

**STUDENT CLUB FUNDING
2015-2016**

Centralized Process for Student Initiative Funding (CPSIF) 2015-2016

August 8, 2016

Diverse co-curricular opportunities are offered to engineering students to enhance their university experiences. Students can participate in a variety of clubs including design, sport & recreation, cultural, arts & performance, conferences, professional development, departmental/discipline, and humanitarian. This report highlights the student clubs' accomplishments for 2015-2016. The Centralized Process for Student Initiative Funding (CPSIF) reviewed and approved funds for 108 student clubs for the 2015 - 2016 year for a total of \$263,036. The funding breakdown is as follows:

	Fall 2015	Winter 2016	Spring 2016	Totals
Number of Applications	78	28	8	114
Number of Approved Applications	78	22	8	108
Departments/ Organizations	Amount Provided	Amount Provided	Amount Provided	
YNCN	\$4,000.00	\$1,100	\$0	\$5,100
IBBME	\$12,400.00	\$1,000	\$0	\$13,400
CIV & MIN	\$11,750.00	\$0	\$0	\$11,750
Chem Eng	\$11,500.00	\$3,600	\$0	\$23,500
Engineering Science	\$18,425.00	\$1,650	\$0	\$20,075
EngSoc	\$39,237.00	\$5,389	\$0	\$44,626
MIE	\$50,825.00	\$12,675	\$0	\$63,500
Engineering Alumni/Dean's Office	\$51,215.00	\$14,300	\$22,170	\$87,685
MSE	\$0	\$1,800	\$0	\$1,800
Total	\$199,352	\$41,514	\$22,170	\$263,036

The funding process was changed to a more efficient process by eliminating the in-person presentation pitches that were scheduled over the course of a two day period, and reducing the funding cycle from three to one in the fall, effective for 2016-2017. To address the elimination of the pitches, a more comprehensive application form was revised to add questions which were frequently asked during the short presentations. While all of the departments supported the change to the single cycle, Engineering Society has decided to offer two cycles, with one in the fall and one in the spring. To ensure that there was a smooth transition in the reduction of the number of funding cycles, the changes were announced across multiple communication mediums, including digital screens and student newsletters.

Overall, in 2015-2016, the Faculty of Applied Science & Engineering (Alumni , Dean's Office, Institute of Biomaterials & Biomedical Engineering, Civil & Mineral Engineering, Chemical Engineering & Applied Chemistry, Engineering Science, Materials Science & Engineering, Mechanical & Industrial Engineering, Engineering Society, and You're Next Career Network) supported the student experience in the amount of \$263,036.

American Society of Heating, Refrigerating and Air-Conditioning (ASHRAE)

Funding awarded: \$291

The funds were used to facilitate two club sponsored events. This funding was very important to our club as it represented the largest amount awarded to us from any funding body. Without it we would not have been able to provide the two events to be described. The events were designed to provide learning opportunities, both technical and career orientated, for our student members who are part of the Skule™ community.

The first event was called “A Talk with Building Consultant: Jordan Bouchard”. Jordan Bouchard is currently a PhD candidate in the MIE department and focuses on mechanical design of building components. This event was held on March 23, 2016 from 4-5pm in BA 2135 and was attended by ASHRAE UofT student club members, all of which are engineering students and part of Skule. ASHRAE UofT provided beverages for the attendees and a gift card to Jordan for providing the talk. Jordan Bouchard gave an overview of the mechanical design industry and how a building consultant fits into it; role, compensation, and areas of work were discussed. He also presented a case study about a LEED Gold building in Toronto that Jordan helped design on the George Brown College Waterfront Campus.



Image: Jordan Bouchard presenting his lecture March 23, 2016.

The second club sponsored event was called the ASHRAE Indoor Environment Lunch and Learn. The topic chosen by attendees was a webinar provided by the United States Environmental Protection Agency (USEPA) on appropriate design for indoor environmental quality and energy considerations.

Biomedical Engineering Student Association (BESA)

Funding awarded: \$5,250

The winter reception was an inaugural networking mixer student-alumni event hosted by the Biomedical Engineering Student Association (BESA). This was an opportunity for everyone to strengthen their ties with the Institute of Biomaterials and Biomedical Engineering, for alumni to share their successes and challenges, and provide tips and advice to current students, while students could establish networking connections in the industry. The funding from the Faculty of Applied Science & Engineering helped us to organize the event, specifically provide food at the event for all participants. This funding was important, since it contributed at least 25% of the overall budget and without this funding it would have been difficult to organize this new event. With the outcome of this event, attending alumni said that they felt more connected to the Institute and would look to come to more professional development events. Meanwhile, several students established connections with alumni, obtaining potential internship and post-graduate job opportunities. Students also said they gained a better feel for what awaits them after graduation and were more comfortable with their career path. Overall, everyone was very pleased with both the event and the outcome and would like to see it happen again next year – with even more integration of industry and academia, more professional networking opportunities, and activities geared towards career development.



Image: Organizers, faculty, and select alumni

Top left-to-right: Luke Y.H. Ng, Genevieve Foley, Akshay Puli, Eshani Sharan, Wilson Poon, Michael Li,

Dr. Craig Simmons, Vasily Grigorovsky, Dr. Penney Gilbert; Bottom left-to-right: Gillian Cook, Sameer Zaheer, Alphonsus Ng, Malgosia Pakulska, Rajjeet Phull



Image: Tuck-Voon How, Howard Chiam, Sam Shi, Aaron Yurkewich

Bridges to Prosperity - University of Toronto Chapter

Funding awarded: \$4,100

April 2016 marked the completion of Bridges to Prosperity - University of Toronto Chapter's second full year. With the support of our sponsors, including Skule™ alumni, we have successfully accomplished the goals we set for ourselves for our second year. Specifically, we will be constructing our chapter's first full independent footbridge in Patzula Guatemala. Several students will be travelling to the bridge site in July to construct the bridge with the local community and Engineers from Bridges to Prosperity. The funding from the Faculty of Applied Science & Engineering contributed directly to our travel team, allowing us to purchase the necessary construction materials and afford travel and accommodation. While the construction does not start until later in the summer, we have already gone through the initial design stages in cooperation with the Bridges to Prosperity, and also complete various construction workshops and training modules. The bridge will make a major impact for the local community having upwards of 200 users per day including 45 children on their way to school. The bridge will allow the community to have safe year round access to markets, healthcare services and local markets.

In addition to our bridge project, we have also been very active on campus to share our excitement for bridge engineering and global development work. We have hosted University of Toronto's second bridge competition, which was a huge success. The event was judged by industry professionals and involved more than 50 people. We also hosted another speaker series, one with Mike Jacobs and one with Bridges to Prosperity Engineers both of whom are very experienced in global development and construction work, and two Cafés with information on our current projects while giving away free baked goods. We plan to continue to be very active on campus to ensure that the student body is aware of our mission and helps us to reach our goal of constructing a footbridge in a developing community every year.

We are very proud of our accomplishment this year, and hope we can count on your continued support, so we can educate, innovate, and inspire as Engineers for the World.

Canadian Association of Food Engineers (CAFE)

Funding awarded: \$1,605

The funds were used to award a cash prize to the winning team of a design competition hosted by our club, the Canadian Association of Food Engineers (CAFE). We challenged teams to come up with an innovative idea for a product that could have an impact in the food industry. Teams prepared comprehensive presentations, in which they pitched their ideas to a panel of judges as well as discussed key aspects to implement their ideas, such as feasibility, marketing strategy and implementation barriers. The top three teams were awarded cash prizes that would allow them to further refine or pursue their ideas as well as to encourage them to keep aspiring to bring innovation to the food industry.

The funding from Skule™ alumni was key to allow us to host this design competition, and we wanted to give special thanks to Skule™ alumni, because their support has been really meaningful for the advancement of our club. This is only the second year our club has been operating, and Skule™ alumni was one of the organizations that supported us in our inaugural year. Funding from the alumni community accounted for over 30% of the financial resources we had available to plan events in our first year. Alumni funding enabled us to host a variety of events, such as networking sessions and last year's design competition that gave students valuable opportunities to explore and learn about opportunities in the food industry. We were able to describe the positive impact our events had on the Skule™ community, which enabled us to secure more funding for our second year.

