

**FACULTY OF SCIENCE  
Meeting of Faculty  
17 April 2018  
Leacock Council Room - L232**

**ATTENDANCE:** As recorded in the Faculty Appendix Book

**DOCUMENTS:** S-17-28 to S-17-30

Dean Lennox called the meeting to order at 3:05 p.m. and welcomed members to the April Faculty of Science meeting.

**(1) ADOPTION OF AGENDA**

Prof. Gyakum **moved**, seconded by Prof. Lydon, that the Agenda be adopted.

**The motion carried.**

**(2) MINUTES OF 20 MARCH 2018 S-17-28**

Prof. Roulet **moved**, seconded by Prof. Stephens, 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-17-29**

The following proposals were approved at the Academic Committee meeting on 27 March 2018:

**(1) Anatomy & Cell Biology**

***New Courses:***

ANAT 314

Human Musculoskeletal Anatomy

**AC-17-78**

3 credits

**804.1** Associate Dean Hundemer introduced a new Complementary course for the Anatomy & Cell Biology Programs. Currently students enrolled in the Anatomy & Cell Biology Program did not learn about the musculoskeletal system. The only other course covering the musculoskeletal system was ANAT 315, but it is restricted to students in Physical Therapy, Occupational Therapy, Kinesiology, and the Honours Program in Anatomy & Cell Biology. ANAT 314 is designed to fill the gap by offering a course on the musculoskeletal system of the human body. The new course is a non-clinical course and students would be working with prosections.

**804.2** A member asked whether the ethical issues were being considered when students work with prosection specimens. Director Allard replied that students are introduced to a cadaver of the human body in the prerequisite course, ANAT 214, and are introduced to the ethical considerations. Associate Dean Hundemer said that, according to the course syllabus, students are required to sign the Code of Conduct Form prior to entering the laboratory.

**804.3** Associate Dean Hundemer **moved**, seconded by Prof. Roulet, that the course be adopted, with the understanding that the ethical issues would be further looked into.

**The motion carried.**

**Course Revisions:**

ANAT 315	Clinical Musculoskeletal Anatomy Changes in title, description, restrictions 3 credits	<b>AC-17-79</b>
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ANAT 316	Clinical Human Visceral Anat. Changes in title, description 3 credits	<b>AC-17-80</b>
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**804.4** Associate Dean Hundemer explained that ANAT315 and ANAT 316 have been redesigned exclusively for students enrolled in the Physical Therapy, Occupational Therapy, and Kinesiology Programs. Course titles, descriptions and restrictions have been revised accordingly.

Associate Dean Hundemer **moved**, seconded by Prof. Roulet, that the above course changes be approved.

**The motion carried.**

- Honours in Anatomy & Cell Biology	<b>AC-17-81</b>
- Major in Anatomy & Cell Biology	<b>AC-17-82</b>
- Liberal; Core Science Component in Anatomy & Cell Biology	<b>AC-17-83</b>

**804.5** Associate Dean Hundemer said that, with the introduction of the new course, ANAT 314 has been added to all of the above programs as a Complementary course. Other program changes included: the inclusion of COMP 204 as a Complementary course; the renaming of some of the courses in the Complementary Course List to "Advanced Anatomy Courses" (AAC); and some other minor changes. The total program weight remains the same.

Associate Dean Hundemer **moved**, seconded by Prof. Roulet, that the above program changes be approved.

**The motion carried.**

**(2) Mathematics & Statistics**

**New Course:**

MATH 478	Comput. Meth. in Applied Math 3 credits	<b>AC-17-84</b>
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**804.6** Associate Dean Hundemer said that MATH 478 will bridge the gap in a more elementary course in numerical analysis (MATH 317/387 and MATH 578). MATH 478 is designed for students in the Honours Program in Applied Mathematics and the Major Program in Mathematics, as well as for students in some of the Engineering programs.

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

**The motion carried.**

MATH 582

Algebraic Topology  
4 credits

AC-17-85

**804.7** Associate Dean Hundemer described a new course, MATH 582, in algebraic topology, which is similarly offered in many other universities. The course is of interest to both advanced undergraduate students and incoming graduate students. It is projected that the course enrollment will be significant.

