



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Meeting of Faculty Council

October 13, 2022 | 12:10-2:00 pm

Hybrid (GB202 & Zoom)

A G E N D A

- | | | |
|--|--------------------|-------|
| 1. Speaker's Welcome | J Nogami | 12:10 |
| 2. Approval of Agenda
To approve as a regular motion | J Nogami | 12:14 |
| 3. Introduction of New Faculty | Chairs & Directors | 12:15 |
| 4. Adoption of Minutes of Previous Meeting
To approve as a regular motion | J Nogami | 12:25 |
| 5. Memorial Tributes
Professors Emeriti Sergi Dmitrevsky (ECE) and Hans Kunov (ECE) | D Kundur | 12:26 |
| 6. Report of the Dean
Presentation | C Yip | 12:35 |
| 7. Appointments to the Academic Appeals Board (Undergraduate) and Standing Committees of Council, 2022-2023 (Report 3723)
To receive for information | J Nogami | 12:45 |
| 8. Annual Report of the Academic Appeals Board (Undergraduate), 2021-2022 (Report 3724)
To receive for information | D Kirk | 12:50 |
| 9. Reports and Recommendations of Standing Committees
To receive for information | | |
| a. Engineering Graduate Education Committee Update (Report 3722) | M Hatzopoulou | 12:55 |
| 10. Service Presentation
Javad Mostaghimi, Past Faculty Council Speaker | C Yip | 1:00 |
| 11. Other Business | J Nogami | |
| 12. Date of Next Meeting | J Nogami | |
| 13. Adjournment | J Nogami | |



**Council of the Faculty of Applied Science & Engineering
Minutes of the Meeting of April 27, 2022**

PRESENT: Javad Mostaghimi (Speaker), Chris Yip (Dean), Ravi Adve, Dionne Aleman, Grant Allen, Cristina Amon, Susan Andrews, Julie Audet, Tim Barfoot, Jason Bazylak, Timothy Bender, Evan Bentz, Laura Berneaga, Archit Bhargava, Raymond Bhushan, Shlomo Bibas, Chris Bouwmeester, Eric Bryce, Markus Bussmann, Warren Chan, Heba Chehade, Alan Chong, Will Cluett, Shai Cohen, Sinisa Colic, Fiona Coll, Michael Collins, Tom Coyle, Daire Crawford, Phil Cuvin, James Davis, Ali Dolatabadi, Stark Draper, Mihai Duduta, Natalie Enright Jerger, Saima Fancy, Jennifer Farmer, Ramin Farnood, Celeste Francis Esteves, Diane Giang, Aidan Grenville, Angela Henshilwood, Glenn Hibbard, Muktar Homam, Charles Jia, Omar Khan, Dawn Kilkenny, Donald Kirk, Deepa Kundur, Jonguk (Justin) Lee, Keryn Lian, Heather MacLean, Don MacMillan, Elham Marzi, Paul Milgram, Emily Moore, Shivani Nathoo, Jun Nogami, Jeffrey Packer, Khoman Phang, Milos Popovic, Scott Ramsay, Mark Rittinger, Jon Rocheleau, Matthew Roorda, Sanjana Seerala, Peter Serles, Shamim Sheikh, Lily Shu, Brent Sleep, Marisa Sterling, Micah Stickel, Ken Tallman, Zeb Tate, Hamid Timorabadi, Marianne Touchie, Tony Vanvari, Chirag Variawa, Elizabeth Whitmell, Lydia Wilkinson, Bernard Wong, Ning Yan, Yu Zou

GUESTS: Irina Belaya, Helen Bright, Chris Brown, Sharon Brown, Melanie Carrington, Leanne Dawkins, Sonia De Buglio, Jennifer Fabro, Carolyn Farrell, Roger Francis, Eric Fysh, Leslie Grife, Christina Heidorn, Cheryl Lee, Crystal Liu, Jess MacInnis, Brenda McCabe, Sindhu Menon, Marit Mitchell, Don Newton, Maria Paz Castillo, Dan Pettigrew, Zeeshan Rayees, Cindy Rottmann, Hallie Siegel, Frank Scornaienchi, Taufik Valiante, Allison Van Beek, Geoff Wichert, Nefeteria Wickham

SECRETARIAT: Nadia Gulezko (Event Support), Anna Limanni (Technical Support), Alex Schroen (Moderator), Caroline Ziegler (Secretary)

1. Speaker's Welcome

Speaker Javad Mostaghimi called the fourth and final Faculty Council meeting of 2021-2022 to order at 12:10 pm. He welcomed members and guests, acknowledged the University's use of traditional land and reviewed protocols for the hybrid meeting, which was being held simultaneously in GB202 and via Zoom. There were no questions.

2. Approval of Agenda

The agenda and reports were distributed on April 20, 2022. Proposals to create a Collaborative Specialization in Neuromodulation (Report 3616 Revised) and a Collaborative Specialization in Robotics (Report 3717 Revised) were distributed on April 22, 2022.

Since these proposals were distributed on such short notice, the following motion was duly moved, seconded and carried –

THAT Council consider Reports 3716 Revised and 3717 Revised at its April 27, 2022 meeting.

There was no discussion regarding the following motion, which was duly moved, seconded and carried –

THAT the agenda be approved.

3. Adoption of the Minutes of Previous Meetings

There was no discussion regarding the following motions, which were duly moved, seconded and carried –

THAT the minutes of the December 16, 2021 Faculty Council meeting be approved.

THAT the minutes of the February 18, 2022 Faculty Council meeting be approved.

4. Memorial Tribute to Professor Emeritus Earl Burke

Deepa Kundur, Chair of The Edward S. Rogers Sr. Department of Electrical & Computer Engineering, read the following memorial tribute in honour of Professor Emeritus Earl Burke, which was prepared by Professor Safwat Zaky in consultation with Professor Reza Iravani.

Be it resolved –

THAT the Council of the Faculty of Applied Science & Engineering record with deep regret the death on March 28, 2022 of Earl Burke.

Professor Emeritus Earl Burke, a respected member of ECE's Power Group, passed away on March 28, 2022 at the age of 96. Earl earned a degree in electrical engineering from Nova Scotia Technical College in Halifax, after which he joined General Electric in Toronto. In 1951, he joined what was then the Department of Electrical Engineering at the University of Toronto as a Lecturer. After completing his MASc degree, he was appointed to Assistant Professor, eventually achieving the rank of Full Professor. He retired in 1986 and was appointed Professor Emeritus.

Professor Burke served as Chair of the Faculty of Applied Science & Engineering's First Year Studies for a number of years and was a well-liked lecturer. His expertise in research and teaching was in the area of electromagnetics as applied to electrical power systems. In 1979, while on a one-year sabbatical leave, supported by a National Research Council Senior Industrial Fellowship grant, he joined Trench, a company for which he had been providing

consulting services for about five years. There, he led the development of a new product line of power conditioning coils for the electrical power utilities. He continued to provide consulting services to Trench for 25 years.

Earl loved to build things, which he did much of during his retirement, but his main hobby was gardening. He convinced a group of neighbours with adjacent properties to let him plant their backyards, giving him access to a long stretch of land. With the help of a friend, he proceeded to create a masterpiece, which he maintained for many years. He also travelled widely and served as a volunteer in the Palliative Care Unit at St. Michael's Hospital for 25 years.

He is predeceased by his parents and first wife, Anne Adele Stortz. Earl is survived by his wife, Geraldine O'Meara, as well as his sons Patrick, David and Stephen and their families.

Be it further resolved –

THAT this tribute to Earl Burke 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 observed one minute of silence in honour of Professor Emeritus Earl Burke.

5. Report of the Dean

Dean Chris Yip welcomed all to the Council meeting and provided the following remarks.

(a) Back to Campus

Throughout the pandemic, our Engineering community has worked diligently to maintain a safe and supportive environment. Thanks to these efforts, we successfully returned to on-site learning and work in the Winter academic term.

The last several weeks have been the busiest of the year, and we are thrilled to have our final Council meeting as hybrid.

Although U of T was preparing to pause several COVID-related requirements on May 1, 2022 (health screening, indoor masking, vaccination), the Provost's email of April 26 stated that in light of the recent provincial trends, the university will extend its requirement to wear masks in certain settings until June 30, 2022.

There is a complex mix of stressful factors at play right now. The end of the term is a demanding time, and this year we're also still navigating the pandemic and grappling with global conflict, uncertainty and instability. Supports and resources are available 24/7 to all students, staff and faculty.

(b) Convocation

The Office of Convocation will welcome our graduating students in-person at the Spring Convocation. Engineering will have three convocation ceremonies on June 16: our morning ceremony will include ECE and MSE graduates; our afternoon ceremony will be for ChemE, CivMin, and EngSci students; and the evening ceremony will be for MIE, UTIAS and BME graduates. There will be a convocation ceremony later in the year for anyone who is unable to attend the June ceremonies.

