

**Minutes of a meeting of Senate held on the above date at 1:30 p.m. Remotely via Zoom  
Audio Conference**

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**Members Present**

Dr. M. Benarroch,  
Chair  
Dr. A. Abra  
Dr. C. Adams  
Mr. A.K.M. Monsural  
Alam  
Prof. J. Anderson  
Prof. K. Anderson  
Ms. N. Andrew  
Ms. R. Antymis  
Prof. J. Arino  
Prof. L. Balneaves  
Prof. R. Biscontri  
Prof. P. Blunden  
Prof. T. Bone  
Very Rev. R. Bozyk  
Dean D. Brown  
Prof. A. Bunt  
Prof. J. Chen  
Prof. T. Chen  
Prof. R. Chernomas  
Prof. D. Churchill  
Prof. N. Cicek  
Prof. A. Clay  
Dr. C. Cook  
Mr. T. Dobrowney  
Mr. Wm. Dowie  
Dean N. Dyck  
Prof. R. Eskicioglu  
Prof. S. Ferris  
Prof. R. Field  
Prof. C. Figley  
Dean M. Friesen  
Prof. J. Gamble  
Prof. M. Garcia-  
Holguera  
Prof. J.-E. Ghia  
Prof. J. Ghomeshi  
Prof. N. Greidanus  
Prof. M. Hart  
Dr. D. Hiebert-  
Murphy  
Prof. M. Hudson

Mr. C. Hutchison  
Prof. I. Jeffrey  
Dean R. Jochelson  
Dean E. Jurkowski  
Dean A. Kelekis-  
Cholakis  
Ms. C. Kokolo  
Ms. V. Koldingnes  
Prof. S. Kouritzin  
Prof. M. Kramer  
Acting Dean R.  
Lastra  
Prof. F. Laurencelle  
Prof. J. Lavoie  
Mr. P. Layug  
Ms. A. Leger  
Prof. D. Lobb  
Prof. H. Luo  
Prof. L. MacDonald  
Prof. M. McKenzie  
Acting Dean K. Main  
Dean B. Mark  
Prof. D. Martin  
Ms. C. Neilson  
Mr. D. Ness  
Prof. G. Nickel  
Ms. Z. Odribets  
Prof. D. Oliver  
Prof. J. Paliwal  
Prof. J. Patzer  
Prof. J. Peeler  
Dean S. Pflugmacher  
Lima  
Dr. M. Pinto  
Prof. S. Prentice  
Prof. C. Reitano  
Prof. K. Rochon  
Mr. J. Rykiss  
Dean. M. Scanlon  
Ms. L. Schnarr  
Prof. K. Scott  
Mr. M. Shaw  
Prof. J. Sinclair  
Ms. R. Smith  
Mr. G. Sobie

Prof. V. Sparks  
Prof. J. Sorensen  
Prof. R.  
Souleymanov  
Ms. J. Sprague  
Prof. S. Teetzel  
Prof. G. Thompson  
Prof. G. Tranmer  
Prof. S. Webber  
Dean M. Yellow Bird  
Prof. F. Zeiler  
Mr. J. Leclerc,  
University Secretary  
Dr. S. Coyston,  
Recording  
Secretary

**Assessors Present**

Mr. J. Adams  
Ms. C. Cyr  
Prof. S. Kirkland  
Prof. K. Kumar  
Prof. D. McNeill  
Dr. C. Miller  
Dr. D. Radi  
Ms. V. Romero  
Prof. G. Smith  
Dr. D. Stewart  
Prof. E. Thomson  
Dr. M. Torchia

**Regrets**

Prof. A. Alessi-Severini  
Prof. M. Anderson  
Ms. M. Babb  
Rectrice S. Bouffard  
Prof. M. Campbell  
Ms. C. Carkener  
Dr. I. Fakankun  
Prof. A. Farrell  
Prof. P. Ferguson  
Mr. J. Funk  
Dean M. Locher

Prof. K. McManus  
Prof. D. Mackey  
Chancellor A. Mahon  
Prof. M. Morris  
Dean P. Nickerson  
Ms. L. O'Hara  
Prof. T. Reeve  
Prof. C. Simonot-  
Maiello  
Dean J. Taylor  
Dean R. Urbanowski

**Absent**

Ms. M. Baier  
Prof. D. Beach  
Ducharme  
Prof. S. Clark  
Mr. N. de Hoop  
Prof. E. Eftekharpour  
Acting Dean C. Enns  
Prof. A. Farenhorst  
Ms. D. Gutierrez  
Prof. A. Halayko  
Mr. K. Harb  
Ms. E. Kalo  
Mr. Wm. Lazarenko  
Prof. S. Mallory-Hill  
Prof. D. Medoro  
Prof. Q. Mujawar  
Mr. U. Nwankwo  
Dr. T. Peter  
Dean L. Raman-Wilms  
Ms. D. Segal  
Ms. S. Sekander  
Dean B. Silvestre  
Ms. M. Singla  
Ms. B. Usick

**Also Present**

Ms. R. Dhaliwal  
Ms. C. Davidson  
Miss K. Edwards  
Ms. P. Gareau

Prof. G. Giesbrecht  
Ms. L. Orsak-Williams  
Ms. M. Sabourin  
Ms. L. Taylor  
Ms. M. Watson  
Ms. M. Yoshida

The Chair informed Senate that the Speaker of the Senate Executive Committee was Professor Rusty Souleymanov, Faculty of Social Work.

President Benarroch addressed a matter that had arisen during Closed Session at the previous meeting, when there had been a discussion regarding the importance of diversity in nominations of candidates for honorary degrees. Following the meeting he and many others had reflected on the discussion that occurred and he had also heard from several Senators who had been present during the discussion. President Benarroch reiterated that every member of the University community needs to call out discrimination, inequity, and racism, whether structural or overt, when they see it happen. He said he and the University were fully committed to doing this and to amplifying the voices of others when others do so. President Benarroch said, reflecting back on the previous meeting, he believed he could have responded better to the issues that arose, and he apologized.