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

**The motion carried.**

**(3) NAME CHANGE TO THE MASTER'S THESIS DEGREE IN ELECTRICAL ENGINEERING**  
**AC-17-86**

**804.8** Associate Dean Hundemer said that the Faculty of Engineering is informing the Faculty of Science that the M.Eng. degree will now be renamed an M.Sc. degree. The rationale given for renaming the degree is to harmonize the degree name with that used in North America. Associate Dean Hundemer added that there had been a lively discussion at the Academic Committee meeting on this issue. Dean Lennox said that he had inquired about the degree name change but has not heard back yet, and, moreover, the text in the eCalendar was incomplete.

**(5) DEAN'S BUSINESS**

**- Announcements**

**I. Science Convocation**

The Faculty of Science Convocation will be held on 1 June 2018. Members are encouraged to participate in the Convocation ceremony as a member of the platform. There will be two Honorary Degree recipients:

**a) Dr. Maria Klawe**, President of Harvey Mudd College, Claremont, California, USA. Dr. Klawe was Dean of Engineering and a professor of computer science at Princeton University, and is a renowned computer scientist and scholar. Prior to Princeton, she worked for eight years at IBM's Research Center in California. She has made significant research contributions in STEM education and has been involved in increasing the representation of women in STEM fields. Dr. Klawe was ranked 17<sup>th</sup> on Fortune's 2014 list of the World's 50 Greatest Leaders.

**b) Dr. Eli Yablonovitch**, a B.Sc. graduate of the Department of Physics, McGill University. He is the Director of the NSF Center for Energy Efficient Electronics Science at the University of California, Berkeley. Dr. Yablonovitch, an inventor, a scientist and philanthropist, co-developed the entire field of photonic crystals.

**II. AAU-STEM Education**

Dr. Emily Miller, Associate Vice President for Policy at the Association of American Universities (AAU), will be giving a public seminar entitled "Undergraduate STEM Education" on Thursday, 19 April 2018 at 2:30 p.m. in the MacDonald Engineering Building, Room 279. Dr. Miller is renowned in science education at the undergraduate level.

**III. 2018 Faculty Awards**

At the last Faculty of Science meeting of the academic year, the winner of the Leo Yaffe Award for Excellence in Teaching and the winners of the Faculty of Science Excellence Awards will be announced. To celebrate this occasion, all faculty and staff are invited to attend the meeting taking place at 3:00 p.m. on 22 May 2018 in Leacock #232.

#### **IV. Budget**

The Faculty of Science budget has been submitted to the Office of the Provost and Vice-Principal (Academic). The Faculty has done very well with its proposals and alignment of the Faculty objectives with the budgets. Further information on course enrollment allocations will be available, most likely, at the next Chairs' meeting.

#### **(6) REPORTS OF DIRECTOR AND ASSOCIATE DEANS**

- a) Director (Advising Services) Nicole Allard
- b) Associate Dean (Academic) Axel Hundemer

There were no reports for the current meeting.

- c) Associate Dean (Graduate Education) Laura Nilson

Associate Dean Nilson informed members that a call for nominations for the Banting Postdoctoral Fellowship competition will be announced shortly. The Fellowship is valued at \$70,000 per year for two years, and it is intended to fund exceptional postdoctoral fellows and support their development as research leaders. As the first step in the Banting selection process, each unit should submit a Letter of Intent (LOI) by the 14 May 2018 deadline.

- d) Associate Dean (Research) Doina Precup

##### **i) 2018 NSERC Discovery Grants Program Competition**

Dean Lennox said he had received an unofficial list of the results of the 2018 Discovery Grants Program Competition. The Faculty had received funding for 43 out of the 47 applicants, and among those, five Accelerator grants had been awarded, including one to a first-time applicant. More information on allocations will be announced at a later date.

##### **ii) Research Tools and Instruments Program (RTI) & FQRNT Equipment**

No information has been received from the OSR concerning the results of the RTI and FQRNT Equipment competitions.

#### **(7) RESULTS OF SCIENCE ELECTION FOR SENATE**

**S-17-30**

- 807.1** As previously announced, Dean Lennox said the following three nominees are elected to the Senate by acclamation. The new Science Senators are:

Prof. David Harpp (Chemistry)  
Prof. Nigel Roulet (Geography)  
Prof. David Stephens (Mathematics & Statistics)

- 807.2** The new Senators will start their terms on 1 September 2018, and end on August 31, 2021.

