
René Doyon is an Associate Professor in the Department of Physics, a researcher with the Centre de recherche en astrophysique du Québec, and the Director of the Mont-Mégantic Observatory. In 2008, he was part of a team that captured images of a planetary system other than ours for the first time.

“The discovery of planets is going to become routine. A new detection method using differential imagery developed by my students, astronomers Christian Marois and David Lafrenière, has improved our abilities by a factor of 100. Because we have to compensate for the light emitted by the stars, I compare the approach to proving the presence of a firefly in a headlight.

The development of new telescopes will only boost the frequency of discoveries. The descendant of Hubble, the James Webb Space Telescope, will be launched into an orbit 1.5 million kilometres from Earth around 2014. I am in charge of the installation of an infrared camera inside the telescope for Canada. My colleague John Hutchings in Victoria is developing an ultra-precise guidance system. On Earth, the Gemini Planet Imager will start working in 2011. We also expect a giant telescope to be built in Hawaii or Chile – locations with high altitudes for astronomical observation. The question that excites many researchers is whether we will find some small terrestrial planet that is long past its gaseous stage. With the James Webb telescope, we will be able to detect, through inference, new terrestrial planets. It’s reasonable to believe that in the next 25 years we will discover several planets of this type. Will they resemble our planet Earth? One thing is for sure: all eyes are on the universe.”

Philippe Lavallée is part of the first cohort of graduating doctoral students in medicine trained on the UdeM campus in the Mauricie region. Inaugurated in 2004, the Centre de formation médicale en Mauricie is the only satellite campus offering a complete program in medicine.

“The outlook for the future of regional medicine is very good. I am thinking specifically of regional family medicine which, in my opinion, will undergo huge changes over the next 20 years. A new generation is discovering family medicine and feels drawn to the dynamics of smaller urban centres. These young physicians are taking note of the quality of life on offer in the regions and they appreciate the autonomy, simplicity and sense of community associated with a family medical practice. They are welcomed with open arms by regional hospitals and patients develop a strong bond with their physicians.

Training students outside of large urban centres stimulates their interest in the regions. Building a UdeM campus in the Mauricie is a perfect illustration of this. By 2025, I think our campus will be bursting with activity. We will likely have built up new infrastructure and resources to complement those inaugurated by the University in October 2009, and our student body will have doubled or even tripled. Over the next few years, we will also see growth in medical co-operators, which have been around for some time in certain towns. This system lightens the administrative workload of doctors considerably and enables them to focus entirely on the health of their patients. In my opinion, medical training in the regions offers so much value and is a great way to enhance the quality of life there. Paired with initiatives like the co-op system, it will create the perfect conditions for the renewal of health services outside of the major urban centres. It’s already underway.”
Organic Electronics of Tomorrow

Chemist Clara Santano is an Assistant Professor in the Engineering Physics Department of the École Polytechnique de Montréal. Much of her research is carried out in an interdisciplinary setting with other researchers from UdeM.

“I’m passionate about organic electronics. At first glance, these two terms may seem incompatible, but in reality, they aren’t. Together they have a bright future. Organic molecules, which chemically we refer to as ‘conjugated’, can actually have electrical conduction properties, a little like semi-conductors such as silicon. Thin layers of these molecules can be safely applied to delicate surfaces or even to tissues and flexible materials. We can attach these layers at room temperature, using methods in solution. Thin layers of organic semi-conductors are the subject of research aiming to create photovoltaic captors. I’m thinking here of very thin layers, barely 50 nanometres, that will be able to follow the curve of a bag and discreetly recharge our MP3 player. They will be so flexible that they will be able to be rolled up as easily as a yoga mat. To understand how these thin layers work, they need to be studied on a nanoscale. This requires many areas of expertise, including chemistry, solid-state physics, spectroscopy and materials science.

Twice a month, researchers from UdeM and the École Polytechnique meet at Pavillon J.-Armand-Bombardier for something we like to call ‘Nanolunch.’ It’s a great opportunity for me to hear about developments in areas like photophysics and charge transport in organic materials. One of my dreams for the future? I would like to explore the potential of biomolecules in organic electronics. For example, why couldn’t there be an application in electronics for melanin, the pigment that colours our skin?”

Philanthropy of Tomorrow

In 2009, Marie-Paule Chevrier established an endowed fund in memory of her father, Jean-Marc Chevrier, the founder of the Institut de recherches psychologiques and professor at UdeM between 1950 and 1962. The fund’s first $5,000 scholarship was awarded in October to Sébastien Gaumont, a Ph.D. student in the Department of Psychology.