(c) Engineering Excellence Awards

Members of our Engineering faculty and staff have been honoured for their outstanding contributions to the Faculty with teaching, research and administrative staff awards. These awards recognize exceptional faculty and staff members for their leadership, citizenship, innovation and contributions to the Faculty's teaching, service and research missions.

Administrative staff awards were given to Jen Hsu, Manager of External Relations, ChemE (Barbara McCann Quality of Student Experience Award for Frontline Staff); Aliz Karami, Celeste Francis Esteves and Oscar Del Rio, MIE (Innovation Award); Dan Grozea, Engineering Technologist, MSE (Agnes Kaneko Citizenship Award); Jessica MacInnes, External Relations Manager, ECE (Harpreet Dhariwal Emerging Leader Award); and Brian Coates, Chief Financial Officer (Catherine Gagne Sustained Excellence in Leadership Award). Brian will be retiring on April 30, 2022.

Teaching award winners include Crystal Liu, MSE (Teaching Assistant Award); Marianne Touchie, CivMin, MIE (Early Career Teaching Award); Stephen Brown, ECE (Faculty Teaching Award); and Grant Allen, ChemE (Sustained Excellence in Teaching Award).

Research awards were given to Andreas Moshovos, ECE (Safwat Zaky Research Leader Award); Scott Sanner, MIE (McCharles Prize for Distinction in Early Career Research); and Marianne Touchie, CivMin, MIE (McCharles Prize for Distinction in Early Career Research).

More information about the recipients is available on the Faculty website.

(d) Engineering Society Leadership Transition

The 2022-2023 Engineering Society leadership team was announced and thanked for committing their time and skills to the benefit of our Engineering students. They are: Aiden Grenville, President; Irteza Ahmed, Vice-President, Finance; Inho Kim, Vice-President, Communications; David Song, Vice-President, Academic; and Noah Guerin, Vice-President, Student Life.

The 2021-2022 leadership team of Jacqueline Fleisig, President; Valerie Ajayi, Vice-President, Finance; Brohath Amrithraj, Vice-President, Communications; Archit Bhargava, Vice-President, Academic; and Karman Lochab, Vice-President, Student Life, was also acknowledged for the tremendous job they have done this last year under unprecedented conditions and unpredictability.

The Speaker thanked the Dean for his report. During discussions, the Dean commented on how the Faculty has successfully navigated the pandemic. We were the first Faculty to return to in-person learning, starting with CivMin's Gull Lake Survey Camp, and our classes, PEY and exams have been going well.

6. Amending the Constitution and Bylaws of the Faculty of Applied Science & Engineering

Markus Bussmann, Chair of the Department of Mechanical & Industrial Engineering, acted as Council Speaker while Javad Mostaghimi presented Report 3713. This report was endorsed by the Executive Committee of Council at its February 1, 2022 meeting and the two motions therein are recommended for Council's approval as special motions, each requiring a two-thirds majority of members present and voting to carry.

Report 3713 describes proposed changes to the Faculty's Constitution and Bylaws to allow an additional ex officio seat on Council for the chair of the Graduate Engineering Council of Students. This will align with the structure of undergraduate student representation on Council, where the Engineering Society President and Vice-President, Academic are ex officio members.

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

THAT the Constitution and Bylaws of the Faculty of Applied Science & Engineering be revised to add the chair of the Graduate Engineering Council of Students as an ex officio member of Faculty Council, as described in Report 3713, effective in the 2022-2023 academic year.

There was no discussion and the motion was carried.

Professor Mostaghimi then discussed the second motion in Report 3713, a minor revision to the Constitution to correctly state the number of undergraduate student members of Council.

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

THAT the Constitution of the Faculty of Applied Science & Engineering be revised to change the number of undergraduate student representatives on Council from 38 to 40.

There was no discussion and the motion was carried.

Professor Mostaghimi thanked Professor Bussmann and reassumed role of Council Speaker.

The following items were endorsed by the Executive Committee of Council at its April 6, 2022 meeting and are recommended for Council's approval as regular motions, requiring a simple majority of members present and voting to carry.

7. Teaching Effectiveness Guidelines

Ken Tallman, Chair of the Teaching Methods & Resources Committee, presented Report 3705 Revised, the *Faculty of Applied Science & Engineering Guidelines for the Assessment of Effectiveness of Teaching in Tenure, Continuing Status and Promotion Decisions*.

The guidelines are important to faculty and overdue. They are intended for department chairs, institute and division directors, and review committees who assess teaching effectiveness in tenure, continuing status, and promotion reviews, and for all Engineering instructors seeking advice on effective teaching. The guidelines will augment the *FASE Divisional Guidelines for the Evaluation of Teaching Effectiveness for Promotion to Professor, Teaching Stream* (2018) as a FASE policy statement pertaining to teaching effectiveness. They will also replace the single-page *Evaluation of Teaching Effectiveness* (undated) our current policy for the assessment of teaching effectiveness in tenure, continuing status and tenure stream promotion decisions.

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

THAT the document *Faculty of Applied Science and Engineering Guidelines for the Assessment of Effectiveness of Teaching in Tenure, Continuing Status and Promotion Decisions* be approved as described in Report 3705 Revised, effective September 1, 2022.

A Council member expressed disappointment that there is no connection in the guidelines between student learning and defining excellence in teaching, and that we are not seeking student input. Another member urged caution on conflating an instructor's popularity with their teaching ability and stated that teaching should be evaluated on criteria over which the instructor has control. Professor Tallman drew Council's attention to two criteria used to assess effectiveness in teaching that also impact student experience: strong communication skills, and success in stimulating and challenging students and promoting their intellectual and scholarly development.

The motion was carried.

8. Creation of Collaborative Specialization in Neuromodulation

Julie Audet, Vice-Dean, Graduate Studies and Chair of the Engineering Graduate Education Committee, presented Report 3716 Revised, a proposal to establish a Collaborative Specialization in Neuromodulation. The collaborative specialization will be a multidisciplinary and collaborative endeavor involving master's and doctoral students from participating degree programs in the Faculty of Applied Science & Engineering and the Institute of Medical Science in the Temerty Faculty of Medicine. Its primary goal is to introduce students to various neuromodulation modalities, provide them with the knowledge to be prepared for research or industrial endeavours in neuromodulation, and provide hands-on experience performing neuromodulation research.

Professor Audet also reminded Council that collaborative specializations provide students enrolled in participating degree programs an additional multidisciplinary experience as they complete their home degree program. They normally require students to complete a core academic activity (such as a core course), participate in activities and seminars offered by the collaborative specialization, and incorporate the disciplinary focus of the collaborative specialization into any final research requirements of the home degree program. Upon successful completion of collaborative specialization requirements, students receive a certificate of completion and a notation on their transcripts.

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

THAT the creation of a Collaborative Specialization in Neuromodulation, as described in Report 3716 Revised, be approved.

There was no discussion and the motion was carried.

9. Creation of Collaborative Specialization in Robotics

Professor Audet presented Report 3717 Revised, a proposal to create a Collaborative Specialization in Robotics which will build a structured community of practice that combines engineering and computer science approaches to robotics and its applications, including healthcare, mobility, and advanced manufacturing. This collaborative specialization will be open initially to master's and doctoral students from participating degree programs in the Faculty of Applied Science & Engineering, the Department of Computer Science in the Faculty of Arts & Science (including students affiliated with the University of Toronto Mississauga), and the Temerty Faculty of Medicine's Rehabilitation Sciences Institute. The collaborative specialization aims to improve the robotics graduate student experience at UofT by building a community of practice that combines engineering, computer science, and applied approaches to robotics education.

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

THAT the creation of a Collaborative Specialization in Robotics, as described in Report 3717 Revised, be approved.

During discussions, Professor Audet clarified the difference between a collaborative specialization (an additional multidisciplinary experience for graduate students as they complete their home degree program) and an Extra-Departmental Unit (a flexible and multidisciplinary entity organized around emerging research and teaching areas that span disciplines), which can support collaborative specializations.

The motion was carried.

10. Closure of Program Fields of Study in Mechanical & Industrial Engineering

Professor Audet presented Report 3718, a proposal to close the graduate fields of study in Mechanical & Industrial Engineering. Fields of study were once required by the Ontario Council of Graduate Studies to advertise areas of strength within a department; however, MIE never formally grouped degree programs students into these specific fields, and program requirements for the MEng, MASc and PhD remained the same regardless of a student's area of specialization.

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

THAT the closure of all program fields of study in the Department of Mechanical & Industrial Engineering, as described in Report 3718, be approved.

During discussions, a Council member asked if all departments should close their fields of study as a similar “house-keeping” measure. Professor Audet replied that some departments may be using their fields if they align with current graduate emphases; however, if they would like to change or create new areas of study, like MIE, they should close their outdated fields.