The financial support from the Skule™ alumni has been key in allowing us to grow and succeed as a club, and we're very grateful we continued to receive their support this past year. We look forward to grow even more in future years to provide students with even more opportunities to develop their passion for the food industry.



**Chinese Engineer Student Association (CESA)
(Now UTACE)**

Funding awarded: \$4,300

The Association of Chinese Engineers (ACE, formerly known as CESA and ECC) is the oldest and largest club dedicated to promoting Chinese culture to SKULE. In the past forty-two years, executive members have been devoted to creating a welcoming environment for students from any background to learn and practice Chinese culture by promoting diversity in the SKULE™ community. As we developed into a club with more than 20 executive members and 275 regular members, our success could not have happened without the support from SKULE™.

The funding provided by the Faculty of Applied Science & Engineering and the SKULE™ Fund for Education has been of great help to ACE's events. In the past, funds were mainly distributed to venue booking and equipment purchases. For example, it has become our tradition during the past years to host parties that incorporates elements of Chinese traditions to celebrate the Spring Festival. By participating in the activities funded by SKULE™, students were able to learn more about the Chinese culture while releasing their stress in the entertaining activities.

Another important event supported by the funds was the badminton tournament. Cooperating with the SKULE™ Badminton Club, ACE hosts a midsize tournament every year. In the tournament, participants were provided with not only a great chance to learn and enjoy badminton, but also a perfect platform to socialize and make friends with students of similar interests, which ultimately contributed to a more tight-knit community at SKULE™!



Image: Badminton Tournament, October 2015

This year, as ACE is transitioning its foci onto the topics of career and industry, we are envisioning a more prestigious set of professional events with more informative contents. To obtain a head start with full momentum, funding is more important than ever. Most of the funding in the upcoming school year will be utilized to connect with professionals and host relevant events such as workshops, presentation or even career fairs.

2016-2017 is the first year of the recently formed Association of Chinese Engineers. Faced with more challenges and opportunities than ever, the executive team believes in the potential of ACE. Therefore, the funding received from the Faculty of Applied Science & Engineering, SKULE Fund for Education and alumni will definitely be of great help for our growth! We will keep striving to make a difference to the SKULE™ community!



Image: APS hackathon (Fall 2015)

Club for Undergraduate Biomedical Engineers (CUBE)

Funding awarded: \$4,064

In the last year, CUBE has continued to provide members of the Engineering Society with insight into the multidisciplinary nature of biomedical engineering in the form of resources, competitions, and networking opportunities in the field. CUBE has provided members with the opportunity to network with established professionals from various biomedical engineering companies based in the GTA as part of our annual Industry Mixer. We also organized the annual Student-Professor Mixer featuring professors from the four biomedical engineering streams within IBBME: Neural, Sensory Systems & Rehabilitation, Biomaterials, Tissue Engineering & Regenerative Medicine, Nanotechnology, Molecular Imaging & Systems Biology, and Engineering in a Clinical Setting & Clinical Engineering. The presentations and the informal networking portions of the events allowed students to discover their interests and develop connections.

We held our annual Biomedical Engineering Competition (BMEC) with two separate Junior and Senior design challenges for the first time this year. This allowed lower and upper year students to apply the knowledge and skills they gained throughout the academic year to a practical design problem within biomedical engineering. We encouraged a multi-disciplinary approach to the proposed solutions, drawing on the experience of all engineering disciplines. We also provide support for students looking for summer research or thinking about applying to grad school through our Summer Research and Med/Grad School seminars.

Through CUBE we would like to continue educating current undergraduate engineering students on the opportunities and advancements in biomedical engineering. Having been an active club since 1997, CUBE has made strong connections with various academic and industry leaders in the GTA. Professor Christopher Yip and Professor Eli Sone have been our long-standing academic advisors for several years. Our industry partners include Baylis Medical, Kangaroo Group, Tissue Regenerative Technologies, and Synaptive Medical, just to name a few. We utilize the vast network that we have created over the years within the biomedical community to provide the best networking and learning opportunities for our diverse, multi-disciplinary student base. For instance, this year our members had the opportunity to get an inside look into the Synaptive Medical laboratory at MaRS which specializes in minimally invasive robotic surgery.

CUBE constitutes nearly 200 active members (500 members on our mailing list), and is open to anyone at UofT with an interest in the biomedical engineering field. In order to facilitate our members in taking full advantage of these networking opportunities, CUBE conducts seminars where members of our EXEC as well as CUBE Alumni share their experience on applying for research positions, internships and even on graduate school applications. As one of the first biomedical engineering clubs at the University of Toronto, our long-standing reputation for delivering consistent, high-value events from year to year that showcase the biomedical engineering field to undergraduate students sets us apart from other, newer clubs with a similar mandate.

Directorship of Professional Outreach (PrO)

Funding awarded: \$550

The Directorship of Professional Outreach's (PrO) mission is to educate engineering students about policy, and on top of that, to connect students with policymakers so that students can have an impact on today's biggest issues. As such, we organized a policy case competition in partnership with the City of Toronto. The City is currently working on their long term solid waste management strategies. The participants were tasked with developing solutions for waste diversion in high rise buildings. The winning team was awarded with the opportunity to present their idea to the City, and if the City liked it, they would implement it in their plan. On top of this, all the finalists were awarded tours of the green waste and recycling facilities of Toronto. The City of Toronto sent experienced professionals to mentor the teams during the work sessions. Judges were brought in from the City of Toronto, OSPE, and UofT's Faculty of Public Policy.

The funding received was used to book the venue, buy gifts for the participants and judges, provide materials for the case, and to buy food for the attendees. The funds received were an integral part in providing students at Skule™ with an opportunity to interact with professionals leading in their fields. Furthermore, this was an exciting opportunity for students to have a positive impact on Toronto.



Engineering World Health (EWH) University of Toronto (UofT) Chapter

Funding awarded: \$3,100

Our group, Engineering World Health (EWH) University of Toronto (UofT) Chapter, is a student-led organization that was established in August 2014. Our goal is to inspire, educate, and empower the engineering community to improve health care delivery in low- and middle-income countries.

The 2nd annual Engineering World Health Symposium took place on February 22nd 2016 at the William Doo Auditorium, located on the University of Toronto's St. George Campus. The theme of this year's event was "Engineers as Global Health Interdisciplinary Team Players", and had a strong focus on the role of engineers and the importance of interdisciplinary collaboration for tackling global health problems. The Symposium attracted over 100 attendees from a variety of fields including engineering, global affairs, pharmacy, public health, and nursing.

The Symposium featured a lineup of fantastic speakers, lively panel discussions, and a poster session. Multiple speakers placed a particular emphasis on the importance of identifying genuine needs and building sustainable solutions based on awareness of context and environmental constraints.

It was an enlightening experience to witness the breadth of research being conducted in the global health sphere. Regardless of our scientific backgrounds, we are all united in the belief that we can and must improve the quality of healthcare worldwide.

The poster session gave students an opportunity to showcase their research and interact with attendees from differing backgrounds. It was wonderful to see the genuine interest in global health work and to observe the innovative research being performed at the University of Toronto.

At the conclusion of this year's Symposium, we've grown to appreciate the immense support for global health initiatives within the University of Toronto community. We hope to expand the outreach of this event to more departments at U of T, but also to encourage collaboration with neighbouring universities and organizations.

Egyptian Student Association

Funding awarded: \$250

The funds that the Egyptian Student Association (ESA) received this year were used to hold several social and sporting events to help create a closer social community for engineers at UofT. For example, we held two very successful squash tournaments and a soccer tournament at Hart House that attracted healthy competition and offered a stress relieving break from studying and exams for the competitors and spectators. ESA also used the funds to hold a stress relieving and social gathering through a games night right before the final exams.

