



**Minutes of the Faculty Council
Meeting of October 31, 2019
Michael E. Charles Council Chamber (GB 202)**

PRESENT: Doug Reeve (Speaker), Chris Yip (Dean), Raviraj Adve, Grant Allen, Vanathi Anpalagan, Julie Audet, Joe Baptista, Yesim Barista, Jason Bazylak, Evan Bentz, Savanna Blade, Erin Bobicki, Chris Bouwmeester, Markus Bussmann, José Cadavid, Brittney Carter, Sourojeet Chakraborty, Warren Chan, Swetaprovo Chaudhuri, Hai-Ling Margaret Cheng, Will Cluett, Georgia Collins, Jim Courtney, Chris Damaren, Victoria DelCampo, Ruknoon Dinder, Khuong Doan, Natalie Enright Jerger, Jennifer Farmer, Ramin Farnood, Zahir Firoze, Marie Floryan, Jacob Foster, Diane Giang, Aidan Grenville, Michel Haché, Krisztina Harmath, Marianne Hatzopoulou, Glenn Hibbard, Jennifer Hsu, Harry Jiang, Ece Kazkaysi, Samir Khaki, Ankita Khanda, Dawn Kilkenny-Rocheleau, Akinori Kimura, Don Kirk, Jonathan Kong, Christopher Kousinioris, Deepa Kundur, Elias Kyriacou, Ze Bin Li, Don MacMillan, Paul Malozewski, Elham Marzi, Minnie Menezes, Mirjana Mijalkovic, Emily Moore, Jun Nogami, Vladimiro Papangelakis, Elodie Passeport, Nelly Pietropaolo, Daniel Posen, Chloe Quijano, Meghna Ravikumar, Jonathan Rocheleau, Daniel Rozhko, Patricia Sheridan, Brent Sleep, Myeong Hun Song, Nicholas Stern, Micah Stickel, Kenneth Tallman, Mindy Thuna, Deborah Tihanyi, Hamid Timorabadi, Olev Trass, Morgaine Saskia Van Beers, Mingxuan (Walter) Yang, Caroline Ziegler (Secretary)

REGRETS: Timothy Bender, Tom Coyle, Jason Foster, Emily Goridkov, Brenda McCabe, David Taylor

GUESTS: Helen Bright, Chris Brown, Leanne Dawkins, Sonia De Buglio, Sandy Chang, Shilpa Gantotti, Darlene Gorzo, Leslie Grife, Cathy Grilo, Cori Hanson, Phuong Huynh, Victoria James, Mahta Massoud, Penny Miller, Dan Pettigrew, Cindy Rottmann, Alex Schroen, Marisa Sterling, Geoff Wichert

1. Speaker's Welcome

Council Speaker Doug Reeve welcomed members to Faculty Council and acknowledged the University's use of traditional land. He invited all to participate in Council discussions. After being recognized by the Speaker, they should stand, if able, identify themselves by name and constituency, and address their comments to the Speaker. If standing is a barrier to participation, they may remain seated or put their questions or comments to the Speaker in writing.

As this was the first meeting of the 2019-2020 academic year, the Speaker invited those present to introduce themselves by constituency group.

The Speaker then described the mission of universities, quoting Professor George Fallis, former Dean of the Faculty of Arts at York University: "Universities require a special form of governance.

Universities are autonomous institutions, whose professors have academic freedom in their teaching and research, and which in academic matters operate in a system of collegial self-governance. The mission and the governance are inseparable. The one requires the other. This brings a deep tension. Universities receive public money and a fundamental principle of democracy is that elected representatives be accountable for the use of public funds. Any design of a system of higher education, or accountability framework for universities, must build upon this complex reality.”¹

Fallis quotes Clark Kerr, Chancellor of the University of California, Berkeley during the 1964 Berkeley riots, who famously wrote in his book, *The Uses of the University*: “About eighty-five institutions in the Western world established by 1520 still exist in recognizable forms, with similar functions and unbroken histories, including the Catholic church, the parliaments of the Isle of Man, of Iceland, and of Great Britain, several Swiss cantons, and seventy universities. Kings that rule, feudal lords with vassals, and guilds with monopolies are all gone. These seventy universities, however, are still in the same locations with some of the same buildings, with professors and students doing much the same things, and with governance carried on in much the same ways.”²

2. Adoption of the Agenda

The agenda and documents were distributed on October 17, 2019. There was no discussion and, on a motion, duly moved, seconded and carried, it was resolved –

THAT the agenda be adopted.