The motion was carried.

11. Adding Flex-Time Option to PhD Program in Civil & Mineral Engineering

Professor Audet presented Report 3719 Revised, a proposal to add a Flexible-Time option to the PhD program in Civil & Mineral Engineering, allowing practicing professionals in a relevant field of study who require a modified time period and/or content delivery option to complete the requirements of the PhD program. Students in the Flexible-Time option will be registered full-time during the first four years and part-time during subsequent years in the program.

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

THAT the addition of a flexible-time option to Civil & Mineral Engineering's existing PhD program, as described in Report 3719 Revised, be approved.

There was no discussion and the motion was carried.

12. Reports for Information

(a) Engineering Graduate Education Committee: Update

Report 3720 Revised was approved by the Executive Committee of Council at its April 6, 2022 meeting and is for Council's information.

Julie Audet presented the report, listing new AER, APS, BME, CHE, CIV, ECE and MIE courses approved; minor modification to existing courses in CHE, CIV, and TEP; and a minor modification to codify a course in the CHE PhD. Also approved were two minor modifications to the

Collaborative Specialization in Psychology & Engineering: to add the MSc and PhD programs in the Temerty Faculty of Medicine's Institute of Medical Science; and to rename the collaborative specialization as the "Collaborative Specialization in Psychology, Psychiatry & Engineering."

There was no discussion and the report was received for information.

(b) Report of the Engineering Alumni Network Awards Committee

The Engineering Alumni Network Awards Committee provides updates directly to Faculty Council for information.

Brenda McCabe, Professor Emerita and Chair of the Engineering Alumni Network Awards Committee, presented Report 3721, which lists candidates for the induction into the 2022 Engineering Alumni Hall of Distinction, and recipients of the Engineering Alumni Medal, 2T5 Mid-Career Award, 7T6 Early Career Award, Malcolm McGrath Alumni Achievement Award, L.E. (Ted) Jones Award of Distinction, and Honourary Member of the EAN Award.

Professor McCabe stated that, starting in 2023, the Report of the Engineering Alumni Network Awards Committee will be presented to Faculty Council at Council's December meeting to better align with the timing of the EAN awards ceremony which is typically held in early November.

There was no discussion and the report was received for information.

13. Other Business

Speaker Javad Mostaghimi acknowledged and thanked standing committee and board chairs who will complete their 2021-2022 terms in June or October 2022.

There were no other items of business.

14. Service Presentation and Awards

(a) Academic Administrators

Dean Yip acknowledged and thanked Will Cluett, who will complete his term as Director of the Division of Engineering Science on June 30, 2022, and Ramin Farnood, who completed his term as Vice-Dean, Research on December 31, 2021, and presented them each with a token of the Faculty's appreciation.

(b) Teaching Assistant Award Recipient

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 Yip acknowledged the 2022 award recipient, Crystal Liu, an MASc candidate in Materials Science & Engineering, thanked her for her outstanding contributions to engineering education in the Faculty, and presented her with a token of the Faculty's appreciation.

15. Date of Next Meeting

The schedule of governance meetings for 2022-2023 is being developed and will be shared with Council when available.

16. Adjournment

The meeting was adjourned at 1:40 pm.

/cz



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Memorial Tribute to

SERGEI DMITREVSKY

Professor Emeritus

The Edward S. Rogers Sr. Department of Electrical & Computer Engineering

October 13, 2022

Be it resolved –

THAT the Council of the Faculty of Applied Science & Engineering record with deep regret the death on July 31, 2022 of Professor Sergei Dmitrevsky.

Professor Dmitrevsky arrived in Canada from Czechoslovakia in the early 1950s after two years at Prague Technical University. He completed his undergraduate education at the Faculty of Applied Science & Engineering at the University of Toronto in 1955 and spent two years working at Philips Electronics Industries Ltd. as a microwave engineer. After returning to receive his Masters at U of T Engineering, he obtained his PhD in quantum physics at Harvard University under the supervision of Professor Nicolaas Bloembergen, who later received the Nobel Prize for Physics in 1981.

Professor Dmitrevsky returned to U of T and joined the Edward S. Rogers Sr. Department of Electrical & Computer Engineering (then known as the Electrical Engineering Department) where he taught courses in electronics, electricity and magnetism, and quantum physics and helped to build the reputation of the electromagnetics and photonics groups here as world-class. He had an unbelievable depth of understanding of electromagnetics and quantum mechanics. He rarely taught from notes; rather he derived everything from first principles.

His approach to teaching was unique and memorable, and often won him departmental teaching awards. When interviewed for an alumni magazine, Dmitrevsky described his teaching style: “My first principle: I teach the particular scientific discipline. I do not [just] prepare students for examinations.” While he may not have intended to prepare students for examinations, he certainly provided his students with clearly explained complex concepts and theories with an unforgettable delivery.

His former student, TA and later colleague, Professor Micah Stickel remembers his impact on students: “Sergei was beloved by his students. He expected students to be on time (often late students would find a locked door), and if you fell asleep or stopped paying attention you might find yourself on the end of a well thrown piece of chalk. Yet, students admired and loved him as a person and a professor. He was always on the dance floor with students at the ECE Dinner Dances,

and this deeply endeared him to generations of our students. I don't know how many teaching awards he won, but it seemed like it happened every term!"

According to former student and current professor at the University of Alberta, Professor Ashwin Iyer: "Students were treated to a surreal, inspiring journey through electromagnetic theory, frequently annotated by witty, sometimes anachronistic, often wildly funny, and always enthralling anecdotes that served as mental anchor points for the challenging lecture material."

Professor Dmitrevsky had very high expectations for his students. He wanted them to truly understand the concepts and was always available to help; for example, he ran all of his own tutorials. As a student in his fields and waves course in the late 90s Professor Iyer recalls "Professor Dmitrevsky established a review session the day before the final exam, during which any question could be asked, and all problems would be methodically re-explained and fully solved. The full-day session proceeded well into the evening, until there were no further questions, culminating in an ovation of applause like I'd never before, and never since, seen."

Beyond academia, Professor Dmitrevsky was an accomplished pilot, and well into his later years he would still fly up north in the summer to camp and fish and as someone else recently shared he said: "My camp site was whatever lake I was able to land on."

His passion for teaching kept him at the front of a classroom — with his bag of chalk in hand — until his nineties, teaching quantum mechanics to students born well after he had retired. Professor Dmitrevsky would have turned 100 at the end of the year.

Be it further resolved –

THAT this tribute to Sergei Dmitrevsky 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.

Prepared by Professors George Eleftheriades, Khoman Phang, Sean Hum and Micah Stickel



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Memorial Tribute to

HANS KUNOV

Professor Emeritus

The Edward S. Rogers Sr. Department of Electrical & Computer Engineering

October 13, 2022

Be it resolved –

THAT the Council of the Faculty of Applied Science & Engineering record with deep regret the death on June 4, 2022 of Professor Hans Kunov.

Hans Kunov was born in Copenhagen in 1938 and grew up in a town close by. His father passed away when he was only four years old and Hans was raised in the company of his mother and sister. The death of his father had a devastating effect on the family and likely shaped his outlook as a professor and as a mentor.

Hans grew up under several dominating influences at that time. There was of course the legacy left by Niels Bohr and atomic physics. This was however not to be Hans' calling. Instead, the influence of another famous Danish scientist by the name of Oersted (the discover of electromagnetic induction) would have a greater influence as it was Oersted who created the Technical University of Denmark where Hans did his degree in electrical engineering. The second major influence was of course Bruel and Kjaer which dictated the scientific norm of Denmark and gave it its prominence in the area of acoustics. It was this influence that Hans decided to pursue his master's thesis on measuring distortions in hearing aids.

Hans' association with acoustics soon ended when he decided to pursue something different for his PhD. He was greatly influenced by the work of Hodgkin and Huxley and instead decided to do modelling work in electroneurophysiology. Soon after his PhD, as with many Danish engineers, Hans wanted to go abroad. He received two job offers, one from UCLA and the other from Toronto but it was the Vietnam War that ultimately swayed his decision to come to Toronto.

After arriving in Toronto, Hans began what was to be his lifelong — and as it turns out — only job as a faculty member in biomedical and electrical engineering. He was hired by Norman F. Moody who was the founder and founding director of the Institute of Biomedical Engineering. At that time, Hans decided yet again to work on a different field, this time in ultrasound imaging or acoustic holography. In parallel, he continued his work in electroneurophysiology collaborating with people from the physiology department.

In the 70's, Hans met a Danish expatriate by the name of Poul Madsen living in the Toronto area. Poul was an engineer working on biomedical instrumentation in the general area of hearing diagnosis. Hans' association with Poul began with some contract work, became a lasting friendship and finally turned Hans back into the area that he first started with — that of the acoustics of hearing and speech. With the help of Poul Madsen, Hans established a laboratory for hearing at the Institute of Biomedical Engineering. He later went on to study otoacoustic emissions which is useful in detecting problems in hearing in young infants and newborns, and started the company Vivosonic based on the same technology.