ESA was also able to use the funds to hold an Island BBQ and a trip to Niagara Falls at the beginning of the year to help new members meet new people in the SKULE and engineering community. Along with the weekly talks, the ESA holds sessions called *Culture Café's*, where interested participants are welcome to give talks in any academic or social topics they wish. With the help of the funding the ESA was able to host a talk presented by Moustafa Bayoumi, a professor in English at Brooklyn College, on the topic of *Muslims in America*.

Even though the alumni fund does not represent the majority of our funding, we are very appreciative of the funding we received that helped us run all of our events this year. Thank you.



Image: ESA Squash Tournament

Engineers Without Borders (EWB)

Funds awarded: \$8,450

The funds were used in a couple different ways within the Engineers Without Borders (EWB) community. The first avenue was through supporting over 20 UofT Engineers to attend EWB's National Conference in Hamilton this past January 2016. The second avenue was through EWB community socials where many ideas are passed between EWBers and UofT Engineers on many topics such as international development, leadership, etc. The third avenue is through portfolio specific meetings. These are weekly meetings for members of the specific EWB portfolio to discuss in depth issues in their respective focus, such as Political Advocacy and Global Engineering.

The funds helped create a learning environment outside of the technical knowledge that is learned in the engineering classroom. EWBers have many opportunities to get involved and show their softer skills or teach others their softer knowledge. There are many leadership opportunities that are provided. The funds help to support our portfolio specific meetings that go in-depth into various topics. The portfolio lead facilitates these meetings and plans the topics for discussion prior to the meetings. EWBers are committed to making a most positive and sustainable world and our engineering backgrounds help us to view these issues in a systematic way. EWB creates self-aware systems thinkers that are ready to take on the world!

Without funding from the Faculty of Applied Science & Engineering we would not be able to function. The funds are key to our clubs to maintain success as one of the largest and most influential UofT Engineering student clubs. We plan to grow our club and introduce some new initiatives for engineers to get involved next year with a new system for engineers to take on their own community projects with the EWB UofT name behind them. We hope the Faculty will support us in our growth into these new spaces.



Image: EWB National Conference UofT Engineers



Image: EWB Social (Left to Right: Alex Gulka, Winnie Ma, Sarah Neuenhagen)

Galbraith Society

Funds awarded: \$1,350

The Galbraith Society is grateful to the Department of Mechanical & Industrial Engineering, Chemical Engineering, Engineering Science and Engineering Society for funding us for the 2015-16 school year.

The funding was used to plan and promote research at various events such as UnERD 2015, our Undergraduate Engineering Research Journal launch as well as various GS symposium and GS events. The funds were also used to purchase promotional items such as pens and business cards. These posters and cards were given out to participants and general delegates at events to tell them about the undergraduate journal initiative. This funding has helped us promote the journal initiative amongst undergraduate students. Students had the opportunity to learn about various platforms to get their research published.

One of the main initiatives in which funding was used is the Undergraduate REX (Research Experience Program). REX connected over 30 students to over 10 different projects with professors at UofT. At the end of the year, we organized a final exhibition where the students had the opportunity to present to their peers about their yearlong research project. Appreciation gifts were given to professors and dinner was provided to students of the REX program.

The funding was used to launch our first Undergraduate Engineering Journal. The journal not only promotes research being conducted at the University of Toronto engineering labs, but also helps to raise awareness about the innovative ideas and opportunities that undergraduate students can have access to. The undergraduate journal helps students gain experience whether it is academic writing or editing journal articles to benefit them in the future. The launch was held in September and was a great success.

Our funding sources have helped our club grow professionally, which is very important when attracting students to publish in our journal as well as enroll in our Research Experience program. Finally, a part of this funding will be used to host a transition dinner to thank the current executive team as well as to welcome next year's team. We greatly appreciate your support. Thank you for helping us with our vision.

Global Engineering Design Association (GEDA)

Funding awarded: \$1,339

Global Engineering Design Association (GEDA) is an organization dedicated to providing technical solutions to global issues through the utilization of the engineering design process while spreading awareness. This vision guided the events organized throughout the 2015-2016 academic year. The success of these events was, in part, due to the Faculty of Applied Science & Engineering and Alumni Office funding.



The attendance at this year's events was significantly increased through providing refreshments. Providing food and drinks contributed to the overall enjoyment of the attendees while encouraging their involvement in GEDA. One of the key events where refreshments were provided was a documentary viewing that focused on analyzing the current North American engineering education system. This event took place on March 10th, 2016. The documentary was followed by a Q&A session with engineering faculty and student representatives. Approximately 50 students

attended the event. In addition to the refreshments, GEDA's funding was used to purchase tokens of appreciation for the panel members. A clear interest in engineering education was evident through students staying after the event in order to further discuss the subject with the panel.



Image: After the documentary Q&A session with some of the attendees, the GEDA Executive Team, and members of the panel.

Other events where refreshments contributed to the overall atmosphere included competition information and design critique sessions. These sessions were hosted for the purposes of spreading student awareness regarding global issues while encouraging application of the engineering design process. The major competition GEDA participated in this year with engineering students was the HULT Prize, the largest social entrepreneurship competition in the world. The University of Toronto round for the HULT prize took place on December 6, 2015, where four GEDA teams registered for free and participated. In addition,

GEDA also had one team participate in the Innovative Designs for Accessibility (IDeA) competition.

Hacker Academy

Funding awarded: \$1,400

Hacker Academy would like to give thanks to the Faculty of Applied Science & Engineering for the club funding for the 1T5-1T6 year. This year, we brought 14 independent events and 1 collaborated event with another student club to our students and the engineering student population at large. In total, our events attracted over 100 in student attendance from many engineering disciplines to learn, share, and discuss about technology. We also hosted a website where 6 software technical challenges were posted for interested students. Our events were in part made possible by funding from the Centralized Process for Student Initiative Funding (CPSIF) to spread the club's message, prepare the events, and to attract students.

In 13 of the 14 independent events, as well as the collaborated event, industry speakers, professors, as well as students were invited to give talks on technology, where we mostly used the funds to offer catering to the presenters and students, and to disseminate posters advertising the club's events and website. A speaker was purchased in order to broadcast a remote industry talk as well. These talks ranged from a pure technical content such as Python and Bash to high-level ones such as entrepreneurship for seniors and enterprise environment monitoring, and encompassed the breadth of what we consider "technology". This attracted students both with academic interests as well as entrepreneurial interests. One of our best talks was given by Ding Yuan, a professor here at the University of Toronto on "Writing Code that Works in Production", which many students gave feedback on as a good event. Through this event, students were able to learn about a professor's research focus, a stepping-stone to professor-student collaboration. Furthermore, several of the talks were given by students and recent graduates, helping to strengthen their communication skills, share experiences, and develop connections here on campus.

A programming competition was also hosted, where students competed in a coding challenge to win prizes. The attendees were enthusiastic about the event, and we, as executives, also learned about what makes a good programming competition. Funds were used to purchase competition prizes in order to attract students and create a competitive environment to excite and encourage students.

This transition year's attendance was lower than what we had hoped, however, the executive team has learned invaluable lessons, and is enthusiastic about what we can do to improve for next year. Again, Hacker Academy would like to thank the Faculty of Applied Science & Engineering for its funding.

University of Toronto High School Design Competition

Funding awarded: \$700

The funds were used to buy materials for Hi-Skule's annual University of Toronto High School Design Competition (UTHSDC).

UTHSDC is an opportunity to showcase the engineering profession and learning environment, while fostering a passion in students for design, innovation, and critical thinking. This year, over 300 hundred high school students from across the GTA competed in UTHSDC. The task was to create a device that could lift supplies up steep hills in developing nations.

Students competed in groups of five, and each group was given \$50 to buy the necessary materials for their designs. The money from the Faculty of Applied Science & Engineering was used to fund these reimbursements.



