



**Minutes of the Faculty Council of
April 10, 2017 at 12:10 p.m.
Michael E. Charles Council Chamber (GB 202)**

PRESENT

Doug Reeve (Speaker)
Grant Allen
Cristina Amon (Dean)
Jason Anderson
Susan Andrews
Giselle Azimi
Joe Baptista
Aimy Bazylak
Jason Bazylak
Chris Beck
Tim Bender
Evan Bentz
Erin Bobicki
Chris Bouwmeester
Esmeralda Bukuroshi
Markus Bussmann
Brittney Carter
Hai-ling (Margaret) Cheng
Ayesha David
Francis Dawson
Stark Draper
Natalie Enright Jerger
Greg Evans
Jennifer Farmer
Ramin Farnood
Marie Floryan
William Graydon
Krisztina Harmath
Marianne Hatzopoulou
Jennifer Hsu
Fay Huang
Calvin Huynh
Lauren Ip
Bryan James
Charles Jia
James Jin

Paul Jowlabar
Dawn Kilkenny
Don Kirk
Frank Kschischang
Deepa Kundur
Elias Kyriacou
Chi-Guhn Lee
Tianyan Li
Antonio Liscidini
Don MacMillan
Naomi Matsuura
Farid Najm
Jun Nogami
Vladimiro Papangelakis
Daniel Posen
Jonathan Rocheleau
Jonathan Rose
Stephanie Rose
Shamim Sheikh
Brent Sleep
Micah Stickel
Jonathan Swyers
Hamid Timorabadi
Olivier Trescases
Shahrokh Valaee
Chirag Variawa
Nefeteria Wickham
Victor Xin
Henry Xu
David Yang
Christopher Yip
Safwat Zaky
Danny Zhang

REGRETS

Olga Bondarev
Alex McLean

Jeffrey Packer
Ken Tallman
Olev Trass
Jean Zu

GUESTS

Mohamed Abdelfattah
Michelle Beaton
Helen Bright
Chris Brown
Sharon Brown
Christina da Rocha-Feeley
Leanne Dawkins
Sonia de Buglio
Carol Finlay
Surath Gomis
Leslie Grife
Cori Hanson
Barrett Hooper
Carmen Horvath
Phuong Huynh
Jennifer Lancaster
Milan Maljkovic
JD Muir
Dan Pettigrew
Mandeep Rayat
Catherine Riddell
Michelle Spence
Samantha Stuart
Alex Tichine
Geoff Wichert
Caroline Ziegler (Secretary)

1. Speaker's Welcome and Adoption of the Agenda

Council Speaker Doug Reeve welcomed and thanked all members in attendance at the final Faculty Council meeting of the 2016-2017 academic year. With the close of the school year, he reflected on the history of the Galbraith Building, specifically on the life and contributions of its namesake, John Galbraith.

Born in Montreal in 1846, John Galbraith earned a BA and MA from University College and worked as a railway engineer. He was appointed the first professor of engineering at the School of Practical Science (SPS) upon its founding in 1878. There, he initially taught all engineering subjects, 14 courses with 12 running through both terms.

Galbraith was principal of SPS from 1889 until 1906, when the school was formally affiliated with the University of Toronto. He was appointed Dean of the newly-created Faculty of Applied Science and Engineering that year, a position he held until his death in 1914. SPS and the Faculty grew rapidly under Galbraith, with new courses and staff added every year. Its first BAsC degree was awarded in 1892 and enrolment increased from 70 students in 1888 to 770 in 1908.

Initially housed in the "The Little Red Skulehouse", the Faculty relocated to the Geography Building in 1958, then to the newly-constructed Galbraith Building in 1961. Built to accommodate the Faculty's administrative offices and an increasing number of students, the Galbraith Building features the Michael E. Charles Council Chamber, where Faculty Council meetings are held.

More information on John Galbraith and his achievements can be found in *The Skule Story*, a history of the Faculty from 1873-2000.