“I created this endowment to support research. Like my father, who died in 1998, I believe that research is a vital activity: we can never have enough knowledge. This is something I learned in the 30 years I worked with him at the Institut de recherches psychologiques. I witnessed his dedication and commitment to research and this fund is a way of honouring his approach to his work.

The Fonds Jean-Marc Chevrier – Institut de recherches psychologiques will continue to do this for years to come. It brings me great pleasure to think of how the fund will support a researcher in psychology each year. Some of these future researchers are today only children – others are not yet born. I may not be able to imagine what their future research topics might be, but I do know the scholarships will help them to achieve their goals. Doctoral studies demand hard work and patience. These awards may not guarantee success, but they provide the support for students to focus their energy on what matters.

UdeM understands the importance of student financial aid. It is one of the few universities to earmark 1.5% of its operating budget for scholarship programs. Its community of donors, of which I am a proud member, is becoming increasingly active in this capacity as well. This combined support allows UdeM to excel intellectually, culturally and scientifically.”
Caroline Traube is a Professor in the Faculty of Music and heads the Laboratoire d’informatique, acoustique et musique of UdeM (LIAM). An engineer specializing in telecommunications, she has studied music, engineering and music technology in Belgium and at Stanford University.

“As a musicologist, exploring music using science is one of the approaches I find most interesting. This is LIAM’s mission. We explore the physics of sound, its mathematical dimension, and observe how the auditory system perceives the acoustic parameters of pitch, intensity and timbre. Our research is part of a new and multidisciplinary musicology, bred by computer science, acoustics, linguistics and psychology.

The musicologist of tomorrow will be better equipped to analyze the work of composers. For example, computer-assisted musical analysis will be possible thanks to the digitization and automatic encoding of musical scores. Another future path for musicology will include the contributions being made by neuroscience to our understanding of the creative processes involved in composition. And at the same time that we study the work of composers of instrumental and electroacoustic music, we will be part of a rapid evolution in the study of interpretation, which today remains largely unexplored. For example, I imagine classrooms equipped with sensor systems designed to record and analyze a musician’s every gesture, where we can explore what makes a musical interpretation successful, what makes it brilliant, what produces its distinct sound. This research will enrich the field of musicology and will help immensely in the teaching of music. To the joy of musicologists everywhere, I foresee new musical instruments emerging and becoming popular: electronically enhanced versions such as the metasaxophone and the hyperflute, not to mention entirely new digital audio instruments. All we need to do now is open our minds and our ears!”

Movement holds no secrets for Marie-Ève Mathieu, Assistant Professor in the Department of Kinesiology. In 2009, the young researcher integrated the CHU Sainte-Justine Research Centre team.

“A kinesiologist is a health professional and physical activity specialist who uses movement for the purposes of injury prevention, treatment and performance. The profession is only 10 years old, but the benefits of kinesiology have earned it high praise in other disciplines and have caught the public’s attention. Over the next quarter century, kinesiologists will become a normal, even essential, part of our communities. We’ll see them playing a key role in hospitals, CLSCs and the workplace, and they will be actively involved in developing government policy as well. They will continue to ensure the success of high-level athletes and will be advisors to a large number of the people in exercise programs. Amateur and more seasoned athletes, the parents of athletes – everyone will be asking more questions about the credentials of the people who provide training programs. The kinesiology degree will be regarded as a seal of quality and reliability, and the market – which has long been left to its own devices – will be cleaned up. One of our main challenges in the next few years will be to make sedentary lifestyles a thing of the past. The world we live in makes it easy for us to avoid physical activity. The car, the computer and the television are all things we’ll learn to use less of in everyday life, thanks to education and prevention. Forward-thinking programs that target young people are gradually being implemented. Active transportation and public transportation initiatives are growing. We’re on the move!”
The CEPSUM sports centre will be getting new outdoor playing fields with the installation of a new synthetic surface on grounds along Avenue Vincent-d'Indy, across from the stadium. A partnership agreement with the borough of Outremont means these new facilities will be accessible to the residents of the surrounding community as well. Renovation work will also be carried out in the sports centre itself. All these improvements have been made possible thanks to provincial and federal government funding.

**MORE SPACE FOR ATHLETES**

The Rhodes Scholarships were created over a century ago upon the death of British diamond magnate and statesman Cecil Rhodes, and every year the program gives two young researchers from Quebec the opportunity to study at the prestigious University of Oxford. Julien Gagnon, a student in the Department of Economics, was awarded one of the two scholarships valued at $30,000. A master’s student studying the economics of international development, Julien intends to do a second master’s degree at Oxford focusing on international development and institutions. Some notable past recipients of this scholarship include Charles Marius Barbeau, Paul Génin-Laforge, Charles Taylor and Marcel Massé.