President Benarroch said the *President's Task Force on Equity, Diversity, and Inclusion, Final Report, December 2020*, is clear that the University and Senate have more work to do, to build an equitable, diverse, and inclusive institution. The work will require members of the University community to reflect on actions, biases, and structures, individually and as an institution, and to challenge the status quo that has systematically excluded, marginalized, and diminished communities and individuals. The recommendations in the Report are clear and communicate that all members of the University community are expected to promote the institution's work in advancing principles of equity, diversity, and inclusion. Efforts to do so are an important service to the University that must be recognized as such. President Benarroch said all members of the University and of Senate must feel empowered and safe to speak out and to contribute to discussions. He had heard from several Senators following the last meeting that they did not feel safe enough to speak out. He restated his commitment and the institution's commitment to ensure its members are free to speak out and he invited people to reach out to him, if they did not feel safe to do so, as some had done after the last meeting.

President Benarroch said the work of advancing equity, diversity, and inclusion and dismantling discriminatory systems belonged to everyone. He thanked all those who were demonstrating a commitment to this work. Members of the University community throughout the institution remain committed to continuing to learn and to work together to lead meaningful progress. He acknowledged the work was difficult and some might feel threatened by some of it, but it was important to continue to move on a path that empowers people within the institution.

President Benarroch thanked Senate for allowing him the opportunity to respond, as he believed that it was important for him to do so, with a message that should resonate with everyone in the University community.

**I MATTERS TO BE CONSIDERED IN CLOSED SESSION - none**

**II MATTERS RECOMMENDED FOR CONCURRENCE WITHOUT DEBATE**

- |   |         |
|---|---------|
| <b>1. <u>2023-2024 Academic Schedule</u></b>  | Page 3  |
| <b>2. <u>Report of the Senate Committee on University Research<br/>RE: Periodic Review, University of Manitoba Transport Institute,<br/>Request for Extension of Term</u></b> | Page 25 |

**Professor Souleymanov MOVED, on behalf of the Senate Executive Committee, THAT Senate approve the:**

- **2023-2024 Academic Schedule**
- **Report of the Senate Committee on University Research regarding the periodic review of the University of Manitoba Transport Institute, including a recommendation that the Institute continue in its present form until June 30, 2023.**

**CARRIED**

### **III MATTERS FORWARDED FOR INFORMATION**

1. **Report of the Senate Committee on Appeals  
[October 5, 2022]** Page 26
2. **Items Approved by the Board of Governors  
[September 28, 2022]** Page 28

### **IV REPORT OF THE PRESIDENT**

President Benarroch reported, with respect to the province's plan to introduce a Post-Secondary Accountability Framework, that the University had not met the province's October 14<sup>th</sup> deadline to submit proposed metrics. The University had written to the province to request that the government provide a report on feedback it had received through public consultations, as it was important for the University to understand what that feedback had been. The University had yet to receive a report. President Benarroch said he understood the University's request was in keeping with responses other postsecondary institutions had made to the government. The Office of Institutional Analysis had been asked to provide historical data that could be used to identify metrics the University could suggest to the province that would be measurable and would not undermine the institution's mission. The University remained concerned about the possibility that financial factors would be associated with metrics and was continuing to communicate these concerns to the province. President Benarroch indicated draft metrics would be brought to Senate for discussion when these were available.

President Benarroch said the October 2022 Convocation ceremonies, including three held at the Fort Garry Campus and one at the Bannatyne Campus, had been very successful and joyful. He thanked individuals involved in organizing and carrying out the Convocation ceremonies for their great work, recognizing that many had taken time from their roles at the University to volunteer.

President Benarroch joined the Senate meeting from Ottawa, Ontario, where the University was hosting an alumni event that evening. Over the previous two weeks, he and other University representatives, including many of the Deans, had attended events in Calgary, Alberta, Vancouver, British Columbia, and Toronto, Ontario. The return to in-person events following two years of virtual activities was positive. President Benarroch said, at each event, he had carried out a thirty-minute interview with a faculty member, to showcase the amazing research being carried out at the University. He reported that the interviews and the information shared had been well-received by alumni.

President Benarroch invited Mr. Leclerc, University Secretary, to provide an update on the Senate review.

Mr. Leclerc said a Senate Review Working Group had been struck. The membership included nineteen individuals from across the campus, including Senators, other faculty, Deans and other academic administrators, and staff in academic and administrative units whose work connects with the Senate process. At its initial meeting on October 27<sup>th</sup>, the Working Group had received, for its consideration, a *Senate Committee and Process Review Discussion Paper* prepared by Mr. Leclerc based on the results of the Senate Assessment Survey (Senate, May 19, 2021) and feedback received from Senate Committee Chairs and members and other individuals across the University. The *Discussion Paper* sets out suggestions for restructuring Senate Committees and processes, and the governance processes for approving academic matters more generally. The Working Group will meet monthly and will make various recommendations to Senate over the next several months, with the objectives to ensure collegial governance processes and structures not only support the academic mission of Senate but also contemplate principles of inclusion, diversity, and equity.

President Benarroch said he had written to the Minister of Advanced Education, Skills and Immigration to request that the province reinstate provincial health insurance for international students. The University of Manitoba Students' Union (UMSU) and the University of Manitoba Graduate Students' Association (UMGSA) had also written to the province to lobby the government on this matter.

Mr. Rykiss and Ms. Romero each thanked President Benarroch for responding to their request, to write to the province on behalf of the University. Ms. Romero reported that the President of Red River College Polytechnic had also written to the province, in response to the same request.

President Benarroch said Ms. Dhaliwal, Associate Vice-President (Administration), had recently made a presentation to the President's Executive Team on the University's Climate Action Plan. He felt this was important information to share and to receive Senate's feedback on. He invited Ms. Andrew, Vice-President (Administration), to offer some initial remarks.

Ms. Andrew informed Senate that, in 2019, the University had contracted Sustainability Solutions Group to develop a Climate Action Plan for the institution to reach its target of zero emissions of greenhouse gases by 2050. She thanked members of the University of Manitoba Sustainability Committee (UM Sustainability Committee), whose work on the Committee will continue to be important to meeting the target.