Hans was always interested in mentoring and teaching young people. Outside of the University he was very active in the Big Brothers program. Within the University, he made several significant contributions towards teaching and pedagogy. First, he conducted studies on whether audiovisual enhancements during lectures would aid in student engagement and performance. In experiments conducted in classes he taught, to his surprise he was not able to demonstrate a significant change in test performance. Second, in the 90s Hans created a fourth year interdisciplinary ECE course on acoustics, the only course of its kind at U of T and is now the foundational course of the Engineering Music Minor at the Faculty of Applied Science and Engineering. Third, Hans was particularly enthusiastic in teaching design to undergraduate students and was actively engaged in the teaching of APS111/112 (Engineering Strategies & Practice I/II). Fourth, for over 15 years, Hans Kunov set the standard as both a supervisor and an administrator of ECE capstone projects in ECE496. He took such care in guiding and mentoring his students, and continued to supervise capstone teams up until his death. As an administrator, Hans was always the first to complete his marking; when Hans finally retired from the course, Phil Anderson pondered "who will be there to shame us into getting our reports marked now that Hans won't be reporting first?" Finally, he was the Dean's Designate on Academic Offences, a position he held until the very end. Vaughn Betz observed how Hans "turned difficult meetings into teaching moments, having compassion for the students and their situation but also eloquently explaining why engineers need to have integrity at their core." Hans shared a tremendous passion for working with young engineering students.

Hans was a great visionary, teacher, mentor, engineer, philosopher, friend, and above all a caring, critical, and fair human being. In the early 1990s when the Engineering Science students at the University of Toronto presented a petition (signed by 200 students) to start a biomedical engineering option in Engineering Science, he sprang into action, and approached colleagues Berj Bardakjian and Yu Ling Cheng to start working on developing such a program. They had many meetings in his "director's office", where they started charting their path. He left their deliberations on the blackboard of his office for a long time as they kept filling in the holes and improve the offering. It was a challenge like any "new" endeavor as this was the first undergraduate biomedical engineering program in Canada. It started with a bang as it became the most popular option, along with the Aerospace option, in the Engineering Science program. He was the "force field" pushing that program forward.

On the administrative front, Hans was Director of the Institute of Biomedical Engineering from 1989-1999, and its Associate Director from 1984-1986. Before that, he was also Associate Chair of the Division of Engineering Science. For his service, Hans was awarded the Queen's Golden Jubilee

Medal “for significant contribution to Canada, to the community, or to fellow Canadians” in 2003.

Hans is survived by his wife, Clare Lamb; his sons, Mads (Marie) and Niels (Daniella); and their mother, Helle; as well as his five beloved grandchildren and his sister, Else.

Be it further resolved –

THAT this tribute to Hans Kunov 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.

Prepared by Professors Berj Bardakjian, Khoman Phang and Willy Wong



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Report No. 3723

MEMORANDUM

To: Faculty Council (October 13, 2022)

From: Professor Jun Nogami
Faculty Council Speaker

Date: September 27, 2022

Re: Appointments to the Academic Appeals Board (Undergraduate) and Standing Committees of Council, 2022-2023

REPORT CLASSIFICATION

This is a routine matter for Faculty Council's information.

BACKGROUND

Pursuant to the Bylaws of the Council of the Faculty of Applied Science & Engineering (B4.2), "a list of candidates for service on the Academic Appeals Board (Undergraduate) and Standing Committees shall be provided annually to the Secretary of Council by their respective appointing bodies by July 1 of each academic year. Student members shall be provided before the first regular Council meeting of each academic year".

The attached is a list of board and committee members appointed to date for the 2022-2023 academic year.

RECOMMENDATION FOR FACULTY COUNCIL

For information.

Academic Appeals Board (Undergraduate), 2022-2023

Oct 13/22 FC, p. 18

Chair: Don Kirk | Vice-Chair: Elham Marzi

APPOINTMENT TYPE	NAME	DEPARTMENT	EMAIL	TERM	EXPIRES / REVIEWED
Teaching Staff (7)	Consens, Mariano	Mechanical & Industrial Engineering	mariano.consens@utoronto.ca	3 years	Aug 31, 2025
	Dawson, Francis	Electrical & Computer Engineering	dawson@ece.utoronto.ca	3 years	Aug 31, 2024
	Kirk, Don	Chemical Engineering & Applied Chemistry	don.kirk@utoronto.ca	3 years	Aug 31, 2023
	Marzi, Elham	Institute for Studies in Transdisciplinary Engineering Education & Practice	elham.marzi@utoronto.ca	3 years	Aug 31, 2025
	Nurul Habib, Khandker	Civil & Mineral Engineering	khandker.nurulhabib@utoronto.ca	3 years	Aug 31, 2023
	Ruda, Harry	Materials Science & Engineering	harry.ruda@utoronto.ca	3 years	Aug 31, 2025
	Vacant	Engineering Science	--	3 years	Aug 31, 2025
Undergraduate Students (min. 7)	Agarwal, Mihir	Y2-CIV	mihir.agarwal@mail.utoronto.ca	1 year	Aug 31, 2023
	Bellissimo, Mary	PEY-Indy	m.bellissimo@mail.utoronto.ca	1 year	Aug 31, 2023
	Buhler, Jack	Y2-ECE	jack.buhler@mail.utoronto.ca	1 year	Aug 31, 2023
	Chandhok, Tegbir Singh	Y2-Mech	tegbir.chandhok@mail.utoronto.ca	1 year	Aug 31, 2023
	Chen, Jeff	Y2-CIV	jeffj.chen@mail.utoronto.ca	1 year	Aug 31, 2023
	Chopra, Rahul	PEY-ECE	rahulj.chopra@mail.utoronto.ca	1 year	Aug 31, 2023
	Du, Matthew	Y2-Mech	matthew.du@mail.utoronto.ca	1 year	Aug 31, 2023
	Huang, Amy	PEY-EngSci	yuxuan.huang@mail.utoronto.ca	1 year	Aug 31, 2023
	Le, Mike Minh Anh	Y3-CIV	Mikeminh.le@mail.utoronto.ca	1 year	Aug 31, 2023
	Patra, Aman	Y3-ECE	aman.patra@mail.utoronto.ca	1 year	Aug 31, 2023
	Ramoutar, Vashish	Y4-Chem	vashish.ramoutar@mail.utoronto.ca	1 year	Aug 31, 2023
Ex-officio (Non-voting)	MacMillan, Don	Faculty Registrar	don.macmillan@utoronto.ca	Ongoing	--
Recording Secretary (Non-voting)	Luna Yong, Andrea	Advisor, Registrarial Communications	andrea.lunayong@utoronto.ca	Ongoing	Periodically

Domain: With respect to undergraduate programs, AAB(U) is responsible for hearing 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. An AAB(U) appeal decision is final within the Faculty of Applied Science & Engineering; however, its decisions may be appealed to Governing Council's Academic Appeals Committee (AAC).

Term: Sep 1 until Aug 31 of the following year.

