**The University
of Montreal
and of the world.**

Rector's Report

Université
de Montréal

A university named
after its city

The achievements of Université de Montréal permeate the lives of the four million inhabitants of Greater Montreal. The University has been an integral part of the city's development over the last third of its 375-year history and continues to occupy that role with all the energy and passion of its faculty, students, administrative staff and graduates.

University in Montreal

Montreal Museum of Fine Arts

Professor and architect Manon Asselin participated in the design of the Michal and Renata Hornstein Pavilion for Peace, the Museum's new addition, which houses the couple's collection of Old Masters paintings.
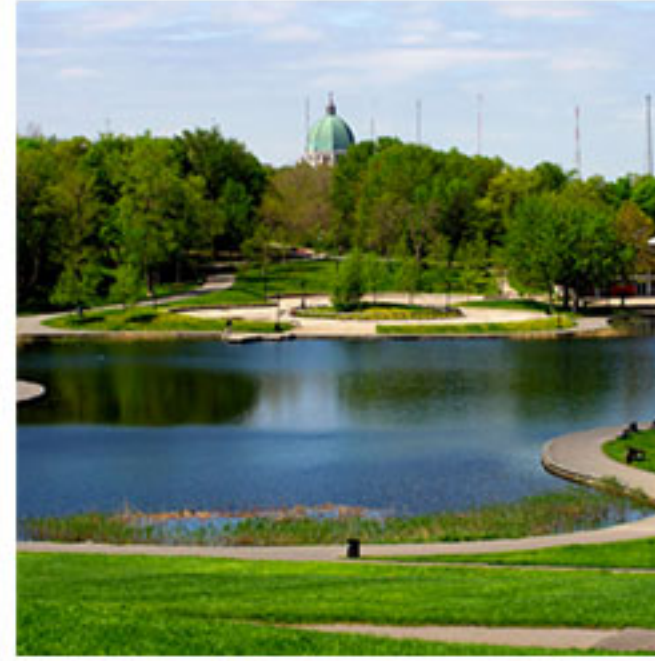
Mount Royal

As the main occupant of the north slope of Mount Royal, the University is naturally one of the most fervent defenders of its biodiversity. UdeM's recent designations as a Fairtrade Campus and STARS international program silver member confirm this.

Botanical Garden

In 1931, the illustrious botanist and UdeM professor Brother Marie-Victorin gave Montréal this garden, one of the biggest in the world. The University is still present here, with its Institut de recherche en biologie végétal and its Biodiversity Centre

The city in 1642

Excavations carried out by Professor Brad Loewen and his students, in collaboration with the Pointe-à-Callière Museum, helped to locate the site of Fort Ville-Marie, the city's birthplace. The Museum's new pavilion, which opens in 2017, will house the fort's remnants.

Place d'Armes

In 2012, landscape architect and professor Robert Desjardins led the spectacular redevelopment of this flagship site of Old Montréal, a busy place since 1693. The square's oversized benches are the work of designer and graduate Michel Morelli.

Bixi

The emblematic city bicycle is the work of industrial designer Michel Dallaire, who teaches at the Faculty of Environmental Design; it is only one of his Montréal creations, which include the furniture at the Grande Bibliothèque and the 1976 Olympic Torch.

STM's Abribus

In 2010, designer and professor Tatjana Leblanc and graduates Yolaine Turcotte and Daniel Spooner designed these unique digital transit shelters for the Société de transport de Montréal (STM).

Louis-Jean Cormier, Cœur de pirate, Les Trois Accords ...

These music celebrities were once on the fringe, and CISM, the University's student radio station, presented them to the public for the first time. After 25 years of existence, 89.3 FM is still the best place to discover emerging francophone artists.

Located in the world's
#1 student city

Montreal is the world's top university city, according to the QS
Best Student Cities index for 2017.

A city in the city

66,497

students at Université de Montréal

9,341

international students from
140 countries

Shaping our
future leaders

12,744

new graduates in 2016

1 in 30

One in 30 Montrealers is
an UdeM student

8,087

permanent-resident students

These figures include UdeM's affiliate schools, Polytechnique Montréal and HEC Montréal

At the heart of the health network

The most advanced pediatric care

CHU Sainte-Justine is located very close to the Université de Montréal campus, and the strong presence of UdeM professors and students from the health disciplines makes it one of the best children's hospitals in the world.
The opening of the hospital's new research centre in 2016 has strengthened this valuable link.

Towards the new CHUM

With the opening of a major research centre in 2013, the Centre Hospitalier de l'Université de Montréal (CHUM) took the first steps in modernizing its downtown hospitals. Soon, patients will be able to seek treatment in a state-of-the-art university hospital designed for the 21st century

Made in Montreal

While artificial intelligence was not born at Université de Montréal,
it has certainly grown up here. In 2006, Professor Yoshua Bengio
co-invented deep learning, a technology that has brought a number
of spectacular advances, including machine translation, virtual assistants
and self-driving cars.