The Speaker then announced that the meeting agenda and reports were circulated on March 31, 2017. Report 3541 Revised: Collaborative Master's Specialization in Psychology and Engineering, and Report 3459 Revised: Faculty Appointments to Standing Committees and Academic Appeals Board, 2017-2018, were distributed on April 5, 2017. Report 3552: Report of the Engineering Alumni Honours & Awards Committee, was distributed on April 7, 2017 when its embargo was lifted.

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

THAT the agenda be adopted.

2. Adoption of the Minutes of the Previous Meeting

The minutes of the February 28, 2017 meeting were deferred to the first Council meeting of 2017-2018.

3. Report of the Dean

Dean Amon welcomed members to Faculty Council and provided the following remarks.

(a) CEIE Update

Good progress continues on the CEIE. There was a slight delay due to the recent weather, however, we hope to be very close to substantially completing the building at the end of October.

(b) EIIP/TEAL Fellows

Within the CEIE, we will have a 468-seat interactive auditorium with four- to six-seat tables that facilitate simultaneous group activities, design studios for break out and other activities, and Technology Enhanced Active Learning (TEAL) rooms that allow for different seating arrangements as required.

Colleagues have been encouraged to review our call for proposals for the Engineering Instructional Innovation Program (EIIP) and the new TEAL Fellows Program.

We received 10 letters of intent for the EIIP by the deadline this past week. This is our fourth round, and it is aimed at the creation and re-design of courses, particularly large ones that will make use of our new auditorium and learning facilities at the CEIE.

We created the new TEAL Fellows Program to encourage the design or redesign of undergraduate or graduate courses to include active learning approaches that leverage the use of our new TEAL rooms. Proposals are due on April 18.

Two workshops are scheduled for this week, today from 3:00 to 4:00 pm and Wednesday from 3:00 to 4:00 pm. Both are in our TEAL room, SF3201. I would like to thank Micah Stickel, Chair, First Year and Tom Coyle, Vice-Dean, Undergraduate, for organizing the workshops. I encourage you to attend and consider using the new facilities for your courses and to submit proposals if appropriate.

(c) Dean's Strategic Fund

The Dean's Strategic Fund was created six years ago to help seed initiatives that, through departmental constraints, may not otherwise have been funded, with the goal that they be financially self-sustaining after three years. We encourage collaborative, interdisciplinary proposals that will help our Faculty achieve our academic plan goals and priorities.

We received 25 proposals this year, up from 18 last year, and overall the quality was excellent. Decision letters will be sent out shortly.

The Dean thanked those who reviewed the proposals and those who submitted them.

(d) Town Hall

This year, we co-hosted three Dean's Town Halls with the Engineering Society. Student engagement in these forums has been very high this year and we had some excellent feedback

on the topics of evaluations and mid-course feedback, accreditation; and enhanced active learning (non-lecture based formats).

We will be acting on this feedback and look forward to working with the new Engineering Society executive on next year's town halls and ideas on how to engage students.

(e) Engineering Society Election Results

On behalf of the Faculty, the Dean thanked now Past-President Milan Maljkovic and his entire executive team for their tremendous leadership of the Engineering Society and representation of student interests at Faculty Council this past year.

Congratulations to the new Engineering Society President Jonathan Swyers and the members of his leadership team. We look forward to working with them in the coming year.

(f) Institute for Engineering Education

The Institute for Engineering Education, or name to be determined, will be a home for pedagogical discussion and teaching innovation in our Faculty.

We had originally planned to bring forward the proposal to Council at this meeting, however, because of the importance of gathering additional input and addressing the diverse and broad views of our engineering community, we will instead bring this forward in the next governance year. A draft proposal will be presented for discussion at the October Council meeting, and a final proposal for approval at the December meeting. In the meantime, members are encouraged to continue to send input to Professor Greg Evans, chair of the working group, or any of its members.

Our Faculty continues to develop innovative programming. A certificate in Forensic Engineering and a minor in Advanced Manufacturing will start in September, and on the graduate side, we have launched an MEng in Biomedical Engineering and have piloted MD+, a new MD/MEng degree.