Ms. Andrew invited Ms. Dhaliwal to make a presentation on *UM Climate Action Plan, 2022 – 2025*. A copy of the presentation is appended to the minutes of the meeting.

President Benarroch thanked Ms. Dhaliwal for the presentation.

Professor Miller said, although the carbon tax implications of failing to reduce greenhouse gas emissions would be significant, it was important to note that hydro power was not clean. Generation of hydro power causes significant silting in rivers, which results in increased mercury levels in the province's rivers and lakes from which

people catch the fish they eat. Its significant impacts on Indigenous communities include that it has contributed to some Indigenous people relying on welfare where they could have engaged in commercial fishing and tourism industries, for example. Professor Miller encouraged those developing the Climate Action Plan to consider the equity impact when determining the degree to which the University would want to rely on hydroelectricity rather than other forms of renewable energy, including wind power, which had not been mentioned in the presentation.

Ms. Dhaliwal acknowledged the issues raised by Professor Miller. She said the Climate Action Plan would be the starting point for in-depth assessments of other possible sources of energy including landfill gas, which was currently being discussed with the City of Winnipeg, geothermal, and other sources of renewable energy. The UM Sustainability Committee would discuss how to advance that work before bringing additional information back to Senate for further discussion.

Other Senators underlined the point raised by Professor Miller that hydroelectric power is not clean and the impacts on Indigenous communities must be recognized. Professor Ferris remarked that damage to Indigenous communities in Manitoba had been extensively documented and said she would not want an institution she was part of to claim that hydro power is clean energy. Professor Lavoie remarked on the fact that work on developing a Climate Action Plan was being done concurrently with, but was not coordinated with, work on developing a UM Reconciliation Action Plan. She proposed, given the University's commitment to reconciliation, that this should be the dominant lens when developing such plans, and said she would like to see this happen in a more systematized way.

Professor Hudson thanked Ms. Dhaliwal for the presentation and Ms. Andrew for her comments regarding the UM Sustainability Committee, which had done significant work over many years on climate action and a variety of sustainability issues. He recognized Professor Sinclair, Director, Natural Resources Institute, Clayton H. Riddell Faculty of Environment, Earth, and Resources, who had served on the Committee for many years. Referring to the slide that identifies investment requirements, Professor Hudson enquired about a reference to the need for an emissions gap investment (\$7.3 million); specifically, whether it referred to the potential need to purchase carbon offsets in the voluntary carbon market if it was not possible to reduce emissions to zero.

Ms. Dhaliwal confirmed the Climate Action Plan anticipated the need to purchase carbon credits. She acknowledged the UM Sustainability Committee had previously raised concerns about this and indicated the matter would be brought to the Committee for discussion; specifically, to discuss ways to potentially reduce the emissions gap and the need to purchase carbon credits.

Professor Hudson enquired about planned changes to the membership structure of the UM Sustainability Committee. Recognizing that these were being considered as part of the review of the *Sustainability* policy and procedure, he expressed his hope that the Committee would not become centralized and that its membership would continue to include faculty and student representatives, who have deep expertise on many sustainability issues. He remarked that he has been impressed at that Committee by the diversity of voices from across the University.

Ms. Dhaliwal said changes to the membership of the UM Sustainability being considered concerned the positions for the Chair and Co-Chairs. The changes were needed given the level of investment and responsibility individuals in these roles would have outside of the meetings, for advancing the Climate Action Plan. Ms. Andrew added that changes would be made to create a more diverse and robust membership that would include faculty, staff, and students, including representatives of UMSU and UMGSA, and Indigenous representation. Ms. Dhaliwal said current committee members who have been engaged with the Committee would remain on the Committee. Proposed changes to the membership would be discussed at an upcoming meeting of the Committee.

Mr. Dowie said, ideally, the Climate Action Plan would consider not only environmental components of sustainability but also economic, political, social, and cultural aspects. He suggested the Plan should not be finalized before the University developed the strategic plan, as he envisioned the Climate Action Plan would be central to that document.

Professor Lastra observed, first, that there were spaces on the campus that might be used to generate solar power and, second, that the resources required to switch to alternate forms of energy, to reduce the institution's carbon footprint would be significant. He asked if consideration had been given to using smart building technologies or Building Information Modelling (BIM) to retrofit existing buildings on the University's campuses to reduce energy use.

Ms. Dhaliwal said the University's energy strategy was under review, for the campus as a whole versus individual buildings. She said it would be possible to realize significant energy savings once the University made changes to its central energy plant. It had received funding to replace gas two boilers with electric boilers that will increase energy efficiency. The possibility of retrofitting existing buildings with heat pumps has been explored, the use of geothermal energy will also be examined, and an independent external assessment will be obtained, to determine the best approach for the University.

President Benarroch agreed that the possibility of retrofitting existing buildings should be explored, given energy used in these buildings was a significant component of the institution's carbon footprint.

Dean Yellow Bird asked if the Climate Action Plan would ask anything of members of the University community, as individuals; for example, to track their own carbon footprint or to offer a credit or rebate to raise awareness and consciousness and to engage all employees in the efforts that will be required to meet the target of zero emissions.

Ms. Dhaliwal agreed that the Climate Action Plan would only be successful if everyone participates. The action integration committee would be key to encouraging everyone at the University to get involved. Other institutions had created sustainability champions and offered points for units that brought forward innovative sustainability ideas, as a way to generate interest and increase participation.

Professor Miller asked if it would be possible to offset the University's carbon footprint through steps employees take to reduce greenhouse gas emissions in their homes; for example, by installing solar panels. Ms. Dhaliwal said the University could investigate this.



Professor Oliver acknowledged it would be important for everyone at the University to engage for the Climate Action Plan to succeed but suggested it would be important not to lose sight of scale in terms of reducing carbon production and emissions. It might be important for the University to consider a public demonstration of its divestment from any investments in carbon producing activities and companies, which would also directly impact on the market. There has been discussion about individual programs being a distraction from massive corporate responsibilities that must be considered.