- 807.3** The continuing Faculty representatives in the Senate, and the number of years they have yet to serve are:

Prof. Masad Damha (Chemistry)	- two years
Prof. Gregor Fussmann (Biology)	- one year
Prof. Peter Grütter (Physics)	- two years
Prof. John Gyakum (Atmospheric & Oceanic Sciences)	- two years
Prof. Hans Larsson (Redpath Museum/Biology)	- one year
Prof. Jeffrey McKenzie (Earth & Planetary Sciences)	- two years

**807.4** Dean Lennox congratulated the three new Senators and thanked the continuing Senators for their work.

**8) REPORT ON ACTIONS OF SENATE**

**- Senate Meeting of 28 March 2018 – Senator Nigel Roulet:**

Senate was called to order: 14:33 – three minutes late and we were welcomed to the 7<sup>th</sup> Senate meeting of the 2017-2018 governance year.

Senate proceeded through Part A of the Agenda which began with condolences presented by Dean Eidelman for Professor Hervé Le Moual. Senate then approved the Report of Senate Steering Committee – minutes, speaking rights, and minutes of confidential session for honorary degrees and approval of the agenda. There was no business arising from the minutes.

The Chair, the Principal gave her remarks. These focussed on federal and provincial government relations, McGill community relations and kudos. She summarized the federal budget pointing out there was significant new funding for academic research – + \$925 million for the Tri-Councils over the next five years; CRC Program + \$210 million over five years; CFI \$763 million over five years and permanent base funding of \$462 million/year by mid 2020s; \$250 million for international, interdisciplinary and high risk research. There was also money for digital infrastructure and NRC and it signaled an investment to come next budget is scholarship. The provincial budget had been tabled the day before so not as deep an analysis. There is a 6% increase in funding to universities in the next fiscal year and higher level of funding in operating budget; university infrastructure; and modest investment in research councils. There is a new funding model (new grid) that will be implemented May 1, 2018.

The Chair thanked all those from McGill who have been involved in community relations and mention the SEDE organized alternative spring break (lots of volunteering at organizations helping other is difficult situations) and students that participated in five days for the homeless.

The Principal directed Senators to her written kudos but spoke on the McGill 24 saying it was a great day, raising \$1.9 million and had 4500 donors. There was an increase of 139% from staff. She also talked about the BRAVO gala and noted the efforts of Science's Catherine Potvin, Joe Schwartz along with Karl Moore (Management) for their media efforts.

There was only one question from Senators Lenetsky and Youssef concerning the administration of course registration restrictions. A response was provided by Senator Anna Walsh, Interim University Registrar, and this can be found on the minutes of Senate.

Senate then moved to Part B Information and Motions by Committees.

1. 486 report of AC (Provost Manfredi) – Motion to create ion of the Bensadoun School of Retail Management. All other items were for information.
2. Budget planning for 2018 Forecast and Outlook for FY2019-FY2023 (Provost Manfredi). The details are on a PP presentation to Senate. He focuses on 1) changes in finances and the grid; 2) major capital investment of \$23, 000,000/year to address deferred maintenance; and 3) the impact of the previous 2 year's income and expenditures difference – we are \$22,000,000 more in the hole. The projected \$9 million deficit has grown to \$14 million.

3. [http://www.mcgill.ca/senate/files/senate/6\\_d17-52\\_budget\\_planning\\_2018-2019\\_report\\_ii.pdf](http://www.mcgill.ca/senate/files/senate/6_d17-52_budget_planning_2018-2019_report_ii.pdf)
4. Senate passed a motion presented by Professor Buddle to repeal McGill's policy on the use of text matching software.  
[http://www.mcgill.ca/senate/files/senate/7\\_d17-53\\_repeal\\_text-matching\\_policy.pdf](http://www.mcgill.ca/senate/files/senate/7_d17-53_repeal_text-matching_policy.pdf)
5. The Provost provide information of the emerging student wellness plan. There were a lot of questions over the plan and where the process is at. The details on the plan can be found on the Senates web site. The main point is the services are moving to one stop shopping and counsellors are being embedded into student services where the need is the greatest.  
[http://www.mcgill.ca/senate/files/senate/8\\_d17-54\\_wellness\\_strategy.pdf](http://www.mcgill.ca/senate/files/senate/8_d17-54_wellness_strategy.pdf)
6. The co-chairs of the Principal's Task Force on Respect and Inclusion in Campus Life, Professors Bruce Lennox and Nandini Ramanujam presented a status report on the task forces activities [http://www.mcgill.ca/senate/files/senate/9\\_d17-55\\_task\\_force\\_respect\\_and\\_inclusion\\_status\\_report.pdf](http://www.mcgill.ca/senate/files/senate/9_d17-55_task_force_respect_and_inclusion_status_report.pdf)
7. Deputy Provost Dyens present the Annual report on scholarships [http://www.mcgill.ca/senate/files/senate/10\\_d17-56\\_scholarships\\_and\\_student\\_aid\\_annual\\_report.pdf](http://www.mcgill.ca/senate/files/senate/10_d17-56_scholarships_and_student_aid_annual_report.pdf)
8. The Annual Report GPS was presented by the Dean of Graduate and Postdoctoral Studies, Dean Nalbantoglu (Dean of GPS) [http://www.mcgill.ca/senate/files/senate/11\\_d17-57\\_gps\\_annual\\_report\\_1.pdf](http://www.mcgill.ca/senate/files/senate/11_d17-57_gps_annual_report_1.pdf) . Points to note is the percent international students at McGill University increased to 37% and is at the top of our peer universities, and equal to UW and UBC. How to fund the international students is a challenge – the Dean said the packages are cobbled together.
9. The Report on Enrolment and Strategic Enrolment Management was presented by Deputy Provost Dyens  
  