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**MORE SPACE FOR ATHLETES**

The Rhodes Scholarships were created over a century ago upon the death of British diamond magnate and statesman Cecil Rhodes, and every year the program gives two young researchers from Quebec the opportunity to study at the prestigious University of Oxford. Julien Gagnon, a student in the Department of Economics, was awarded one of the two scholarships valued at $30,000. A master’s student studying the economics of international development, Julien intends to do a second master’s degree at Oxford focusing on international development and institutions. Some notable past recipients of this scholarship include Charles Marius Barbeau, Paul Génin-Laforge, Charles Taylor and Marcel Massé.

**OUR RHODES SCHOLAR**

The CEPSUM sports centre will be getting new outdoor playing fields with the installation of a new synthetic surface on grounds along Avenue Vincent-d’Indy, across from the stadium. A partnership agreement with the borough of Outremont means these new facilities will be accessible to the residents of the surrounding community as well. Renovation work will also be carried out in the sports centre itself. All these improvements have been made possible thanks to provincial and federal government funding.
The University awarded an honorary doctorate to singer Charles Aznavour in recognition of his exceptional contribution to francophone culture.

Mr. Aznavour, whose son studied at UdeM for 10 years, was very moved by the honour. In addition to enjoying a hugely successful career as a singer for more than 60 years, Aznavour has also made his mark on the world of film as an actor. As a humanitarian, he has devoted himself to helping the Armenian people in the wake of the 1988 earthquake.

2009 was the year of Darwin, with celebrations around the world marking his 200th birth- day and the 150th anniversary of the publication of his landmark book, *On the Origin of Species*. The University and its newspaper, *Forum*, joined in those celebrations with the help of many experts who explored how we view the world and our place in nature after Darwin. And who says that people today are indifferent to these kinds of questions? Certainly not the online community, who have clicked in record numbers on our special report on Darwin, available on the UdeM news portal.

The Prix du Québec is the highest distinction awarded by the Quebec government and this past November, four of the eleven awards for 2009 went to members of the Université de Montréal community. The awards are given in recognition of exceptional careers, and recipients included Professor Gilles Bibeau, Professor Monique C. Comnier, Professor Emeritus Otto Kuchel and UdeM Rector Luc Vinet.

The University undertook to modernize its telephone system, information systems and online learning environment. The latter will allow UdeM to meet the needs of professors, researchers and students who need to share material remotely. Upgrading telephone and information systems will make all University work more efficient, from financial management to human resources to recruitment.

Last June, 27 doctoral students in medicine received their degrees after completing their medical training at UdeM’s campus in the Maurice. The Faculty of Medicine is the first in the country to offer a complete program based at a regional campus. The Faculty now also has its own teaching building at the Centre hospitalier régional de Trois-Rivières, a major partner in the project. The impact of the program has benefited the entire region, which has seen the shortage of medical staff curtailed faster than anticipated.

Olivier Daigle, a Ph.D. student in the Department of Physics, designed a digital imaging device that can amplify photons picked up by astronomical cameras. The most sensitive astronomical camera in the world attracted the attention of NASA, which will be the first space centre to acquire the system. Olivier Daigle worked under the supervision of Professor Claude Cañignan.

A crucial step was taken in September 2009 towards the revitalization of the Outremont rail yard when all three levels of government announced the allocation of funding for the first phase of the project. Dismantling the site’s existing railroad track marked the beginning of the transformation of the former industrial site, which Université de Montréal has owned since 2006. UdeM plans to build a new campus on the Outremont site in order to alleviate spacing needs on its main campus.

Four Prix du Québec were handed their degree parchments for completing their Philosophiae Doctor (Ph.D.), marking the largest number of Ph.D. graduates in the University’s history. In his tribute to the group, Rector Luc Vinet invited the graduates to take their place at the forefront of the world of ideas, both here and around the world. “You are Université de Montréal’s worthy representatives,” he reminded the remarkable group, who join a community of 260,000 UdeM alumni. In addition to the doctoral degrees, UdeM and its affiliated schools awarded 6,623 bachelor’s degrees and 3,470 master’s degrees during the 2008-2009 academic year, for a total of 10,514 degrees.