Proposals for the creation of a collaborative master's specialization in Psychology and Engineering, and the multidisciplinary Institute for Water Innovation, to be housed in the CEIE, will be discussed later at this meeting.

We are currently developing an Engineering Science major and a minor in the areas of Machine Learning/Artificial Intelligence (name to be determined), and are exploring a double major in Music and Engineering, a minor in Music, and, through the efforts of a working group led by Tim Barfoot, the creation of a University-wide Institute for Robotics.

Next year, we will develop a combined BAsC and MASc degree program involving several of our departments and institutes.

(g) Canadian Engineering Education Association 2017

Our Faculty is proud to be hosting the 2017 conference of the Canadian Engineering Education Association from June 4 through 7, here in Toronto. We encourage you to attend to learn ways to enhance teaching practices, network with over 200 engineering educators from across Canada, help envision how we should educate the engineer of 2050, participate in workshops on diversity in engineering, engineering leadership, education methodologies, and CEAB accreditation as we prepare for our fall 2018 visit.

Through the sponsorship of several of our departments and the Faculty, some free registrations are available for first time attendees; please contact the Dean's Office or your department Chair.

A full day workshop on "Teaching for Effective Learning in Engineering" facilitated by top educators from across Canada, will be offered on June 3, just before the conference.

(h) Convocation

Spring convocation will be held during the morning, afternoon and evening of June 13.

Convocation for Electrical & Computer Engineering and Materials Science & Engineering is from 10:00 am to 12:00 pm, with Honorary Graduand ECE alumna Catherine Lacavera, currently Director, Litigation at Google.

Convocation for Mechanical & Industrial Engineering, Civil Engineering and Mineral Engineering is from 2:30 to 4:30 pm with Honorary Graduand Rita Roy, President and CEO, MasterCard Foundation.

Convocation for Chemical Engineering, Engineering Science, Aerospace Engineering, and Biomedical Engineering is from 6:30 to 8:30 pm with Professor and Council Speaker Doug Reeve as convocation speaker.

The Dean encouraged colleagues to attend. As was done last year, each department and institute will host a convocation reception for their students and guests.

(i) Celebrating Engineering Excellence

Our Celebrating Engineering Excellence awards reception for faculty and staff is scheduled for April 26 from 4:00 to 6:00 pm in GB202. This is a wonderful opportunity to recognize and celebrate our colleagues and their contributions to the Faculty. We look forward to seeing you there.

(j) Jonathan Rose

Jonathan Rose was acknowledged for taking on the role of Acting Associate Dean, Cross Disciplinary Programs this past year while Bryan Karney was on leave.

There were no questions for the Dean.

4. Institute for Water Innovation as an EDU:C

Report 3537 Revised was listed incorrectly on the agenda as Report 3536 Revised. It will be considered by special motion, requiring a two-thirds majority of members present and voting to carry.

Vladimiro Papangelakis of the Department of Chemical Engineering & Applied Chemistry presented the report, a proposal to create the Institute for Water Innovation as an extra-departmental unit, type C (EDU:C). The IWI will be a multidisciplinary, multi-departmental unit that fosters research and scholarly interest in water research and where active administrative and budgetary responsibility will reside. Its mandate is to engage in research activities with industry, government and public utilities, to provide research-based evidence to address industrial and municipal water challenges including those facing indigenous communities, to provide science-based guidance to policy developers and NGOs, to engage and collaborate with other University centres, to enhance the training of students, and to increase the external profile of FASE and the University. The Institute will involve faculty from across FASE and be housed in the Centre for Engineering Innovation & Entrepreneurship building upon completion of construction.

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

THAT the Faculty establish the Institute for Water Innovation (IWI) as an Extra-Departmental Unit:C (EDU:C), as described in Report 3537 Revised, effective upon the approval of Faculty Council.

There were no questions and the motion was carried.

