ATTENDANCE: As recorded in the Faculty Appendix Book

DOCUMENTS: S-21-10, S-21-11

Dean Lennox called the meeting to order at 3 p.m., and welcomed members to the third Faculty of Science meeting of the 2021-2022 academic year.

1. Adoption of Agenda

   Prof. Perepichka moved, seconded by Prof. Blanchette, that the Agenda be adopted.

   The motion carried.

2. Minutes of 12 October 2021 S-21-10

   Prof. Breau moved, seconded by Prof. Breau, that the Minutes be approved.

   The motion carried.

3. Business Arising from the Minutes

   There was no business arising from the Minutes.

4. Report of Committee

   - Academic Committee S-21-11

      Associate Dean (Academic) Axel Hundemer described the following proposals which were approved at the Academic Committee meeting held on Tuesday, 19 October 2021.

      1. Psychology

         New Course:

         PSYC 415 Electroencephalography (EEG) Laboratory in Psychology AC-21-19
         3 credits

         The above new EEG laboratory course, PSYC 415, was to provide students with hands-on experience.

         Associate Dean Hundemer moved, seconded by Mr. Han, that the course be adopted.

         The motion carried.

      2. Mathematics & Statistics

         MATH 319 Partial Differential Equations AC-21-20
         Changes: title, restrictions
         3 credits

         MATH 475 Honours Partial Differential Equations AC-21-21
         Changes in restrictions
         3 credits

         The purpose of the above revisions was to clarify that MATH 319 was meant for Major students, and MATH 475 was intended for Honours students. Also, the restriction would now prevent students from taking both courses with substantial overlap.
Associate Dean Hundemer moved, seconded by Prof. Hurtubise, that the changes be approved.

The motion carried.

Course Retirement:
MATH 407 Dynamic Programming AC-21-22
3 credits

MATH 407 has not been offered since 2014, and it was being retired due to the departure of the course instructor. The Department of Mathematics & Statistics has no immediate plans of offering this course again.

Associate Dean Hundemer moved, seconded by Prof. Hurtubise, that the retirement be approved.

The motion carried.

MATH 423 Applied Regression AC-21-23
Changes in restrictions
3 credits

The restriction with a Management course (MGSC 372) was removed because the overlap was not substantial enough to warrant a restriction. This restriction was also problematic for students in the Major Concentration in Mathematics for Management students.

Associate Dean Hundemer moved, seconded by Prof. Hurtubise, that the changes be approved.

The motion carried.

New Course:
MATH 559 Bayesian Theory and Methods AC-21-24
4 credits

A new instructor who recently joined the Department will be offering an essential new course in Bayesian statistics, which has only been offered occasionally as a topics course.

Associate Dean Hundemer moved, seconded by Prof. Hurtubise, that the course be adopted.

The motion carried.

3. Geography
GEOG 333 Introduction to Programming for Spatial Science AC-21-25
Changes in restrictions
3 credits

On a request from the School of Computer Science, the changes in restrictions were to clearly specify that COMP 206 and COMP 250 must be taken after but not before or concurrently with GEOG 333.

Associate Dean Hundemer moved, seconded by Prof. Breau, that the changes be approved.

The motion carried.

B.Sc. Program Changes:
The changes in the Minor in Geography were to bring the Minor in line with other programs offered by the Department of Geography.

Associate Dean Hundemer moved, seconded by Prof. Breau, that the changes be approved.

The motion carried.

**B.A. Program Changes – For Information Only**

- Honours in Geography
- Joint Honours Component in Geography
- Major Concentration in Geography
- Minor Concentration in Geography
- Honours in Urban Studies
- Major Concentration in Urban Studies
- Minor Concentration in Urban Studies

4. Pharmacology & Therapeutics

PHAR 565 Epigenetic Drugs and Targets

Changes in restrictions
3 credits

A restriction was added to PHAR 565 to prevent students from taking HGEN 673, a course with substantial course overlap.

Associate Dean Hundemer moved, seconded by Prof. Fussmann, that the changes be approved.

The motion carried.

5. Neuroscience

NSCI 396 Undergraduate Research Project

Changes in teaching unit [from Physiology to Biology], Supplementary Calendar Information
3 credits

The change in teaching unit from Physiology to Biology for NSCI 396 makes it consistent with the remaining NSCI courses.

Associate Dean Hundemer moved, seconded by Prof. Fussmann, that the changes be approved.

The motion carried.