Ms. Andrew replied that the Trust Investment Committee had recently endorsed recommendations from the Responsible Investment Committee, which, if they should be approved by the Board of Governors, would bring the University in line with other institutions. Additionally, it had made recommendations regarding Indigenous rights that would be unique to the University of Manitoba.

Professor Hudson agreed it was important to be attentive to issues of scale and accountability. He confirmed that, if the recommendations of the Responsible Investment Committee were approved by the Board, the University would join leading postsecondary institutions, in terms of addressing the impact of its investments on its carbon footprint. The recommendations included specific and strong language concerning investments that would put the institution on an accelerated schedule to be divested from fossil fuel producing corporations. The recommendations also include unique language concerning divestment from firms that demonstrably run afoul of the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) and other aspects concerning divestments and human rights issues and the responsibilities of the University's asset managers to investigate these things.

President Benarroch invited Senators to provide any additional feedback to Ms. Dhaliwal or Ms. Andrew.

## **V QUESTION PERIOD**

Senators are reminded that questions related to matters not on the agenda shall normally be submitted in writing to the University Secretary no later than 10:00 a.m. of the Monday preceding the meeting. Questions pertaining to items on the agenda can be asked during the Senate meeting and do not require submission in advance.

No questions were received.

## **VI CONSIDERATION OF THE MINUTES OF THE MEETING OF OCTOBER 6, 2022**

**Professor Oliver MOVED, seconded by Dean Jurkowski, THAT the minutes of the Senate meeting held on October 6, 2022, be approved as circulated.**

**CARRIED**

## **VII BUSINESS ARISING FROM THE MINUTES - none**



## VIII **REPORTS OF THE SENATE EXECUTIVE COMMITTEE AND THE SENATE PLANNING AND PRIORITIES COMMITTEE**

### 1. **Report of the Senate Executive Committee**

Page 29

Professor Souleymanov reported that the Senate Executive Committee met on October 19, 2022. The comments of the committee accompany the reports on which they were made.

### 2. **Report of the Senate Planning and Priorities Committee**

Professor Oliver reported that the meeting of the Senate Planning and Priorities Committee (SPPC) originally scheduled for October 31<sup>st</sup> had been postponed to November 3<sup>rd</sup>, as the original date conflicted with the initial UM Reconciliation Action Plan planning session.

Professor Oliver referred Senators to items IX (1) (a) and IX (1) (b) on the agenda, for the comments of the SPPC on proposals for an M.Sc. and Ph.D. in Pediatrics and Child Health and a Ph.D. in Pathology and Laboratory Medicine, respectively, which the Committee had considered at its meetings in August and September 2022.

## IX **REPORTS OF OTHER COMMITTEES OF SENATE, FACULTY AND SCHOOL COUNCILS**

### 1. **Reports of the Faculty Council of the Faculty of Graduate Studies**

#### a) **RE: Proposals for a Master of Science and a Doctor of Philosophy in Pediatrics and Child Health, Department of Pediatrics and Child Health**

Page 30

Acting Dean Main briefly reviewed proposals from the Department of Pediatrics and Child Health for a Master of Science and a Doctor of Philosophy in Pediatrics and Child Health. The programs would offer students opportunities to pursue multidisciplinary and collaborative scientific training focused on the children for whom they provide care. If the programs were approved and implemented, they would fill a critical gap in graduate-level training in pediatrics and child health. Similar programs are offered only at one other institution, the University of Alberta.

The multidisciplinary nature of the curriculum of both the M.Sc. and the Ph.D. programs would require students to complete courses from all four of the disciplinary research pillars that exist within the Department, including: clinical research, basic sciences, population health, and practice and policy. The M.Sc. would require a thesis plus 12 credit hours of coursework, including 9 credit hours of core courses and 3 credit hours of elective courses. The Ph.D. would require a thesis and 15 credit hours of coursework, including 3 credit hours of core courses and 12 credit hours of electives.

Acting Dean Main said establishment of the programs would require the introduction of seventeen courses. She referred the Committee to letters of support received from

various departments across the campus, which reflected the degree of enthusiasm and support for the proposed programs. An external review of proposal was very positive and the Department had made several changes to the proposal based on the review.

(i) **Report of Senate Planning and Priorities Committee** Page 35

Professor Oliver said new fractional positions required to support the programs would be recovered through fees generated by the proposal and other resource implications would be covered by existing resources within the Department.

**Acting Dean Main MOVED, seconded by Professor MacDonald, THAT Senate recommend that the Board of Governors approve a proposal to establish a Master of Science in Pediatrics and Child Health and a Doctor of Philosophy in Pediatrics and Child Health, in the Department of Pediatrics and Child Health, Max Rady College of Medicine.**

**CARRIED**

b) **RE: Proposal for a Doctor of Philosophy in Pathology and Laboratory Medicine, Department of Pathology** Page 217

Acting Dean Main briefly reviewed a proposal from the Department of Pathology to establish a Doctor of Philosophy in Pathology and Laboratory Medicine. If it was established, the research-oriented program would provide an opportunity for students to receive training in pathology at the graduate level. The curriculum, which would make use of existing courses, would include 12 credit hours of coursework, including one required 3 credit hour course and 9 credit hours of electives. Acting Dean Main observed that, while there were other Canadian institutions that offer a Ph.D. in Pathology, there was no institution in the prairie provinces offering this credential. Establishment of the program would make it feasible for students who complete a Master of Science in Pathology at the University to remain in the province to continue their graduate studies in this area. The program proposal had received a positive external review, which identified several strengths of the program and articulated the value the program would provide for graduate students in the province.

Acting Dean Main said reviewers had suggested the Department change the name of the Master's program to align with that for the proposed Ph.D. program. A proposal to effect this change had been brought forward to the Faculty of Graduate of Studies and would be brought to Senate in due course.

(i) **Report of Senate Planning and Priorities Committee** Page 218

Professor Oliver said no additional resources were being sought by the Department, to support the proposed program, which would be funded based on tuition and existing resources within the unit.