Rev. 9/19/2022 5:45 PM

Admissions Committee, Undergraduate (ADM) – 2022-2023

Chair: Sarah Haines | Vice-Chair: Ashvin Goel

APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM*	EXPIRES / REVIEWED
Teaching Staff (6)	Benhabib, Beno	Mechanical & Industrial Engineering	beno@mie.utoronto.ca	2 years	Jun 30, 2024
	Chan, Ariel	Chemical Engineering & Applied Chemistry	ariel.chan@utoronto.ca	3 years	Jun 30, 2025
	Enright Jerger, Natalie	Engineering Science	enright@eecg.toronto.edu	3 years	Jun 30, 2025
	Goel, Ashvin	Electrical & Computer Engineering	ashvin@eecg.toronto.edu	1 year	Jun 30, 2023
	Haines, Sarah	Civil & Mineral Engineering	s.haines@utoronto.ca	2 years	Jun 30, 2024
	Lian, Keryn	Materials Science & Engineering	keryn.lian@utoronto.ca	1 year	Jun 30, 2023
Members-at-Large (1)	Hussain, Zayneb	Undergraduate Student (Y3-Mech)	zayneb.hussain@mail.utoronto.ca	1 year	Jun 30, 2023
Ex-officio (3)	Coyle, Tom	Vice-Dean, Undergraduate	vicedeans@engineering.utoronto.ca	Ongoing	--
	Kilkenny, Dawn	Vice-Dean, First Year	vdfy@engineering.utoronto.ca	Ongoing	--
	MacMillan, Don	Faculty Registrar	don.macmillan@ecf.utoronto.ca	Ongoing	--
Subject Matter Experts (Non-voting) (10)	Bright, Helen	Associate Registrar and Director, Admissions	helen.bright@utoronto.ca	Ongoing	Periodically
	Schvarczkopf, Ingrid	Director, Engineering Student Recruitment & Retention Office	ingrid.schvarczkopf@utoronto.ca	Ongoing	Periodically
	Sterling, Marisa	Assistant Dean and Director, Diversity, Inclusion & Professionalism	marisa.sterling@utoronto.ca	Ongoing	Periodically
	TBD	Undergraduate Admissions Staff (CHE)	chem.undergrad@utoronto.ca	Ongoing	Periodically
	Martini, Pauline	Undergraduate Admissions Staff (CivMin)	pauline.martini@utoronto.ca	Ongoing	Periodically
	Puvitharan, Meera	Undergraduate Admissions Staff (ECE)	meera.puvitharan@utoronto.ca	Ongoing	Periodically
	Johns, Stephen	Undergraduate Admissions Staff (EngSci)	stephen.johns@utoronto.ca	Ongoing	Periodically
	Hunter, Kendra	Undergraduate Admissions Staff (MIE)	kendra.hunter@utoronto.ca	Ongoing	Periodically
	Hsin, Agnes	Undergraduate Admissions Staff (MSE)	agnes.hsin@utoronto.ca	Ongoing	Periodically
	Kang, Julie	Undergraduate Admissions Staff (Track One)	jh.kang@utoronto.ca	Ongoing	Periodically
Recording Secretary (Non-voting)	Pathan, Asma	Applicant Support & Admissions Counsellor, Registrar's Office	asma.pathan@utoronto.ca	Ongoing	Periodically

*In 2022-23, Teaching Staff appointments will be staggered for one-, two- or three year-terms. Beginning in 2023-24, all vacant Teaching Staff appointments will be for three years. Oct 13/22 FC, p. 20

Domain: Re undergraduate programs, the Undergraduate Admissions Committee (ADM) is responsible for (1) admissions, (2) advanced standing, (3) enrolment planning policy, and (4) awards for incoming first year students.

Term: Jul 1 of each academic year until Jun 30 of that academic year.

Rev. 9/8/2022 5:27 PM

Engineering Graduate Education Committee (EGEC) – 2022-2023

Oct 13/22 FC, p. 21

Chair: Marianne Hatzopoulou | Vice-Chair: TBD

APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM*	EXPIRES/ REVIEWED
Teaching Staff (8)	Davies, John**	Biomedical Engineering	jed.davies@utoronto.ca	1 year	Jun 30, 2023
	Filleter, Tobin	Mechanical & Industrial Engineering	tobin.filleter@utoronto.ca	2 years	Jun 30, 2024
	Hatton, Benjamin	Materials Science & Engineering	benjamin.hatton@utoronto.ca	1 year	Jun 30, 2023
	Hatzopoulou, Marianne	Civil & Mineral Engineering	marianne.hatzopoulou@utoronto.ca	2 years	Jun 30, 2024
	Mojahedi, Mo	Electrical & Computer Engineering	mojahedi@ece.utoronto.ca	1 year	Jun 30, 2023
	Nair, Prasanth	Aerospace Studies	pbn@utias.utoronto.ca	3 years	Jun 30, 2025
	Romkey, Lisa	Studies in Transdisciplinary Engineering Education & Practice	lisa.romkey@utoronto.ca	3 years	Jun 30, 2025
	Shoichet, Molly	Chemical Engineering & Applied Chemistry	molly.shoichet@utoronto.ca	3 years	Jun 30, 2025
Members-at-Large (4)	Di Battista, Vanessa	Alumni/ae (Civil 1T2)	Vanessa.Di.Battista@usherbrooke.ca	3 years	Jun 30, 2025
	Serles, Peter***	Graduate Student: PhD candidate (MIE 4 th year)	pserles@mie.utoronto.ca	1 year	Jun 30, 2023
	TBD	Graduate Student	TBD	1 year	Jun 30, 2023
	TBD	Non-academic Staff (Graduate Counsellor)	TBD	3 years	Jun 30, 2025
Ex-officio (2)	Audet, Julie	Vice-Dean, Graduate Studies	julie.audet@utoronto.ca	Ongoing	--
	Draper, Stark	Vice-Dean, Research (Interim)	stark.draper@utoronto.ca	Ongoing	--
Recording Secretary (Non-voting)	Duong, David	Faculty Graduate Coordinator	d.duong@utoronto.ca	Ongoing	Periodically

*In 2022-23, Teaching Staff appointments will be staggered for one-, two- or three year-terms. Beginning in 2023-24, all vacant Teaching Staff appointments will be for three years.

** John Davies represents BME from Jul 1-Dec 31, 2022. Paul Yoo represents BME from Jan 1-Jun 30, 2023.

*** Peter Serles is extending his term from 2021-2022 until a 2022-2023 graduate student can be appointed.

With respect to graduate studies, EGEC is responsible for the following. See Council Bylaws for a list of exclusions.

1. New graduate courses, minor and major course changes and minor and major program changes
2. Graduate Degree Level Expectations (GDLEs)
3. Faculty-originated, graduate-supervisor awards and University-level nominations
 - a. Scholarships and awards
 - b. Faculty-originated scholarships/awards
 - c. Post-doc University-level nominations
4. Faculty-level implementation of SGS policies and best practice, e.g., admissions, student supervisory committees, supervision, stipends, assessment and grading in courses
5. Professional development
6. Petitions and appeals of graduate students taking 500-level courses - limited to personal matters, e. g. extensions, missed exams (academic matters being adjudicated by the Examinations Committee)

Inclusivity, Diversity & Equity Advisory Committee (IDEA) – 2022-2023					
Chair: Ning Yan Vice-Chair: Philip Asare					
APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM*	EXPIRES / REVIEWED
Teaching Staff (9)	Aleman, Dionne	Mechanical & Industrial Engineering	dionne.aleman@utoronto.ca	3 years	Jun 30, 2025
	Asare, Philip	Engineering Science	philip.asare@utoronto.ca	1 year	Jun 30, 2023
	Asare, Philip	Studies in Transdisciplinary Engineering Education & Practice	philip.asare@utoronto.ca	1 year	Jun 30, 2023
	Howe, Jane	Materials Science & Engineering	jane.howe@utoronto.ca	2 years	Jun 30, 2024
	Kelly, Jonathan	Aerospace Studies	jkelly@utias.utoronto.ca	2 years	Jun 30, 2024
	Kim, Daeho	Civil & Mineral Engineering	civdaeho.kim@utoronto.ca	3 years	Jun 30, 2025
	Mann, Steve	Electrical & Computer Engineering	mann@eyetap.org	2 years	Jun 30, 2024
	Truong, Kevin	Biomedical Engineering	kevin.truong@utoronto.ca	3 years	Jun 30, 2025
	Yan, Ning	Chemical Engineering & Applied Chemistry	ning.yan@utoronto.ca	1 year	Jun 30, 2023
Members-at-Large (11)	Wong, David	Alumni/ae (EngSci OT6)	dfwong@gmail.com	3 years	Jun 30, 2025
	TBD	Graduate Student	TBD	1 year	Jun 30, 2023
	TBD	Graduate Student	TBD	1 year	Jun 30, 2023
	Vacant	Non-Academic Staff (Faculty Critical Incident Coordinator)		2 years**	Jun 30, 2024
	Pinto, Fahad	Non-Academic Staff (Communication & Media Relations Strategist)	fahad.pinto@utoronto.ca	3 years	Jun 30, 2025
	Chan, Michael	Undergraduate Student (Y2-Chem)	michaelst.chan@mail.utoronto.ca	1 year	Jun 30, 2023
	Jia, Katherine	Undergraduate Student (Y3-Mech)	kat.jia@mail.utoronto.ca	1 year	Jun 30, 2023
	Mahidashti, Dalia Victoria	Undergraduate Student (Y2-ECE)	dalia.mahidashti@mail.utoronto.ca	1 year	Jun 30, 2023
	Misra, Tarun	Undergraduate Student (Y3-ECE)	tarun.misra@mail.utoronto.ca	1 year	Jun 30, 2023
	Roy, Joanna	Undergraduate Student (PEY-EngSci)	joanna.roy@mail.utoronto.ca	1 year	Jun 30, 2023
	Yu, Trinity	Undergraduate Student (Y3-EngSci)	trinity.yu@mail.utoronto.ca	1 year	Jun 30, 2023
Ex-officio (8)	Audet, Julie	Vice-Dean, Graduate Studies	julie.audet@utoronto.ca	Ongoing	--
	Britton, Dawn	Associate Director, Engineering Student Outreach Office	dawn.britton@utoronto.ca	Ongoing	--
	Coyle, Tom	Vice-Dean, Undergraduate	vicedeans@engineering.utoronto.ca	Ongoing	--
	Draper, Stark	Vice-Dean, Research (Interim)	stark.draper@utoronto.ca	Ongoing	--