3. Introduction of New Faculty Member

Chris Damaren, Director of the University of Toronto Institute for Aerospace Studies, introduced his new faculty member, Swetaprovo Chaudhuri.

4. Adoption of the Minutes of the Previous Meeting

No errors or omissions were noted in the minutes of the previous meeting, and on a regular motion duly moved, seconded and carried, it was resolved –

THAT the minutes of the meeting of April 11, 2019 be approved.

5. Memorial Tribute: John Van de Vegte

Markus Bussmann, Chair of the Department of Mechanical and Industrial Engineering, read the following memorial tribute in honour of Professor Emeritus John Van de Vegte. The tribute was written by Joyce van de Vegte (BASc EngSci 8T5, MASc ECE 8T8), daughter of Professor Emeritus Van de Vegte.

¹ Fallis, George. “The Mission of the University.” *Postsecondary Review: Higher Expectations for Higher Education*. Toronto: Government of Ontario, 2004, p. 2-3.

² Kerr, Clark. *The Uses of the University*. Cambridge: Harvard University Press, 1963.

Be it resolved –

THAT the Council of the Faculty of Applied Science & Engineering record with deep regret the death on August 22, 2019 of Professor Emeritus John Van de Vegte.

John Van de Vegte, a highly respected mechanical engineer and textbook author, passed away, after a short illness, at Trillium Hospital, Ontario, on August 22, 2019. His wife of 58 years, Maria Van de Vegte, was by his side, along with other members of his loving family. John was 88 years of age and fortunate to be active and healthy until shortly before his death. Family and friends were most impressed that John and Maria camped all the way from Toronto to Victoria and back in their Roadtrek camper as recently as the spring of 2019.

John was born in 1931 in Rotterdam harbour on a Rhine River barge owned by his father, and spent his youth in Hasselt and Delft. He remained in the Netherlands to complete his undergraduate and master's degrees at the Technical University Delft, before emigrating to Canada in 1954. John's first job in Canada was with farming equipment manufacturer Massey Ferguson. To do his work on the redesign of a combine harvester – for which he eventually obtained a patent – he followed the harvest from Mexico northward.

John returned to his studies to complete his doctorate at the University of Toronto in 1963. In 1964 he became a professor in the Department of Mechanical Engineering, where he remained for 30 years. During his tenure, John published and presented a great many papers on such topics as: nonparametric analysis and control, manipulator control design, multivariable feedback control systems, vibration control, systems with severe interaction, compensator design for decoupling, rotating systems, multiple input systems with assigned poles, optimization, and metal working. John contributed to the design of the CN Tower with a team that examined how to stabilize the sway of the tower in high winds, work that earned his family a free visit to the tower when it opened to the public in 1976. John spent sabbaticals with his wife and children in the Netherlands and England (Winfrith Atomic Energy Establishment) and later sabbaticals with Maria in Switzerland, Germany, and once again in the Netherlands.

In his teaching, John enjoyed an excellent rapport with his students and inspired many an undergraduate to further study of control systems. Building on his experience with undergraduates, John authored a respected, well-reviewed, and widely-cited text, *Feedback Control Systems*, which was published in three editions: 1986, 1990, and 1993 (as well as international editions). *Feedback Control Systems* continues to be a recommended text in MIT OpenCourseWare, and also at the University of Saskatchewan, Cairo University, Universidade do Porto, and the University of Peshawar; it received its most recent five-star Goodreads rating in 2017.

John is remembered by colleagues for his positive attitude and straightforward humour. One colleague recalls asking John for ten minutes at the beginning of a fourth year Controls lecture, to try to interest students to consider grad school. When he showed up, John introduced him by saying, "I've made two great decisions in life. The first was to marry Maria and the second was to

go to graduate school." John must have imparted that second lesson to his children, Joyce, John, David, and Michael, as the four of them earned eight degrees at the University of Toronto, including four at the graduate level.

During his many years in the Department of Mechanical Engineering, John's children became accustomed to seeing him writing with a fountain pen by the living room window, his "desk" a plywood ledge resting on the arms of his Chair. The Chair did not move after his retirement, the plywood ledge stowed behind the curtain, but by then John was doing Sudoku and Kakuro puzzles and reading French. Many happy hours were spent planting periwinkle on the hill at the back of his yard, where he could be found working, rusty implement in hand, wearing soccer shoes and a straw hat.

John is greatly missed by his wife Maria, his children, Joyce, John and Cathy, David (deceased) and Stacey, Michael and Sheetal, and his grandchildren, Zoë, Kailee and Wes, Joshua, Tess, Jordan, and Jessica.

