

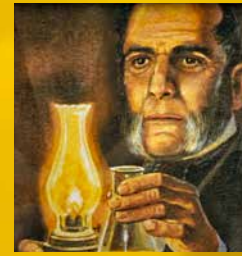
# 200<sup>TH</sup> INSPIRATIONS

Our 200-year history has been written by our people, and enriched by their identities, cultures, values, actions, teaching and scholarship. Meet some of those who helped pave the way for the achievements of the past year.



## STUDENT ACHIEVEMENT

James **Robinson Johnston** defied expectation and changed assumptions when he became the first African Nova Scotian to graduate from Dalhousie in 1896.



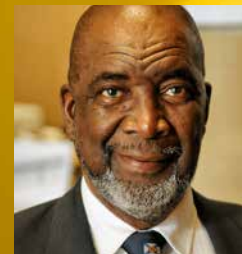
## WORLD-LEADING RESEARCH

When professor **Abraham Gesner** distilled kerosene from coal and oil shale in 1846, he inspired the modern petroleum industry and brought clear, bright light to homes around the world.



## PARTNERSHIPS

Professor **Elisabeth Mann Borgese** established the International Ocean Institute in 1972 and helped lay the foundation for the United Nations Convention of the Law of the Sea.



## DIVERSITY & INCLUSIVENESS

Alumnus **Burnley "Rocky" Jones** helped create the Transition Year Program in 1970 and later the Indigenous Blacks and Mi'kmaq Initiative to improve access to education at Dal.



# MOMENTUM

Dalhousie University Community Report 2016-17



[dal.ca/communityreport](http://dal.ca/communityreport)  
[community.relations@dal.ca](mailto:community.relations@dal.ca)  
902.494.2786



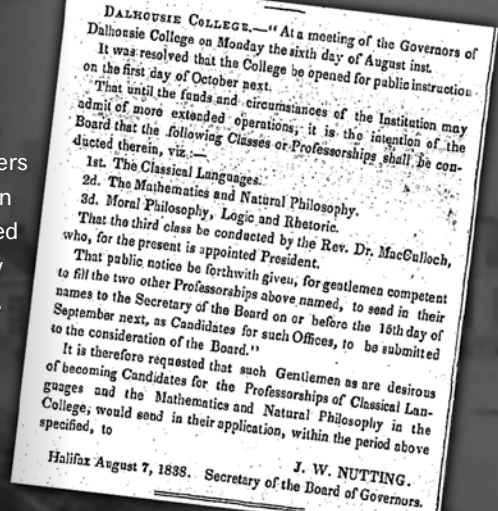


These are the moments that will take us into our third century

### 1838

#### First instruction

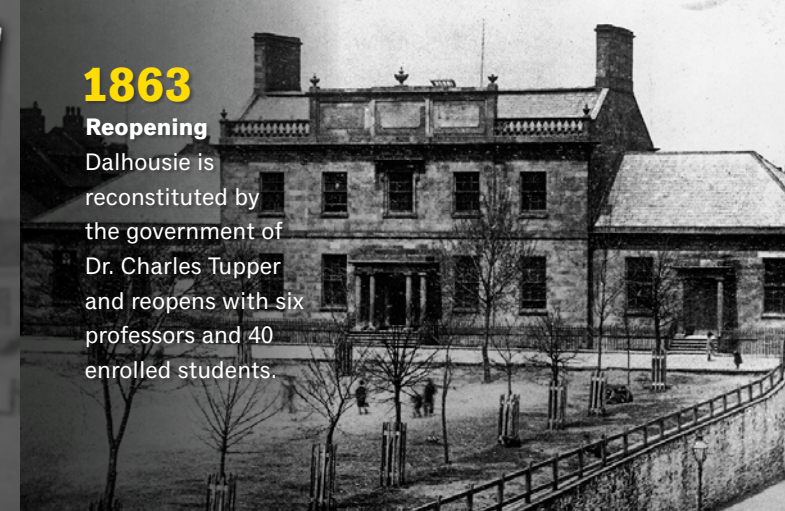
The university offers its first instruction after being delayed for many years by sectarian politics.