Making Montréal the epicentre of artificial intelligence

It is well underway. Last fall, the Canada First Research Excellence Fund awarded $93.6 million to the Institute for Data Valorization, which brings together researchers from UdeM, HEC Montréal and Polytechnique Montréal. Meanwhile, private investment is flowing in. Two giants of the industry, Google and Microsoft, have strengthened their presence in the city.

Community as campus

Music to help learn math

Because music learning promotes academic achievement, maestro Kent Nagano had the idea to launch an intensive kindergarten music program. He brought together teachers in music, education, and occupational therapy to study the effects on children. Since the start of the 2016 school year, the program has been offered free of charge to 160 students at St-Rémi School in Montreal North.

French 101 at Plaza Côte-des-Neiges

Every week for three months, some 30 allophone merchants at Plaza Côte-des-Neiges welcomed students from Université de Montréal to help them interact in French with their customers and suppliers. UdeM was selected by the Chamber of Commerce of Metropolitan Montreal to carry out this project.

The clinic goes to school

For the last three years, students at Barclay Primary School, in the multi-ethnic neighbourhood of Park Extension, have benefitted from the expertise of UdeM students. The Extension is the first social pedagogy centre of its kind, offering students follow-up in special education, oral care and eye examinations.

Montreal by a MIL

Universities rarely have the opportunity to reinvent their environment, let alone invent a neighbourhood. The MIL campus is being built in Outremont in a former industrial area at the gateway to Mile End, in a vibrant community of artists and innovators.

MIL for milieu

The MIL campus reflects the site's geographical location en plein milieu, i.e., right in the middle of the island of Montreal. It also reflects a future living milieu, which, among things, will include a science-based elementary school and a digital innovation centre.

Canada's largest university development site

$145 MILLION
granted by the Quebec government.

$84 MILLION
granted by the Canadian government, announced by Prime Minister Justin Trudeau during his visit to the site on December 16.

2019
Opening of the campus's first building, the Science Complex, in 2019.

A leader of the pack

Université de Montréal is one of the world's leading research universities.

3rd
Canada's 3rd largest research university and 1st in Québec, according to Research Infosource.

44th
44th university in the world for the reputation of its graduates with employers, according to the 2016 Employability University Rankings.

103rd
103rd best university in the world, according to Times Higher Education. In the top 1% of the world' best universities.

Philanthropy

campus montréal

M

HEC Montréal

Polytechnique Montréal

Université de Montréal

$581 MILLION

This is the amount collected so far by HEC Montréal, Polytechnique Montréal and Université de Montréal as part of the major Campus Montréal fundraising campaign.

Our target of $500 million was surpassed, making Campus Montréal the most successful francophone university philanthropy campaign in history.

A huge thanks to all our donors!

Major donations in 2016

$6 MILLION
from Microsoft

for artificial-intelligence research at the Montréal Institute for Learning Algorithms.

$5 MILLION
from Fondation Caroline Durand

for the creation of the Université de Montréal Fondation Caroline Durand Chair in Hearing and Aging.

$4.58 MILLION
from Google

for artificial-intelligence research at the Montréal Institute for Learning Algorithms.

$3.2 MILLION
from the Sisters of Charity of Montreal, the Sisters of Charity of Saint-Hyacinthe and of Quebec City, the Sisters of Saint Joseph of Saint-Hyacinthe, and the Sisters of Hospitallers of Saint Joseph

to the Université de Montréal Marguerite-d'Youville Research Chair on Humanistic Interventions in Nursing

$3 MILLION
from Gisèle Beaulieu and Michel Saucier

campusMIL
Université de Montréal

for development of the MIL campus.

$2 MILLION
from Fayolle Canada

for the creation of the Fayolle-Magil Construction Research Chair in Architecture, Building and Sustainability.

$1.34 MILLION
from Intel

for artificial-intelligence research at the Montréal Institute for Learning Algorithms.

$1.34 MILLION
from Huawei Canada

for artificial-intelligence research at the Montréal Institute for Learning Algorithms.

$1 MILLION
from Druide Informatique

for artificial-intelligence research at the Montreal Institute for Learning Algorithms.

In the news

The work of Professor Marie Kmita and her team made the cover of the prestigious journal *Nature* in November.

They discovered the genetic mechanism behind human pentadactyly five fingers, compared to early vertebrates, who has six to eight digits for each limb.