Human-Powered Vehicle Design Team

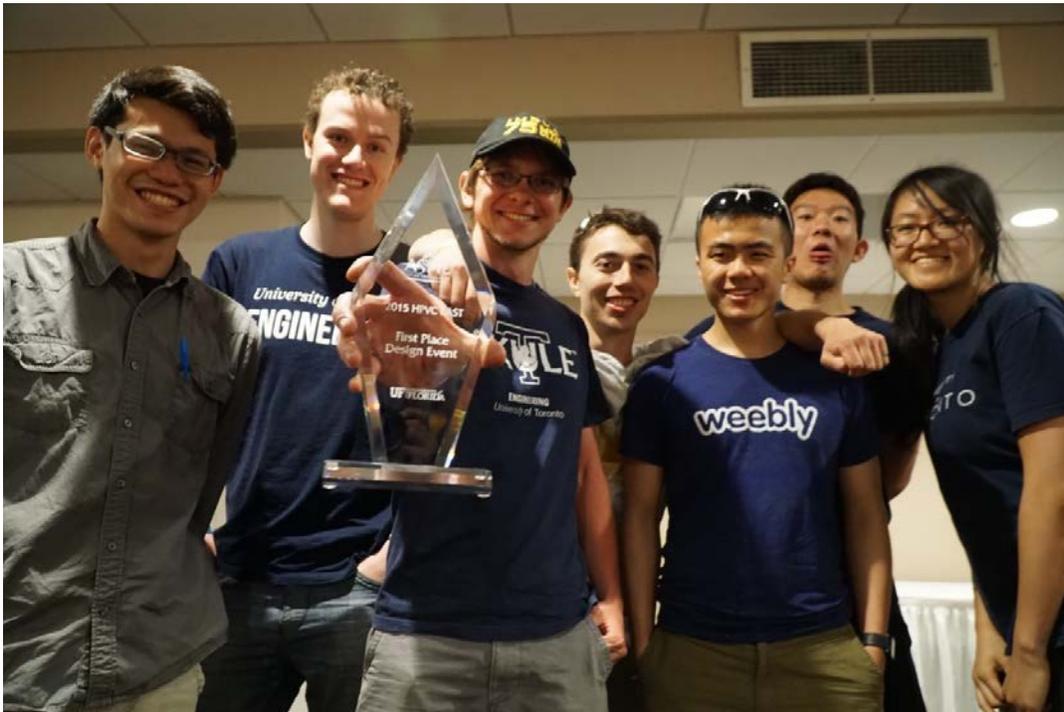
Funding awarded: \$2,250

The Human-Powered Vehicle Design Team (HPVDT) is a student organization at the University of Toronto that is focused on the design and construction of innovative, high performance, human-powered vehicles (HPVs). This year, our membership has expanded substantially, which enabled us to have more projects on-going in parallel than ever before.

Our projects this year include two human-powered land vehicles, a human-powered submarine and early stages of a human-powered aircraft. Each year, we build land vehicles to participate in two main events - the World Human-Powered Speed Challenge (WHPSC) at Battle Mountain, Nevada, and the ASME Human Powered Vehicle Challenge (HPVC). The WHPSC is an international event in which teams from around the world gather in the flat desert of Nevada in attempt to break the human-powered land speed record.

Since the summer of 2015, the team has been working on Eta Prime, our most technologically advanced land vehicle yet, which we will be bringing to Battle Mountain in September 2016. Currently, the vehicle is in its final stages of construction, and we will be finalizing and refining it, as well as taking it to a velodrome to get ride time in it throughout the summer. The ASME HPVC is a university-level competition in which student groups from across the continent participate. This event is focused on vehicles that are not only fast and efficient, but also practical for urban commuting. University of Toronto has always been a top contender in this competition. In 2015, our team placed 1st in the Design event, and 5th overall out of 33 entries. This year, our goal has been to build the best vehicle that we can build by consolidating what we have learned in the past 6 years of participating in this event.

The human powered submarine is a new challenge that the team has taken on this year. So far, we have made significant progress on the design, and plan to start construction very soon to have a vehicle ready to be tested by the end of the summer. This vehicle has a set of substantially different design requirements and criteria compared to our past projects. The goal of this project is to not only set various human-powered underwater records, but also to exercise a different design approach and to thoroughly understand the design cases.



Industrial Engineering Club (Indy Club)

Funding awarded: \$4,000

The Industrial Engineering Club (Indy Club) is extremely thankful for your contributions to this year's Indy Club funding. The funds were used to enrich the academic and social experience of industrial engineering students across all years.

This year, Indy Club introduced a series of events called "Indy 101" as a way of introducing first years to industrial engineering and help them find their path in Skule. As is tradition, Indy Club also provided the student body with an amazing dinner dance in the fall to relax and socialize with others, as well as social events to celebrate Halloween and the Holidays. In the spring, Indy Club ran a mental health and wellness event involving colouring, bubble wrap and puppies to help students relax during midterm season. The club also held a Valentine's Day social, threw an Iron Ring party for the graduating class and co-hosted the MIE Coffeehouse. In terms of academics, the club held a live anti-calendar for 1st years, COS Info sessions for 2nd and 3rd/PEY years, and a summer job and PEY student panel to help students trying to find summer and full-year internships.

The funding provided impacted more than 400 students by allowing us to run all of the events mentioned above and even more! Year over year, your funding provides the club with a consistent source of capital that enables us to continue helping students and throwing better and more innovative events. Thank you for all your help! We really appreciate it.



Image: MIE Dinner Dance 1T5 - (from left to right, top then bottom):

Linda Leung, Lauren Ip, Krysten Szatan, Mariana Gomez, Anitha Jeremiah, Jade Khiev, Bianca Rosiak, Areeba Zakir, Ryan Lalonde, Krystle Pang

iGEM Toronto

Funding awarded: \$1,200

Funding received was spent on equipment and materials (wood, piping and pvc) needed to construct the designed bioreactor for the iGEM Toronto 2015 project called “A Genetically Engineered Solution for Oil Sand Tailings: Enhanced Bioremediation by Toluene Degrading Bacteria”.

The bioreactor prototype aimed to illustrate how bioremediation of oil sand tailings can be achieved efficiently by incorporating synthetically engineered bacteria trapped within the membrane by addressing to potential ethical concerns. iGEM Toronto had registered to the iGEM 2016 Giant Jamboree with the help of funding received from IBBME Department .

The Jamboree involvement included 280 teams from more than 30 countries. In the Jamboree, we showcased our bioreactor prototype via poster and slideshow presentations along with our project. Designed prototype attracted attention from the Jamboree audience and judges and received a nomination for “Best Applied Design” Award. Overall in the competition, we received a silver medal at the iGEM Giant Jamboree in Boston and nomination. Our project was also featured in Varsity articles: <http://thevarsity.ca/.../uoftwinssilverat-international.../>



Image: (from left to right) Pavel Shmatnik, Tim Lee, Umar Owadally, Katariina Jaenes, Ghazal Haddad, Randy Rettberg (President of iGEM HQ), Christine Byrd, Shival Barot, Seray Cicek, Joanna Dowdell, Anthony Zhao and Dawood Cheema

ILead:Grad

Funding awarded: \$2,700

The Institute for Leadership Education in Engineering's graduate student working group (ILead:Grad) is grateful for your support! With your help, we were able to plan ten events over the past school year. Your funding helped us run a variety of interactive workshops and seminars from distinguished guests: we hosted Toronto's City Manager, Peter Wallace, who gave a talk on public policy; we brought in four engineering Ph.D.s who have found success in industry, and ran a panel discussion on transitioning from graduate school to the working world; and we planned an interactive entrepreneurship event where students pitched their own business ideas.



Image: Students getting familiar with new introductions at an ILead:Grad networking event.

These events helped graduate students across the Faculty of Engineering develop skills that aren't necessarily taught in the classroom, but are nevertheless essential to life after graduate school. Your funding helped us secure these speakers and workshop facilitators. Without your help, we would not be able to offer the high quality of workshops that we have provided this past year.

ILead:Grad looks forward to continuing the development of the engineering graduate students across the Faculty. We will continue to provide engaging seminars and workshops, in order to help each student realize their leadership potential both during and after graduate school. With your help, we are on the way to creating a new paradigm for leadership in engineering. Thank you again for your support, and for your continued belief in leadership as an integral part of engineering education.