**Acting Dean Main MOVED, seconded by Professor Oliver, THAT Senate recommend that the Board of Governors approve a proposal to establish a Doctor of Philosophy in Pathology and Laboratory Medicine, in the Department of Pathology, Max Rady College of Medicine.**

**CARRIED**

2. **Report of the Senate Committee on Admissions** Page 304  
**RE: Revised Admission Requirements, Bachelor of Education,  
Faculty of Education**

Ms. Schnarr recalled that Senate had approved changes to the admission requirements for the Bachelor of Education degree relating to the Physical Education and Music teachable majors and minors, at its meetings in October 2020 and June 2021, respectively. The proposals had included a legacy clause, to allow applicants to be admitted under the previous requirements, for the Fall 2023 and Fall 2024 intakes. Subsequently, the Faculty had realized the revised requirements were limiting to applicants who had completed qualifying courses at the University of Winnipeg, who apply in significant numbers to the B.Ed. degree in the Faculty of Education. The proposed extension would give the Faculty time to revisit the requirements and bring revisions forward to Senate, for approval, in due course.

**Ms. Schnarr MOVED, on behalf of the committee, THAT Senate approve the Report of the Senate Committee on Admissions concerning revised admission requirements for the Bachelor of Education, Faculty of Education, effective upon Senate approval.**

**CARRIED**

3. **Reports of the Senate Committee on University Research**

a) **RE: Proposal to Convert Manitoba Public Insurance** Page 308  
**Professorship in Neuroscience to a Chair**

Referring to a proposal from the Max Rady College of Medicine to convert the Manitoba Public Insurance Professorship in Neuroscience to a Chair, Dr. Pinto said the Chair would continue to align with the priorities for the College, the Rady Faculty of Health Sciences, and the University, and to support research in adult traumatic brain injury. The genesis of the Chair followed an investment in a \$3.5 million endowment fund, which had supported the Professorship, and a more recent supplement of \$1.5 million, in a separate endowment fund, that made possible the conversion to a Chair.

Dr. Pinto reported that, when the Senate Executive Committee had considered the proposal the previous week, a question had been raised regarding the inclusion of graduate student research trainees and the Committee had been satisfied that these were included under the terms of reference for the Chair.

**Dr. Pinto MOVED, on behalf of the committee, THAT Senate recommend that the Board of Governors approve a proposal to convert the Manitoba Public Insurance Professorship in Neuroscience to a Chair.**

**CARRIED**

b) **RE: Periodic Review of Centre for Earth** Page 315  
**Observation Science**

Dr. Pinto said a subcommittee of SCUR, including representatives from the Faculties of Arts, Education, and Health Sciences, had provided a glowing review of the periodic

report from the Centre for Earth Observation Science, in terms of its comments and recommendations. The review highlighted that the Centre is a flagship research centre of the University borne out in research productivity, high level of publications, and external funding, in the amount of \$5.4 million per year, awarded to members of the Centre.

Dr. Pinto said a question had been raised at the Senate Executive Committee meeting regarding community-led research. The Committee had been assured through further scrutiny of the Report of the Senate Committee on University Research, that the Centre had accomplished a great deal in terms of inclusion of First Nations and Inuit communities in community led research.

**Dr. Pinto MOVED, on behalf of the committee, THAT Senate approve the Report of the Senate Committee on University Research concerning the periodic review of the Centre for Earth Observation Science, including a recommendation that the Centre be renewed for a term of five years, from January 1, 2022, through December 31, 2026.**

**CARRIED**

X **ADDITIONAL BUSINESS** - none

XI **ADJOURNMENT**

The meeting was adjourned at 2:41 p.m.

These minutes pages 1 to 12, together with the agenda, pages 1 to 318, and the presentation, *UM Climate Action Plan , 2022 – 2025*, comprise the minutes of the meeting of Senate held on November 2, 2022.

# UM Climate Action Plan

2022 - 2050



**University  
of Manitoba**

# Agenda

- Background
  - Climate Action Plan Overview
  - Governance Structure
  - Investment and Funding Sources
  - Questions
-

# Background

2008 - The University and College Presidents' Climate Change Statement of Action for Canada, signed by President David T. Barnard

2011 - University of Manitoba Sustainability Policy created, expressing the University's commitment to sustainability

2011 - University of Manitoba Sustainability Committee established.

2012 – Sustainability Committee (and students) created Sustainability at the University of Manitoba: A Vision for Action, the first sustainability strategy.



# Background Cont'd

2013 - Office of Sustainability created to continue the vision of campus sustainability.

2019 – UM Sustainability Strategy 2019-2023 approved by Board of Governors

2020 – the UM signed the Global Universities and Colleges Climate Letter which commits all signatories to achieve carbon neutrality by 2050.

2021- Office of Sustainability (OOS) contracted Sustainability Solutions Group to develop a Climate Action Plan (CAP) to meet the University's emission reduction commitments

# Climate Action Goal

## ***Sustainability Strategy 2019-2023***

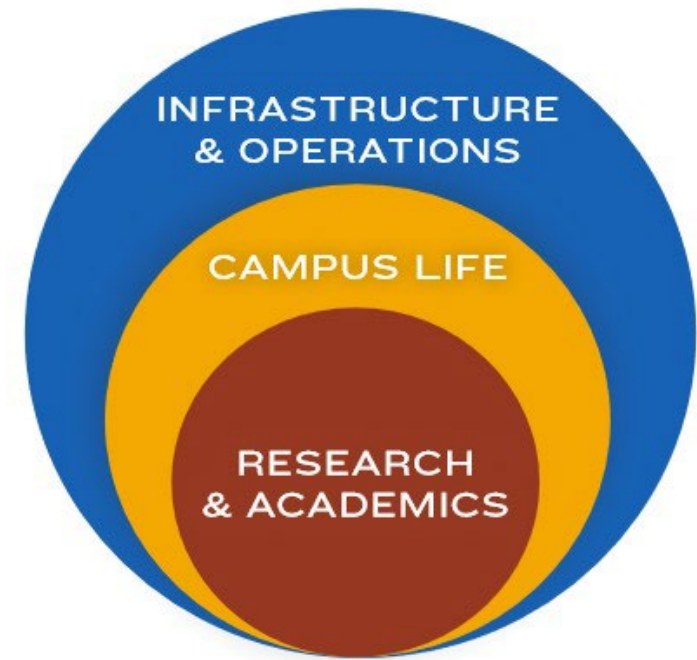
### **GOAL:**

*Reduce greenhouse gas emissions.*

- Create a climate action plan that includes targets for emission reductions, resilience and adaptation, and considers the financial benefits of planning.