[http://www.mcgill.ca/senate/files/senate/12\\_d1758\\_enrolment\\_and\\_sem\\_annual\\_report.pdf](http://www.mcgill.ca/senate/files/senate/12_d1758_enrolment_and_sem_annual_report.pdf) DP Dyens did not understand the Dean of Science's question about francophone students. He answered that they are trying to attract more students from the French CEGEPs, but the questions was about francophones who made a decision to go to English CEGEP. In other words are we attracting students who were SEC5 in French schools.
10. The Report on the activities of the Board of Governors was presented by Senator Gael Eakin, Representative of the Board of Governors to Senate.
11. No other business

At 17:02, Senate moved into closed confidential session for honorary degrees and the McGill medal.

Adjournment: 17:08

9) **MEMBERS' QUESTION PERIOD**

There were no members' questions.

10) **OTHER BUSINESS**

- 810.1** As you know, Dean Lennox said that a very complex discussion was brought forward by a group of students to the mainstream press, as opposed to by the University, about the apparent inadequacies of the sexual violence policy. This has been a very difficult time because there are channels through which the university can engage with dissent and confrontation – these are what universities are built on – but they are not being used. Instead, the dialogue has been happening in the public press. Dean Lennox said he has been to meetings and is trying to understand how the University should be reacting to these allegations. He said he was very confident of what has been reported publicly: that when assertions are made they are actually dealt with. It is often the case that students are unaware where to go to for support, advice, and available services. A lot of work remains to be done over Summer 2018 to develop an ongoing communication about a different way to deliver the message that these activities are unacceptable, and that the University will support any victim of any type of harassment or sexual violence. Associate Dean (Graduate Education) Laura Nilson, in addition to her Graduate Education portfolio, has served as the Faculty's representative in terms of the equity portfolio in the University. Associate Dean Nilson said that members could submit any comments or suggestions to her, and she would present them to the appropriate body.
- 810.2** Dean Lennox said he had preliminary discussions with Associate Provost (Equity and Academic Policies) Angela Campbell about ways to bring the information about the sexual violence policy to the grassroots level. One solution might be to hold departmental town hall meetings that would include students, staff and faculty, as well as Associate Provost Campbell and other experts from the University.
- 810.3** The Department of Geography will in fact be holding a departmental retreat on this issue on 25 April 2018 at 3:00 p.m. in the Faculty Club. Associate Provost Campbell and other members have been invited, along with students, faculty and staff. Prof. Roulet invited the Dean and all members to attend. He will be sending further information to the Dean for dissemination to the Chairs and Directors in the Faculty of Science.
- 810.4** The Department of Biology will be holding a workshop on sexual harassment, sexual misconduct and violence on 24 April 2018 at 10 a.m. in the Stewart Building. The workshop is specifically related to fieldwork situations. Faculty members have been invited to attend the workshop, and at a later session, students and staff will be invited. Prof. Fussmann invited the Dean to the workshop. Dean Lennox asked that Ms. Martine Dolmière from the Science Internship & Field Studies Office be invited since she speaks to students about this issue prior to participating in field studies/courses. Associate Dean Nilson added that she has been in discussions about this issue and reaching out to undergraduate and graduate students with Ms. Dolmière.

There being no further business, Prof. Roulet **moved**, seconded by Prof. Lydon, that the meeting be adjourned at 4:10 p.m.

**The motion carried.**