FACULTY OF SCIENCE
Meeting of Faculty
Tuesday, May 19, 2009
Redpath Museum Auditorium

ATTENDANCE: As recorded in the Faculty Appendix Book.

DOCUMENTS: S-08-29 to **S-08-35, S-08-38**

Dean Grant welcomed members to the final Faculty meeting of the year. He called the meeting to order at 3:00 p.m.

(1) ADOPTION OF AGENDA

Prof. Moore **moved**, seconded by Prof. Burns, that the Agenda be adopted.

The motion carried.

(2) RESOLUTION ON THE DEATH OF PROFESSOR KEITH WORSLEY, DEPARTMENT OF MATHEMATICS & STATISTICS

802.1 Prof. David Wolfson, on behalf of Prof. Hurtubise, Chair of the Department of Mathematics & Statistics, read the Resolution on the Death of Prof. Keith Worsley.

Faculty of Science members,

It is with great sadness that we report to the Faculty of Science the untimely passing of our colleague, Professor Keith Worsley, a statistician in the Department of Mathematics and Statistics on February 27, 2009. Keith was 57. He had been on leave at the University of Chicago since July, 2008. In November he was diagnosed with islet cell carcinoma.

Keith came to McGill in 1978 from the University of Auckland in New Zealand. He moved

Much of Keith's work was done in collaboration with researchers at the McConnell Brain Imaging Unit of the Montreal Neurological Institute. In later years his work went much further afield into the analysis of the very structure of the brain. Quite simply, he became one of the top three world experts in the field. Indeed, only days before he passed away, Keith and the two other world experts, Robert Adler and Jonathan Taylor, sat with Keith in his bedroom at home working together.

As a member of the Department of Mathematics and Statistics, Keith preferred compromise to confrontation. He was willing to teach any course that was assigned to him. Graduate students who worked with Keith were enthusiastically tossed ideas one after another for he was an inspirer rather than a task master. Given the tremendous subsequent success of his graduate students this approach clearly worked. He was also generous with his grant money---always willing to fund students.

Many remember Keith's famous, very dense, Christmas puddings, which he distributed every year to his friends. Also etched in our memories are his early days at McGill when his shirt tails were always out, and his legendary practice of riding his bicycle to work even on the worst days of winter.

The Faculty of Science at McGill and the broader academic community, express their heartfelt condolences to Kimiko Hinenoya-Worsley and son Seiji Worsley, to Chuanhong Liao and son Nico Worsley, to Keith's parents Peggy and Cec Worsley and to his siblings, Jane Langford and David Worsley. Your mourning is shared by us all.

The Resolution was adopted unanimously.

802.2 Dean Grant thanked Prof. Wolfson for reading the Resolution.

(3) REPORTS OF COMMITTEES

a) Faculty of Science Excellence Award

803.1 Prof. Anthony Williams-Jones, in place of Prof. Andrew Hynes, Chair of the Faculty of Science Excellence Award Committee, said

803.5 Prof. Williams-Jones read the following citation for Mr. Rossi, written by Prof. Andrew Hynes:

The Faculty of Science wishes to recognize Mr. Richard Rossi, Chief Electronics Technician in the Department of Chemistry, with the Excellence Award for support staff. Mr. Rossi has been an electronics specialist in the Department of Chemistry since 1994. He is now responsible for the instrumentation of 34 active research groups, 6 undergraduate laboratories and 4 major, high-end instrumentation facilities. Representations from members of the Depar

Faculty of Science members, the Leo Yaffe Award for Excellence in teaching honours professors who make an outstanding and long-lasting impact on undergraduate education in the Faculty of Science. Christopher Barrett is such a professor.

Professor Barrett was appointed an Assistant Professor in the Department of Chemistry in 2000, after completing a Ph.D. at Queen's University and a post-doctoral fellowship at MIT. He soon demonstrated that he was going to be a gifted teacher with an evaluation of 4.5 on 5 in 2001 for his course, Chem 204, Physical Chemistry for Biologists and followed it up the next year with a spectacular 4.7 on 5. It should be noted that this is a required course which historically the students have found extremely difficult and would have avoided if they could. As one student noted "normally I cannot stand Physical Chemistry but within a couple of classes I became enthralled – it became everyone's favourite class". The reason for this about-face is not difficult to find. He captivates the students with his infectious enthusiasm and has them spell-bound with practical demonstrations of the applications of physical chemistry to everyday life. Trying to understand the complex chemistry behind the burning of fossils fuels and the production of "acid rain" can be difficult but when demonstrated by the lighting of a match over a beaker containing a "cloud" and "ocean" and seeing the ocean suddenly turn dark, the chemistry becomes easy and unforgettable.