The New York Times

Honing the Gymnastics of the Brain

Just by asking the eyes to track spheres as they bound around a 3D screen, athletes can prepare their brains to perform in a way that no other film room could replicate. At least, that was **Jocelyn Faubert**'s goal when he created NeuroTracker out of his optometry research laboratory at the University of Montreal in 2009.

The Telegraph

How climbing the social ladder could hold the key to a long and healthy life

Similar responses could help explain why poor and working class people have higher rates of inflammatory disorders such as heart disease and diabetes, said study co-author **Luis Barreiro**, assistant professor of immunogenomics at the University of Montreal.

L'OBS

Ils ont enquêté sur le marché noir du like

Des chercheurs québécois ont fait une découverte surprenante : un ver utilise les objets connectés pour créer des profils Instagram bidon. Le but : alimenter le lucratif marché des faux « j'aime » [...] Le travail de **Masarah Paquet-Clouston** (étudiante à la maîtrise en criminologie) a consisté à analyser les bases de données issues de ce piège.

LE FIGARO

Addictions : au Canada, on essaie de repérer les jeunes à risque

Patricia Conrod, docteur en psychopathologie à l'Université de Montréal, a mis au point un programme pour détecter les traits de personnalité marquant un terrain à risque chez les adolescents.

REUTERS

Screen time, phone use linked to less sleep for teens

"Today's adolescents sleep much less than previous generations, their sleep quality is poorer, and they report more daytime sleepiness, all of which have health and social consequences," said **Jennifer O'Loughlin**, an author of the paper in the journal Sleep Health and researcher at the University of Montreal.

NEW YORK POST

Kids who watch too much TV turn into 'antisocial misfits'

The research found that toddlerhood is a "critical time" to learn social skills like sharing or respect and kids need creative, interactive play. Professor **Linda Pagani**, of the University of Montreal, said: "Children who watched a lot of television were more likely to prefer solitude, experience peer victimization and adopt aggressive behavior."

Libération

La détresse des autochtones d'Ontario

Si la solution à la crise devra passer par une aide accrue au logement et à l'éducation, il faudra aussi rebâtir la fierté de ces peuples, bafouée des siècles durant. «Ces gens qui faisaient de la chasse et du piégeage ont été parachutés dans l'économie capitaliste, sans avoir les outils pour survivre dans cette nouvelle réalité», dit **Marie-Pierre Bousquet**, directrice des programmes en études autochtones de l'Université de Montréal.

WIRED

'Edible' robots and batteries you can swallow could finally help cure cancer

Researchers from the Polytechnique Montréal, **The University of Montreal** and McGill University, have made a breakthrough in cancer research, by developing tiny 'robots' that can travel through the bloodstream to administer a drug with precision by targeting the active cancerous cells of tumours.

Newsweek

Drug Sales on Dark Web Triple Since Silk Road Closure

Sales of illicit drugs on the so-called dark web have tripled since the 2013 shutdown of the online marketplace Silk Road, according to new research. A collaborative study undertaken by researchers at the University of Manchester and the **University of Montreal** also found that drug revenues from dark web marketplaces have doubled globally.

Le Monde

Addictions : au Canada, on essaie de repérer les jeunes à risque

Malgré ces études, « nous manquons toujours d'informations sur le sujet, déplore **Normand Mousseau**, physicien à l'Université de Montréal et auteur de La Révolution des gaz de schiste (Éditions MultiMondes, 2010). Faute d'études de grande ampleur, les effets à moyen et long terme de l'exploitation du sous-sol restent inconnus ».

SCIENCES ET AVENIR

Pyromane, sociopathe et tortionnaire, la face cachée du faucon

Guy Beauchamp, chercheur à l'Université de Montréal, a relevé que les faucons pouvaient attendre plus d'une heure avant leur première attaque, et attaquent ensuite à des moments aléatoires.

THE TIMES OF INDIA

World's smallest thermometer provides peek into future of nanotech

A team of researchers from the **University of Montreal**, Canada has created the world's tiniest programmable thermometer - about 20,000 times smaller than a strand of human hair. And the best part is that the thermometer is made of actual DNA.

EL PAÍS

¿Por qué los enfermos de alzhéimer dejan de reconocer a sus familiares?

En esta investigación de la **Universidad de Montreal**, Canadá, se comparan los resultados de 25 afectados y los de 23 ancianos sin ningún tipo de problema neuronal.

abc

People who drink alcohol are less likely to die from cancer if physically active

Basic levels of weekly exercise could offset some of the harmful effects of drinking alcohol, a new report suggests. The University of Sydney, University College London and the **University of Montreal** based their research on surveys of more than 36,000 adults over the age of 40.