5. Dean's Business

– Announcements

(i) Years of Service

Dean Lennox congratulated the following members of the Faculty of Science who have reached significant milestones of fifteen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, and fifty years of service at McGill. He thanked professors and administrative and support staff for their immense contribution, achievements, and dedication. Dean Lennox said he would like to toast, in person, these really important milestones when the conditions allow.
## 15 Years

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<thead>
<tr>
<th>Name</th>
<th>Unit/Department</th>
<th>Current position</th>
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<tr>
<td>Jean Austin</td>
<td>Psychology</td>
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<td>Sebastian Arazoa</td>
<td>Geography</td>
<td>Associate Professor</td>
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<tr>
<td>Donna Clarke</td>
<td>Mathematics &amp; Statistics</td>
<td>Local Area Network Technician</td>
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<tr>
<td>Anna Cassie</td>
<td>Faculty of Science (HR)</td>
<td>Human Resources Advisor</td>
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<td>Matthew Adam Dobbs</td>
<td>Physics</td>
<td>Professor</td>
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<td>Benjamin Forest</td>
<td>Geography</td>
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<td>Jean-Philippe Guay</td>
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<td>Malcolm Kaymung</td>
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<td>Berhard Lehner</td>
<td>Geography</td>
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<tr>
<td>Carole Lemieux</td>
<td>Gault Nature Reserve</td>
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<td>Sarah Aline Lessard</td>
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<td>Administrative Student Affairs Coordinator</td>
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<td>Jeffrey McKenzie</td>
<td>Earth &amp; Planetary Sciences</td>
<td>Chair</td>
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<tr>
<td>Virginia Milliken</td>
<td>Redpath Museum</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Luciana Sciglimeno</td>
<td>Geography</td>
<td>Administrative Coordinator</td>
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<tr>
<td>Bradley Siwick</td>
<td>Physics</td>
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<tr>
<td>David Stephens</td>
<td>Mathematics &amp; Statistics / Faculty</td>
<td>Vice Dean</td>
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<td>Michael John L. Sullivan</td>
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<td>Xiao Fan</td>
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<td>Laura Tent</td>
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<tr>
<td>Bruno Trembley</td>
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<td>Professor</td>
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<td>Weihua Wang</td>
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<td>Tracy Webb</td>
<td>Physics</td>
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<tr>
<td>Lindsay Marie Wilmot</td>
<td>Science</td>
<td>Manager, Student Affairs</td>
</tr>
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## 20 Years

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<tr>
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<tr>
<td>Brigitte Dionne</td>
<td>Earth &amp; Planetary Sciences</td>
<td>Network Technician</td>
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<td>Petr Fiarusek</td>
<td>Chemistry</td>
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<td>Andrew Hendry</td>
<td>Redpath Museum</td>
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<td>Michael Hillke</td>
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<td>Vojkan Jakic</td>
<td>Mathematics &amp; Statistics</td>
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<td>Sang Yong Jeon</td>
<td>Psychology</td>
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<td>Jeffrey Mogil</td>
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<td>Professor</td>
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<tr>
<td>Karim Nader</td>
<td>Psychology</td>
<td>Professor</td>
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<tr>
<td>Sonal Patel</td>
<td>Science</td>
<td>Research Account Administrator</td>
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<tr>
<td>Anthony Ricciardi</td>
<td>Redpath Museum</td>
<td>Professor</td>
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<td>Nancy Ross</td>
<td>Geography</td>
<td>Professor</td>
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<tr>
<td>Nancy Seconodo</td>
<td>Science</td>
<td>Finance Officer</td>
</tr>
<tr>
<td>Clark Verbrugge</td>
<td>Computer Science</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Joseph P. Vybrita</td>
<td>Computer Science</td>
<td>Faculty Lecturer</td>
</tr>
<tr>
<td>Daniel Wise</td>
<td>Mathematics &amp; Statistics</td>
<td>Professor</td>
</tr>
<tr>
<td>Paul Wiseman</td>
<td>Chemistry</td>
<td>Professor</td>
</tr>
<tr>
<td>Monique Zetka</td>
<td>Biology</td>
<td>Associate Professor</td>
</tr>
</tbody>
</table>
(ii) Research Awards

Dean Lennox congratulated the winners of the Wares Science Innovation Prospectors Fund and the Tomlinson Scholars Program. These programs are intended to support innovative and high-risk exciting research not available through the conventional TRI-Council. Dr. Bob Wares and Dr. Richard Tomlinson are long-time supporters of the Faculty of Science and McGill University. Dr. Wares was a graduate of the Department of Earth & Planetary Sciences, and Dr. Richard Tomlinson was the last doctoral student of the renowned Prof. Otto Maass in the Department of Chemistry.