Not only is Christopher Barrett a remarkable teacher, he is also an outstanding scientist who has been honoured for his achievements by being named as a Royal Society of Canada "Leader of Tomorrow". He is a teacher-scholar of the very highest calibre and a most worthy recipient of the honour that you are about to bestow on him. On behalf of

Ms. Allard **moved**, seconded by Prof. Mysak, that the above degree list be recommended to the Senate Steering Committee for the Bachelor of Arts and Science degree.

The motion carried.

b) Bachelor of Science **S-08-31**

804.3 Ms. Allard said that 603 students were graduating with the B.Sc. degree, and that the GPA cut-off for the Dean's Honour List for B.Sc. students was 3.90.

Ms. Allard **moved**, seconded by Prof. Chmura, that the above degree list be recommended to the Senate Steering Committee for the Bachelor of Science degree.

The motion carried.

c) Diploma in Environment **S-08-32**

Ms. Allard **moved**, seconded by Prof. Fabry, that the above list be recommended to the Senate Steering Committee for the Diploma in Environment.

The motion carried.

d) Diploma in Meteorology **S-08-33**

There were no candidates for the Diploma in Meteorology.

Prof. GowriSankaran further **moved**, seconded by Prof. Moore, that the Dean be given discretionary power to make such changes in the degree list as would be necessary to prevent injustice.

The motion carried.

(5) <u>MINUTES OF APRIL 7, 2009</u> **S-08-29**

Prof. Moore **moved**, seconded by Prof. Wolfson, that the Minutes be approved.

The motion carried

PROPOSED B.Sc./M.Sc. (THESIS) TRACK **AC-08-15(Rev 5)**

807.1 Associate Dean Hendren said that Document AC-08-15(Rev 5) described the general structure of the proposed B.Sc./M.Sc. (Thesis) Track. This track provided the opportunity for students to obtain an early admission to an M.Sc. program. While the B.Sc./M.Sc. (Thesis) Track was not a program in itself, several units had modified their Masters programs in order to make them compatible with the B.Sc./M.Sc. (Thesis) Track.

807.2 Associate Dean Hendren said that the following major program changes from the Departments of Mathematics & Statistics, and of Physics, were modifications to the Departments' graduate programs to accommodate the B.Sc./M.Sc. (Thesis) Track.

(1) MATHEMATICS & STATISTICS

- M.Sc. in Mathematics & Statistics **AC-08-110**

Associate Dean Hendren **moved**, seconded by Prof. GowriSankaran, that the program changes be approved.

The motion carried.

(2) PHYSICS

- M.Sc. in Physics **AC-08-111**

807.3 Associate Dean Hendren pointed out that any changes to Masters programs must ensure that the program is exactly 45 credits.

Associate Dean Hendren **moved**, seconded by Prof. Ragan, that the program changes be approved.

The motion carried.

- Ph.D. in Physics **AC-08-112**

Associate Dean Hendren **moved**, seconded by Prof. Gale, that the program changes be approved.

The motion carried.

807.4 Associate Dean Hendren said she was waiting to hear from two units regarding their responses to the B.Sc./M.Sc. (Thesis) Track. She would be meeting with Graduate Program Studies (GPS) in the near future, and would like to have the responses from the two units by that time.

SECTION C: NEW COURSES

807.5 Associate Dean Hendren said that the new courses from the Departments of Mathematics & Statistics, and of Physics were part of the modifications involved in adjusting Masters programs to accommodate the B.Sc./M.Sc. (Thesis) Track.

807.6 The new courses from the Department of Microbiology & Immunology were required in order to obtain maximum governmental funding for immunology studies.

1) MATHEMATICS & STATISTICS

MATH 599	Master's Research Preparation 6 credits	**AC-08-114**

Associate Dean Hendren **moved**, seconded by Prof. GowriSankaran, that the course be adopted.

The motion carried.

2) PHYSICS

PHYS 693	M.Sc. Research 3 credits	**AC-08-113**

Associate Dean Hendren **moved**, seconded by Prof. Gale, that the course be adopted.

The motion carried.

The motion carried.