Tribune de Genève

Découverte d'une enzyme contre l'excès de sucre

L'enzyme, appelée glycérol-3-phosphate-phosphatase, dont on ignorait jusqu'alors l'existence dans les cellules des mammifères, joue un rôle-clé pour éliminer les effets d'un excès de sucre, expliquent les chercheurs, dont les travaux sont dirigés par **Marc Prentki** et **Murthy Madiraju**, du Centre de recherche du Centre hospitalier de l'Université de Montréal.

Honours

Three student medalists at the Rio Olympic Games

Roseline Filion
Diver and communications student

Sandrine Mainville
Swimmer and law student

Katerine Savard (photo)
Swimmer and primary and pre-school education student

Exceptional researchers

Richard E. Tremblay (photo)
Richard E. Tremblay, Emeritus Professor of Psychology, is the first Canadian to win the Stockholm Prize, dubbed the "Nobel Prize of Criminology". A specialist in child development, Tremblay is known for his work on the origins of delinquency.

Pierre Legendre
Pierre Legendre, who is recognized as the father of digital ecology, has confirmed his influence in the scientific world. For the third year in a row, the professor of biological sciences is on the Thomson Reuters' Highly Cited Researchers list.

Dr Michel Chrétien
Dr. Michel Chétien, Professor Emeritus, has entered the Canadian Medical Hall of Fame, which honours our heroes of medicine.

Fellows of the Year

Sébastien Brodeur-Girard
Sébastien Brodeur-Girard (law), recipient of the Pierre Elliott Trudeau Foundation Scholarship, researches ways to reconcile Western law and Indigenous legal traditions.

Samuel Blouin (photo)
Samuel Blouin (sociology and religious studies), recipient of the Pierre Elliott Trudeau Foundation Scholarship, analyzes the approaches to assisted dying in Switzerland and Quebec.

Pierre-Antoine Bernard
Pierre-Antoine Bernard, who is a new student in physics and mathematics, received a Schulich Leader Scholarship of $60,000, the country's largest award for an undergraduate student.

Order of Canada

Dr Jean-Lucien Rouleau

Dr. Jean-Lucien Rouleau, Professor Emeritus, was awarded the Order of Canada, the country's highest honour, for his contribution to the advancement of cardiology.

John Parisella (photo)

John Parisella, Executive Director of the Campus Montréal campaign, CÉRIUM Fellow, and former Chief of Staff to two Quebec premiers, was also awarded the Order of Canada for his social, political, diplomatic and educational commitment.

Royal Society of Canada

The Royal Society of Canada, which brings together the country's most prominent intellectuals, scientists and artists, admitted four University professors into its ranks in 2016:

Dr Éric A. Cohen

Department of Microbiology, Infectious Diseases and Immunology

Jean-François Gaudreault-DesBiens

Dean, Faculty of Law

Laurence Monnais (photo)

Department of History

Françoise Winnik

Department of Chemistry and Faculty of Pharmacy

Recognition abroad

In 2016, a number of professors were recognized outside the country.

André Gaudreault

André Gaudreault (Art History and Film Studies) was made Knight of the Order of Arts and Letters of the French Republic.

Drs André Lacroix and Jean-Pierre Vaillancourt

Drs André Lacroix and Jean-Pierre Vaillancourt became members of the French National Academy of Medicine.

Pierre Legendre (photo)

Laurence McFalls (Political Science) was awarded the Order of Merit of the Federal Republic of Germany

Laurence McFalls

Laurence McFalls (science politique) a été décoré de l'Ordre du mérite de la République fédérale d'Allemagne.