### 1863

#### Reopening

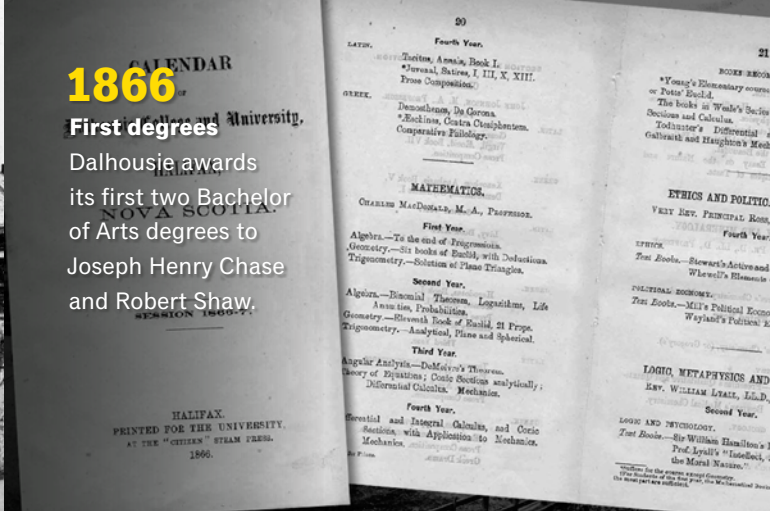
Dalhousie is reconstituted by the government of Dr. Charles Tupper and reopens with six professors and 40 enrolled students.



### 1866

#### First degrees

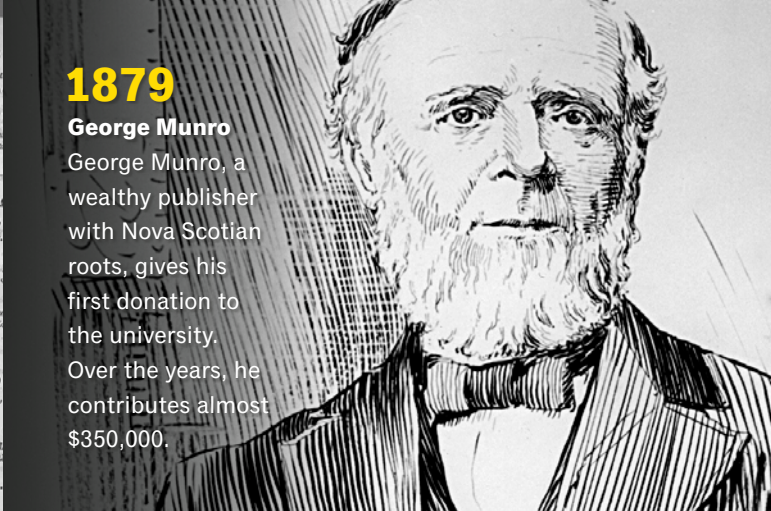
Dalhousie awards its first two Bachelor of Arts degrees to Joseph Henry Chase and Robert Shaw.



### 1879

#### George Munro

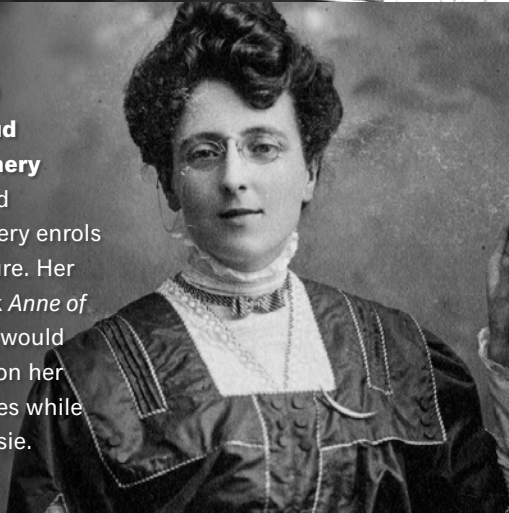
George Munro, a wealthy publisher with Nova Scotian roots, gives his first donation to the university. Over the years, he contributes almost \$350,000.