- **Wares Science Innovation Prospectors Fund ($50,000)**
  1. **Professor Peter Douglas** (Earth & Planetary Sciences), “Tracing the fate of permafrost carbon with compound-specific isotope measurements”
  2. **Professor Lena Simine** (Chemistry), “AI-enabled Design of DNA-aptamer Sensors for Disease Diagnostics”
4. Professor James Kirkpatrick (Earth & Planetary Sciences), “The missing sink? Quantifying seafloor weathering as part of the global CO2 cycle”

5. Professor Signy Sheldon (Psychology), “Advancing Our Understanding of Sleep-Dependent Memory Consolidation”

6. Professor Bruce Arndtsen (Chemistry), “Catalytic Alchemy: Precious Metal Reactivity from Earth Abundant Metal Catalysts with Visible Light”

- Tomlinson Scholars Program ($40,000)
  1. Professor Jérôme Waldispühli (Computer Science), “Gamifying the impossible: a generic framework for crowdsourcing molecular data analysis”
  2. Professor David Rolnick (Computer Science), “Machine learning for monitoring abandoned oil wells”

(iii) Winter 2022 Academic Term
Dean Lennox said that the senior administration at McGill and the Faculty of Science have been planning the upcoming Winter 2022 semester. While being cautious in a pandemic context, the University is safely emerging into something that resembles that of two years ago. In-person teaching will progressively increase while maintaining a safe environment at McGill.

(iv) Budget
In terms of the upcoming budget, Dean Lennox said the Faculty was expecting to hear from the Provost about the budget situation. The Faculty’s finance team has begun to hold quarterly budget meetings with departments. As members know, both provincial and federal governments have spent wisely and extensively during the last 21 months, and some adjustments will need to be made because the revenues are down universally. Dean Lennox said he would keep Faculty members updated on the budget situation once more information becomes available.

Mr. Rohan Bhutkar, SUS President, gave the following SUS report.

As McGill and the city re-open, the SUS and affiliated Councils have continued to utilize the warm weather. Especially during the Halloween weekend, many committees use the opportunity to provide bonding events for their students. Planning for events later this year and early next year has also been in full swing. To begin with, preparing Science Games and the SUS Gala are all underway, in addition to ski trips set for the 2nd or 3rd week of February 2022. More thorough Equity training for all student representatives, both in the SUS and departmental executives, is also set to be completed soon.

Regarding events within the SUS Internal portfolio, the Science Games Committee and the Science Internal Committee (SIC) have been hard at work providing events for students. Some recent SIC events have included a Halloween event handing out candy to students and a trivia night on 18 November 2021. On the other hand, the Science Games Committee has gone through the process of selecting captains for each team and will be hosting a hype night next Monday, 15 November 2021. This event will be for around 400 people, and we will be revealing the theme for this year’s Science Games there.

The SUS Sustainability Portfolio has been very active over the last month. The mental health committee completed their hike and paint at the beginning of October and since then has hosted a showcase on sustainability from an Indigenous perspective. Plans are underway for a meditation session on 10 November 2021 and a cafe crawl on 20 November 2021. Also, the SUS environment committee is working on developing a sustainable cookbook and potentially a clothing swap for the coming month. In addition,
the SUS social sustainability committee has hosted a webinar on medical history and is running a weekly spotlight series highlighting global issues. Finally, the Charity Week Committee has been busy planning fall charity week, set for 15 - 19 November 2021. There is a range of events planned for the week, including a tote sale, wine, paint, etc. All proceeds from the week go directly to Dans La Rue, an organization that supports homeless and at-risk youth in our Montreal community.

Every Tuesday, the SUS has also launched a weekly initiative, an event at Gerts for after hours. The SUS is now working with various departments to host events to provide spaces for students in the same classes to meet in a relaxed environment. The previous week, the SUS hosted the annual graduate fair. 70 schools participated, including Cornell, Harvard, Johns Hopkins, UofT, Imperial, and Columbia. Additionally, there were 12,000 booth impressions meaning there were 12,000 interactions between students and a participating school. More engagement could have been garnered if held in-person and able to host the event on campus.

This morning the SUS President came to an agreement with the Office of the Deputy Provost regarding the SUS Memorandum of Agreement (MOA). Over the last month, there have also been several meetings with the Office for Science Education, first to introduce the office and the SUS to each other and begin planning the OSE poster showcase. Additionally, the SUS has been working with the Faculty of Science to promote the Royal Vic project to the student body and answer their concerns.

This year has been a very successful start with all portfolios adapting well to the uncertain conditions, and looking forward to working with the Faculty members as the year progresses.