Giovanni de Paoli

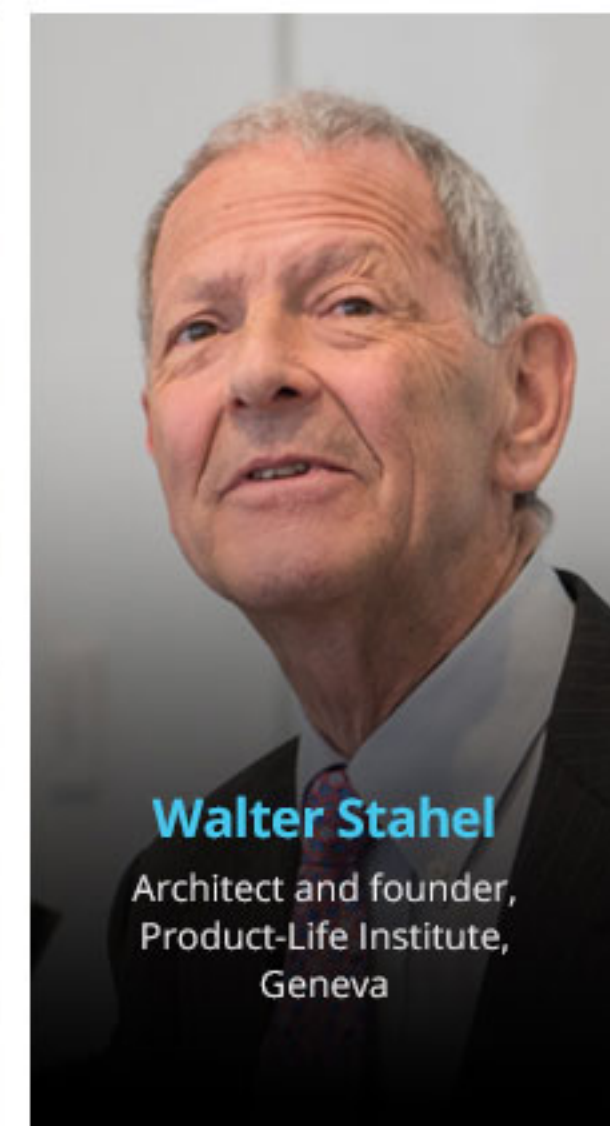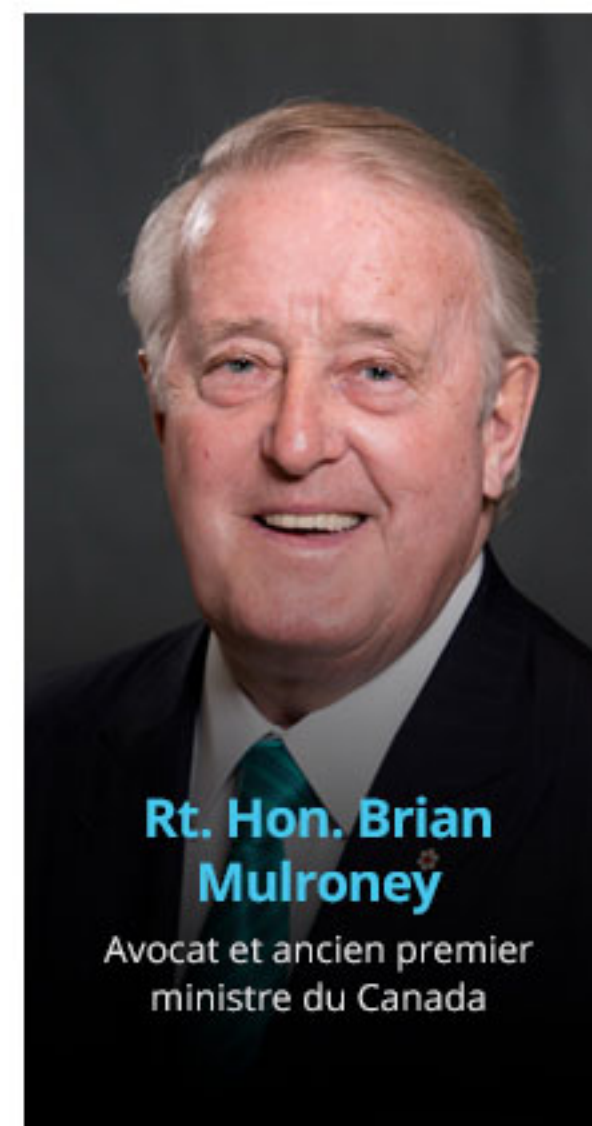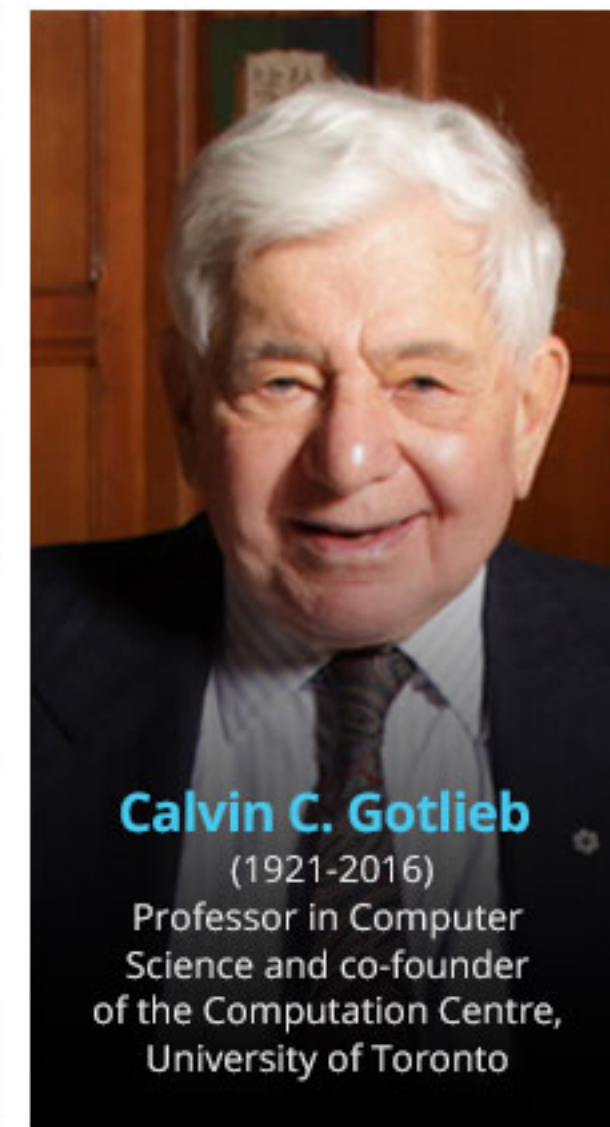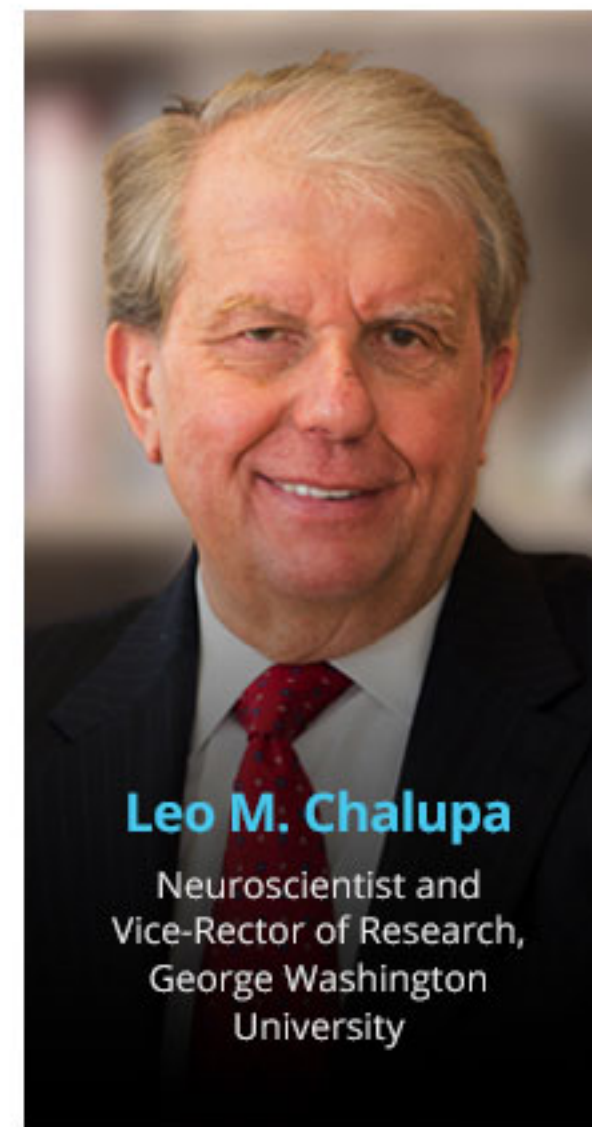