



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

**Minutes of the Faculty Council Meeting of
Friday, December 2, 2011
12:10 – 2:00 p.m.**

Michael E. Charles Council Chamber, Galbraith Building

Present:

Jonathan Rose (Speaker)
Stewart Aitchison
Grant Allen
Cristina Amon (Dean)
Joe Baptista
Phil Byer
Michael E. Charles
Yu-Ling Cheng
David Cheung
Chris Damaren
Jim Dawson
Khuong Doan
Carolyn Farrell
Jason Foster
Scott Nicholas Genin
John Harrison
Greg Jamieson
Gina John
Bryan Karney
Don Kirk
Mark Kortschot
Raymond Kwong
Matthew Lattavo
Ofer Levi
David Lie
Raymond Luu
Tejas Manjunath
Susan McCahan
Barbara McCann
Javad Mostaghimi
Farid Najm
Tersa Nguyen
Jun Nogami

Graeme Norval
Jane Phillips
Nelly Pietropaolo
Joyce Poon
Paul Santerre
Shamim A. Sheikh
Brent E. Sleep
Brian To
Olev Trass
Peter Weiss
Christopher Yip
Safwat Zaky
Jean Zu

Guests:

Christina da Rocha-Feeley
Sonia De Buglio
Madelyn Herschorn
Steve Miszuk
Liam Mitchell
Anthony Morra
Tom Nault
Dan Pettigrew
Jan Shu
Margaret Slemon
Mark Slemon
Caroline Ziegler

Regrets:

Kim D. Pressnail
Tony Sinclair
David Sinton
David Zingg

1. Welcome/Adoption of the Agenda

The Speaker, Jonathan Rose, thanked members joining the second Faculty Council meeting of the 2011-2012 academic year, and welcomed all present. He noted that members had received the agenda on November 21 and the revised agenda on November 29.

On a motion duly moved, seconded and carried, it was resolved –

THAT the agenda be adopted.

2. Memorial Tribute – Professor Emeritus Gordon R. Slemon

The Speaker acknowledged the presence of Mrs. Margaret Slemon and Mr. Mark Slemon, who joined the meeting to hear the memorial tribute to their husband and father, respectively, the late former Dean and Professor Emeritus Gordon R. Slemon of The Edward S. Rogers Sr. Department of Electrical and Computer Engineering.

The Speaker called upon Farid Najm to read the memorial tribute:

“Gordon R. Slemon received bachelors and masters degrees from the University of Toronto, the DIC from Imperial College and PhD and DSc degrees from the University of London. He served as Head of the Electrical Engineering Department from 1966 to 1976 and as Dean of Faculty of Applied Science and Engineering from 1979 to 1986.

“The Electrical Engineering Department developed an excellent international reputation under his leadership. Throughout his career, he also maintained strong ties to industry and was a catalyst to many interactions between industry and the Faculty. He was a co-founder and director of Vehicle Research Ltd., a company developing electric cars in the 1980s. In the same decade, he established the Innovations Foundation at the University of Toronto to commercialize the results of university research. He was a co-founder and director of the company Inverpower Controls Ltd., a director of the IDEA Corporation in Ontario, and the inaugural chairman of the Microelectronics Development Centre. He has been a consultant to some 70 industrial corporations and organizations.

“Professor Slemon’s research specialty was magnetics as applied to electric machines and drives. In particular, he made contributions to the development of permanent magnet motors and high-speed magnetically-levitated and propelled interurban vehicles. He was a founding member of the International Conference on Electric Machines and of the Magnetics Society of the Institute of Electrical and Electronics Engineers. He served for several years on the Administrative Committee of the Magnetics Society, was its Distinguished Lecturer for two years, and was granted its Achievement Award in 1997.

“Also, in the Institute of Electrical and Electronics Engineers, he was elected Fellow in 1975 and was a Distinguished Lecturer for the Industrial Applications Society in 1991-96. He received the IEEE Centennial Medal in 1984, the Third Millennium Medal in 2000, the Nikola Tesla Award, and the Gold Medal in 1990.

“Professor Slemon is a Fellow of the Institute of Electrical Engineers (UK) and was the fourth Canadian to be elected as an Honorary Fellow in 1995.

“He was made a Fellow of the Engineering Institute of Canada in 1989 and twice received its Ross Medal. In 2011, he received the EIC’s highest award, the Sir John Kennedy Medal. He played a major role in the establishment and early operation of the Canadian Academy of Engineering and was its President in 1998. He was among the founders of the Canadian Conference on Engineering Education and received its first Canadian Engineering Educator of the Year Award in 1992. He received the Canadian Centennial Medal in 1967, the Queen’s Golden Jubilee Medal in 2002, and the Professional Engineers of Ontario’s Engineering Excellence Medal in 2005. In 1995, he was made an Officer in the Order of Canada.