The celebrated astrophysicist received the Ordre du Mérite medal, the highest distinction awarded by Université de Montréal’s alumni association, for his remarkable contribution to research in stellar physics and for his talents as a scientific communicator. A 1953 graduate of the Department of Physics, Reeves has written more than 20 books that have helped us understand the major principles of astronomy and cosmology, and at the same time offer serious reflection on the problems generated by human activity.
**Sources of Income**

- Operating funds
  - 69% Operating grant
  - 14% Tuition fees
  - 17% Other income

**Distribution of Expenses**

- Operating funds
  - 64% Teaching and research
  - 12% Academic and research support services
  - 9% Facilities management
  - 6% Self-funded services
  - 6% Administration
  - 1% Scholarships
  - 1% Debt service
  - 1% Other

**Income Statement and Change in Fund Balances**

**As at May 31, 2009 ($ thousands of dollars)**

<table>
<thead>
<tr>
<th>Source of Income</th>
<th>Total Funds - UdeM and Affiliated Schools</th>
<th>2009</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenues</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grant from Quebec Ministry of Education, Recreation and Sport</td>
<td>$415,511</td>
<td>$388,459</td>
<td>18,137</td>
</tr>
<tr>
<td>Other government grants and contracts</td>
<td>-</td>
<td>-</td>
<td>122,680</td>
</tr>
<tr>
<td>Grants and contracts from other sources</td>
<td>-</td>
<td>-</td>
<td>61,332</td>
</tr>
<tr>
<td>Tuition fees</td>
<td>86,839</td>
<td>77,944</td>
<td>-</td>
</tr>
<tr>
<td>Student services</td>
<td>7,805</td>
<td>7,457</td>
<td>-</td>
</tr>
<tr>
<td>Physical education and sports centre</td>
<td>9,927</td>
<td>9,971</td>
<td>-</td>
</tr>
<tr>
<td>Ancillary services</td>
<td>22,751</td>
<td>22,213</td>
<td>-</td>
</tr>
<tr>
<td>Investment income</td>
<td>947</td>
<td>1,094</td>
<td>-</td>
</tr>
<tr>
<td>Donations</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Other income</td>
<td>40,124</td>
<td>36,499</td>
<td>85</td>
</tr>
<tr>
<td>External sales</td>
<td>15,249</td>
<td>14,280</td>
<td>1,438</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>599,153</td>
<td>557,917</td>
<td>203,587</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expense Category</th>
<th>Total Funds - UdeM and Affiliated Schools</th>
<th>2009</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teaching and research</td>
<td>385,421</td>
<td>371,773</td>
<td>191,784</td>
</tr>
<tr>
<td>Academic and research support services</td>
<td>72,893</td>
<td>64,895</td>
<td>-</td>
</tr>
<tr>
<td>Student services</td>
<td>7,223</td>
<td>7,132</td>
<td>2,626</td>
</tr>
<tr>
<td>Physical education and sports centre</td>
<td>10,533</td>
<td>10,459</td>
<td>-</td>
</tr>
<tr>
<td>Scholarships, graduate programs</td>
<td>8,628</td>
<td>7,734</td>
<td>28,398</td>
</tr>
<tr>
<td>Administration</td>
<td>36,527</td>
<td>33,379</td>
<td>-</td>
</tr>
<tr>
<td>Facilities management</td>
<td>57,420</td>
<td>53,404</td>
<td>-</td>
</tr>
<tr>
<td>Ancillary services</td>
<td>18,672</td>
<td>17,560</td>
<td>-</td>
</tr>
<tr>
<td>Debt service</td>
<td>2,539</td>
<td>4,764</td>
<td>-</td>
</tr>
<tr>
<td>Amortization of capital assets</td>
<td>-</td>
<td>-</td>
<td>39,011</td>
</tr>
<tr>
<td>Amortization of bond discount</td>
<td>-</td>
<td>-</td>
<td>64,920</td>
</tr>
<tr>
<td>Other contributions and allocations</td>
<td>4,627</td>
<td>4,425</td>
<td>-</td>
</tr>
<tr>
<td>Write-down of capital assets intended for sale</td>
<td>-</td>
<td>-</td>
<td>1,305</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>564,883</td>
<td>575,525</td>
<td>222,808</td>
</tr>
</tbody>
</table>

**Surplus (Shortfall) of Revenue over Expenses**

- Before the Following Items: $5,330 (17,608)
- Complaint settlement - Waige equity: $(1,317) (14,471)
- Unrealized gain (loss) in market value of investments: $(113) 253
- Gain (loss) in market value of derivative financial instruments: $(3,523) 179