	Kilkenny, Dawn	Vice-Dean, First Year	vdfy@engineering.utoronto.ca	Ongoing	--
	MacMillan, Don	Registrar, Faculty	don.macmillan@ecf.utoronto.ca	Ongoing	--
	Schvarczkopf, Ingrid	Director, Engineering Student Recruitment & Retention	ingrid.schvarczkopf@ecf.utoronto.ca	Ongoing	--
	Sterling, Marisa	Assistant Dean and Director, Diversity, Inclusion & Professionalism	marisa.sterling@utoronto.ca	Ongoing	--
Subject Matter Experts (Non-voting) (4)	Aleman, Dionne	Engineering Positive Space Committee Representative	dionne.aleman@utoronto.ca	Ongoing	Periodically
	Bazylak, Jason	Dean's Advisor on Indigenous Initiatives	jbazylak@mie.utoronto.ca	Ongoing	Periodically
	Burke, Mikhail	Dean's Advisor on Black Inclusivity Initiatives	mikhail.burke@mail.utoronto.ca	Ongoing	Periodically
	Vacant	Engineering Equity, Diversity, and Inclusion Action Group Representative		Ongoing	Periodically
Recording Secretary (Non-voting)	Fabro, Jen	First Year Advisor, First Year Office	jen.fabro@utoronto.ca	Ongoing	Periodically

*In 2022-23, Teaching Staff appointments will be staggered for one-, two- or three year-terms. Beginning in 2023-24, all vacant Teaching Staff appointments will be for three years.

**This is a three-year term, but the initial appointment in 2022-23 is for two years, in order to stagger with the second Non-Academic Staff appointment.

Domain: With respect to undergraduate and graduate students, teaching staff, and non-academic staff, IDEA is responsible for: Equity, Diversity and Inclusion, including aspects of member experience, safety and belonging, professional conduct, and diversity in all its dimensions, including but not limited to race, ethnicity, gender identity, sexual orientation, religion, age, ability, legal status, Indigenous identity and socioeconomic background.

Term: Jul 1 of each academic year until Jun 30 of that academic year.

Rev. 8/17/2022 12:48 PM

Research Committee – 2022-2023

APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM	EXPIRES/ REVIEWED
Teaching Staff (7)*	Khan, Omar	Biomedical Engineering	dr.khan@utoronto.ca	1 year	Jun 30, 2023
	Lavoie, Philippe	Aerospace Studies	lavoie@utias.utoronto.ca	1 year	Jun 30, 2023
	Li, Baochun	Electrical & Computer Engineering	bli@ece.toronto.edu	1 year	Jun 30, 2023
	Master, Emma	Chemical Engineering & Applied Chemistry	emma.master@utoronto.ca	1 year	Jun 30, 2023
	Nejat, Goldie	Mechanical & Industrial Engineering	goldie.nejat@utoronto.ca	1 year	Jun 30, 2023
	Roorda, Matthew	Civil & Mineral Engineering	matt.roorda@utoronto.ca	1 year	Jun 30, 2023
	Singh, Chandra Veer	Materials Science & Engineering	chandraveer.singh@utoronto.ca	1 year	Jun 30, 2023
Ex-officio (2)	Draper, Stark (Chair)	Interim Vice-Dean, Research	stark.draper@utoronto.ca	Ongoing	--
	Yip, Christopher	Dean	dean.engineering@utoronto.ca	Ongoing	--
Administrative Staff (Non-voting)	Vacant	Director, Foundation & Corporate Partnerships		Ongoing	Periodically
Recording Secretary (Non-voting)	Footman, Elaine	FASE Research Office	vdr@engineering.utoronto.ca	Ongoing	Periodically

*Usually Associate Chairs, Research.

Domain: (1) Serve as an advisory and coordinating body to advance engineering research excellence and innovation, and strengthen the Faculty's research community; and (2) provide advice on research matters pertaining to strategic planning, and support implementation of the strategic research plan.

Term: Jul 1 of each academic year until Jun 30 of that academic year.

Rev. 9/17/2022 9:57 AM

Teaching Methods & Resources Committee (TMRC) – 2022-2023

Chair: Elodie Passeport | Vice-Chair: Chris Bouwmeester

APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM*	EXPIRES / REVIEWED
Teaching Staff (9)	Azimi, Gisele	Materials Science & Engineering	g.azimi@utoronto.ca	3 years	Jun 30, 2025
	Bouwmeester, Chris**	Biomedical Engineering	chris.bouwmeester@utoronto.ca	2 years	Jun 30, 2024
	Emami, Reza	Aerospace Studies	reza.emami@utoronto.ca	1 year	Jun 30, 2023
	Guerzhoy, Michael	Engineering Science	michael.guerzhoy@utoronto.ca	2 years	Jun 30, 2024
	Lee, Seungjae	Civil & Mineral Engineering	sjae.lee@utoronto.ca	3 years	Jun 30, 2025
	Marzi, Elham	Studies in Transdisciplinary Engineering Education & Practice	elham.marzi@utoronto.ca	1 year	Jun 30, 2023
	Passeport, Elodie	Chemical Engineering & Applied Chemistry	elodie.passeport@utoronto.ca	1 year	Jun 30, 2023
	Steinman, David	Mechanical & Industrial Engineering	david.steinman@utoronto.ca	3 years	Jun 30, 2025
	Tate, Zeb	Electrical & Computer Engineering	zeb.tate@utoronto.ca	2 years	Jun 30, 2024
Members-at-Large (4)	Memarian, Bahar	Alumni/ae (ECE 1T2, MASc 1T5 and PhD 2T1)	memarianbahar@gmail.com	3 years	Jun 30, 2025
	TBD	Graduate Student	TBD	1 year	Jun 30, 2023
	Arzoumanian, Ike	Undergraduate Student (Y2-CIV)	ike.arzoumanian@mail.utoronto.ca	1 year	Jun 30, 2023
	Wang, Neo	Undergraduate Student (Y2-ECE)	neoo.wang@mail.utoronto.ca	1 year	Jun 30, 2023
Ex-officio (3)	Coyle, Tom	Vice-Dean, Undergraduate	vicedean@engineering.utoronto.ca	Ongoing	--
	Kilkenny, Dawn	Vice-Dean, First Year	vdfy@engineering.utoronto.ca	Ongoing	--
	MacMillan, Don	Registrar, Faculty	don.macmillan@ecf.utoronto.ca	Ongoing	--
Subject Matter Experts (Non-voting) (3)	Abdulnour, Shahad	Faculty Learning Strategist	shahad.abdulnour@utoronto.ca	Ongoing	Periodically
	Henshilwood, Angela	Librarian, Engineering and Computer Science Library	angela.henshilwood@utoronto.ca	Ongoing	Periodically
	Van Beek, Allison	Technology Specialist, Faculty	allison.vanbeek@utoronto.ca	Ongoing	Periodically
Recording Secretary (Non-voting)	Hameed, Sania (Acting)	Assistant Director, Student Experience & Teaching Development	sania.hameed@utoronto.ca	Ongoing	Periodically

*In 2022-23, Teaching Staff appointments will be staggered for one-, two- or three year-terms. Beginning in 2023-24, all vacant Teaching Staff appointments will be for three years.

** Chris Bouwmeester will be on sabbatical in 2023-2024.

Domain: With respect to undergraduate and graduate classroom/course instruction, TMRC is responsible for (1) teaching methods, resources, and aids; and (2) evaluating and rewarding teaching effectiveness. Term: Jul 1 of each academic year until Jun 30 of that academic year.