### 1895

#### Lucy Maud Montgomery

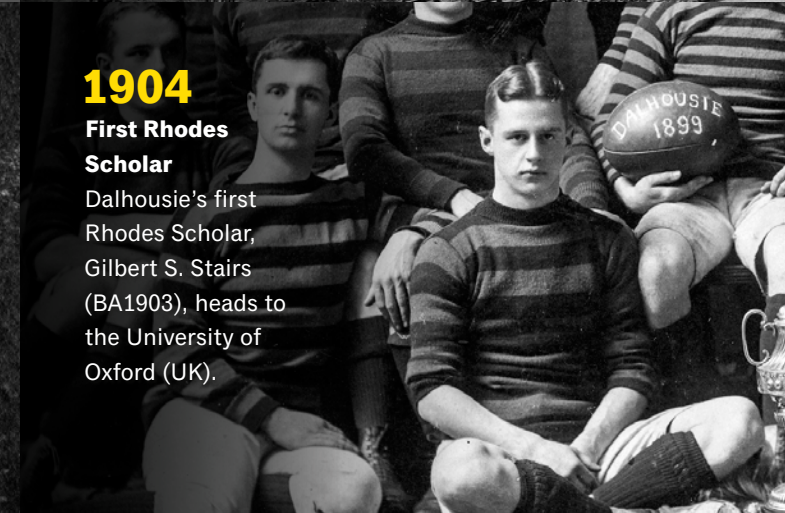
Lucy Maud Montgomery enrolls in Literature. Her third book *Anne of the Island* would be based on her experiences while at Dalhousie.



### 1904

#### First Rhodes Scholar

Dalhousie's first Rhodes Scholar, Gilbert S. Stairs (BA1903), heads to the University of Oxford (UK).



### 1919

#### First woman on the Board

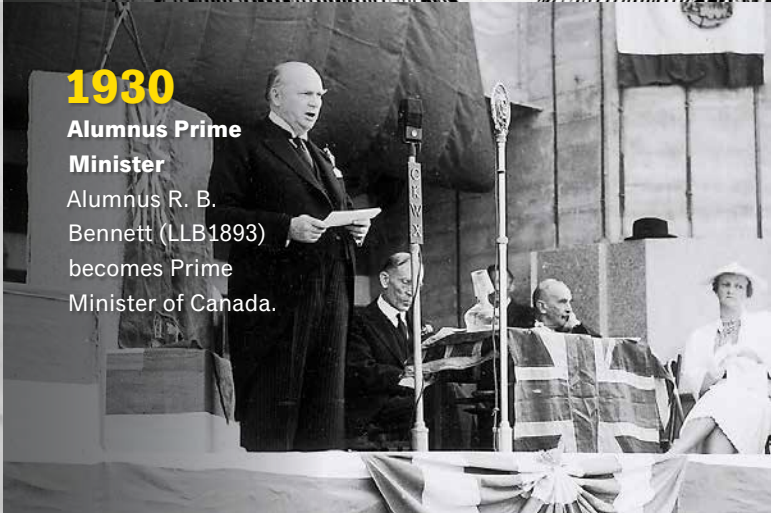
Eliza Ritchie (BA1887) is appointed to the Board of Governors making her the first woman in Canada to hold such a position.



### 1930

#### Alumnus Prime Minister

Alumnus R. B. Bennett (LLB1893) becomes Prime Minister of Canada.



### 1989

#### IB&M Initiative

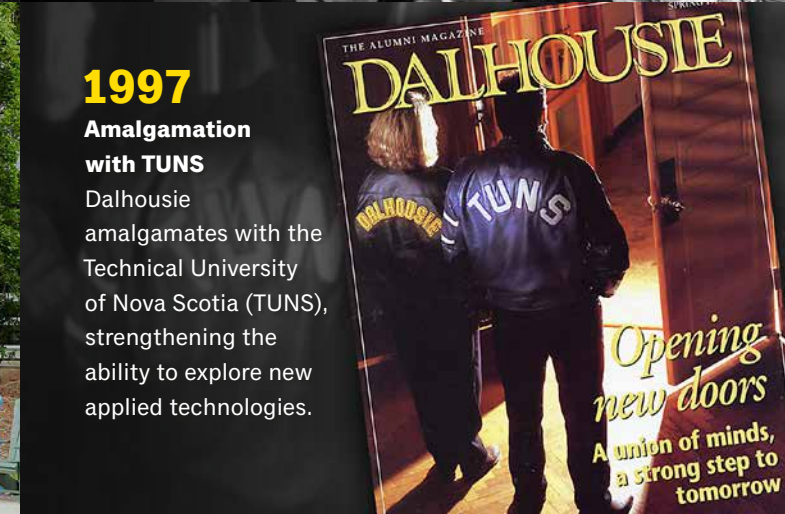
The law school establishes the Indigenous Blacks and Mi'kmaq Initiative (IB&M), supporting equitable representation.