**Surplus (Shortfall) of Revenue over Expenses**

- Beginning of Year: $(10,057) (31,647)
- Inter-fund transfers: $(1,516) 428
- **Total** | $(119,072) $(127,499) | $207,308 | $218,926 | $264,625 | $266,257 | $133,938 | $149,048 | $(351) | $461 | $466,448 | $507,193

**Fund Balances, End of Year**

- Fund Balances: $(139,072) $(127,499) | $207,308 | $218,926 | $264,625 | $266,257 | $133,938 | $149,048 | $(351) | $461 | $466,448 | $507,193

**Notes**

- All dollar amounts are in Canadian dollars.
- Figures may not add up due to rounding.
- Surplus (shortfall) of revenue over expenses includes amounts from the following items:
  - Before the following items
  - Complaint settlement - Waige equity
  - Unrealized gain (loss) in market value of investments
  - Gain (loss) in market value of derivative financial instruments

**Financial Report**

- As at May 31, 2009
- Total funds for UdeM and affiliated schools

**GENERAL OPERATING FUNDS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Total Funds - UdeM and Affiliated Schools</th>
<th>Restricted Fund</th>
<th>Capital assets fund</th>
<th>Endowment fund</th>
<th>Donations</th>
<th>TOTAL FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition fees</td>
<td>-</td>
<td>-</td>
<td>39,011</td>
<td>40,359</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Student services</td>
<td>-</td>
<td>-</td>
<td>64,920</td>
<td>65,040</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Other contributions and allocations</td>
<td>-</td>
<td>-</td>
<td>1,305</td>
<td>1,729</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td>Write-down of capital assets intended for sale</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,507</td>
<td>-</td>
</tr>
</tbody>
</table>

**TOTAL FUNDS – UdeM POLYTECHNIQUE HEC MONTREAL**

- Total revenue: $879,515
- Total expenses: $173,473
- Total surplus (shortfall): $147,791

**Donations**

- Total donations: $149,048
- Excess (deficit): $(351)

**Notes**

- All dollar amounts are in Canadian dollars.
- Figures may not add up due to rounding.
- Surplus (shortfall) of revenue over expenses includes amounts from the following items:
  - Before the following items
  - Complaint settlement - Waige equity
  - Unrealized gain (loss) in market value of investments
  - Gain (loss) in market value of derivative financial instruments

**Fund Balances, End of Year**

- Total fund balances: $(139,072) $(127,499) | $207,308 | $218,926 | $264,625 | $266,257 | $133,938 | $149,048 | $(351) | $461 | $466,448 | $507,193
In 2009, there were 6,657 international students from more than a hundred countries at UdeM and its affiliated schools.

Since 1998, the student population has grown 29.9%, from 44,991 to 58,445.

UdeM campuses are home to close to one in four university students in Quebec.

Since it was established in 1878, Université de Montréal has granted degrees to over 300,000 people, contributing directly to important advances in social, cultural, technological and economic sectors.

In May 2009, UdeM granted 421 Ph.D.s, a record achievement in its 132-year history.

The average job-search time for UdeM graduates is shorter. They are more likely to find a job related to their academic training. The average gross weekly salary of those with a UdeM undergraduate degree is $21 higher than that of their peers in Quebec.

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26.5% of our students are enrolled in graduate studies, the highest proportion in Canada.

Since September 2008, 50 general and special agreements have been signed by UdeM with universities from around the world.

In 2009, UdeM professors earned five of the eight prizes awarded by the Association francophone pour le savoir (ACFAS).

Our professors rank first in winning funding from Quebec granting agencies and rank fourth nationally in grants awarded by Canadian research councils.

In 2008-2009, 2,105 professors and researchers were employed at UdeM, Polytechnique, and HEC Montréal totaling 2,606.

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In 2009, Université de Montréal and its affiliated schools – École Polytechnique and HEC Montréal – unequivocally demonstrated their leadership position in scientific research by obtaining close to $130 million in funding from the Canada Foundation for Innovation and the Quebec government.

In 2009, UdeM’s libraries introduced a new logo that can be found on its entire line of promotional and information tools, including the new website, www.bib.umontreal.ca.
The following list provides an overview of the honours and awards conferred on the professors, researchers and students of Université de Montréal and its affiliated schools in 2008-2009.

