## FACULTY OF SCIENCE MEETING OF FACULTY 28 March 2023 at 3:00 p.m. Robert Vogel Council Room (L232), Leacock Building

DOCUMENTS: AC-22-25, AC-22-26

Dean Lennox called the meeting to order at 3 p.m. and welcomed members to the seventh meeting of the 2022-2023 academic year.

1. Adoption of Agenda

Following the adoption of the Agenda, a memorial tribute will be read for Emeritus Professor Isztar Zawadzki from the Department of Atmospheric and Oceanic Sciences.

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

The motion carried.

2. Memorial Tribute: Emeritus Professor Isztar Zawadzki from the Department of Atmospheric and Oceanic Sciences

Prof. John Gyakum, Chair of the Department of Atmospheric and Oceanic Sciences, read the following tribute:

On February 11th, 2023, Emeritus Professor Isztar Zawadzki, internationally known for his ground-breaking work in radar meteorology and precipitation physics, succumbed to a stroke. With great effort, determination and much help from his life partner, Dominique, he had well recovered from a first stroke three years earlier, but this second one surpassed his resilience.

Dr. Zawadzki was born in Poland on February 9th, 1939. Fearing the mounting ravages of antisemitism and the war, his mother fled with her toddler to Russia and then departed for Argentina. It is there, at the University of Buenos Aires, that he completed a Licenciado en Ciencas Fisicas. Having developed an interest in radar meteorology he decided to enrol in graduate studies in the Department of Meteorology (now Atmospheric and Oceanic Sciences) at McGill University, obtaining his Ph.D. in 1972 under the supervision of Professor Roddy R. Rogers. -<1f -2 (a)6 (R)4.

Isztar began his academic career in the Physics Department of the recently created Université du Québec à Montréal where he was a moving force behind the creation of a graduate program in meteorology. In 1992 McGill University recruited him as Director of the Stewart Marshall Radar Observatory within the Department of Atmospheric and Oceanic Sciences, a wise move indeed, as it ushered in a period of rapid expansion of the radar activities under Isztar's leadership and re-established the Observatory as one of the leading research institutions in its domain. His warm personality and contagious enthusiasm for science made him a magnet for graduate students and led to a multitude of visitors and post-doctoral fellows to the radar lab from around the world.

In recognition of his numerous scientific achievements Isztar was awarded the Patterson Medal of the Meteorological Service of Canada, was made a Fellow of the Meteorological and Oceanographic Society of Canada and of the American Meteorological Society (AMS). In 2007, he was the first recipient of the AMS Remote Sensing Prize and was inducted into the Academy of Science of the Royal Society of Canada. Isztar's research focused on the physics and the short-term forecasting of precipitation. He used a blend of observations, physics intuition, and numerical modelling to further our understanding of the complex processes involved in the formation of winter and summer precipitation. For example, some of his early work on the relationship between drop-size distributions and radar reflectivity was recently republished at the European Radar conference as an example of foresight, clarity of thinking, and good science. Isztar also championed the use of radar to reveal cloud physics processes and to improve the short-term forecasts of pren-6uiEToud p crrscrv

## 6 credits

Associate Dean Hundemer explained that the course is designed to provide students with both the

Associate Dean Hundemer moved, seconded by Prof. Gyakum, that the above courses be retired.

The motion carried.

## 3. Physics

Course Revisions: PHYS 359	Advanced Physics Laboratory 1 Changes: title, description, corequisites, restrictions, Supplementary Calendar Info 3 credits	<u>AC-22-180</u>
PHYS 469	Advanced Physics Laboratory 2 Changes: title, description, corequisites restrictions, Supplementary Calendar Info 3 credits	<u>AC-22-182</u>
Course Retirement: PHYS 439	Majors Laboratory in Modern Physics	AC-22-181

Associate Dean Hundemer presented proposed revisions to two courses and the retirement of another course, namely PHYS 359, PHYS 469, and PHYS 439. These courses pertain to the same physical lab, but only honours students could enroll in PHYS 359 and PHYS 469, while PHYS 439 was open to majors. The proposal is to retire PHYS 439, allowing both majors and honours students to register in PHYS 359 and PHYS 469. The changes include updated course titles, descriptions, corequisites, and prerequisites, affecting all programs (below). A wide range of experiments will be available to enable students to take the lab for two semesters without repeating any experiments.