Assessment Committee, Undergraduate (UAC) – 2022-2023

Oct 13/22 FC, p. 26

Chair: Daniel Posen | Vice-Chair: Khoman Phang

APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM*	EXPIRES/ REVIEWED
Teaching Staff (7)	Chan, Arthur	Engineering Science	arthurwh.chan@utoronto.ca	1 year	Jun 30, 2023
	Chong, Alan	Studies in Transdisciplinary Engineering Education & Practice	alan.chong@utoronto.ca	3 years	Jun 30, 2025
	Gruninger, Michael	Mechanical & Industrial Engineering	gruninger@mie.utoronto.ca	3 years	Jun 30, 2025
	Kherani, Nazir	Materials Science & Engineering	nazir.kherani@utoronto.ca	2 years	Jun 30, 2024
	Papangelakis, Vlad	Chemical Engineering & Applied Chemistry	vladimiro.papangelakis@utoronto.ca	1 year	Jun 30, 2023
	Phang, Khoman	Electrical & Computer Engineering	kphang@ece.utoronto.ca	1 year	Jun 30, 2023
	Posen, Daniel	Civil & Mineral Engineering	daniel.posen@utoronto.ca	3 years	Jun 30, 2025
Members-at-Large (5) **	TBD	Non-academic Staff (Departmental Undergraduate Academic Advisor)		3 years	Jun 30, 2025
	Attai, Julianne	Undergraduate Student (PEY-EngSci)	julianne.attai@mail.utoronto.ca	1 year	Jun 30, 2023
	Hari, Mukund	Undergraduate Student (Y3-Indy)	mukund.hari@mail.utoronto.ca	1 year	Jun 30, 2023
	Hilton, Kenneth	Undergraduate Student (Y2-ECE)	ken.hilton@mail.utoronto.ca	1 year	Jun 30, 2023
	van Beers, Saskia	Undergraduate Student (Y4-EngSci)	saskia.vanbeers@mail.utoronto.ca	1 year	Jun 30, 2023
Ex-officio (3)	MacMillan, Don	Faculty Registrar	don.macmillan@ecf.utoronto.ca	Ongoing	--
	Kilkenny, Dawn	Vice-Dean, First Year	vdfy@engineering.utoronto.ca	Ongoing	--
	Coyle, Tom	Vice-Dean, Undergraduate	vicedean@engineering.utoronto.ca	Ongoing	--
Subject Matter Experts (Non-voting)	Doan, Khuong	Associate Registrar	khuong.doan@utoronto.ca	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (CE)		Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (CHE)		Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (CIV)		Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (EE)		Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (EngSci)		Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (FYO)		Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (IE)		Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (MSE)		Ongoing	Periodically

	TBD	Undergraduate Academic Advisor (ME)		Ongoing Oct 13/22 EC, p. 27	Periodically
	TBD	Undergraduate Academic Advisor (MIN)		Ongoing	Periodically
Recording Secretary (Non-voting)	Alves, Sparkle	Student Records Assessor & Examinations Coordinator, Registrar's Office	s.alves@utoronto.ca	Ongoing	Periodically

*In 2022-23, Teaching Staff appointments will be staggered for one-, two- or three year-terms. Beginning in 2023-24, all vacant Teaching Staff appointments will be for three years.

** Four undergraduate students will be voting members in order to share the considerable burden of the work of this committee among four rather than two students. At any given time, **only two students** will count towards quorum and be permitted to vote.

Domain: With respect to undergraduate programs or courses, UAC is responsible for the following. See Council Bylaws for a list of exclusions.

1. Course-level grading practices and standards (including 500-level courses) Note: that instructors "recommend" course grades but the committee determines final grades.
2. Academic standing including honours, promotion, and Dean's List
3. Policy concerning final exams, e.g., schedule, duration, calculators, requests for regrading and exam viewing, and invigilation
4. Use of non-grade statements and symbols (e.g., EXT, INC, SDF)
5. Petitions in final exams and for special consideration: e.g., grades, promotion regulations, academic standing, late withdrawals, re-enrolment, awarding of degrees, and non-grade symbols and statements
6. Policies concerning term work petitions

Term: Jul 1 of each academic year until Jun 30 of that academic year.

Rev. 8/16/2022 4:04 PM

Curriculum Committee, Undergraduate (UCC) – 2022-2023

Chair: Evan Bentz | Vice-Chair: Scott Ramsay

Oct 13/22 FC, p. 28

APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM*	EXPIRES/ REVIEWED
Teaching Staff (9)	Bentz, Evan	Civil & Mineral Engineering	evan.bentz@utoronto.ca	1 year	Jun 30, 2023
	Cluett, Will	Chemical Engineering & Applied Chemistry	will.cluett@utoronto.ca	2 years	Jun 30, 2024
	Ekmekci, Alis	Aerospace Studies	alis.ekmekci@utoronto.ca	3 years	Jun 30, 2025
	Fernandez-Gonzalez, Rodrigo	Biomedical Engineering	rodrigo.fernandez.gonzalez@utoronto.ca	1 year	Jun 30, 2023
	Grant, Peter	Engineering Science	peter.grant@utoronto.ca	2 years	Jun 30, 2024
	Ramsay, Scott	Materials Science & Engineering	scott.ramsay@utoronto.ca	3 years	Jun 30, 2025
	Sheridan, Patricia	Studies in Transdisciplinary Engineering Education & Practice	patricia.sheridan@utoronto.ca	2 years	Jun 30, 2024
	Trescases, Olivier	Electrical & Computer Engineering	ot@ece.utoronto.ca	3 years	Jun 30, 2025
	Young, Edmond	Mechanical & Industrial Engineering	edmond.young@utoronto.ca	1 year	Jun 30, 2023
Members-at-Large (2)	Gallicchio, Isabella	Undergraduate Student (Y3-MSE)	isabella.gallicchio@mail.utoronto.ca	1 year	Jun 30, 2023
	Jain, Ashna	Undergraduate Student (Y3-Indy)	ashna.jain@mail.utoronto.ca	1 year	Jun 30, 2023
Ex-officio (7)	Aleman, Dionne	Associate Dean, Cross-Disciplinary Programs	aleman@mie.utoronto.ca	Ongoing	--
	Coyle, Tom	Vice-Dean, Undergraduate	vicedean@engineering.utoronto.ca	Ongoing	--
	Kilkenny, Dawn	Vice-Dean, First Year	vdfy@engineering.utoronto.ca	Ongoing	--
	MacMillan, Don	Registrar, Faculty	don.macmillan@ecf.utoronto.ca	Ongoing	--
	Song, David**	Engineering Society Vice President, Academic	vpacademic@skule.ca	Ongoing	Jun 30, 2023
	Sterling, Marisa	Assistant Dean and Director, Diversity, Inclusion & Professionalism	marisa.sterling@utoronto.ca	Ongoing	--
Subject Matter Experts (Non-voting) (4)	Variawa, Chirag	Director, First Year Curriculum	chirag.variawa@utoronto.ca	Ongoing	--
	Brown, Chris	Scheduling Officer, Registrar's Office	chrise.brown@utoronto.ca	Ongoing	Periodically
	Brown, Sharon	Assistant Director, Cross-Disciplinary Programs	s.brown@utoronto.ca	Ongoing	Periodically
	Henshilwood, Angela	Librarian, Engineering and Computer Science Library	angela.henshilwood@utoronto.ca	Ongoing	Periodically
Recording Secretary (non-member)	Vacant	Teaching and Learning Specialist, Faculty		Ongoing	Periodically
	Cossaro, Mojgan (Acting)	Financial and Executive Assistant	eavdu@engineering.utoronto.ca	Ongoing	Periodically

*In 2022-23, Teaching Staff appointments will be staggered for one-, two- or three year-terms. Beginning in 2023-24, all vacant Teaching Staff appointments will be for three years.

**While this ex officio role is ongoing, the Engineering Society's Vice-President, Academic is elected annually.

Oct 13/22 FC, p. 29

Domain: With respect to undergraduate programs, this committee is responsible for:

1. Curriculum change
2. Curriculum quality control including:
 - a. Canadian Engineering Accreditation Board (CEAB) Graduate Attributes (GA)
 - b. CEAB Accreditation units (AU)
 - c. U of T Quality Assurance and Degree Level Expectations
3. Selection of sessional dates.

Term: Jul 1 of each academic year until Jun 30 of that academic year.

Rev. 8/23/2022 12:37 PM

Scholarships & Awards Committee, Undergraduate (USAC) – 2022-2023

Chair: Jennifer Farmer | Vice-Chair: Lisa Romkey

APPOINTMENT TYPE	NAME	CONSTITUENCY	EMAIL	TERM*	EXPIRES/ REVIEWED
Teaching Staff (6)	Aref, Samin**	Mechanical & Industrial Engineering	aref@mie.utoronto.ca	2 years	Oct 31, 2024
	Farmer, Jennifer	Chemical Engineering & Applied Chemistry	jennifer.farmer@utoronto.ca	3 years	Oct 31, 2025
	Ogunsanya, Ibrahim	Civil & Mineral Engineering	ibrahim.ogunsanya@utoronto.ca	2 years	Oct 31, 2024
	Pavel, Lacra	Electrical & Computer Engineering	pavel@ece.utoronto.ca	3 years	Oct 31, 2025
	Romkey, Lisa	Engineering Science	lisa.romkey@utoronto.ca	1 year	Oct 31, 2023
	Zou, Yu	Materials Science & Engineering	mse.zou@utoronto.ca	1 year	Oct 31, 2023
Members-at-Large (3)	Pietropaolo Jamieson, Tessa	Alumni/ae (IndE 1T7)	tessa.pietropaolo@utoronto.ca	3 years	Oct 31, 2025
	Hung, Nathan	Undergraduate Student (Y2-ECE)	nathan.hung@mail.utoronto.ca	1 year	Oct 31, 2023
	Zamel, Yazan	Undergraduate Student (Y4-EngSci)	yazan.zamel@mail.utoronto.ca	1 year	Oct 31, 2023
Ex-officio (4)	Coyle, Tom	Vice-Dean, Undergraduate	vicedeans@engineering.utoronto.ca	Ongoing	--
	Filippone, Pierina	Assistant Registrar, Scholarships & Financial Aid, Registrar's Office	pierina.filippone@utoronto.ca	Ongoing	--
	Kilkenny, Dawn	Vice-Dean, First Year	vdfy@engineering.utoronto.ca	Ongoing	--
	MacMillan, Don	Registrar, Faculty	don.macmillan@ecf.utoronto.ca	Ongoing	--
Subject Matter Experts (Non-voting)	Vacant	Assistant Director, Student Experience & Teaching Development	TBD	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (CHE)	TBD	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (CivMin)	TBD	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (ECE)	TBD	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (EngSci)	TBD	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (FYO)	TBD	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (MIE)	TBD	Ongoing	Periodically
	TBD	Undergraduate Academic Advisor (MSE)	TBD	Ongoing	Periodically
Recording Secretary (Non-voting)	Filippone, Pierina	Assistant Registrar, Scholarships & Financial Aid, Registrar's Office	pierina.filippone@utoronto.ca	Ongoing	Periodically