Dean Lennox thanked the SUS for their report, and he would like to acknowledge the SUS's participation in the public consultation for the New Vic Project. He would like to encourage students and members to keep asking questions to ensure that few or no gaps arise. The New Vic project was not a government of Québec project until the project was accepted and funded.

Director Marcy Slapcoff also thanked the SUS for their work with the Office of Science Education members. It was vital to forge links with the SUS to ensure that the projects were beneficial to the students.

7. Science Equity and Climate Committee

Associate Dean Laura Nilson reported on a broader initiative at McGill encompassing the graduate education portfolio is to support the different components of McGill’s efforts to ensure an equitable university community. The Office of the Provost and Vice-Principal (Academic) has established a “Faculty Leadership Council on Indigenous Initiatives, EDI and Anti-Black Racism.” The Council includes representatives from each Faculty who are involved in managing this portfolio, and the inaugural meeting was held in October 2021. The Council aims to facilitate the work in these areas by providing a kind of Professional Learning Community, where different Faculties can share progress, ideas, challenges, and support.

8. Provost’s Action Plan to Address Anti-Black Racism

For the 2021-2022 academic year, Associate Dean Laura Nilson announced that the Faculty of Science is partnering with the Office of the Provost’s office to sponsor McGill’s Black History Month programming scheduled in February 2022. This will be the 6th annual celebration of Black History Month at McGill University, bringing together students, staff, faculty, alumni, and community members. The opening event will be held in the afternoon of 1 February 2022 and will feature a keynote address from a prominent social psychologist. Stay tuned for more details.

Dean Lennox thanked Associate Dean Nilson for the above two important reports.
9. **The New Vic Project Update**

Dean Lennox reported on the New Vic Project. As mentioned at the Faculty meeting on 12 October 2021, the New Vic Dossier d'opportunité was approved by the McGill Board of Governors on 7 October 2021. McGill has pledged a further $25 M due to the increased cost caused by the hyperinflation. The increased costs have also forced the project to reflect on the scope because the next stage was to present for final government approval. As the academic lead in the project, the Dean’s role was to ensure that the academic plan remained intact and alert the Principal and the Provost for any changes from the 2016 project. The academic program remains intact, and the Design Advisory Team has been reviewing proposals from the architects. Dean Lennox will continue to update members on the project at Faculty meetings.

10. **Reports of Associate Deans**

a) Associate Dean (Academic) Axel Hundemer

Associate Dean Hundemer reminded members about the Provost’s guidelines and the Faculty of Science’s approval process for in-person course delivery in the Winter 2022 semester. (See email below sent to all instructors on 9 November 2021 from the Associate Dean Academic.) All courses are expected to be delivered in person, and the only exception for 100% remote courses will be large enrollment courses exceeding 200 students. However, instructors may deliver up to 20% of the contact hours for the course remotely with no approval necessary. If instructors would like to offer courses remotely over 20% of the contact hours, permission is required from the Chair/Director, and the Faculty (full details below) no later than 1 December 2021. Associate Dean Hundemer said that the Provost's office was in the process of finalizing the course delivery plans for Winter 2022, and the guidelines will be brought to Senate on 17 November 2021 for approval.

**Email sent from the Associate Dean Academic to all instructors on 9 November 2021**

Dear Instructors,

The Provost's office has prepared guidelines for course delivery in the Winter 2022 term. These guidelines will be brought to Senate on November 17 for approval and will be available to the McGill community afterwards. Since some components of these guidelines are time-sensitive, we have decided to provide a summary of the essential points of these guidelines, as well as some details about our faculty's implementation of them.

- The primary mode of instruction at McGill in Winter 2022 will be in-person teaching. Only large enrolment courses (with a maximal enrollment exceeding 200 students) will predominantly be taught remotely.

- If your course is scheduled to be delivered in person, and has a room allocated, the course must be delivered in person. However, any instructor may deliver up to 20% of the contact hours for the course remotely. No approval is necessary, as long as the threshold of 20% is respected.

- Any instructor wishing to deliver more than 20% of the contact hours remotely must:
  1. Provide evidence that the additional remote content will provide added pedagogical value for students.
  2. Provide to their Chair for approval a detailed breakdown of the hourly plan for their course.
  3. Give details of how the remote content will be delivered.
  4. Demonstrate how sufficient synchronous, in-person contact time between instructor and students is maintained.
Proposals must be submitted to the respective Department Chair by **December 1, 2021.** The proposal will be reviewed by the Chair, and if approved, be forwarded to the Faculty for final approval. Since the University intends to teach as many courses in-person as possible in Winter 2022, the bar for approval for such proposals will be set high.