### 1997

#### Amalgamation with TUNS

Dalhousie amalgamates with the Technical University of Nova Scotia (TUNS), strengthening the ability to explore new applied technologies.



### 2008

#### DMNB

An agreement creates the Dalhousie Medical Program in New Brunswick (DMNB) enabling local students to study medicine in their home province.



### 2012

#### Amalgamation with NSAC

Amalgamation with the Nova Scotia Agricultural College in Truro creates the Faculty of Agriculture and Dalhousie's Agricultural Campus.





These are the moments that will take us into our third century



## ABOUT DALHOUSIE

Dalhousie University is Atlantic Canada's leading research-intensive university, driving the region's intellectual, social and economic development.

Located in the heart of Halifax, Nova Scotia, with an Agricultural Campus in Truro/Bible Hill, Dalhousie is a truly national and international university. Our 6,000 faculty and staff foster a diverse, purpose-driven community, one that spans 13 faculties and conducts nearly \$137 million in research each year.

Dalhousie's *Strategic Direction* outlines five key areas that guide everything we do: Teaching and Learning, Research, Service, Partnerships and Reputation, and Infrastructure and Support. It points the way to a more sustainable, inclusive and prosperous shared future — and at the dawn of our third century we are more relevant, more connected and more vibrant than ever.

For more on Dalhousie's Strategic Direction, visit [dal.ca/forward](http://dal.ca/forward).



## PRESIDENT'S MESSAGE

This year, Dalhousie marks 200 years of achievement — our moment to reflect on how far we've come, and to dream about what our future has in store. In our first two centuries, we've grown from a “little college by the sea” to a national university, and the leading research university in Atlantic Canada. Now, it is time for us to take our place as a global institution and the leading research university for Atlantic Canada.

But we can't do it alone.

The stories in this year's report highlight what's possible when we work together to inspire and support our best and brightest, when we strengthen our connections and draw on the diverse strengths of all our people, and when we bring together the best in the region with the very best in the world.

Every day at Dalhousie is full of moments empowered by the support of our communities: partners, donors, alumni, government. And the university's Strategic Direction — guided by our mission of teaching & learning, research and service — is our roadmap to making these moments count.

These moments start to build on one another, creating the sort of momentum that lifts our communities to new heights.

There's the moment when Rhodes Scholar Nayani Jensen proved that her engineering and literary pursuits can not only co-exist but thrive alongside one another. When researcher and balsam fir tree expert Raj Lada started a one-of-a-kind partnership with local industry. The moment Ocean Supercluster, a cross-sector collaboration, resulted in a legacy-making investment. And when student Kayla Beals was encouraged to pursue her dream of a career in health care.

As we begin our third century, we're proud to be building that momentum with you.

  
Richard Florizone  
President & Vice-Chancellor

## SPOTLIGHT ON STUDENT ACHIEVEMENT

# 91<sup>ST</sup> RHODES SCHOLAR

Nayani Jensen was always drawn to both the sciences and the arts. She grew up with a deep fascination of everything from bugs and birds to gears and clocks. But she also loved playing the violin, was an avid reader and did a lot of writing, too.

When she started university, Nayani assumed she'd have to choose one or the other. So, she began her Mechanical Engineering degree with a plan to return to her creative pursuits after graduation. Instead, she discovered that she really needed both to be successful.

And succeed she did — becoming Dalhousie's 91<sup>st</sup> Rhodes Scholar.

The prestigious Rhodes Scholarship covers travel and study for two years at the University of Oxford with an option for a third. Only 95 Rhodes Scholars are selected each year, 11 of them from Canada. Not just about academics or extracurricular pursuits, it's an award that celebrates leadership, compassion, commitment to others and the potential to make a difference on the world stage.

That sums up Nayani, a co-op student who's also an author, a playwright, a musician, an environmental researcher and a community volunteer.

While Nayani's positive co-op experiences have put her on track for a future in engineering research, she's going to Oxford first, to pursue a senior BA in English Language and Literature.