* In 2022-23, Teaching Staff appointments will be staggered for one-, two- or three year-terms. Beginning in 2023-24, all vacant Teaching Staff appointments will be for three years.

** Samin Aref represents MIE from Nov 1, 2022 through Dec 31, 2023. Jason Bazylak represents MIE from Jan 1, 2014 through Oct 2024.

Domain: With respect to undergraduate programs or courses, USAC is responsible for (1) academic awards, grants and prizes controlled by the Faculty; and (2) promoting student awareness of external awards and aid. Excluded: awards for incoming first-year students, which are managed by Undergraduate Admissions Committee.

Term: Close of the Oct Council meeting each academic year until the close of the Oct Council meeting in the next academic year.

Rev. 8/12/2022 4:19 PM



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Report No. 3724

MEMORANDUM

To: Faculty Council of October 13, 2022

From: Professor Donald Kirk
Chair, Academic Appeals Board (Undergraduate)

Date: September 20, 2022

Re: **Annual Report of the Academic Appeals Board (Undergraduate) for the Period of September 1, 2021 to September 1, 2022**

REPORT CLASSIFICATION

The Academic Appeals Board (Undergraduate) reports directly to Faculty Council. This is a routine matter for Faculty Council's information.

ACADEMIC APPEALS BOARD RESPONSIBILITIES

To hear appeals of U of T Engineering 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.

The AAB (Undergraduate) shall report annually to Council at the regular fall meeting indicating the number of appeals brought in the previous year and the disposition of those appeals. No information identifying appellants may be included in the annual report.

SUMMARY OF APPEALS & DISPOSITIONS

During the 2021-2022 academic year, the AAB(U) considered 23 appeals on decisions made by the Undergraduate Assessment Committee (UAC), which is up from the 10 considered during the previous cycle.

In addition to the 23 appeals considered by the AAB(U), five appeals (up from two the previous cycle) were resolved at the UAC level (each appeal is first sent back to the UAC for a second review before proceeding to the AAB(U) if the UAC's original decision stands).

The table below shows the number of appeals heard over the past eight academic years:

Academic Year	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Number of appeals	20	24	13	10	20	18	10	23

Table 1 – Number of Appeals Per Academic Year

The appeals considered during the 2021-2022 academic year can be further categorized as the following:

- Two for considerations on final examinations.
- Twenty-one for special consideration regarding Faculty policies.

In nine of the 23 appeals, many of which introduced new documentation or elicited additional information during the hearing, the AAB(U) found cause to intervene. The specific remedies granted were:

- Further deferral of final examination (1).
- Retroactive withdrawal (“WDR”) from a term or course(s) (4).
- Retroactive withdrawal with probation relief (1).
- A change from late withdrawal (“LWD”) to aegrotat (“AEG”) status (1).
- Co-op credit granted (1).
- Retaining a credit in a repeat probation term and changing the status to “Repeat Probation – Continue” (1).

The AAB(U) found insufficient grounds to intervene in the remaining 14 appeals and rendered decisions of “no action” in these instances.

In the last academic year, one appeal to an AAB(U) decision was considered by the University’s Governing Council Academic Appeal Committee (AAC). The AAC appeal is pending review.

UPDATES, TRENDS & OBSERVATIONS WITHIN ACADEMIC APPEALS

Remote Work Changes Due to the COVID-19 Pandemic

The AAB(U) is continuing to conduct its hearings online as it has since March 2020. Hearings are currently held via Microsoft Teams meetings (using both audio and video). Decisions are being communicated to students via PDFs delivered by email instead of hard copies sent by mail.

Pre-closure, AAB(U) hearings lasted a half-hour each, and, often, two hearings could be scheduled during a one-hour period. The AAB(U) has found that it now needs a full hour

to consider each case. This is likely the result of the change of process and technology, as well as the complexity of the cases. As such, each case is scheduled for a one-hour period, which has increased the number of hearing dates.

It is important to note that there has been an increase in the number of appeals received in August and September and an increase in the number of requests for expedited hearings/decisions, which strains the ability of the AAB(U) to respond in a timely manner.

Membership Turnover Timelines

The Board continues to struggle to schedule hearings during the Summer Session and into September of the new academic year. The membership turnover date for the AAB(U) is September 1 each year. Faculty members are often identified on or before that date. However, due to the nature of the academic year, the Engineering Society is often not able to confirm new student representatives until August or September.

In the past, the AAB(U) has asked departing student representatives if they are able to serve on the Board throughout the summer to address the gap, however due to other obligations, understandably, students are not always able to participate through the summer months. The AAB(U) continues to work with Faculty governance to determine a solution.

Additionally, the Board has difficulties in scheduling hearings that achieve quorum due to conflicting availability and conflicts of interest. We have had very appreciated participation by Professors Fae Azhari (MIE), Francis Dawson (ECE), Harry Ruda (MSE), Elham Marzi (ISTEP) and Khandker Nurul Habib (CivMin). It should be noted that there is no Faculty representative from the Division of Engineering Science. Additionally, we appreciate the active participation of the student representatives from the 2021-2022 membership list, including Mike Le (Year 2 CivE), Saskia van Beers (PEY EngSci) and Vashish Ramoutar (PEY ChemE).

Continued Increase in Case Communication & Complexity

In line with the update from last year, increases in case communication and complexity are likely due to the efforts of the UAC to resolve student appeals within that committee. As such, the cases heard by the AAB(U) have become subjectively more complex. This has impacted the time taken at hearings and the amount of preparation undertaken by the Secretary and the Registrar's Office.

Since the cases from the end of August 2022, we have begun asking for more supporting documentation from the appellant, such as their course syllabus and grading details. This is to help the appellant be better prepared for any questions the AAB(U) may ask during the hearing. The request for additional supporting documentation is currently communicated by the Recording Secretary and is sent to the Academic Advisor. However,

the intention is to update the “Intention to Appeal” form and request the supporting documentation directly in the form.

AAB(U) Manual

The Board is currently operating under the revised manual that was approved by Faculty Council on December 16, 2021.

RECOMMENDATION FOR FACULTY COUNCIL

For information.



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Report No. 3722

MEMORANDUM

To: Executive Committee of Faculty Council (September 22, 2022)
 Faculty Council (October 13, 2022)

From: Professor Marianne Hatzopoulou
 Chair, Engineering Graduate Education Committee (EGEC)

Date: September 8, 2022

Re: **EGEC Information Update**

REPORT CLASSIFICATION

This is a routine or minor policy matter that has been approved by the Engineering Graduate Education Committee. It will be considered by the Executive Committee for approval and forwarding to Faculty Council for information.

NEW COURSES APPROVED

BME1560	AI in biomedical engineering
BME1580	Emerging topics in the application of digital technologies for chronic cardio-respiratory conditions
MIE1242	Applied thermal management
MIE1416	Human factors in healthcare
MIE1771	Additive manufacturing in automotive and high-volume applications

MINOR MODIFICATIONS

MIE1444	Course name changed from <i>Engineering for Psychologists</i> to <i>Engineering for Psychologists and Psychiatrists</i> ²
MIE1775	Course name changed from <i>Soft Materials and Machines</i> to <i>Soft Robotics</i>

RECOMMENDATION FOR FACULTY COUNCIL

For information.

² This course is the core course for the Collaborative Specialization (CS) in PsychEng. Last spring (2022), the Institute of Medical Science (IMS) was added as a participating unit (effective sept 2022). This targeted mostly MASc and PhD students doing research in Psychiatry at the Temerty Faculty of Medicine. Therefore, the name of the CS was changed to Psychology, Psychiatry and Engineering and the name of the core course as well.