“At the University of Toronto, Professor Slemon received the Gold Key of the Engineering Society in 1946, the Sesquicentennial Service Award in 1977, the Engineering Alumni Medal in 1987, the George Sinclair Award in 1989, and the Arbor Award in 1997. In 1992 he was admitted to the Engineering Hall of Distinction.

“He was the author or co-author of five textbooks and 160 technical papers. In 1963-64 he was Technical Advisor under the Canadian Colombo Plan in setting up Karnataka Regional Engineering College (now a National Technical University) on location at Mangalore, India. He has been involved in setting up graduate programs in engineering at the University of Havana, Cuba, at Xi’an Jiaotong University and Huazong Institute of Technology in China, and at King Ibn Saud and King Abdul Aziz Universities in Saudi Arabia.

“Professor Slemon had a passion for Engineering Design and was one of the co-founders of a highly successful and popular Departmental consulting Group called "Consociates" which had the informal reputation of "being a consultant group for the consultants."

“Gord was a much-loved and highly respected colleague and was mentor to numerous young faculty members. He will be fondly remembered.”

On a motion duly moved, seconded and carried, it was resolved –

THAT the Council of the Faculty of Applied Science and Engineering record with deep regret the death on September 26, 2011 of Professor Emeritus Gordon R. Slemon.

It was further resolved –

THAT a record of his service be inscribed in the minutes of this Council, and that a copy be sent to his family as an expression of the respect and gratitude of the members of Council.

Members of Council stood and observed one minute of silence in honour of the late Professor Emeritus Slemon.

3. Approval of the Minutes of the Previous Meeting

On a motion duly moved, seconded and carried, it was resolved –

THAT the minutes of the meeting of October 6, 2011 be approved as circulated.

4. Report of the Dean

Dean Cristina Amon welcomed members to Faculty Council and provided remarks.

(a) Academic Plan

The Faculty's five-year Academic Plan was approved at the October 6 Faculty Council meeting. Since then, we have begun the process of outlining which actions have been completed, are in progress or are pending, and have been working with various parties to prioritize activities for this year.

The Plan was highlighted in the November issue of our Faculty newsletter. Throughout the year, updates will continue to be provided through the newsletter, through presentations to our Chairs and Directors, and through our annual report to Faculty Council.

Our goal is to continually assess our progress while treating this plan as a living document, allowing us to remain flexible and to capitalize on opportunities as they arise.

(b) Annual Report

Our October Faculty newsletter highlighted the release of our third Annual Report, which contains 10 years of data in a number of areas of strategic interest, and highlights new programs and initiatives that were launched in 2010-2011.

The quantitative data gathered in the Report will be used to inform future decisions, and by rigorously tracking our trajectory and assessing how our Faculty is evolving, we can drive ourselves to even higher levels of performance and impact.

The full Annual Report is available online and some hard copies are also available for distribution. We hope that Council members find it useful.

(c) University of Toronto Mississauga (UTM)

At their May 10 meeting, Chairs and Directors were updated on discussions held with Deepak Saini, Vice-President and Principal at UTM, regarding their campus's interest in establishing an engineering program.

Chairs and Directors endorsed further discussions on this topic, and a task force was struck to investigate the possibility of a UTM-Engineering collaboration with a key criterion that there is no overlap with programs at the St. George campus. Members of the task force include Susan McCahan, Vice-Dean, Undergraduate, and Tarek Abdelrahman of The Edward S. Rogers Sr. Department of Electrical and Computer Engineering, and Professor Emeritus Ron Venter.

The task force has drafted a report which meets this criterion, with a recommendation to create a potential 10th Engineering program at UTM in management science engineering and a 2+3 model as a bridge program that would allow a small select number of students to transfer to St. George Engineering.

This initiative will be discussed further at the December 8 Chairs and Directors meeting, and more information will be provided at a subsequent Faculty Council meeting. In the meanwhile, Council members' input is welcome.

(d) University of Toronto Scarborough (UTSC)

UTSC and Engineering are discussing a proposal to create a five-year program for a BSc (UTSC) and MEng (Department of Chemical Engineering and Applied Chemistry) in which students

obtaining a BSc in Environmental Science could receive conditional early acceptance into an MEng program in Chemical Engineering.

The program would also be of interest to students studying chemistry, the environment, and any other program related to chemical engineering. Updates will be provided at future Council meetings.

(e) Acting Associate Dean, Cross-Disciplinary Programs

Gabriele D'Eleuterio of the Institute for Aerospace Studies has accepted the position of Acting Associate Dean, Cross-Disciplinary Programs for the period of January 1 through June 30, 2012, during Bryan Karney's administrative leave.