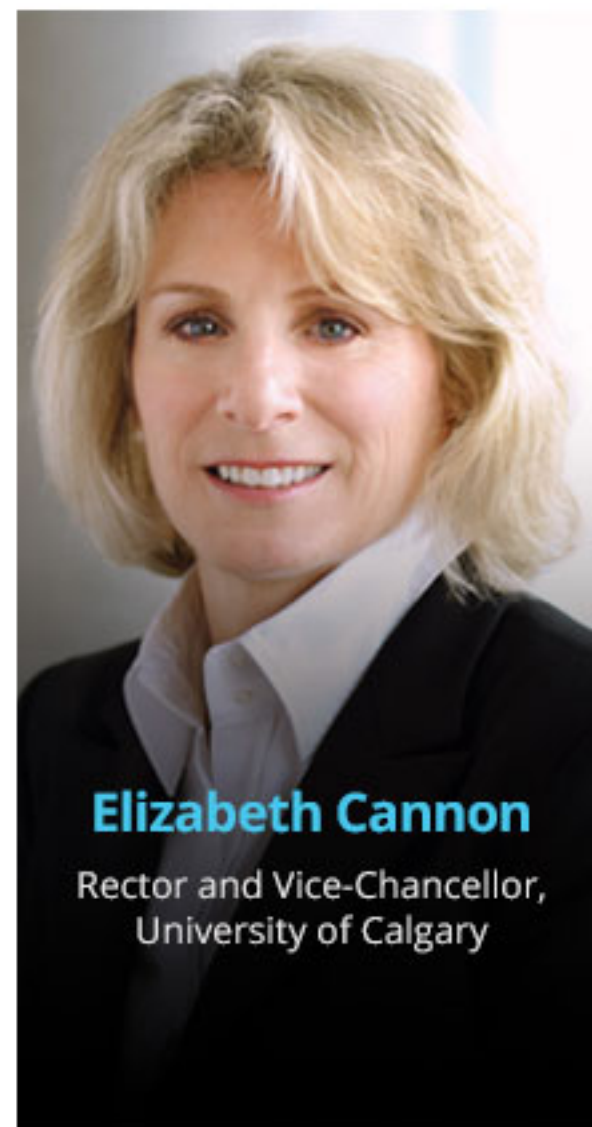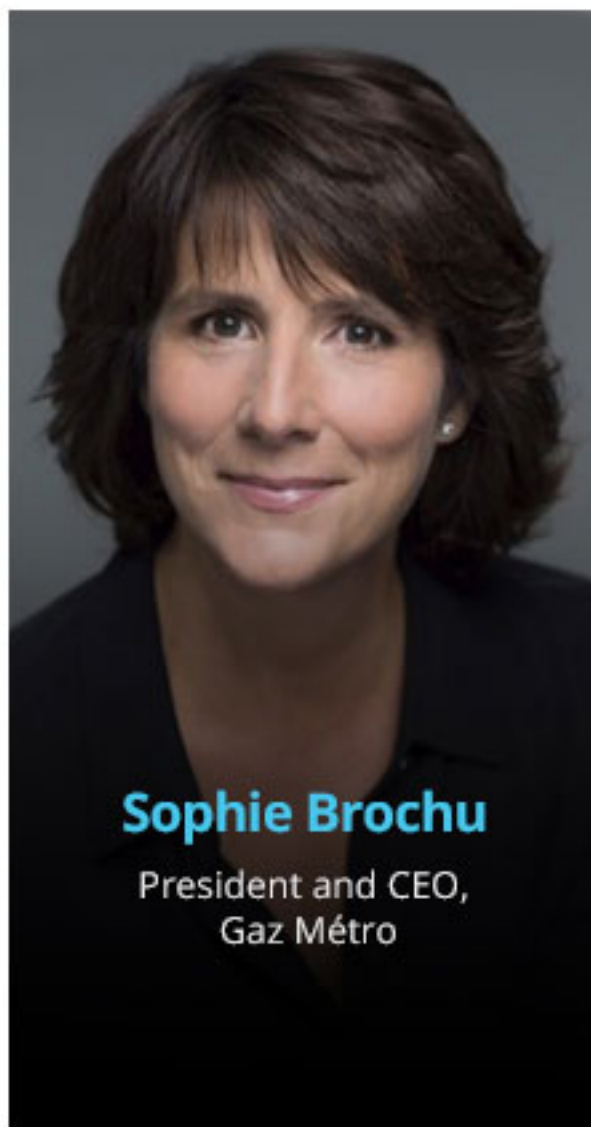Giovanni de Paoli (Architecture) was awarded the Order of Merit of the Italian Republic.