5. Increasing the Length of Civil Engineering's MASc Program

Markus Bussmann, Vice-Dean, Graduate and Chair of the Engineering Graduate Education Committee, presented Report 3542, a proposal to change the length of the MASc program in the Department of Civil Engineering. Some time ago, the Department had shortened the program from six sessions to five. It has now redefined the program length and proposes to increase it to six sessions, or 24 months. A major impact of this change will be to guarantee funding for students; it will also help to more accurately reflect the time it generally takes students to complete their programs, help them better manage their expectations and monitor their progress, and make the program length consistent with the majority of MASc degree programs in the Faculty.

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

THAT the length of the Master of Applied Science (MASc) program in Civil Engineering be increased from 20 months to 24 months, as described in Report 3542, effective September 2017.

There were no questions and the motion was carried.

6. Adding Part-Time Option to IBBME's MEng Program

Markus Bussmann, Vice-Dean, Graduate and Chair of the Engineering Graduate Education Committee, presented Report 3543, a proposal to introduce a part-time option to the existing full-time MEng program in the Institute of Biomaterials & Biomedical Engineering. The program was initially envisioned to be completed by full-time students in one year but since it was introduced this past fall with nine students enrolled, there has been much interest from working engineers and MD students in the Faculty of Medicine to take it on a part-time basis over two to three years. It is anticipated that over time, the program will have roughly the same intake of full-time and part-time students.

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

THAT a part-time option be added to the Master of Engineering (MEng) program in the Institute of Biomaterials & Biomedical Engineering, as described in Report 3543, effective September 2017.

There were no questions and the motion was carried.

7. Collaborative Master's Specialization in Psychology and Engineering

Markus Bussmann, Vice-Dean, Graduate and Chair of the Engineering Graduate Education Committee, presented Report 3541 Revised, a proposal to create a collaborative master's specialization in Psychology and Engineering (PsychEng), involving MIE and the Department of Psychology in the Faculty of Arts & Science. Led by FASE, the collaborative specialization will benefit interested graduate students and faculty in both departments by creating a community of practice where they can research, learn, practice and create.

Applicants must be accepted into either the MASc program in MIE or in the MA program in Psychology before they can be accepted into the collaborative specialization. Program requirements for the collaborative specialization include the completion of a PsychEng seminar series, two half courses (.5 FCE from the other participating department), and a thesis focused on a related topic.

The approximately 40 collaborative specializations at U of T were formerly called "collaborative programs", including our Faculty's collaborative specializations in Biomedical Engineering and in Engineering Education. The nomenclature was changed in accordance with a proposal approved by the province in October 2016; there is no impact on students.

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

THAT the creation of a Collaborative Master's Specialization in Psychology and Engineering, as described in Report 3541 Revised, be approved, effective September 2017.

Professor Bussmann said that it is straightforward for students in programs other than MIE and Psychology, as well as other Engineering departments, to join the collaborative specialization.

It is expected that five students from each department will be signed up in the first year of the program, and that its goal is to grow beyond the two departments.

Professor Bussmann explained that the collaborative specialization came about because the proponent, Li Shu of MIE, studies design and how it works, which involves a great deal of psychology. She has made connections in the Psychology Department and has sat in on many of their courses.

Professor Bussmann assured Council that, in addition to satisfying their home degree's admission requirements, applicants must provide a statement of purpose in which they describe their background or experience relating to the intersection of engineering and psychology and why they are interested in pursuing graduate studies in PsychEng. Applicants must find an appropriate supervisor from their home department and may choose to also engage a subsidiary supervisor from the collaborating department.

The motion was carried.

8. Re-Issued Session Dates

Evan Bentz, Chair of the Undergraduate Committee, presented Report 3538, new proposed FASE session dates for 2017-2018 and the summer of 2017, and tentative dates for the summer of 2018.

When the session dates for 2017-2018 were initially approved by Council as Report 3524 in December 2016, the full effect of a longer exam period for the Faculty of Arts & Science was not known. Academic and Campus Events, which schedules all final exams, forecast the impact on our Faculty to be minimal. It is now known that during the April 2018 exam period there will be an overlap of six days during which Arts & Science exams will take place while Engineering students are still in class. While it is not possible to avoid the overlap entirely, the committee aims to reduce it from six days to three and will offer an alternative exam timeslot to those FASE students with a conflict between their classes and Arts & Science exams.