ROYAL SOCIETY OF CANADA
Member
Micheline Breton, researcher, HEC Montreal
Gregor Murray, Full Professor, School of Industrial Relations, Faculty of Arts and Science
François Valin, Full Professor, Department of Economics, Faculty of Arts and Science
Thomas W. Fadoyin Medal
Ke Wu, Poly-Grames Research Center, École Polytechnique

ORDER OF CANADA
Member
Dina Demain, Associate Professor, School of Architecture, Faculty of Environmental Design
Pierre Théroux, Professor, Faculty of Medicine, cardiologist and researcher, Montreal Heart Institute Research Centre
National Order of Quebec
Knight
Francois Lepore, Full Professor, Department of Psychology, Faculty of Arts and Science
Samuel Pier, Full Professor, Department of Computer and Software Engineering, École Polytechnique
Nicole Morin-Gauthier, retired researcher, Department of Demography, Faculty of Arts and Science
Office
Louise Bog, Chair, Conseil des arts de Montreal, and Chancellor, Université de Montreal

2009 Prix du Quebec
Prix Alain-Antius
Guy Breton, physician, radiologist and Executive Vice-Recto
Women’s Executive Network and the Globe and Mail
Traillblazers & Trail-Busters Category
Louise Bog, Chair, Conseil des arts de Montreal, and Chancellor, Université de Montreal

2009 Association Francophone pour le Savoir (AFPS) Award
Concours de vulgarisation de la recherche Marie-Francois Maritx, student, Department of Psychology, Faculty of Arts and Sciences
Fayçal Semmama, student, Faculty of Medicine
Prix Adrien-Pouliot
Alexis Cazabé, Emeritus Professor, Department of Physics, Faculty of Arts and Science
Prix Jacques-Rousseau
Isabelle Perrault, Full Professor, Department of Psychology, Faculty of Arts and Science, Canada Research Chair in Neocognition, Music, Co-Director of BRAINS – International Laboratory for Brain-Music and Sound Research
2009 Prix Marcel-Vincent
Susanne Brossard, Full Professor, Department of Information Technologies, HEC Montreal
Prix Michel-Jardant
Jacques Vellelenom, retired professor, Department of Sociology, Faculty of Arts and Science
Prix Urgel-Archambault
Yoshua Bengio, Full Professor, Department of Computer Science and Operations Research, Faculty of Arts and Science

The Caldwell Partners International Canadis Top 40 Under 40
Julie Lessard, Assistant Professor, Department of Pathology and Cell Biology, University of Montreal, and Principal Investigator, Institute for Research in Immunology and Cancer (IRIC), Universite de Montreal

Collège des Medecins du Quebec
2009 Grand Prix
Jean-Claude Fouron, Full Professor, Department of Pediatrics, Faculty of Medicine

Royal College of Physicians and Surgeons of Canada and Associated Medical Services
Donald Richards Wilson Award
Andre Boucher, Associate Dean of Education and Professional Development, Faculty of Medicine

ReDiscoverie en Sante des Populations du Quebec Prix 2009
Jean-Marc Brodeur, retired professor, Department of Social and Preventive Medicine, Faculty of Medicine

Friederich Banting and Charles Best Canada Graduate Scholarships
Olivier Demers-Paquette, Ph.D. student in Public Health, Faculty of Medicine
Valérie Leducer, Ph.D. student in Public Health, Faculty of Medicine

Concours International de Composition de Shanghai
1st prize in the 2009 competition
Denis Gougeon, Full Professor in Instrumental Composition, Faculty of Music
2nd prize in the competition
José Evangelista, Full Professor in Instrumental Composition and World Music, Faculty of Music

Ordre des Palmes Academiques de la Republique Francaise
Office
Marcel Pourier, Full Professor, Department of Sociology, Faculty of Arts and Science
Luc Vinet, Recto

Ordre du Meitre Agricole de France
Knight
Eric Troncy, Full Professor, Department of Veterinary Biomedicine, Faculty of Veterinary Medicine

December Scholarship
Sophie Magnan, Ph.D. student, Department of Psychology, Faculty of Arts and Science

2009 Medical Games
Past place
Students, Faculty of Medicine

Université de Montreal Order of Merit
Hubert Reeves, Associate Professor, Department of Physics, Faculty of Arts and Science

Luc Léger, Department of Kinesiology
Now 90, Maurice Comeau pursued his medical studies at UdeM, where he received his degree back in 1949. Since that time, he has been giving gene-
ally to his alma mater, making him our most loyal donor. “I feel indebted to the université de Montréal and to those who taught me the foun-
dations of my profession,” says Dr. Comeau, one of the country’s first francophone physicians to specialize in the treatment of allergies. Gifted with a vibrant sense of humour, Dr. Comeau specifies that he also gives back in kind, since four of his grandchildren study at UdeM!