Professor D'Eleuterio has a long track record of administrative service within the Institute for Aerospace Studies, the Faculty of Applied Science and Engineering, and the University. He started October 1, 2011 as Director of the Institute for Robotics and Mechatronics, and served as Associate Chair, in the Division of Engineering Science from 2002-2007, where he played a leading role in curriculum development. He has been an active member of the Curriculum Committee at both the Institute for Aerospace Studies and the Faculty, and has served on the Academic Board and the Planning and Budget Committee of Governing Council. Professor D'Eleuterio has a comprehensive understanding of the cross-disciplinary programs within the Faculty and the associated issues that will require attention over his six-month term as Acting Associate Dean.

(f) Campaign Launch

The University officially launched its "Boundless" philanthropic campaign on November 20. The campaign has the largest target amount in the history of Canada, and Engineering is a key player.

We are in the last stages of planning our Faculty's campaign, which will be launched in the spring. The campaign will help us address a number interests, including the need to upgrade and add space. We have already conducted visits to the United States, China, Hong Kong and Singapore to speak with alumni and potential donors.

Executive Director of Advancement Jim Dawson and his team are working diligently on our campaign and will be contacting Departments and Institutes for feedback.

(g) Dedication of Renovated Lassonde Mining Building

On November 28, we celebrated the dedication of the renovated Lassonde Mining Building. The addition to the 4th and 5th attic floors, known as the Goldcorp Mining Innovation Suite, provides approximately 100 workstations for student teams to conduct design projects, and a new rooftop meeting room has been created. The space also accommodates 24 graduate students and over 90 undergraduate students.

The renovation is an example of philanthropic, government and faculty support coming together to provide not only an enhanced teaching and research environment, but economic benefits for the province.

(h) Chairs and Research Initiatives

Our Faculty has three new appointments for vacated CRC chairs which will be announced in February. We have a Pratt & Whitney NSERC industrial chair at the Institute for Aerospace Studies and a pending Altera NSERC Industrial Research Chair at the Edward S. Rogers Sr. Department of Electrical and Computer Engineering. We will receive a site visit for our proposal for an NSERC Design Chair at the Faculty and Department of Mechanical and Industrial Engineering on December 12.

The following recent major group efforts were acknowledged: Water Research Group (treatment technologies for remediated contaminated groundwater), under Brent Sleep; Drinking Water Research Group, under Bob Andrews; and the Centre for the Resilience of Critical Infrastructure, under Michael Collins.

The Dean thanked these professors for bringing their group research efforts to fruition, and encouraged faculty members to discuss with their Chairs or Directors how they might take advantage of the increase in opportunities for group initiatives and multi-disciplinary projects.

(i) Possible Teaching Assistant Strike

Regarding an ongoing teaching assistant labour dispute with CUPE 3902, of those members who voted, 91% were in favour of a strike if negotiations fail to offer a "reasonable contract." The union and the University continue to meet, and any changes will be communicated by the Office of the Provost.

It is unlikely that either classes or the examinations schedule will be affected this term due to the requirement of the parties to meet with a conciliator and the 20 days needed to file a strike notice.

5. Revision to the Procedures for Committees of Council: Graduate Students Appointment Process

The Speaker reminded members that Faculty Council meetings are formal and our Rules of Order and standard parliamentary procedure require that a motion be seconded before discussion ensues.

Chris Damaren presented the proposed revisions to the Committee Procedures, which were circulated in advance as Report 3313. He reminded members that the Committee Procedures were first revised to change the way in which undergraduate students are appointed to Standing Committees, and that Council had asked that the process for appointing graduate students be clarified. Professor Damaren outlined the changes.

At the conclusion of the presentation, the following regular motion was duly moved and seconded –

THAT the Procedures for Committees of Council of the Faculty of Applied Science and Engineering (approved October 6, 2011) be revised from:

P1.1 Committees shall be appointed at the spring meeting of Faculty Council. Undergraduate student representatives shall be appointed by the Engineering Society Executive by the end of September.

to:

P1.1 Committees shall be appointed at the Spring meeting of Faculty Council. By the end of September, undergraduate student representatives shall be nominated by the Engineering Society Executive, and graduate student representatives from each unit shall be nominated by that unit's graduate students association executive. In both cases, nominees may be selected from the elected and unelected student bodies.

Nominees for Faculty Council and the Executive Committee shall be selected from the elected members of the undergraduate students' Engineering Society, and from the elected members of the Faculty's graduate student associations executives, respectively.

The Speaker invited discussion. In response to a member's question, Professor Damaren explained that graduate student association executives nominate representatives to Standing Committees, but that Standing Committee Chairs appoint the graduate representatives from the pool of nominees.

The Speaker called the question. The motion was carried.