Nayani's achievements are just one example of how Dal students challenge themselves to go beyond their degree to enrich their experience and enhance their communities. We're proud to recognize their dedication, talent and hard work.

### SHAPED BY STRATEGY

Core principles in action:

- Teaching and Learning
- Service



## FINDING SMART SOLUTIONS

When he realized one of Atlantic Canada's most important agricultural industries needed help, Dr. Raj Lada decided to make future-proofing Christmas trees a personal challenge.

Raj started his balsam fir research in 2005, with a small experiment to address the problem of dropping needles. By 2011, the National Christmas Tree Research Centre had been created — the only one in the world. Now, the Centre has licensed three products that promise to revolutionize Atlantic Canada's tree and greenery industry.

The first commercial results include a "SMART Balsam," which boasts a full, sturdy architecture, unique fragrance, blue-green needles and the ability to retain its needles for up to three months, if properly handled.

Three months — that kind of needle retention will allow trees to be shipped farther and more reliably, giving Nova Scotia Christmas trees an edge over the competition. It also gives real trees a fighting chance against the increasingly popular artificial lookalikes.

The technology is being licensed to members of the SMART Christmas Tree Research Cooperative and seedlings should be available for planting this spring. In the meantime, Raj and his team are developing two additional pending technologies including a delaying agent or spray and a protocol for post-harvest storage and transport.

Raj's dedication to looking for solutions that go beyond the lab is helping to strengthen our local industry. It's an example of how Dal researchers are helping to find answers to issues here at home and around the world.

### SHAPED BY STRATEGY

Core principles in action:

- Teaching and Learning
- Research
- Partnerships and Reputation



## STRENGTH IN NUMBERS

It started as a dinner reservation for six: an opportunity to discuss an idea for the new Government of Canada Innovation Supercluster Initiative. From there, the idea's potential was tested and continually validated until more than 70 organizations had agreed to combine their resources to find solutions to their shared challenges and expand the ocean economy.

This past February, the Ocean Supercluster was announced as one of five successful initiatives in the government competition — attracting federal money to match the more than \$200 million in cash and in-kind investments contributed by organizations from different ocean sectors across Atlantic Canada. The vision is to grow the ocean industry into one of the most significant, sustainable and valuable segments of Canada's economy.

While industry is leading the charge, Dal played a key role in the development of the proposal and will continue to lend expertise — most notably through the Ocean Frontier Institute's international network of scientific expertise.

Cluster initiatives have a proven track record in places like Norway, which has an ocean economy 6.5 times larger than Canada's with only about one-seventh the population. By bringing together companies, academic institutions and not-for-profit organizations, the Ocean Supercluster will create a collaborative environment that finds innovative solutions for issues they all share. Working together to develop our vast ocean potential.

The Ocean Supercluster is just one of the many ways Dalhousie collaborates with industry, government and community to help make the most of our strengths and grow our local economies.

### SHAPED BY STRATEGY

Core principles in action:

- Research
- Partnerships and Reputation

## SPOTLIGHT ON DIVERSITY & INCLUSIVENESS

# FROM CAMP TO CAMPUS

Kayla Beals knew from a young age that she wanted to work in the health-care sector. So, when she heard about the PLANS African Nova Scotian Health Science Day Camp at Dal, she jumped at the chance to take part.

Four years later, she's returned to campus — this time as a Medical Sciences student with nearly \$50,000 in scholarships. She says the camp helped her decide to focus on becoming a medical doctor (MD) and gave her the tools she needed to plot that path.

PLANS (Promoting Leadership in Health for African Nova Scotians) Day Camps are designed to inspire young Nova Scotians of African descent to consider a career in health care. This past year, camps were held at Dalhousie as well as Cape Breton University and St. Francis Xavier University. There's also a new Prep Institute to help students develop the skills to succeed in their final years of high school and pursue university programs in the health sciences.

Kayla is happy to see more students of African descent pursuing medical degrees at Dal. This past year, the university graduated six MDs of African descent — its largest class yet. Each of the 2017 graduates were helped along the way by ongoing support from PLANS for students in the faculties of Medicine, Dentistry and Health.

Programs like PLANS help ensure our campus reflects the diversity in our community by supporting access for under-represented groups. After all, creating a welcoming environment demands engagement from all of us.