Image: ILead:Grad Co-Chairs Aric Pahnke and Nazanin Orang with Professor Doug Reeve and City Manager Peter Wallace

Ismaili Students' Association

Funding awarded: \$300

The Ismaili Students' Association (ISA) is an organization dedicated to developing the physical, academic, social, and cultural well-being of post-secondary institution members at the University of Toronto, St. George Campus (UTSG). ISA executives are elected leaders, representatives of their constituency, and representatives of the Association to the wider campus community. The Ismaili Students' Association aims to bring together not only students in the Ismaili community to gather and share knowledge but also others to learn more about practices and partake in network, social and cultural events.

The funds were used to support the ISA's regular programming. The organization's most significant event was the annual end of term formal held on March 26th, 2016. Networking social events for members were also held twice weekly after meetings where tea and snacks are served. A larger social event was held on at least one evening per week where dinner is served. These incentives allowed students to partake in discussions that are based on academic research, politics, religious topics and technology. With the help of CPSIF funding we were able to regularly hold accessible events for the benefit of our community.

The ISA's initiatives have been successful in building a community for all members including a strong sub-community of engineering students and alumni. The ISA holds meetings for prayer and reflection every Monday-Thursday evening at the Multi-Faith Centre at UTSG. It also engages the broader post-secondary student community in the province by representing the university in other outreach events such as the Ultimate Mind Challenge Trivia Contest in Waterloo, Skits Night at McMaster, and the Post-Secondary Games in London.



Multidisciplinary Analytical Kinesthetic Education (M.A.K.E.)

Funding awarded: \$650

M.A.K.E. aims to apply scientific concepts relevant to first year engineering curriculum to practical projects. We hold sessions covering multidisciplinary engineering topics, providing students the opportunity to learn principles behind real world applications by building prototypes. We also focus on the design aspect of engineering, an important skill usually under-emphasized in a classroom setting. Through our events, engineering students will gain a better understanding of each engineering discipline as well as realize the applicability of their first year engineering education at U of T.

The successful operation of our club and our events is dependent on the hard work of our executive team comprising of Technical Leads and Administrative Directors. Technical Leads design the events, and the administrative team helps the Technical Lead turn his/her project design into an event by supporting with budget, funding, marketing and logistics. Funding from the various departments is vital in the feasibility of our events. We are sponsored by departments across the Faculty of Engineering, and would like to thank the Faculty of Applied Science & Engineering for its contribution that helped M.A.K.E. run two of the events that enhanced students' engineering experience.

Funding was used to pay for the materials required to run our Cryptography and AC (Alternating Current) Generator events which took place on November 8, 2015 and February 25, 2016, respectively. Cryptography is the study of encryption and decryption of data. Almost all important information transferred on the Internet, such as your online banking, uses cryptography to ensure security and privacy. The participants programmed an encryption and decryption script in MATLAB using linear algebra knowledge they learned in their first year core courses. AC is the primary form of electricity used in today's world. At the event, the participants designed a working prototype of the AC generator. The event challenged the participants to use their scientific knowledge in design, a concept resonant with core of engineering education.

During each event, we begin with a "lecture phase" where the technical lead of the event explains the concepts and course material. Then, the main part is the "building phase" which involves members cooperating and socializing while creating. After the event, members can choose to take their creations home!

The events of this year include:

- Annual General Meeting: Introductory meeting with an icebreaker challenge of spaghetti-and-marshmallow towers
- Electric Swing: A simple wooden swing is built, with a "swinging" motion controlled by Hall Effect sensors. Pendulums and magnetic fields are briefly discussed.
- Tensegrity: Straw and Rubber band models are created, followed by a discussion of engineering-related applications of tensegrity.
- Magnetic Levitation: A magnet is suspended between two sheets of graphite. Paramagnetism and diamagnetism are explored.
- Cryptography: MATLAB is used to introduce basic cryptography and practice programming.

- AC Generator: Students are challenged to apply their knowledge of magnetic fields and design a generator.
- Piezoelectric Crystals: With cream of tartar and other simple ingredients, students use chemical reactions to create their own piezoelectric crystals in the lab.
- H-Bridge: Ending the year with the most popular event – students are provided breadboards, wires, transistors, motors and more to build their own h-bridge! Ohm's law and transistor theory is discussed.



Image: AC Generator Event

Mechatronics Design Association

Funding awarded: \$4,250

The Mechatronics Design Association made full use of the \$500 allocated to us by the Engineering Alumni Association this year. The funds were used specifically for the rental of various pools in the University of Toronto Athletic Centre to test our autonomous underwater vehicle (AUV) and its functionality. We have conducted leak and depth tests to verify the practicality of our submarine's design, as well as tests of our vision algorithms and AI to ensure that the AUV functions as intended.

These pool tests, and the funds that make them possible, are essential to our success as a club and a representative of the UofT community at the International RoboSub Competition in San Diego. They allow our members to have hours of practical hands-on experience running and maintaining the AUV for a better performance at the competition, as well as an opportunity to apply classroom knowledge to real-world project in a way that few other University of Toronto clubs can.

The funding from the Engineering Alumni Association is incredibly important to our group, since we constantly strive to cut costs in other areas of our budget for the sake of more pool testing. The generosity of the Alumni Association this year has given us many extra hours of pool time, which translates to a significantly improved AUV to showcase at the RoboSub Competition. Attached is a photo from one of the pool tests made possible with this funding.



Mechanical Engineering Club

Funding awarded: \$3,750

The Mechanical Engineering Club is extremely grateful for the generous donations from the Faculty of Applied Science & Engineering and the support of the Engineering Alumni Association. The funding has been essential in running many of the larger events throughout the year as well as allowing us to create Mechanical Engineering based merchandise including T-shirts and Scarves.

There were 3 major events that were run this year with the help from your funding.

- Dinner Dance – This year MIE’s annual dinner dance was extremely successful and especially cherished as this commemorated the 125th graduating class from Mechanical Engineering. Over 300 students attended as well as many faculty members. The MIE faculty were later also presented with a bounded book filled with comments and stories from all the students who were at the dinner dance about their positive experiences with the Faculty to show our appreciation for everything they have done for us and acknowledge all their hard work through the year.
- Industry Night – This year, Mech club took on a new initiative to host a Mechanical Engineering specific industry night. A number of industry professionals were invited to a mixer so students could meet professional engineers in the industry and network with people they could potentially work with. The event was held in the Center for Social Innovation which had a relaxed café atmosphere which separated from a career fair type event. The event was a success and all of the industry professionals showed interest in coming back for future years. We hope to continue running this event in future years and expanding by inviting more industry professionals and increasing student turnout.
- Coffee House – MIE holds an annual coffee house which includes a night of entertainment showcasing the talents of students in a series of performances plus free food and drinks for all in attendance. This night was a hit with 15 performers and over 100 students dropping in to enjoy the performances.

The funding received, helped meet the expense of locations, merchandise, decorations and food. These incredible events would not have been possible without all the support we received. On behalf of the Mechanical Engineering Club, I’d like to thank the Faculty of Applied Science & Engineering for all their contributions.



Image: (Left to Right) Hema Nookla, Milan Yang, Kunal Taneja, Sourabh Das, Balavignesh Krishnamurthy, Alice Wole and Ashley McIlvena



Image: Industry Night

Muslim Students' Association

Funding awarded: \$910

The Muslim Students' Association is very grateful for the continued funding support of the Engineering Society and Skule™ for allowing it to cater to the intellectual, spiritual and social needs of Muslim students by building a cohesive and unified community on campus and by providing opportunities for leadership development within MSA's student body. A significant part of our membership consists of engineers which also form part of the Skule™ community.

This year we used EngSoc funding to hold some exciting events. Our Annual Islamic Awareness Week was truly enhanced by the usage of the funds. Our first event discussed the empowerment of women in Islam and we invited famous guest speakers and held a Q&A Session. We also organized inter-faith dialogue to bring together different sects of Islam to unite against this negative political atmosphere and advocate for peaceful measures. Our event in the Bahen where we distributed cookies and sweets was very well attended as we encouraged people to write what made them smile and whether they had any questions regarding Islam. Our last event of this week was a documentary screening of *Prison Blues* which was a discussion on race, faith and the state. It talked about how the majority of inmates are finding faith in the vicinity of jails. Overall, this week really displayed unity among the community and called for thought-provoking discussion of the issues facing our community today.