807.8 Dean Grant thanked Prof. Friedman for presenting the Report.

(ii) Dean's Multidisciplinary Undergraduate Research List S-08-38

807.9 Associate Dean Hendren thanked Mr. Victor Chisholm for putting together the DMURL.

807.10 Associate Dean Hendren said that it was interesting to see the type of majors of students who were doing undergraduate research, and to see the type of research being done.

Associate Dean Hendren **moved**, seconded by Prof. Burns, that the DMURL be approved.

The motion carried.

(c) Committee on Student Standing S-08-36

807.11 Due to lack of business, there was no Report of the Committee on Student Standing.

(8) DEAN'S BUSINESS

- Research Innovation and Commercialization

808.1 Dean Grant said that the recognition of research innovation and commercialization was an initiative in the Faculty of Science begun in 2007. Its aim is to recognize efforts made by faculty members to advance the commercialization of their research. Plaques had been struck to recognize achievements by principal inventors from the Faculty of Science in (1) the first filing of a patent application further to the submission of a report of invention, and (2) the signature of a License agreement for a technology.

808.2 The following faculty members had earned recognition in the 2008-2009 academic year:

For first filing of a patent application further to submission of a report of invention:

- Prof. Parisa Ariya, Departments of Atmospheric & Oceanic Sciences, and of Chemistry
- Prof. David Burns, Department of Chemistry (two times)
- Prof. Tak-Hang Chan, Department of Chemistry
- Prof. Masad Damha, Department of Chemistry (two times)
- Prof. James Gleason, Department of Chemistry (two times)
- Prof. Allan Hay, Department of Chemistry
- Prof. Hanadi Sleiman, Department of Chemistry

For signature of a License agreement:

- Prof. Isztar Zawadzki, Department of Atmospheric & Oceanic Sciences

808.3 Dean Grant presented the plaques to those faculty members who were present at the meeting, and thanked them for their contributions.

808.4 Dean Grant thanked Dr. Erica Besso for her work in organizing the recognition of research innovation and commercialization.

(9) REPORT ON ACTIONS OF SENATE

Please note that the entire Minutes of Senate are available on the Web at http://www.mcgill.ca/senate/minutes/.

- Prof. R. Sieber: Senate Meeting of March 4, 2009

Prof. Moore, in place of Prof. Sieber, said that the two most important items relating to the Faculty of Science from the Senate Meeting of March 4, 2009, were that the University had purchased a former hotel on 475 Sherbrooke Street West, Montreal, to provide additional residence space for students, and that the E.W.R. Steacie Memorial NSERC Fellowships had been awarded to Dr. Andrew Hendry, Associate Professor, Department of Biology and Redpath Museum, and Dr. Karim Nader, Associate Professor, William Dawson Chair, Department of Psychology.

- Prof. I. Butler: Senate Meeting of March 25, 2009

1. Resolutions of the deaths of Professors Joe Kincheloe (Faculty of Education) and Michael Moss (Faculty of Medicine)

2. Provost Anthony Masi delivered a presentation on the meaning of tenure, tenure's privileges and responsibilities and tenure decisions.

3. Principal Heather Munroe-Blum presented a summary of the current economic status of the university including Campaign McGill.

maintaining McGill's international standing in research and improving student life and learning and trying to do all this on inadequate budgets. Senator's asked for clarification on a number of minor issues but there was no disagreement with the thrust of the policy.

The next business was reports on Faculty program reviews for the centre for Continuing Education and the Faculty of Law which outlined the improvements that might flow from the review exercise.

The report of most interest to Faculty of Science was the report on Graduate and Postdoctoral Studies. Dean Kriesworth showed Senate the new USB key that contains the whole application package. As well as being popular, the new key saves more in postage than additional cost of producing it. Less welcome was the information that in graduate student surveys of the G13 McGill ranks bottom in 6, second from bottom in 2 and 3rd from bottom in the remaining 2. In discussion it was noted that the Office of Graduate and Postdoctoral Studies is looking into new ways of getting feedback on supervision, and looking at the space needs of graduate students with a view to improving conditions.

The meeting adjourned at 5:10.

- Prof. K. GowriSankaran: Senate Meeting of April 29, 2009

1. Among the remarks of the Chair, the following announcement was included. Our University was invited to submit 9 names for the competition of Canada Excellence Research Chair. Four of these have been selected for consideration in the second (presumably) final round. These four are candidates doing research in the areas of Pain, Green Chemistry, Broadband communications and Alzheimer's. There are, I assume, at least two from our Faculty.
2. There was a motion brought by the NofReeich outwantSenate the oj-1.79769 -1.1497 TD.0007 T6.18