Be it further resolved –

THAT this tribute to John Van de Vegte be inscribed in the minutes of this Council meeting, and that copies be sent to his family as an expression of the respect and gratitude of the members of this Council.

The Speaker assumed concurrence with these resolutions, and Council stood to observe one minute of silence in honour of Professor Emeritus John Van de Vegte.

6. Business Arising from the Meeting of April 11, 2019: Appointments to Faculty Council Standing Committees and the Academic Appeals Board, 2019-2020

The Speaker presented Report 3632, an update on the 2019-2020 appointments to Faculty Council's standing committees and Academic Appeals Board since first presented at the April 11, 2019 Council meeting.

It was recommended that an alumni appointment be added to the membership of the Admissions Committee. The manuals of all standing committee are being reviewed this year, and the Speaker will mention this to the relevant Chair.

Report 3632 was received for information.

7. Report of the Dean

Dean Chris Yip welcomed members to Faculty Council and provided the following report.

(a) Student Wellness and Mental Health

Our Faculty and the engineering community has dealt with some very difficult tragedies over the last year, most recently last month's death of a student in the Bahen Centre. While not involving an engineering student, this certainly affected our students, staff and faculty. It is

important to know what help is available and we work directly with Student Crisis to offer support to those in need. Health & Wellness staff will describe the variety of services available throughout the University at their presentation later today.

Barriers on the upper floors of the Bahen Centre have been installed to improve safety, and construction to erect temporary walls has begun in the Myhal Centre. The University has been working with architects since last spring to design similar structural changes throughout the campus.

The Faculty's Joint Task Force on Academic Advising & Mental Health was struck in April 2019 with a mission to review the reports of the August 2016 Dean's Task Force on Academic Advising and the January 2017 Decanal Task Force on Mental Health. The Joint Task Force met a number of times between April and August this year and will present its final report and recommendations at our December 13, 2019 Council meeting.

(b) Annual Report 2018-2019

Our 11th Annual Report of Performance Indicators was published on the Faculty website in August 2019 and print copies are now available from the Dean's Office. The report demonstrates our strong track record of exceeding expectations and underlines the leading role we will play in building a more innovative future.

Notable trends and accomplishments from the past year include the diversity of our community. For the last three years, our incoming undergraduate class has been 40 per cent female, and across all years is now more than 35 per cent. One in three of our graduate students come from outside of Canada, and the number of female professors has almost tripled from 21 (less than 10 per cent) in 2005 to 57 (more than 21 per cent) today. This year, we welcomed 1,230 first year students, representing citizens from 54 countries. Twenty-seven per cent of these students came from studying outside of Canada, compared with 21 per cent last year. Over 42 per cent are female students and over 31 per cent are international. We will build on this success to strengthen our connections to other historically underrepresented groups, including Black and Indigenous students.

We are strengthening and expanding our commitment to experiential learning and global fluency. This year, our flagship Professional Experience Year Co-op Program celebrated its 40th anniversary and the largest-ever cohort of 853 engineering students, one in ten of whom worked outside of Canada. Over the last decade, we have more than doubled graduate student enrolment, reaching nearly 2,500 and increasing the impact of our world-leading research. In 2018-2019, 237 graduating students (22 per cent) had at least one international experience by the time they graduated, up from 197 students in 2017-2018. We will continue to partner with peer institutions worldwide on exchanges to create even more space for these experiences in our programs.

We are expanding the impact of our research through vibrant partnerships. We have increased the proportion of our funding that comes from direct partnerships with industry to \$12.7 million for 2017-2018 (the most recent year for which full results are available). This is a 41.1

per cent increase over the previous year, and more than double the value from five years ago. We partner with more than 400 companies and organizations through industrial research chairs, research consortia, sponsored research, PEY Co-op internships and capstone projects, and these continue to grow. We have spun off more than 70 companies since 2006. The Fujitsu Co-Creation Research Laboratory, housed on the top floor of the Myhal Centre, is one example of our innovative collaborations. In November, our Vice-Dean Research will host the 2019 Partner's Reception where industry partners will connect with leading researchers from across the Faculty, and celebrate successful partnerships across our six Innovation Clusters.

(c) Facilities and Infrastructure

We have had some exciting infrastructure developments, such as an initiative led by Dean Emerita Cristina Amon and Professor Emeritus Ron Venter to revitalize the plaza in front of the west side of the Galbraith Building. The opening ceremony was on October 15, 2019. The public art known as "Becca's H", celebrating 100 years of engineering at the University of Toronto, was refurbished and returned to the plaza on a new concrete plinth.