6. Revision to Community Affairs and Gender Issues Committee Manual

Don Kirk, Committee Chair, presented proposed revisions to the Committee's Manual, which were circulated in advance as Report 3321. He explained that the Manual is being revised to remove elements and activities that no longer apply, and to include a new focus on recruitment and retention, as well as to provide a permanent base for faculty members who are already involved in these activities. He further stated that the revisions include an increased composition of the Committee to ensure equal representation from all Departments and Institutes, particularly regarding recruitment and retention endeavours.

At the conclusion of the presentation, the following regular motion was duly moved and seconded –

THAT the revised Manual for the Committee on Community Affairs and Gender Issues be approved.

The Speaker invited discussion. A member asked what impact the new recruitment efforts will have on departmental staff who are already involved with these activities, and said that a good model for including staff already exists in the Examinations Committee. Professor Kirk said that having staff involved would be an appropriate model for the Community Affairs and Gender Issues Committee.

The Speaker called the question. The motion was carried.

7. Proposed Substantive Curriculum Changes, 2012-2013

The Speaker noted that Report 3320 was circulated on November 21, but was subsequently revised and re-circulated on November 29.

Graeme Norval, Chair of the Undergraduate Curriculum Committee, explained the difference between "substantive" and "minor" curriculum changes and reviewed the proposed substantive changes as outlined in Report 3320 Revised.

At the conclusion of the presentation, the following regular motion was duly moved and seconded –

THAT the proposed substantive curriculum changes be approved and introduced in the 2012-2013 academic year.

The Speaker invited discussion. A member asked if the changes in Mineral Engineering would affect students currently in the program, and another member responded that they would.

A member asked what the goal is of the new course proposed in the Engineering Communications Program, and whether students had been consulted as the course was developed. Peter Weiss explained that ECP's course content is being modified to meet the CEAB's graduate attributes requirements and that consultations with students are ongoing and will include focus groups. He further noted that the Engineering Society is very good at collecting feedback from students.

Another member asked why modifications to the curriculum in Engineering Science's Biomedical Major are being proposed at this time. Paul Santerre responded that the field of biomedical engineering has evolved substantially and that the proposed changes have been under discussion for over a year. The changes have been initiated as a result of feedback from student surveys where undergraduate students have requested more foundation courses and greater breadth. The new curriculum was presented to Engineering Science students in the fall and has been well received, and the new courses that have been piloted this year have generated positive feedback.

In response to another question about Biomedical Systems Engineering I and II, Professor Santerre said that these courses do not overlap, and that one does not require the other as a prerequisite.

The Speaker called the question. The motion was carried.

8. Proposed Session Dates, 2012-2013

Graeme Norval, Chair of the Undergraduate Curriculum Committee, presented the proposed session dates for the upcoming academic year which were circulated in advance as Report 3319, and stated that the dormitory and Arts & Science calendars had been consulted.

At the conclusion of the presentation, the following regular motion was duly moved and seconded –

THAT the proposed session dates for the 2012-2013 academic year be approved.

There was no discussion, and the Speaker called the question. The motion was carried.

9. Reports and Recommendations of Standing Committees

The Speaker reminded members that the following reports are for Council's information.

(a) Admissions Cycle 2011

The Admissions Committee's report on the 2011 admissions cycle was circulated in advance as Report 3318.

Christopher Yip, Chair, presented the report. There were no questions and the report was received for information.

(b) Engineering Graduate Education Information Report

The Engineering Graduate Education Committee's report was circulated in advance as Report 3314.

Christopher Damaren, Chair, presented the report, which consisted of a proposal to renumber APS501H (CHE) to APS1501H.

There were no questions and the report was received for information.

(c) Proposed Curriculum Changes, 2012-2013

The Undergraduate Curriculum Committee's proposed curriculum changes for the upcoming academic year were circulated in advance as Report 3317.

Graeme Norval, Chair, presented the report, noting that the proposed changes predominantly involve minor edits to the course descriptions.

There were no questions and the report was received for information.

(d) Modifications to Teaching Award Guidelines

The Teaching Methods and Resources Committee's proposed modifications to teaching award guidelines were circulated in advance as Report 3316.

Greg Jamieson, Chair, presented the report, describing changes to the submission guidelines for the Faculty Teaching Award and the Early Career Teaching Award. Professor Jamieson stated that the Committee will soon be inviting Chairs and Directors and students to forward their nominations for these awards for the 2011-2012 academic year.

There were no questions and the report was received for information.

10. Other Business

Dean Amon acknowledged and thanked Phil Byer for attending his last Faculty Council meeting before retiring, and invited him to continue to attend future Council meetings.

There was no further business.

11. Date of Next Meeting

The next meeting of Faculty Council is March 7, 2012.

12. Adjournment

The Speaker thanked members for attending and participating in the meeting. The meeting adjourned at 1:20 p.m.