UN SDGs – Goal 13, Climate Action



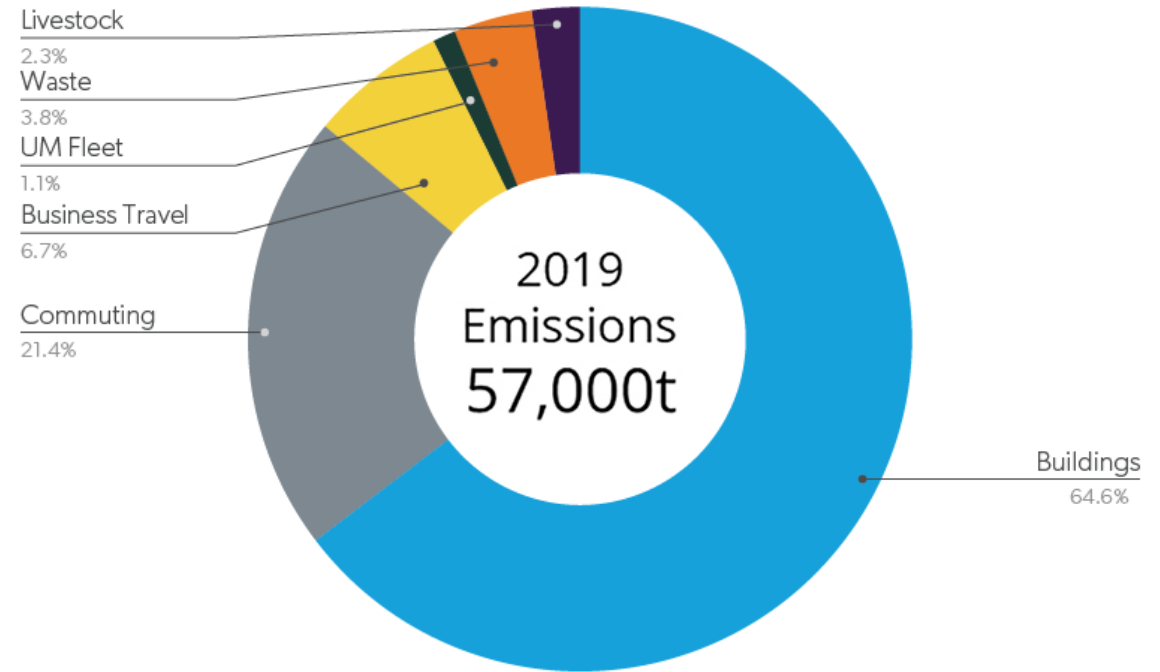
# What is the Climate Action Plan?



- Lays out a **clear pathway** to reach the determined commitment
- Founded on the most **effective approaches** to decarbonization currently available
- Developed specifically to **suit** UM's profile
- Stakeholder engagement throughout