Another event in which EngSoc funding came into play was during the Orphan Sponsorship Program's (OSP) first ever *Uniting for Hope* campaign, where funds used went to the materials that were purchased, from food and serving items. This campaign was held to raise awareness of the mission of the OSP and its service to orphans. We also collaborated with other clubs on campus to raise money. We can proudly say that as a result of EngSoc and Skule™ efforts, the OSP was able to raise over \$85,000 from its donors as well as winning 2 awards for the people's choice for the best club on campus and a community action award.

These are just some of the very thrilling events that we held this year. I sincerely hope that EngSoc and the Skule™ community continue to show their undivided support to the MSA in the coming years so that it may continue to remain active and serve the community at large.



Image: Discussion of Islam in the Academia and Sciences

Ontario Water Works Association

Funding awarded: \$900

Ontario Water Works Association held a documentary screening of the film, *After the Last River* in collaboration with the Toronto Water Docs Festival. The film was followed by a panel discussion with the Minister of the Environment and Climate Change (MOECC), Glen Murray; the director, Victoria Lean; and the First Nations representative, James Carpenter. The event held during World Water Weekend was meant to bring awareness to global water issues. The outcome of the event was very positive. The audience had a number of questions regarding mining activity, First Nations communities, water, environment, climate change, and filming. The panel discussion lasted over an hour. There were about 200 people that attended from all different backgrounds. We talked to students from the departments of Engineering, Political Science, Geography, and Environmental Sciences. The event was open to all audiences and a number of people not affiliated with U of T were also in attendance. The funding from the Faculty of Applied Science & Engineering was used in addition to funds obtained from other funding partners namely, UTERN. Specifically, the funds were used to cover the movie screening costs and made it possible for us to run such events smoothly without worrying about expenses.

We felt that people were very interested and passionate about these environmental issues. We also offered food along with a free screening of the movie. The film is based in Attawapiskat's community in the Northern Ontario and we think that it made people think about First Nation issues and the importance of water in these people's lives. It is really a great starting point for people in Toronto to learn about issues being faced by disadvantaged communities across Ontario.

We booked the room a day before to check the AV equipment. It was a good thing that we did because we had some technical difficulties initially setting up. The actual event ran very smoothly – no technical difficulties. The panel discussion also went very well. The audience was very engaged and we had to cut off the audience at one point because there were too many questions. We realized the amount of work that goes into organizing an event. It is extremely important to work as a team and important to work/collaborate with other groups as well.



Image: Minister of the Environment and Climate Change and the OWWA-Executive Committee



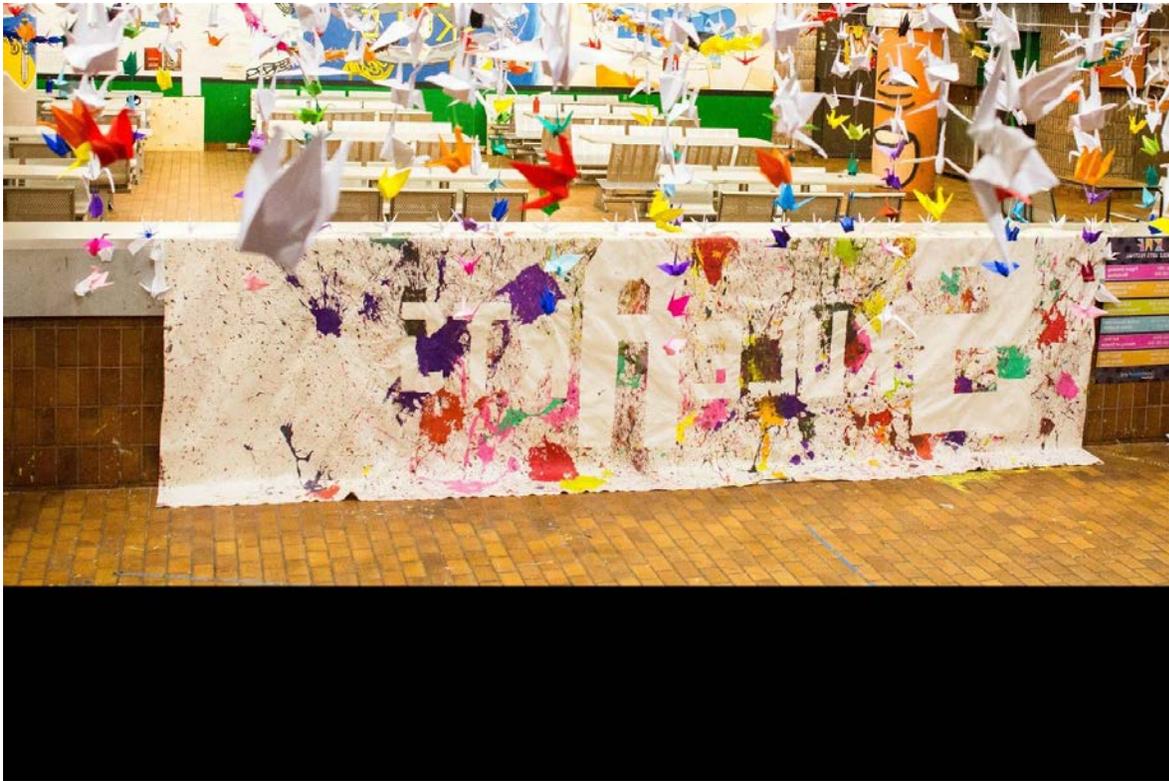
Image: Auditorium during the panel discussion

Skule™ Arts Festival

Funding awarded: \$1,350

The funding Skule™ Arts Festival (SAF) received went towards purchases made for the Skule™ Arts Festival and various workshops scheduled throughout both terms, including but not limited to: posters for SAF events, clay for the clay sculpting workshop, paint for painting workshops, cardstock and stationery for the card making workshop, matting board to mount arts pieces for the exhibits, renting musical instruments and buying refreshments for the Skule™ Arts Festival Coffee House. SAF used these materials to help foster creativity in our members providing them an opportunity to destress and learn new artistic skills. SAF has received great feedback from the Skule™ community regarding the annual Skule™

Arts Festival. Students and faculty have approached SAF saying it is great to see a display of engineering students' creative side. An OCAD student even said "Wow, I didn't know engineers could paint like that!". A faculty member even approached an artist to discuss purchasing their piece.



This year, an installation piece was displayed in the Sanford Fleming Atrium during Skule™ Arts Festival Week as a SAF tradition. The installation consisted of over 1000 paper cranes that were folded by the engineers of Skule™ and the U of T Origami Club, UTFold. This helped to make the SF Atrium vibrant and lively. This also helped bring students together as everyone participated in crane folding for a week leading up to SAF week, when all the cranes were put together into one colourful installation. During the annual Godiva Week, SAF held a paint balloon throwing event in order to decorate the 'Skule™ Arts' banner. Engineers from multiple years and disciplines were invited to throw paint-filled balloons at a large canvas. Over 100 students participated in the event and the banner has accompanied Skule™ Arts Festival to several club fairs and events. It allowed us to host workshops to engage students

with broad interest ranges from collage making, sculpting, and painting to figure sketching, photography, and engineering drawing. Overall, SAF had one of the most successful years yet.

Skule™ Dance Club

Funding awarded: \$270

This year, the funds for Skule™ Dance Club (SDC) helped to foster an even larger community of student dancers at UofT than the previous year. Specifically, funds were used for pizza at our annual general meeting and member T-shirt subsidies. Through this support, SDC was able to recruit even more dedicated student dance instructors, thereby enhancing the quality and variety of our weekly free dance practices to members and providing professional development for the student dance instructors. Along with free dance practices, SDC took part in increasing the profile of the Faculty of Applied Science & Engineering through many performances throughout the year, such as Skule™'s Got Talent, DBattle and 8-Ball. Furthermore, funding for T-shirt subsidies were important in both member retention and Faculty/club promotion, ultimately providing SDC with the support it requires to continue building a passionate community of student dancers at UofT through free classes and enhancing the overall student experience.