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

THAT Report 3524 and Report 3524 Revised be withdrawn and the 2017-2018 session dates proposed in Report 3538 be approved.

To minimize the chances of a similar conflict in the future, the Undergraduate Curriculum Committee will set session dates after the Faculty of Arts & Science has set theirs. A member asked if we should attempt to coordinate session dates with Arts & Science instead of following them, but Professor Bentz said that it is difficult to achieve consensus

especially since our calendar must be longer than that of Arts & Science because of our accreditation requirements.

A member asked if there are any concerns about the timing of the fall session and Frosh orientation week. Professor Bentz said that our two Faculties have no control over the fall term because of the December holiday break, but no problems are anticipated then.

The motion was carried.

9. Changes to the Policy on Students Taking Courses during the Second Probation Period

Jim Davis, Chair of the Examinations Committee, presented Report 3546 Revised, changes to the *Policy on Students Taking Courses during the Second Probation Withdrawal Period*, as found in Section VIII of the Academic Regulations Chapter in the Faculty's undergraduate calendar.

The Examinations Committee regularly receives petitions from students placed on second probation asking to be allowed to take courses during the eight-month mandatory withdrawal period. For students in years two through four, many of these requests are approved to allow them to maintain access to the University's medical and academic resources, and to give them an opportunity to make up failed courses from previous terms. The committee proposes to amend the policy to explicitly allow students on mandatory withdrawal to take courses under some circumstances. The new wording will codify and regularize the Faculty's practices in these cases and allow academic advisors to implement agreed-upon academic plans for students more quickly, without the need for petitions to the Examinations Committee.

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

THAT the calendar entry for Academic Regulation VIII.2 be changed to:

2. Required Withdrawal:

A student who has failed a session is required to withdraw and must discontinue their studies as soon as grades are made official. This applies whether or not the student is enrolled in courses that continue in the following session. In all cases where a full year course is dropped, the student will not receive credit for any work already done in the course. A student who is required to withdraw after a Fall Session will be withdrawn by the Registrar's Office and will receive a refund for the Winter Session. A student who wishes to withdraw voluntarily must complete a withdrawal form at the Registrar's Office. A student who is required to withdraw after a Winter Session need not complete a withdrawal form.

[new text] Under some conditions, students in years 2-4 may request to be enrolled in a maximum of 3 half-course equivalents during the withdrawal period. These courses must consist of previously failed technical courses (not from the term leading to second probation status) and, in special cases, complementary studies courses. Students who receive second probation status following term 1S may request to be enrolled in a maximum of 2 half-course equivalents during the following fall term session. Students will make such requests through their academic advisor; decisions will be made on a departmental basis. Petitions to the Examinations Committee are required for requests outside this scope.

There was no discussion and the motion was carried.

10. Changes to the Policy on Students Withdrawing from Courses after the Withdrawal Deadline without Documentation

Jim Davis, Chair of the Examinations Committee, presented Report 3547 Revised, proposed changes to the *Policy on Students Withdrawing from Courses after the Withdrawal Deadline without Documentation*.

The Examinations Committee regularly receives petitions from students to withdraw from courses after the normal withdrawal deadline has passed. In cases where there is no medical or other documentation, there is currently no mechanism for students to withdraw from courses even when it is clear that there is no chance of success. The Faculty's current policy follows the Faculty of Arts & Science's rules regarding late withdrawal from non-technical courses. FAS is proposing radical changes to their policy, allowing students to withdraw from up to eight courses after they receive their final grades. This was considered too extreme by some on the Examinations Committee, who developed a policy thought to be best for our students that will allow for the greatest flexibility while maintaining a path for them to graduate on schedule. Students in years two through four would not be able to drop core courses without a petition, in order to retain the necessary prerequisites for future courses. Students in first year would have the ability to take core technical courses during the summer session.

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

THAT the calendar entry for Academic Regulation VIII.8 be changed to:

8. Late Withdrawal without Documentation

This policy applies to students wishing to withdraw from courses after the withdrawal deadline, but prior to the start of the APSC examinations period.