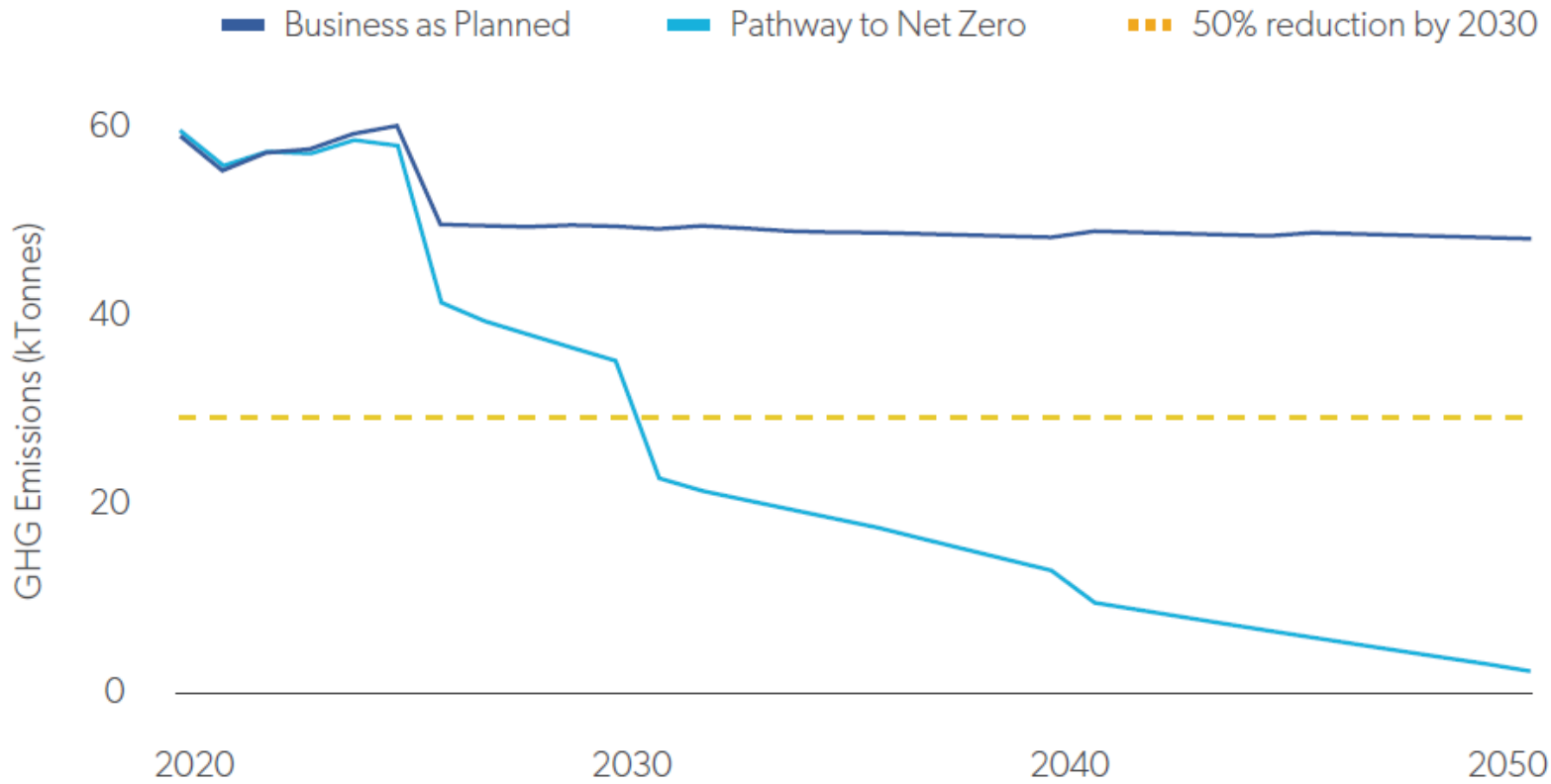
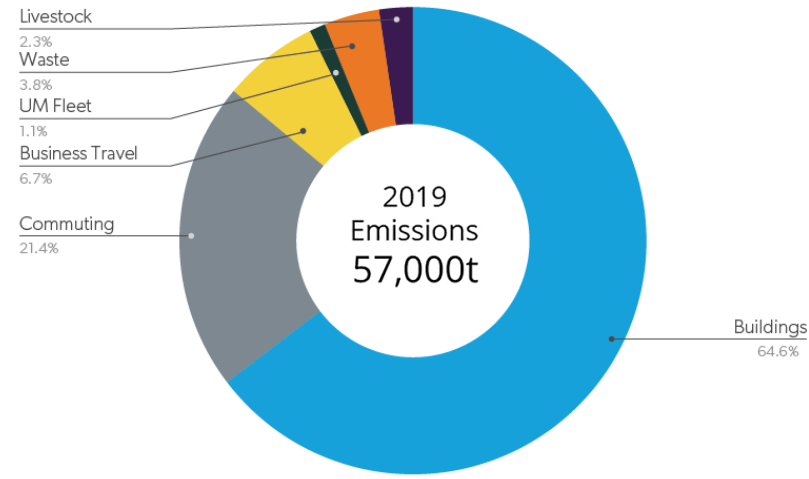
# Climate Action Plan

1. Collected historical UM data and picked a baseline year of 2019
2. Created a plan to ensure the UM reaches a **50%** reduction of emissions by 2030 and **100%** by 2050



# Comparing Options

## Business as Planned → Net Zero



### CARBON TAX

2019 - \$2.85 million @ \$50/tonne  
 2050 – \$7.75M (\$170/tonne)

Avoided carbon tax on natural gas between 2024 and 2050 is \$43.2 million.

# Boundary & Scope

## Scope 1 – direct emissions

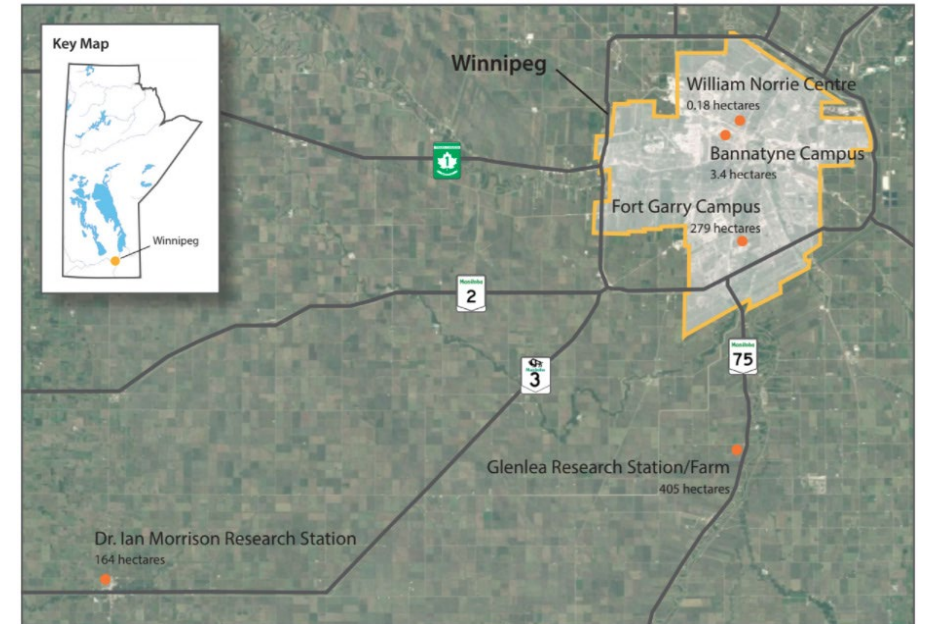
- Emissions from within the UM geographic area

## Scope 2 – indirect emissions

- Emissions produced outside the UM boundaries but consumed by the UM

## Scope 3

- Other indirect emissions not included in Scope 2



# Action to Support Pathway to Net Zero

1. Low carbon buildings
  2. Renewable Energy
  3. Commuting and Fleet
  4. Waste Reduction
  5. Restoring and reconciling
-



# 1. Low Carbon Buildings

- **New buildings:** Net zero starting in 2024.
  - **Fort Garry existing buildings:** Improve energy efficiency 20% by 2035.
  - **Bannatyne existing buildings:** Complete deep retrofits in existing buildings (75-80% efficiency improvements) by 2040.
-