**Secretary’s Note:** The above guidelines were approved by Senate at its meeting on November 17, 2021.

b) **Associate Dean (Student Affairs) Anthony Mittermaier**

Associate Dean Mittermaier reminded members that, as previously announced, the December final exams that were requested to be held in person will be scheduled in person. If instructors are beginning to get requests from students for alternate exam arrangements, students should be directed to Service Point. If students’ requests are for special accommodations, students should contact the Office for Students with Disabilities. The details are still being worked out, and instructors should not arrange for online exams if the exam is scheduled to be held in person.

c) **Associate Dean (Graduate Education) Laura Nilson**

Associate Dean Nilson reported on the following two new initiatives from the Graduate and Postdoctoral Studies (GPS) that are focused on graduate student recruitment.

1. GPS has hired a new staff member, Corey Hoare, focusing on graduate student recruitment. One of Corey’s primary roles will be to run central activities like recruitment fairs, etc. Most importantly, Corey can meet with and advise departments about their recruitment efforts, e.g., (i) reaching specific target audiences, such as Canadian Ph.D. students; (ii) looking at the analytics of a department’s website to see where the traffic is going so that information can be placed effectively, etc.

2. GPS has also enhanced its website for future graduate students to provide students with straightforward access to information.
   a. Upcoming GPS events: assist with students’ applications, finding a supervisor, personal statement.
   b. Links to upcoming departmental events or upcoming external events that are relevant to potential applicants.

d) **Associate Dean (Research) John Stix**

Associate Dean Stix announced that on 8 November 2021 an Open Call has been made for Tier 1 and Tier 2 Canada Research Chairs (CRC), James McGill Professors (JMP), and William Dawson Scholars (WDS). He said he looked forward to some great nominations in this competition because the Faculty of Science really does well in this competition.

Another competition that is coming up is the Principal’s Prize for Emerging Outstanding Researchers, a University-wide prize to encourage and celebrate the most outstanding early-career researchers. Departments should begin to identify their researchers since the Faculty of Science has done really well in this competition.

11. **Report on Actions of Senate**

   – **Senate Meeting of 20 October 2021: Senator Sébastien Breau**

The Senate meeting began with opening remarks from the Principal welcoming Dr. John McCall MacBain as the University’s new Chancellor. Principal Fortier also provided an update on the pandemic situation (with close to 95% of McGill students now fully vaccinated) and the possible return of some in-person activities on campus (e.g., Fall Convocation).
Senator Arsenault reminded us of the importance of this year’s Centraide Campaign, especially given the financial hardships many Montrealers continue to experience because of the pandemic.

Senator Manfredi presented two reports for Senate’s approval. Senate first approved the 506th Report of the Academic Policy Committee, which contained (i) revisions to the Policy on Copyright and Policy on Inventions and Software and (ii) a new organizational structure for the School of Continuing Studies (SCS) with the latter involving the transfer of the McGill Writing Centre from the SCS to the Faculty of Arts. Senate also approved the Report of the Senate Nominating Committee.

A number of items were then received by Senate for information and discussion. Senator Campbell presented the (i) Report on Implementation of the Strategic Equity, Diversity and Inclusion (EDI) Plan, (ii) Report on the Implementation of the Action Plan to Address Anti-Black Racism. Senator Campbell also presented the first monthly report of the new Ad Hoc Advisory Committee on COVID Academic Planning and Policies (which meets and provides weekly updates on the pandemic situation, see https://www.mcgill.ca/senate/committeesofsenate/ad-hoc-committees/ad-hoc-advisory-committee-covid-academic-planning-and-policies). The last two items for information were presented by Senator Zorychta: The Report from the Board of Governors to Senate (of note here is the Board of Governor’s approval of the dossier d’opportunités and the continued development of the dossier d’affaires for the New Vic project) and Notice of the Joint Board-Senate Meeting (to be held on November 11, 2021).

As the last item of business, Senate moved into a confidential session to consider the Report of the Honorary Degrees and Convocations Committee.

The meeting was adjourned at 4:05 pm.

12. Members’ Question Period

There were no members’ questions.

13. Other Business

- McGill Centraide Campaign

Dean Lennox reminded members about the launch of the McGill Centraide Campaign. As McGill was the largest single employer on the island of Montreal, McGill faculty, staff, and students have raised approximately $450,000 each year. He encouraged members to pay special attention to the needs of the Montreal community because it has been a difficult period for many people and the pressures on Centraide are almost off the scale. Dean Lennox said that Lindsay Wilmot, a member of the 2021 McGill Centraide Committee, will be speaking at a future Town Hall.

There being no further business, Prof. Perepichka moved, seconded by Prof. Stix, that the meeting be adjourned at 4:27 p.m.

The motion carried.