Case (1): Students in years 2-4

- Students are allowed to drop, without penalty, a maximum of two half-credit (0.5 wt) elective courses. This would be a three-year total, and does not include

courses dropped under this policy in year 1. This applies to technical electives, CS/HSS electives and free electives taken at the University of Toronto.

Case (2): Students in year 1 Engineering Science

- Students are allowed to drop a maximum of three half-credit courses in:
 - a) term 1F as part of a transition to term 1S in a core-8 program, or
 - b) term 1S as part of a transition to term 2F in a core-8 program.

Case (3): Students in year 1 Core 8/Track 1

- Students are allowed to drop a maximum of two half-credit courses over the combined 1F and 1S terms.

Students will make such requests through their undergraduate advisor; petitions to the Committee on Examinations are not required. A LWD will appear on the student's transcript for all courses dropped under this policy. This course status will have no effect on the GPA, Sessional Averages, or other elements of the academic record.

Professor Davis explained that first year Engineering Science students who do not wish to transition out of that program must petition the Examinations Committee, and may take an extra year to make up the withdrawn courses.

The Registrar confirmed that, regardless of which Faculty offers a course, students are bound by their own Faculty's policies.

The motion was carried.

11. Reports and Recommendations of Standing Committees

The Speaker honoured the tremendous amount of work involved in bringing motions forward. This appears to be a smooth process because of the amount of preparation done prior to Council by standing committees and the Executive Committee of Faculty Council.

The following reports were approved by the Executive Committee at its March 21, 2017 meeting and are being presented for Council's information.

(a) Engineering Graduate Education Committee: Update

Markus Bussmann, Vice-Dean, Graduate Studies and Chair of the Engineering Graduate Education Committee, presented Report 3540, which lists changes to the graduate curriculum. Of particular importance are the reduction of the internship requirement in the MHSc in Clinical Engineering from 1,250 hours to a minimum of 625 hours, the decision to record the completion of emphases on transcripts beginning September 2017, and the creation of a new emphasis in Forensic Engineering which will involve five of the Faculty's seven graduate units.

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

(b) Examinations Committee: Minor Changes to the Wording in the Calendar Entry for the new Probation Lifting Policy

Jim Davis, Chair of the Examinations Committee, presented Report 3548, which describes minor changes to correct ambiguous wording regarding the *Probation Lifting Policy* noticed while preparing the 2017-2018 calendar entry.

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

(c) Undergraduate Curriculum Committee: Minor Curriculum Changes for 2017-2018

Evan Bentz, Chair of the Undergraduate Curriculum Committee, presented Report 3536, which describes two minor changes in course scheduling affecting Engineering Science's AER525H1: Robotics, and Chemical Engineering's CHE451: Petroleum Engineering.

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

12. Faculty Appointments to Standing Committees and Academic Appeals Board, 2017-2108

Pursuant to our Faculty's bylaws, a list of candidates for service on the standing committees of Council and the Academic Appeals Board shall be provided annually to the Speaker by each department, division or institute.

The Speaker presented Report 3459 Revised, a list of faculty members appointed to date for the 2017-2018 academic year. Graduate and undergraduate students and alumni representatives will be appointed by the end of September, and a final list of members will be provided to Faculty Council at its first meeting in 2017-2018.

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

13. Report of the Engineering Alumni Honours and Awards Committee

Safwat Zaky, Chair of the Engineering Alumni Honours & Awards Committee, thanked committee members for their work and presented Report 3552, a listing of candidates for induction into the 2017 Engineering Alumni Hall of Distinction, and recipients of the Engineering Alumni Medal, 2T5 Mid-Career Award, 7T6 Early-Career Award, Malcolm McGrath Award, L.E. (Ted) Jones Award.

The Speaker also acknowledged and thanked the members of the Engineering Alumni Honours and Awards Committee for their dedication.

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

14. Recognition of Service

(a) Retiring Faculty Member

Grant Allen, Chair of the Department of Chemical Engineering & Applied Chemistry, acknowledged and thanked Professor Jowlabar, who will retire on June 30, 2017. The Speaker commended Professor Jowlabar, stating that it will be difficult to replace him. Members stood to give the professor a standing ovation.