Skule™ Stress Release

Funding awarded: \$300

Our club is called Skule™ Stress Release. We aim at helping students effectively manage and release their stresses by holding small and frequent events. It is very kind of the Faculty of Applied Science & Engineering to provide our club the funding. We used the fund for three projects primarily this term, which were Movie Night, Panda Hug, and Dodgeball.

As a new club, after finding out that borrowing a projector from school is very costly, we decided to invest in a second hand projector, considering the projector can also be used for future events. As for the movie night itself, we showed the “Homeless to Harvard”, which is an inspiring movie. People who came found it very interesting and memorable. We also spent a small portion of the funding buying drinks and chips for the viewers. As for the next event, we are considering showing silent funny movie clips, well-known funny/ inspiring movies. The projector is very useful and important to make these events happen.



On March 8, 2016, we decided to provide the Free Panda Hug and candies right outside of the exam centre building, right before the Calculus exam for first year engineering students. As one of the executive members participated in this event, I really felt that this event had delivered to engineering students much support and happiness, especially helpful in allowing them to release stress right before the exam.



For the Dodgeball Event, we bought four pillows for the events to create a new role in the game called the guard, which makes dodgeball much more interesting.

These events would be less likely to be held without the support from the Faculty of Applied Science & Engineering. Again, we very much appreciate the funding provided to us.

Skule™ Stage Band

Funding awarded: \$2,450

Stage Band is an ensemble of 27 members in total, composed of mostly engineering students who are interested in playing jazz. This year, Stage Band will be more than 32 years old. This year's funds were used to cover any immediate expenses that incurred when playing at a venue. This year, we had the opportunity of playing at the Engineering Science Dinner Dance, Cannonball, Gradball, and Suds. This included fees for transportation (cabs in particular) and food to feed band members after the gig. These were extremely important in getting to venues and keeping the performers fit for performing. With the funds, we were able to play at various Skule™ events such as the ones mentioned above, and were able to contribute to the enjoyment of fellow Skule™ members. In particular, we are proud to share that alumni of Stage Band from years before have approached us at gigs (Grossman's Tavern) and on social media to share their fond memories of when they were in Stage Band. Faculty funding is important to us for two reasons: the first reason being that it is our only source of immediate income. Other sources of income could take weeks or even months for us to obtain since the payment has been incurred, and this would put a strain on the personal accounts of finance executives. Secondly, we also value the support of the Faculty and alumni in our mission of improving the Skule™ community by providing music to the community and providing musicians in engineering an opportunity to continue playing.



Society of Petroleum Engineers

Funding awarded: \$2,550

The Society of Petroleum Engineers University of Toronto Student Chapter (SPE), as the only existing student organization dedicated to the Oil & Gas industry at the University of Toronto, provides support to students who are interested in exploring careers in the Oil & Gas industry and continuously maintains and build relationships with various organizations from the industry to bridge the connection between students and the industry. The funding SPE receives is fully-utilized on organizing and running various types of events throughout the school year.

During the 2015-2016 school year, SPE has organized two social events and an annual general meeting to welcome and engage all student members. We also hosted a PEY coffeehouse which offered students who are interested in or have worked in the Oil & Gas industry to network, and a career info session with ShawCor. Furthermore, the SPE hosted the inaugural Energy Symposium this March at Hart House, which brought the current President of the Society of Petroleum Engineers International organization and other industry professionals from Calgary to present to and network with students. SPE also contributed to the engagement of engineering students in Oil & Gas competitions such as the PetroChallenge held in December, 2015 where two winning teams received job interviews with two sponsoring companies and travelled to Houston to participate in the North American PetroChallenge. The SPE is also currently sponsoring a team of students to participate in the PetroBowl competition in Houston this coming April. Finally, although we do not distribute the funds, our student chapter's presence at U of T means that every year the SPE Calgary Section provides thousands of dollars in scholarships to our members.

As the global Oil and Gas prices continue to remain low, funding has become increasingly important to the SPE in order to keep organizing various events, sponsoring competitions, and providing support to students as mentioned above. The SPE team would like to strongly thank the Skule™ Fund for Education and the alumni for providing this fund. In 2014, according to Clean Energy Canada, there were more individuals directly employed in the renewable energy sector than in the oil sands. The importance of encouraging students to seek career pathways in sustainability cannot be understated.



Image: Inaugural Energy Symposium this March at Hart House

Solar Ambassadors U of T

Funding awarded; \$500

On Wednesday March 23rd, 2016, the Solar Ambassadors U of T team under the leadership and vision of Farheen Ahmed (MSE 1T8), a team which bridges students to the solar industry, hosted a Sustainable Careers Conference to forty students. This conference was funded partially by the Department of Chemical Engineering and Applied Chemistry.

Funding was spent on organic food from Harvest Noon for a networking luncheon, marketing material to promote the conference to the Skule™ community and workshop material for guest speakers. The funding spent on the networking luncheon allowed students to engage with guest speakers about career planning and gain advice on how to move forward with a career in sustainability. Speakers gave students an opportunity to learn about their experiences starting and moving forward with a career in sustainability and to become motivated. Through the networking luncheon, students saw day-to-day efforts to improve sustainability such as the organic-only food at Harvest Noon. Guest speakers leveraged resources to deliver insightful presentations. For example, GM Motors' Sustainability Programs Manager Simon Guan (Chem 0T9 + PEY + MBA 1T2) used chart paper, sticky pads and markers for a workshop on career planning. After dividing forty attendees into three groups, Guan gave each group a job description: one for an entry level job, one for a middle-career job and one for an advanced job. Attendees brainstormed different skills they would need to succeed in each job as a method of short-term and long-term planning. Students reported that the workshop gave them an insight into career planning. The funding was important to us in our ability to show credibility to students when promoting to them and its role in connecting students to different industries and professionals in sustainability.

Through the conference, students successfully learned to start career pathways in sustainability-related sectors and to plan their careers. In the next year, the Solar Ambassadors team will build upon its success at this conference. The U of T Solar Ambassadors team is grateful to its funders, including the Department of Chemical Engineering and Applied Chemistry, for financing the 2016 Sustainable Careers Conference. In 2014, according to Clean Energy Canada, there were more individuals directly employed in the renewable energy sector than in the oil sands. The importance of encouraging students to seek career pathways in sustainability cannot be understated.