GIVING BACK…

THE FONDS MAURICE ALREADY UNDERWAY

At the convocation of the Mau-
ricius’s first graduating class, Dr. Pierre Gagné, Asso-
ciate Vice-Dean of the Faculty of Medicine, kicked off the
creation of the Fonds Maurice. This Fonds’s objectives include
granting an award of excellence to a student, granting a profes-
sional development award to a faculty member, and carrying out promotional activities tar-
geting the Faculty of Medicine in Maurice. Professors and the Associate Vice-Dean have already contributed generously to the Fonds, and the very possi-
bility of offering the public of Maurice greater access to a physician will spur on other donors to support the cause.

THE IRIC – HEADED FOR SUCCESS!


DONORS

An innovative, forward-looking chair

PHILANTHROPY IN SUPPORT OF VETERINARY MEDICINE

An evening known as “Cœur à cœur” (“heart to heart”) was held at the Concorde Theatre in winter 2009 to support the université de Montréal’s Big Band. Attending were Sophie Dessenais, ambassadors of the Big Band, and several other well-known guests, including Alan Lefebvre, Marc Hervieux, Céline Dion, and Éric Lépine-Moisan. The musicians under artist Ron Di Lauro explored the repertoire of jazz classics and American swing. The packed room, brimming with donors, warmly applauded the renovated training offered by the université de Montréal’s Faculty of Music.

TRIBUTE TO THE DONORS OF THE FAS

In October, the Faculty of Arts and Sciences held a recognition event in honour of its donors who gave more than 500 dol-
lars. It was the first event of its kind at the Faculty of Arts and Sciences. In a stirring defense of philanthropy, two donors, Simon Landry and Marie Connolly-Pray, founding mem-
ers of the Economic Graduate Committee, explained the reasons that motivated them to support the Fonds de boursi-
es en sciences économiques and expressed the hope that their gesture will inspire other graduates to give. The dean, Gérard Boismenu, took this oppor-
tunity to present the project Carrefour des lettres et des sciences humaines et sociales to his faculty. This new space, which will be set up in pavilion Lionel-Groulx next year, will house seminar rooms, a multi-
media projection room, a “Civilizations and Cultures” and laboratory, a videoconferen-
cing-equipped seminar room, a multipurpose room, and a reception area with a perma-
nent exhibition hall.

HEART TO HEART FOR THE BIG BAND

As part of a symposium intend-
to underscore the excep-
tional contribution to the law
made by the very honourable Antonio Lamer, the Faculty of Law awarded the first Bourses Antonio-Lamer to Rebecca Laurin, a second-year bachelor’s student, and to Alexandre Styllos, a Ph.D. student. These bursaries were awarded in the presence of Justice Danielle Tremblay-Lamer. The Fonds Antonio-Lamer was created thanks to the generosity of the Lamer family to honour the memory of Antonio Lamer who, before becoming a judge, was a student and professor in the Faculty. This capitalized fund will make it possible to award bursaries every two years to candidates from under-
grada and graduate programs.

PLANNED GIVING DRAWS SUPPORTERS

Hubert Doucet, a retired pro-
of the Faculty of Theo-

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Doucet bursary in healthcare ethics and spirituality was awarded to Olivier Nikula Kabamba. Mr. Doucet, who graduated from UdeM in 1958, admirably aligns the vocations of professor and donor. “I hope this bursary will help develop ethics that are more focused on the patient expe-
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UNIVERSITÉ DE MONTRÉAL 2009 ANNUAL REPORT

PHILANTHROPIC CHAIRS

Alfonso Mininci family Chair in Thoracic Surgery and Lung Transplantation

André Assiadéfert: Chair Association of Blood Donation Volunteers – Huma-Québec – Blood Foundation in Transfusion Medicine

Antoine-Maury Chair in Veterinary Surgery

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At the end of 2008, our students benefited from $3.6 million in philanthropic support.

### 2009

**DONORS**

**GIFTS RECEIVED**

- **2008-2009**
- **University community**
  - TOTAL: **$1,687,795**
  - **2008**: **$726,421**
  - **2009**: **$961,374**

- **Foundations**
  - TOTAL: **$5,680,303**
  - **2008**: **$2,563,231**
  - **2009**: **$3,117,072**

- **Friends**
  - TOTAL: **$863,216**
  - **2008**: **$386,742**
  - **2009**: **$476,474**

- **Alumni**
  - TOTAL: **$2,245,747**
  - **2008**: **$1,823,138**
  - **2009**: **$422,609**

- **TOTAL**: **$18,089,007**

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**DONATIONS AND PLUGGES**

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THE BOARD

The Board is the foremost body in charge of the University’s general management. The Board exercises all the rights of the University and all the powers necessary for its management and development.