### SHAPED BY STRATEGY

Core principles in action:

Teaching and Learning

Infrastructure and Support



## YEAR IN REVIEW

From research breakthroughs and entrepreneurial innovation to building more inclusive communities, our people and partners found many ways to make their mark in the past year.



### Challenging convention

Evolutionary biologist Ford Doolittle won the Killam Prize in the Natural Sciences — the second year in a row that a Dal researcher has received the prestigious award. Dr. Doolittle's disruptive approach to science has helped cement his status as one of the world's top molecular biologists. Perhaps best known for questioning Charles Darwin's 'Tree of Life,' his work on the phenomenon of gene swapping has been used to explain why some bacteria develop resistance to antibiotics.



### Students in the community

Last year saw the inaugural class of Dalhousie Medical School's Service Learning Program, an add-on to the second-year Medicine curriculum that pairs students with community partners for a real-world learning experience. Students say the program is a great opportunity to provide something valuable to local, health-related organizations and to learn about the health-care system from different perspectives.



### Startup acceleration

The Rowe School of Business became the hub for the Atlantic offshoot of Creative Destruction Lab (CDL), a program based at the University of Toronto's Rotman School of Management. CDL-Atlantic provides startups with access to a network of accomplished entrepreneurs and investors through a nine-month, milestone-based mentoring program. In addition to a general stream, Dal's program leverages the unique strengths of the region with specialty programs for ocean, clean and agri-food technology companies.



### Fishing footprint

For the first time ever, a precise image of the massive scale of global fishing activity confirms that fishing covers at least 55 per cent of the ocean. Dal PhD student Kristina Boerder and fellow Dal ecologist Boris Worm are part of the international, multidisciplinary team contributing to the data. Technology developed with input from Dal Computer Science researchers has made this data free to access online — bringing a new level of transparency to the commercial fishing industry.



### Research Chair

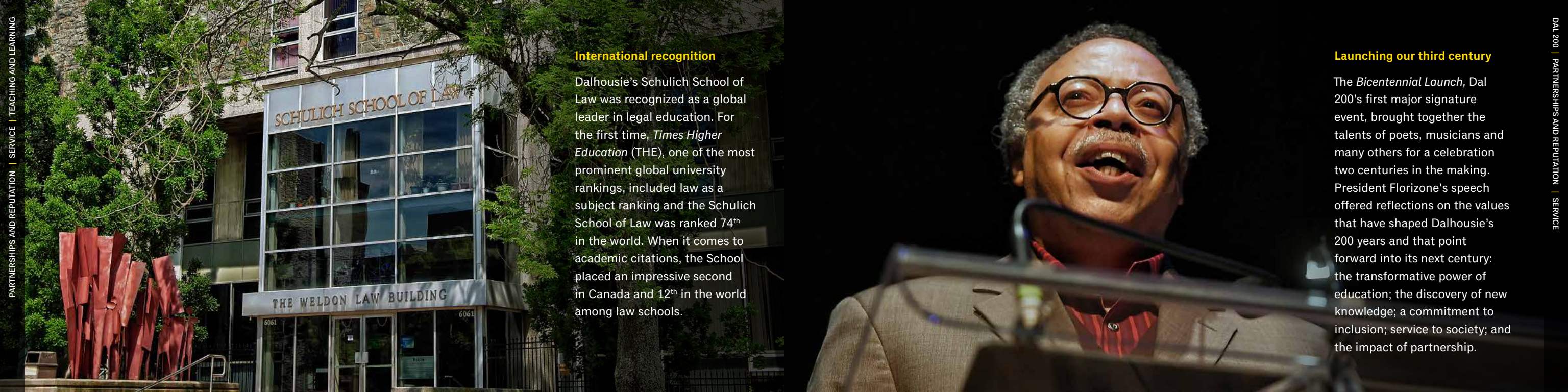
Dr. Katherine O'Brien, world-renowned researcher in the field of international health, vaccines and epidemiology, has been announced as the Canada 150 Research Chair in Vaccinology and Global Health. In this role, Dr. O'Brien will be conducting clinical, epidemiologic and policy based research, testing innovations in vaccine use, access and delivery, and generating evidence on the value of vaccines to inform vaccine policy decision-making domestically and internationally.