Associate Dean Hundemer moved, seconded by Prof. Pereg-Barnea, that the changes be approved.

The motion carried.

3 credits

Program Changes:	
- Honours in Physics	<u>AC-22-183</u>
- Honours in Mathematics and Physics	AC-22-185
- Honours in Physics – Biological Physics	<u>AC-22-200</u>
- Honours in Physics and Chemistry	<u>AC-22-202</u>
<ul> <li>Honours in Physics and Computer Science</li> </ul>	<u>AC-22-203</u>
- Major in Physics	<u>AC-22-184</u>
<ul> <li>Major in Physics – Biological Physics</li> </ul>	<u>AC-22-201</u>

Associate Dean Hundemer said several programs have been affected by the course revisions mentioned earlier. The changes include reordering some courses, updating the

Overall, things are wrapping up in the SUS, and they are trying to savor their remaining moments together before most of them graduate.

On behalf of the Faculty of Science, Dean Lennox thanked the SUS President for the report.

9. Science Equity and Climate Committee

Associate Dean (Graduate Education) Laura Nilson provided an update on the Science Equity and Climate Committee meeting held on 20 March 2023. The Committee followed its standard protocol, covering various items related to our functions, including communication efforts to disseminate essential information among Science departments. During the meeting, members were reminded of the Office of the Ombudsman's existence, which recently gave its annual report to the Senate. There was some recognition that the office lacks visibility, so Associate Dean Nilson encouraged members rssG

Dean Lennox thanked Associate Dean Nilson for providing a comprehensive report on the committee's numerous activities.

10. Provost's Action Plan to Address Anti -Black Racism

Associate Dean for Graduate Education, Laura Nilson, mentioned a new program launched by the office of the Provost and VP Academic to support pre-tenured faculty members in fields often involve publishing books as part of their research output. The program aims to provide support to pre-tenured researchers to get their manuscripts into their final stages and submit them for publication. This is a crucial step in the career progression of junior faculty, and the program aims to offer a collaborative space for constructive feedback and networking opportunities with experts in their fields. This initiative is relevant to the ABR section as McGill has been hiring new black faculty members, some of whom are in book fields. Associate Dean Nilson believes that while the program may not be directly relevant to the Faculty of Science, it is still valuable for faculty to be aware of this important initiative.

Dean Lennox expressed gratitude to Associate Dean Nilson for the ABR report and emphasized the significance of supporting underrepresented groups. He recognized the initiative as an essential step in ensuring that junior faculty members receive the necessary support to advance their careers. Dean Lennox also mentioned that ongoing searches are being conducted in the School of Computer Science and potentially in the Department of Mathematics & Statistics.

11. The New Vic Project Update

Dean Lennox provided an update on the New Vic Project, stating that the design is close to being finalized at 100%. This includes a high level of detail on the placement and function of different components, such as teaching and research facilities for various fields, from computational to process engineering. The New Vic will house approximately 800 graduate students and professors on site, with an additional 1,000 or more undergraduates using the lecture rooms. In late October 2022, an injunction was set and was continued in a revised form until 27 April 2023, involving the SQI, owner of the real estate infrastructure organizations within the Government of Québec and the MUHC and the plantiffs. The parties are currently working together to create an archaeological plan.

- 12. Reports of Associate Deans
  - a) Associate Dean (Academic) Axel Hundemer

There was no report for the current meeting.

b) Associate Dean (Student Affairs) Anthony Mittermaier

Associate Dean Mittermaier brought the new regulations on final exams to the attention of members, especially SUS members, by informing them about it. He said that the Exam Office handles final exams and deferred exams, and that an announcement regarding this policy will be made soon. Associate Dean Mittermaier read the following excerpt:

It is assumed that upon entering the exam room or accessing your online exam, it is your intent to complete the exam. It is your personal responsibility to judge

services was at 90% of pre-pandemic levels. Senator Labeau then presented the Annual Report on Enrolment and Strategic Enrolment Management. He highlighted that key goals of McGill's Strategic Academic Plan (2017-2022) were to increase (1) the number