Civil and Mineral Practicals (CAMP), formerly Survey Camp, will celebrate its 100th anniversary in 2020. As part of its centennial celebrations, alumni and students gathered at the Gull Lake facility on September 7, 2019 to unveil the planned construction and models of a new bunkhouse and common space, and to celebrate the rich history of the facility. We are grateful to Brenda McCabe for leading this initiative and welcome thoughts on how we can extend the use of CAMP to students across our Faculty.

Functioning of the Myhal Centre's two elevators has noticeably improved following the many issues that persisted over the last year. Unfortunately, there has been ongoing vandalism of murals, signage and video display units in the Centre and, at the request of the Faculty and coordinated with Campus Police, a project is being undertaken by Facilities & Services and Property Management to install CCTV cameras in many of the public areas of the building with the hope of deterring such occurrences.

(d) Fall Convocation

The fall convocation ceremony is on November 7, 2019 with Nathalie Des Rosiers, academic, lawyer, former politician and sixth Principal of Massey College as speaker. This is a very important milestone for our students and all whose schedules permit are encouraged to attend. The Engineering Alumni Network will once again host a breakfast in honour of our graduates in the Faculty Club.

(e) Coffee with Chris

Students, faculty and staff are invited to the next "Coffee with Chris" on November 4, 2019 from 12:00-1:00 pm in GB202. This session will feature four roundtable discussions: Ask Me Anything; Equity, Diversity and Inclusion; Mental Health; and Policy Changes. Ask Me Anything submissions can be made to the Dean's Office in advance. This is a new approach to the town halls that have been held in the past and there will be four to five events over the year. The Dean is also happy to meet with people individually.

8. Revisions to Faculty Council Governance Documents

The Speaker presented Report 3629 Revised, amendments to the Faculty Council constitution, and Report 3636 Revised, amendments to the Faculty Council bylaws.

All Faculties were required by Governing Council to amend their constitutions and bylaws to reflect the new teaching-stream faculty appointment categories, and their new delegated authority with respect to for-credit certificates. A working group was struck in our Faculty in July 2018 to draft these amendments, and at the same time, to modernize and align our constitution and bylaws with best practices at the University. The working group met throughout the fall of 2018 to update these documents, and consulted extensively with teaching staff, graduate and undergraduate students, alumni and staff Council representatives from November 2018 through January 2019.

Some of the proposed amendments to the Faculty's constitution include requiring standing committee manuals to be reviewed on a five-year cycle; increasing the length of the Speaker's term from one year to two; establishing Council's term as July 1 through June 30; adding language about Council's specific powers and duties based on a template provided by Governing Council; moving some procedural information to the bylaws; and removing statements that do not pertain to governance.

Some of the proposed amendments to the Faculty's bylaws include expanding the responsibilities of the Speaker to include conducting an orientation session for new Council members prior to the first meeting of each academic year, and meeting with constituent groups as necessary on an ongoing basis; designating the Council Secretary a non-voting ex officio member of Council; listing each standing committee by name; and removing the limit of 20 visitors at Council meetings and the requirement for them to sit in a designated area.

The Speaker thanked the Secretary of Council for her efforts in supporting the working group.

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

THAT the proposed amendments to the Faculty's constitution, as described in Report 3629 Revised, be approved and recommended to the Academic Board of Governing Council for approval.

There were no questions and the motion was carried unanimously, votes exceeding the two-thirds majority of members present and voting as required for special motions.

The following special motion was then moved and seconded –

THAT the proposed amendments to the Faculty's bylaws, as described in Report 3636 Revised, be approved and reported to the Academic Board of Governing Council for information.

There were no questions and the motion was carried unanimously, votes exceeding the two-thirds majority of members present and voting as required for special motions.

9. Reports and Recommendations of Standing Committees

The following reports were approved by the Executive Committee of Faculty Council at its October 8, 2019 meeting and are presented for Council's information.

(a) Engineering Graduate Education Committee: Update

Julie Audet, Vice-Dean, Graduate Studies and Chair of the Engineering Graduate Education Committee, presented Report 3631. Minor curriculum changes include new AER, APS, BME, CHE, CIV and MIE courses; minor modifications to APS1034, APS1051, BME1452, PSL1071; and minor modifications to courses in several MEng, MASc and PhD emphases.

There were no questions and Report 3631 was received for information.