### Listening for the right answer

Last summer, almost 2 per cent of the critically endangered North Atlantic right whale population were found dead in a matter of months. Over the last few years, Dalhousie's Kimberley Davies and Chris Taggart have been monitoring vessel strike issues through the Whales, Habitat and Listening Experiment (WHaLE) project, which uses acoustic technology, autonomous underwater vehicles (AUVs) and existing marine-tracking infrastructure.

Photo by: H. Moors-Murphy



**International recognition**

Dalhousie's Schulich School of Law was recognized as a global leader in legal education. For the first time, *Times Higher Education* (THE), one of the most prominent global university rankings, included law as a subject ranking and the Schulich School of Law was ranked 74<sup>th</sup> in the world. When it comes to academic citations, the School placed an impressive second in Canada and 12<sup>th</sup> in the world among law schools.

**Launching our third century**

The *Bicentennial Launch*, Dal 200's first major signature event, brought together the talents of poets, musicians and many others for a celebration two centuries in the making. President Florizone's speech offered reflections on the values that have shaped Dalhousie's 200 years and that point forward into its next century: the transformative power of education; the discovery of new knowledge; a commitment to inclusion; service to society; and the impact of partnership.



**Order of Canada**

Schulich School of Law Professor Jocelyn Downie was among 125 new Order of Canada appointees named in the Governor General's year-end list. Celebrated for her contributions to Canadian health law and policy, Prof. Downie's primary focus has been on end-of-life law, policy and care — voluntary euthanasia, assisted suicide, terminal sedation and unilateral withholding or withdrawal of potentially life-sustaining treatment.

**Student Leadership**

Dalhousie's Board of Governors' Awards are presented annually to recognize exceptional student contributions or leadership in the community, on campus or beyond. The recipients are nominated by their Dal peers and chosen by the president, three Board members and the vice-provost student affairs. Yaser Alkayale, Computer Science; Martha Paynter, Nursing (PhD); Jad Sinno, Psychiatry Research (Master's); Leah Carrier, Nursing; and Jeremy Stroud, International Food Business were honoured at this year's Student Impact Awards.

## TURNING 200

Two hundred years of academic excellence, transformational research and community building have led to this milestone moment in Dalhousie's history. As we embark on our third century, our legacy lives in our contributions to the community and the impact we make around the world.

Learn more at [dal200.ca](http://dal200.ca)



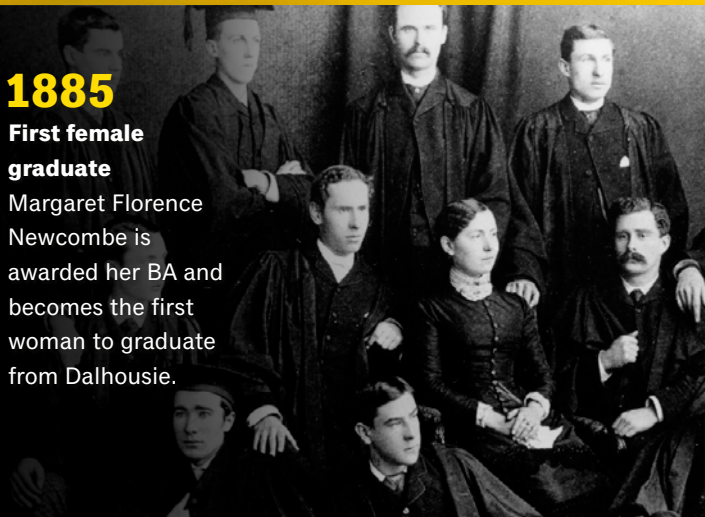
# 200<sup>TH</sup> MILESTONES

From the beginning, Dalhousie has aspired to the highest academic standards and to serve our communities. Take a journey back through some of the highlights from the past 200 years.