In charge of the University’s general administration, the Board is comprised of up to 24 individuals and more than 50% of its members are external. It brings together the following people: the rector, five members appointed by the University Assembly, two members appointed by accredited student associations, two members appointed by the Board upon consultation by a board representing University graduates, two members appointed by the moderator of ecclesiastical faculties upon consultation with their boards, eight members appointed by the lieutenant-governor-in-council, on the recommendation of the Minister of Education, and up to four other members appointed by Board resolution, adopted by at least three-quarters of its members. The chair of the Board, elected by or his or her peers, carries the title of University Chancellor.

The Board puts the principles of good governance into practice. To do so, it has been equipped with the following three committees for several years: Audit, Human Resources and Governance. More recently, the Board also created the Real Estate committee, which keeps track of the University’s major real estate projects.

For these committees report directly to the Board and form the links of a governance structure that covers all major issues concerning the development and operation of the University. Over the past year, they have dealt with numerous issues of importance to the University.

Recently, in order to successfully implement the Outremont railway redevelopment project, an organization called the Société de développement immobilier de l'Université de Montréal (SODIUM) was formed. SODIUM is a not-for-profit corporation that acts as an agent of Université de Montréal and reports to the University’s Board. SODIUM brings together UdeM’s administrators and managers, as well as external experts in real estate project management, environmental law and urban transportation.

BOARD COMMITTEES

HUMAN RESOURCES

Mandate
Auditing of human-resource source policies and programs, evaluation of accomplishments of the rector and of general and faculty offices, study of pension plan financial statements.

Members
Jacques Desrosiers (chair) André Ferron Jacques Gaudreau

Issues in 2008-2009
Review of remuneration norms for general and faculty offices, study of pension plan financial statements.

GOVERNANCE

Mandate
Examination of human-resource source policies and programs, evaluation of accomplishments of the rector and of general and faculty offices, study of pension plan financial statements.

Members
Louise Roy (chair) Thérèse Cabana Jacques Gaudreau André Ferron

Issues in 2008-2009
Draft regulations on internal governance, and the process of appointing the rector.

REAL ESTATE

Mandate
Real estate management and development strategies.

Members
Pierre Paul Côté (chair) Louise Roy (ex officio member) Luc Vinet (ex officio member) Executive Vice-Rector

Issues in 2008-2009
Planning of Outremont site, sale of 1420 Mont-Royal Building, location of School of Public Health; building of the Biodiversity Centre; creation in partnership of a new park on the north side of the Mount Royal, and renovation of the 3200 Jean-Brunet Street building.

UNIVERSITÉ DE MONTÉRÉAL

SENIOR MANAGEMENT

Rector
Luc Vinet

DEANS

Faculty of Arts and Science
Pierre Gagné

Faculty of Medicine
Jean-Claude Breton

Faculty of Dentistry
Gilles Leguèque

Faculty of Education
Michel D. Laurier

Faculty of Environmental Design
Giovanni de Paoli

Faculty of Graduate and Postgraduate Studies
Louise Béliveau

Chairman of the Board
Jean Coutou

Corporate Director
Carole Lapointe

Secretary General
Francine Lessard

Registrar
Pierre Chevalier

Professor Emeritus
François Gauvreau

Director
Danièle Fournier

 FILES

Under the integrated management system, the integrated risk management assessment reports; annual insurance report; annual risk assessment reports; mandatory for external auditors.

Members
Jacques Gaumond Lise Fournel Pierre Paul Côté

UDEM’S BOARD: A MODEL OF GOVERNANCE
ÉCOLE POLYTECHNIQUE

Founded in 1873, École Polytechnique is one of the largest engineering schools in Canada. It offers its 5,000 students a choice of more than a hundred engineering programs at all levels of study and provides a unique research environment.

HEC MONTRÉAL

HEC Montréal is Canada’s oldest business school. Founded in 1907, it is the first business school in North America to have earned all three prestigious international accreditations: AACSB International (United States), AMBA (Great Britain) and EQUIS (Europe).

FACULTIES AND SCHOOLS

Faculty of Arts and Science
Faculty of Continuing Education
Faculty of Dentistry
Faculty of Education
Faculty of Environmental Design
Faculty of Graduate and Postdoctoral Studies
Faculty of Law
Faculty of Medicine
Faculty of Music
Faculty of Nursing
Faculty of Pharmacy
Faculty of Theology and Religious Studies
Faculty of Veterinary Medicine
Department of Kinesiology
School of Optometry
School of Public Health