(b) Examinations Committee: Goals for 2019-2020

Daniel Posen, Chair of the Examinations Committee, presented Report 3630. The committee's goals for the academic year include developing grading guidelines; introducing a proposal to begin using Chief Presiding Officers as exam supervisors; finalizing procedures for the limited circumstances when it is necessary to restrict exams for certain courses; developing Composition of Final Marks (COFM) guidelines for project-based courses; reviewing the policy regarding Extra (EXT) courses; monitoring the results of a pilot program that allows students to submit a self-declaration of illness petition once per term without medical documentation; and updating the committee's manual.

There were no questions and Report 3630 was received for information.

10. Report of the Academic Appeals Board, 2018-2019

Don MacMillan, Faculty Registrar and member of the Academic Appeals Board, presented Report 3635.

The role of the Academic Appeals Board is to hear appeals of undergraduate students against decisions of the standing committees of Council relating to petitions for exemptions from the application of academic regulations or standards, and to make rulings on such appeals. In the 2018-2019 academic year, the Board considered 20 appeals on decisions made by the Examinations Committee. Of these, 11 were considerations on final examinations and nine were for special consideration regarding Faculty policies. The Board found insufficient grounds to intervene in the remaining four appeals and rendered decisions of "no action" in these instances. No appeals of Board decisions were submitted to the University's Governing Council Academic Appeal Committee during this time.

Mr. MacMillan updated Council on recent initiatives implemented by the Board, continuing and emerging trends within appeals, and the Board's plans for 2019-2020.

Members discussed challenges facing the Board including its difficulties in reaching quorum, the lack of gender diversity among its faculty members, and the increasing number of students seeking advice from the secretary about procedural matters for complex cases, which increases the time required to prepare the appeals for the Committee.

Report 3635 was received for information.

11. Discussion Item: Health and Wellness Overview

Sandy Chang and Penny Miller of the University's Health & Wellness Centre provided an overview of services available to students. These include on-location counselling and mental health training; immediate, 24/7 and after-hours supports available on campus and across the broader community; and the SafeTALK and Identify, Assist, Refer (IAR) workshops that train students, faculty and staff to recognize and refer students in distress. SafeTALK is also available through the University's Centre for Learning, Leadership & Culture (formerly ODLC) and the Faculty's Engagement & Development Network (EDN). EDN also facilitates ASSIST, a two-day workshop for those interested in advanced training.

Students can schedule appointments with Health & Wellness by phone or online, or drop in where they will be seen on a first-come, first-served basis. They will undergo an intake assessment where staff will gather information on their history, risk factors and symptoms. If it is determined that there is an imminent risk that the student may harm themselves or another, a decision may be made to involve the critical care team. Otherwise, the student may be scheduled to meet with a clinician at Health & Wellness, or referred to other resources internal or external to the University.

Members discussed wait times for the initial appointment or to see a clinician, which some suggested were as long as four to eight months, however, it was stated that the wait time is typically shorter and that if the need for psychiatry is urgent, the student can usually be seen within two weeks. Students were urged to advise Health & Wellness if, after making an appointment, their situation worsens.

The University is taking steps to shorten these wait times. Health & Wellness has expanded over recent years to provide faster support and has introduced same-day single-session counselling. It has arranged for additional counselling during weekends immediately after recent tragedies in the Bahen Centre, and has fast-tracked appointments for students directly affected by these incidents. Health & Wellness is using social media to communicate with students about mental health issues and services, and is considering introducing peer support, where former students can share their experiences to de-stigmatize mental illness. The University has also established task forces and working groups to proactively improve mental health services.

Supports offered in our Faculty include an embedded Health & Wellness counsellor who can usually see students within one week for short-term care (e.g., two to three meetings). Those interested should contact an Academic Advisor to schedule an appointment. We also provide information on mental health, personal safety, sexual violence and sexual harassment through a

“Feeling Distressed?” link at the top of each of our undergraduate web pages. Recommendations from our Faculty’s Final Report of the Joint Task Force on Academic Advising & Mental Health will be presented at our December 13, 2019 Council meeting.

A student described her experience at Health & Wellness as quite positive. She saw a psychiatrist about a month after her assessment (at her request), who then provided her with next steps and referrals to nearby external resources. She stressed that students must articulate their needs during their assessment. The Speaker thanked her for sharing her story.

12. Other Business

There was no other business.

13. Date of Next Meeting

The next Faculty Council meeting is on December 13, 2019.

14. Adjournment

The meeting was adjourned at 2:00 p.m.

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