Victor Piché and Pierre Fournier

Victor Piché (Demography) and Pierre Fournier (Dean, School of Public Health) were made Knights of the Order of Academic Palms of Burkina Faso.

Carabins win Canadian championship

The Carabins women's hockey team won the Canadian Interuniversity Sport championship in Calgary with an 8-0 shutout over the UBC Thunderbirds, giving the Blues their second national title since winning in 2013.

Our 2016 honorary doctors

Sophie Brochu
President and CEO,
Gaz Métro

Elizabeth Cannon
Rector and Vice-Chancellor,
University of Calgary

Leo M. Chalupa
Neuroscientist and
Vice-Rector of Research,
George Washington
University

Calvin C. Gotlieb
(1921-2016)
Professor in Computer
Science and co-founder
of the Computation Centre,
University of Toronto

Paul Lepage
President, TELUS Health

Ashok Malla
Clinical psychiatrist
and researcher

**Rt. Hon. Brian
Mulroney**
Avocat et ancien premier
ministre du Canada

Walter Stahel
Architect and founder,
Product-Life Institute,
Geneva

UdeM
is rapidly evolving

Guy Breton
Rector, Université de Montréal

For Université de Montréal, 2017 is the year of construction. The MIL campus, the largest university development project in the country, is entering its intensive phase. Equally important are teaching, administration and governance. We are engaged in a process of transformation that is responding both to the desire for change expressed by our academic community and to public expectations.

In a few years' time, what will Quebec's largest university look like?

It will be more collaborative.

We will increase our partnerships. Schools, hospitals, and public, private and community organizations are all places of research and practice for our students – and beacons to the world.