## 2. Renewable Energy

- **Fort Garry DE - Electric:** Additional 3 MW of electric boilers to Fort Garry DE in 2025 (ICIP)
  - **Optimize Fort Garry DE:** Replace remaining natural gas in Fort Garry DE with RNG in 2030.
  - **Optimize energy use by Bannatyne existing buildings:** By 2040, use waste heat from DE system and indoor heat pumps.
  - **Existing Smartpark and off-campus buildings:** By 2030, 50% heat pumps and 50% RNG by 2030.
  - **Install Solar PV:** Install 7.3 MW of capacity at Ft. Garry between 2030 and 2050.
-

# 3. Commuting and Fleet

- **Electrify Commute Vehicles:** By 2040, all new personal vehicles are EVs.
  - **Review Business Travel:** By 2030.
  - **Mode Shift by 2050:** Commuting to campuses is 60% transit, 15% walking/cycling, 10% carpool, 15% SOV.
  - **Remote Working/Studying:** 2% of staff work remotely. In 2026, 5% of students are remote. In 2031, 10% of students are remote.
  - **Electrify University Fleet and Install EV Chargers:**
    - By 2030, all new LDV & equipment are electric.
    - By 2035, all new HDV are electric.
    - By 2050, fleet is 100% emissions-free and 75 EV chargers are installed.
-

## 4. Waste Reduction

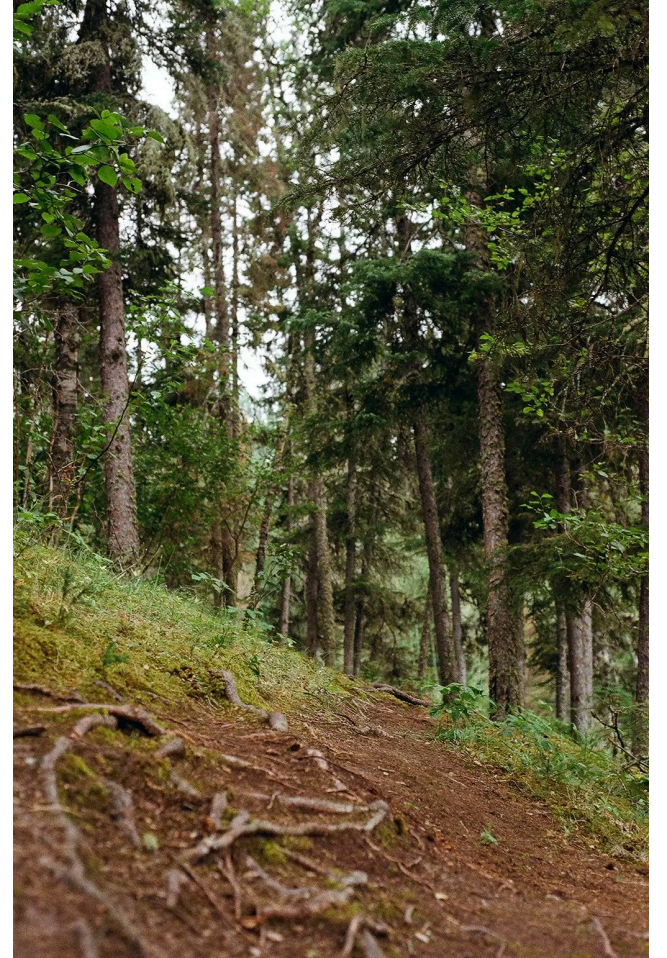
- **Reduce and Divert Waste:**  
By 2030:
  - Reduce waste to 30 kg / person,
  - Divert 100% of organics
  - Divert 75% of inorganics.



## 5. Restoring and Reconciling

- **Double the Trees:** Double the natural sequestration capacity by 2050 through plantings in existing green space, bare soil, and removed impervious surfaces.

\* This area is to mitigate the things that we do not have the ability to change now, such as the GHGs produced from livestock production.






# Investment Requirements

- Buildings investment- \$50.6 million
- Renewable Energy investment- \$31.2 million
- Transportation investment- \$18.3 million
- Waste investment- \$1.2 million.
- Emissions gap investment-\$7.3 million

Total Investment- \$108.6 million

Total Return- \$142.2 million





# Funding Sources

- Take a loan with Canada Infrastructure Bank for eligible projects (minimum \$25 million, need provincial approval, U of T taking this approach)
  - Project Manager position funded through strategic allocation funds – need ongoing support
  - Create a Green Fund committee to creatively generate revenue for the CAP – ie: fees, revolving fund
    - Saving redirected into CAP projects
  - Opportunities for funding through provincial/federal grants (ie: EV charging, solar panels)
  - Donor relations and fundraising through alumni (ie. Electrify Fleet)
-

# Governance Structure

## Immediate steps:

- Sustainability is a key strategic priority of the University of Manitoba
  - Sustainability Policy and Procedure is up for review
  - Revise the Sustainability Committee Terms of Reference and membership to ensure the committee composition is reflective of the University community and membership is formally elected or nominated by the University community
  - Create the following sub-committees from of Sustainability Committee
    - Green Fund
    - Academic Integration
-

# Governance Structure



## Sustainability Committee Functions

- Provide advice on implementation of the plan within the framework of the Sustainability Strategy.
  - As there is a long horizon for implementation, continually assess and provide feedback on adapting the CAP as required.
  - Ensure UM community is aware of the CAP, its progress and importance.
  - Assist in developing and leveraging partnerships, as well as grant and funding opportunities to complete the work in the CAP.
-

# Green Fund Subcommittee Role

- Generate revenue for CAP initiatives- other Universities have utilized the following:
    - Review the role of fees to generate revenue
    - Review potential for commuting disincentives
    - Fundraising through donor relations for specific projects
-

# Academic Integration Subcommittee Role

- Create a community of practice around sustainability and Climate Action Plan initiatives across the University of Manitoba:
    - Provide advice and feedback on matters that impact the academic mission of the Chair of the Subcommittee.
    - Provide feedback on creating an environment to foster sustainability initiatives at the grass roots.
    - Promote sustainability and the Climate Action Plan at the University of Manitoba.
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**University  
of Manitoba**