## 1885

### First female graduate

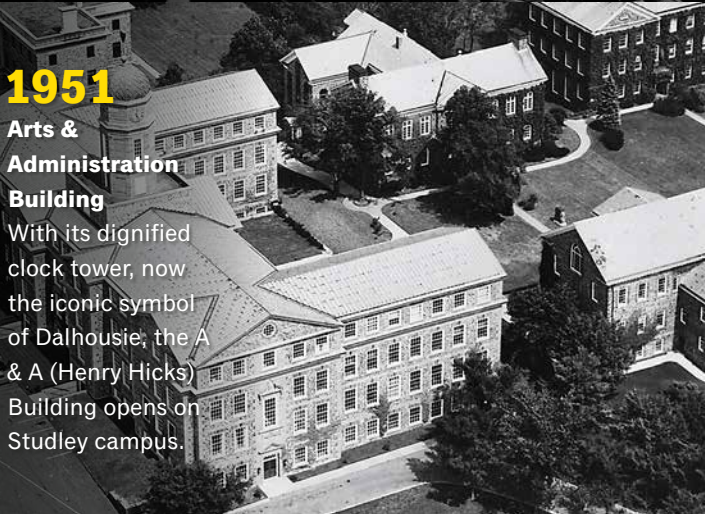
Margaret Florence Newcombe is awarded her BA and becomes the first woman to graduate from Dalhousie.



## 1951

### Arts & Administration Building

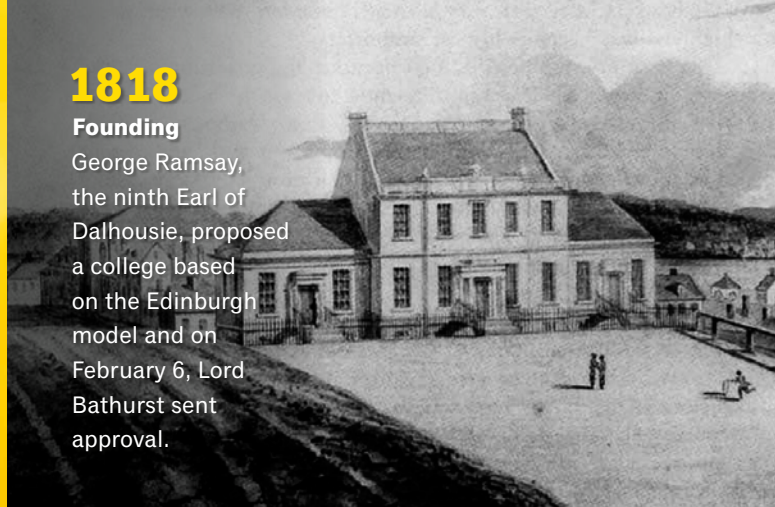
With its dignified clock tower, now the iconic symbol of Dalhousie, the A & A (Henry Hicks) Building opens on Studley campus.



## 1818

### Founding

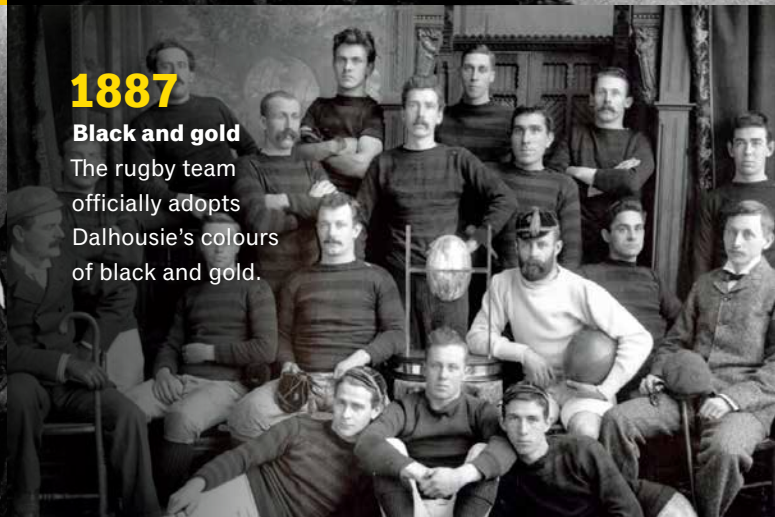
George Ramsay, the ninth Earl of Dalhousie, proposed a college based on the Edinburgh model and on February 6, Lord Bathurst sent approval.



## 1887

### Black and gold

The rugby team officially adopts Dalhousie's colours of black and gold.



## 1964

### Arthur McDonald graduates

Arthur B. McDonald, co-recipient of the 2015 Nobel Prize in Physics, graduates with his first of two Dalhousie degrees (BSc'64, MSc'65).