It will focus on knowledge interconnectivity.

Today's world is too complex to be seen through the lens of a single discipline. We are hastening a cultural shift that is already underway, encouraging diversity in the expertise of our research teams and reorganizing our laboratories and academic programs to open them up to other disciplines.

It will be a source of new professional fields, new businesses and new ways of doing things.

Do the jobs of tomorrow already exist? If not, we will stimulate their emergence, as we have done with the creation of an artificial-intelligence ecosystem. For the many future entrepreneurs who attend our campus, we will offer more tools. And we will continue to promote best professional practices, as we have done in the healthcare community with our patient-centred approach.

The movement we have started extends beyond our campus's borders. It involves everyone as graduates, employers and citizens. Come join us, because when Université de Montréal advances, it brings all of society with it.

Management team

Guy Breton
Rector

Louise Béliveau
Vice-Rector of Student Affairs and Studies
- **Michèle Brochu**, Assistant Vice-Rector, Graduate Studies
- **Claude Mailhot**, Assistant Vice-Rector, Quality Promotion
- **Sylvie Normandeau**, Assistant Vice-Rector, Undergraduate Studies
- **Chantal Pharand**, Assistant Vice-Rector of Student Affairs and Success
- **Sébastien Roy**, Associate Vice-Rector of Student Affairs and Studies

Jean Charest
Vice-Rector of Human Resources and Planning
- **Jean Pierre Blondin**, Assistant Vice-Rector, Faculty Affairs

Éric Filteau
Vice-Rector of Finance and Infrastructure
- **Ann-Isabelle Cojocaru**, Assistant Vice-Rector of Administration and Sustainable Development
- **Matthew Nowakowski**, Assistant Vice-Rector, Finance

Marie-Josée Hébert
Vice-Rector of Research, Discovery, Creation, and Innovation
- **Frédéric Bouchard**, Associate Vice-Rector of Research, Discovery, Creation and Innovation
- **Michel Bouvier**, Associate Vice-Rector of Research, Discovery, Creation and Innovation

Raymond Lalande
Vice-Rector of Alumni, Partnerships and Philanthropy

Guy Lefebvre
Vice-Rector of International Affairs and the Francophonie
- **Monique C. Cormier**, Associate Vice-Rector of the French Language and theFrancophonie

Jean Renaud
Chief of Staff and of Government Relations

Alexandre Chabot
Secretary General

Deans

Christian Blanchette, *Dean, Faculty of Continuing Education*

Hélène Boisjoly, *Dean, Faculty of Medicine*

Michèle Brochu, *Administrator performing the duties of Dean, Faculty of Graduate and Postdoctoral Studies*

Michel Carrier, *Dean, Faculty of Veterinary Medicine*

Christian Casanova, *Director, School of Optometry*

Renée Delaquis, *Administrator performing the duties of Dean, Faculty of Dentistry*

Francine Ducharme, *Dean, Faculty of Nursing*

Pierre Fournier, *Dean, School of Public Health*

Jean-François Gaudreault-Desbiens, *Dean, Faculty of Law*

Lyne Lalonde, *Dean, Faculty of Pharmacy*

Paul Lewis, *Dean, Faculty of Environmental Design*

Isabelle Panneton, *Dean, Faculty of Music*

Louise Poirier, *Dean, Faculty of Education*

Luc Proteau, *Dean, Faculty of Education*

Tania Saba, *Administrator performing the role of Dean, Faculty of Arts and Sciences*

What makes
a university strong?

Louise Roy
Chancellor and Chair of the Board

If the report you have just read shows anything, it is that Université de Montréal is not evolving in isolation.

Its partners range from small-business owners in Côte-de-Neiges to the multinational Google, from the Orchestre symphonique de Montréal to the Grey Nuns of Montréal. Its thousands of donors have helped to raise a record amount of more than half a billion dollars.

What makes a university strong in 2017? It is its ability to integrate into the surrounding community and contribute to its dynamism while benefitting from its support.

I have seen UdeM's integration in the community at every Board meeting, which I have chaired for nearly 10 years.

There are 24 board members, including 12 women. They are teachers, students, and volunteers from the community. Reflecting Montréal in their professional and cultural diversity, they are fully engaged in the city's life whether collaboratively, charitably or culturally, and Université de Montréal is one of their most important commitments.

Board members, both academic and non-academic, work together to support management in its vision and challenges. They do so because they believe that Université de Montréal, because of its scope and excellence, is one of our best collective development tools, if not the best.

I pay tribute to them, as I pay tribute to all the friends of our university and all those who contribute to making it an exceptional place of higher knowledge to serve our citizens and society.

Montreal's 375th anniversary university

To learn more : recteur.umontreal.ca