(b) Outgoing Academic Administrators

Dean Amon recognized the contributions of Professor Chris Yip as he ends his term as Director of the Institute of Biomaterials & Biomedical Engineering to begin his appointment as Associate Vice-President, International Partnerships at the University of Toronto in July 2017.

Jean Zu, who was unable to attend the meeting, recently ended her term as Chair of the Department of Mechanical & Industrial Engineering to begin an appointment as Dean of the Charles V. Schaefer Jr. School of Engineering and Science at Stevens Institute of Technology in New Jersey. Professor Zu will be acknowledged at a separate function.

(c) Teaching Assistant Award

Established by Faculty Council in May 2010, the Teaching Assistant Award recognizes teaching assistants who demonstrate outstanding performance in classroom instruction, consultation with students outside class, the use of effective teaching methods, and the development of course material.

Dean Amon presented Mohamed Abdelfattah, a PhD candidate in The Edward S. Rogers Sr. Department of Electrical and Computer Engineering, specializing in computer engineering, with the award of an engraved jade plaque and thanked him for his outstanding contributions to engineering education in the Faculty.

15. Discussion Items

The following update is for discussion purposes only.

(a) Proposed Changes to the First-Year Promotion Regulations

Micah Stickel, Chair, First Year, provided an overview of the first-year Core 8 and Track One promotion regulations in our Faculty, suggesting that our system of assessing students on a percentage system may be more complex than necessary. He went on to describe the assessment practices at several other institutions, notably “pass/fail” or “pass/no record” systems regarding First Year, First Term (1F) grades.

A pass/fail fall term model is used at the National University of Singapore, Colorado State University, and the California Institute of Technology. For each course, a student’s grade is either *P* or *F*. A pass/no record fall term model is used at MIT, where for each course, a student’s official grade is either *P* or nothing. In both models, the passing level is usually placed at C or above ($\geq 60\%$), students receive regular grades and feedback on their

degree of material mastery, and the second term (1W) usually moves to a letter- or percentage-based grading.

Potential benefits of a pass/fail model are that it would not affect a student's cumulative grade point average; it would promote a student's interest in learning how to learn; it would support a student's transition and mental wellness; and it may allow for the use of more meaningful assessment practices, focused on providing rich formative feedback.

However, one must consider if these models delay the inevitable real-world shock of percentage grades and ask if a *P* requirement will lead to a *P* effort. In addition, these models require alternative pedagogy and advising practices to support students through 1F, and they may present logistic and administrative challenges.

Council discussed the correlation between the 1F average versus the high school admit average; whether any changes to our first-year promotion regulations should apply to Engineering Science students; if a higher threshold would cause more students to fail; and the need to implement practices to identify and support students who are in danger of failing.

Also discussed were "shadow grades" that reflect a student's true progress but are not recorded on their transcript, and how these might negatively affect their mind-set; how we can acknowledge students who are very competitive and work hard for top grades; if data exists that indicate the percentage of students who are failing at the institutions mentioned above; and how we can prepare students who graduate from high schools with very different levels of preparedness.

Council will continue to discuss this topic during the upcoming academic year.

16. Other Business

The Speaker announced FASE alumna Claire Kennedy's appointment as Chair of the University's Governing Council, effective July 1, 2017 following five years of service as a member.

Ms. Kennedy received a BSc in Chemical Engineering & Applied Chemistry from U of T Engineering in 1989 and an LLB from Queen's University in 1994. As a partner at Bennett Jones LLP and one of Canada's leading tax lawyers, Ms. Kennedy was appointed to the Board of the Bank of Canada in 2012.

One of Ms. Kennedy's many contributions to the Faculty can be seen in BizSkule, an alumni speaker series and networking event, which she founded and still chairs.

17. Date of Next Meeting

The governance meeting schedule for 2017-2018 is being developed and will be distributed to Faculty Council.

18. Adjournment

The meeting was adjourned at 2:05 p.m.

/cz