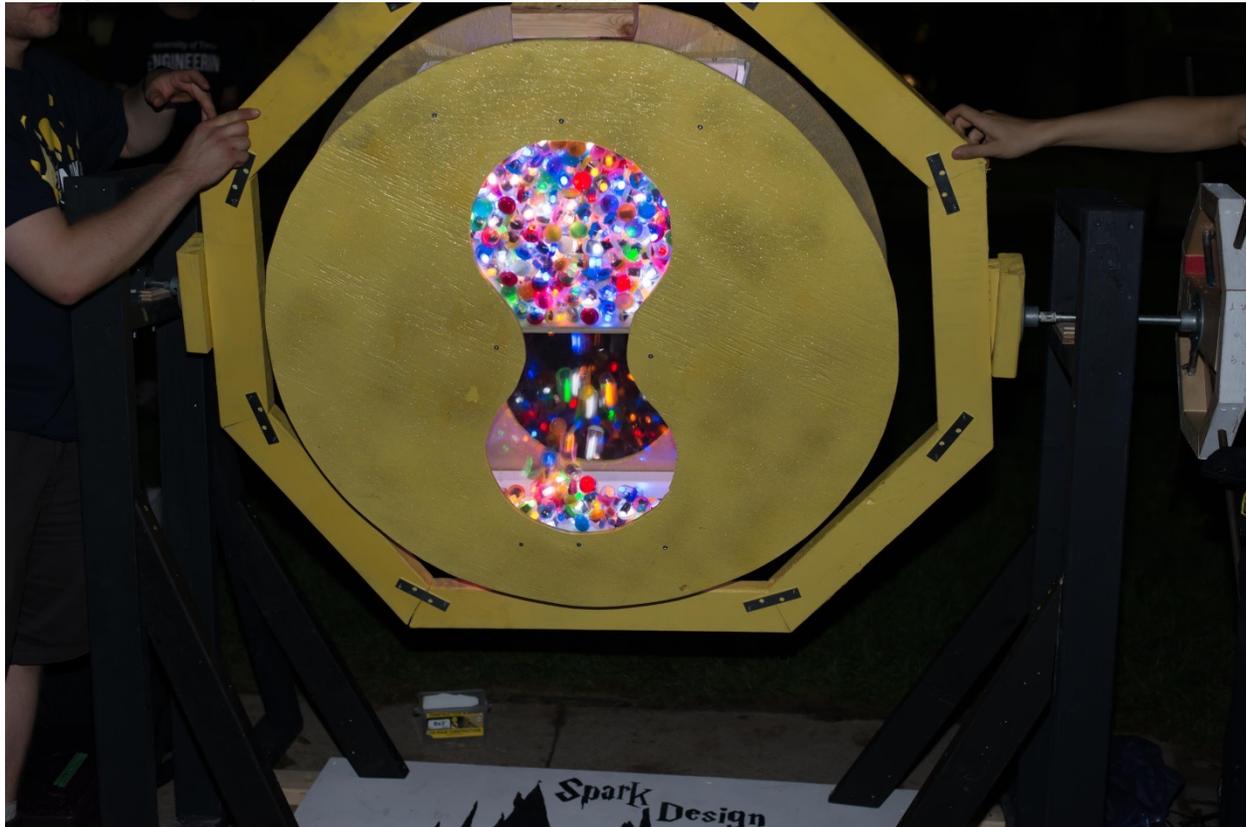


Spark Design Club

Funding awarded: \$2,800

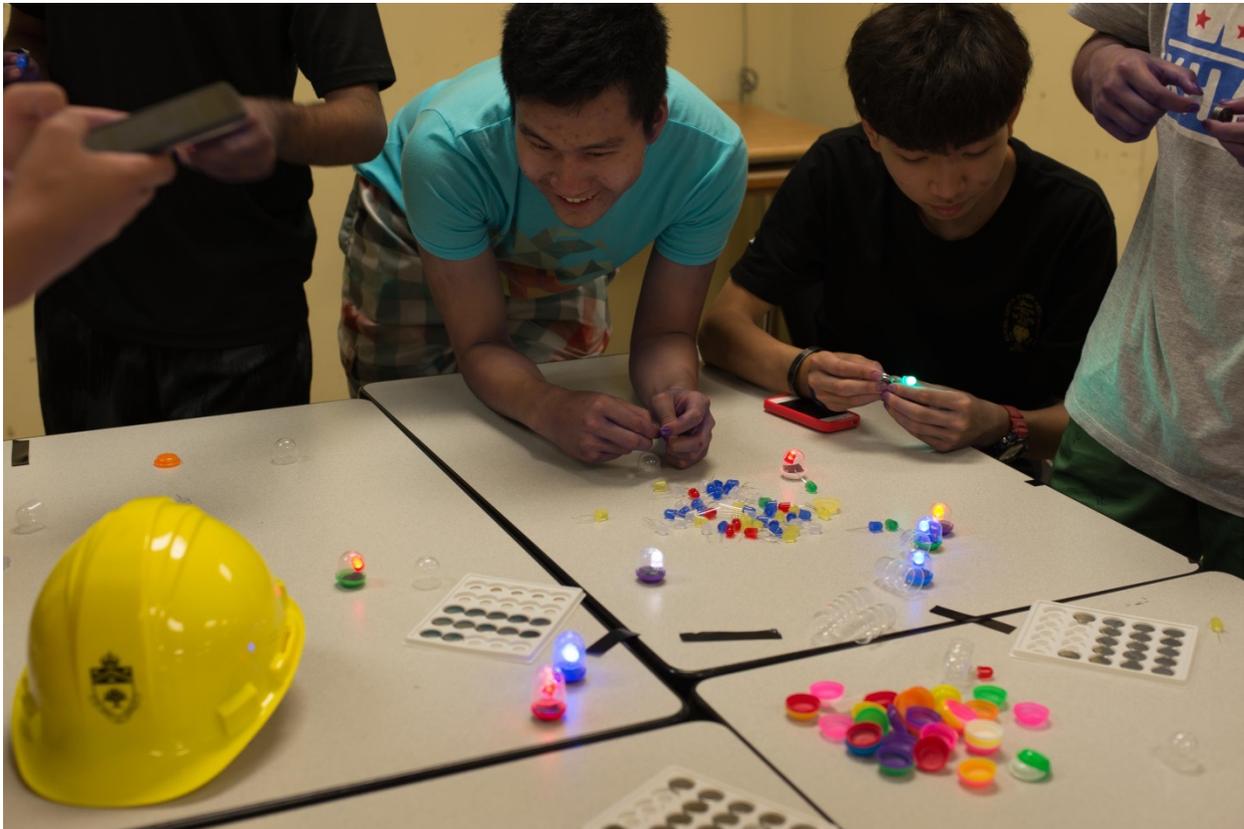
The Spark Design Club has grown considerably over the past few years, and thanks to the Faculty of Applied Science & Engineering's contributions, we continue to make a strong impact on the Skule™ community. This year, we were honoured to receive the Engineering Society's Affiliated Club of the Year Award. This would not have been possible without your generous support. Spark continues to engineer interactive electromechanical displays around campus. We host workshops where any and all interested students are invited to come together to help build our projects. We believe that this experience working on a largescale project is an invaluable way for students to learn hands-on engineering skills.

In 2015-16, the money provided to Spark allowed the club to fund four different displays (including our 4th annual F!rosh Week display). Additionally, the funds supported Spark's 3rd annual Solidworks Design Contest, and allowed us to invest in tools to increase the quality of our future displays. Our 4th F!rosh Week display this year was a giant Time Turner to celebrate the F!rosh theme of Harry Potter. The project was a human size, rotatable hourglass structure, filled with a thousand LED capsules in place of sand grains. Over 100 F!rosh showed up to help complete the display and witness it come to life! Club funding was used to purchase materials for this project.



During the remainder of the school year, Spark built three new exciting displays around campus: Reactive LEDs, Pendulum Wave, and a Musical Switchboard. With the funding provided, Spark purchased the necessary materials and tools to allow Sparkers (participants) to help complete the displays during our traditional workshops. Sparkers were mentored by members of the Spark team and were taught hands on skills such as woodworking, soldering, and electrical/mechanical debugging. Sparkers were taught how to interpret schematics and cut pieces of wood; they also learned to read circuitry diagrams and assemble them onto protoboards. This year, we also collaborated with You're Next Career Network to showcase one of our displays in the Winter Career Fair and Start-up Expo in January.

For our 3rd annual Solidworks Design Contest, students were invited to submit Solidworks models based on a theme and were judged by invited Professors and Skule™ Alumni. Club funding was used to purchase refreshments for the event, as well as small prizes for the winners.



Tales of Harmonia

Funding awarded: \$400

Tales of Harmonia would like to thank the Faculty of Applied Science & Engineering for the generous contribution to our choir. With the funding we received from the Skule™ Fund for Education, we were able to host two concerts this year, showcasing the talents and dedication of the 36 members of our choir. In December, we hosted our winter concert, Choirtoons, and our audience completely filled the Hart House Music Room. We performed choral arrangements of themes from various different movies/television shows including Family Guy, Pokemon, Game of Thrones and Star Wars. This past April we performed our spring concert, A-POP-Calypse, in the Victoria Chapel. We performed choral arrangements of pop music including Skyfall by Adele, and Rather Be by Clean Bandit. We keep our concerts donation-based and free of charge to attend so that they can be accessible to the student community, and the funds we received allowed us to acquire the venue and sound equipment that we needed.

We cannot stress enough how integral these concerts are to the development of skills in our choir members. Our singers attend at least three hours of rehearsal each week in order to prepare for upcoming concerts, developing time management skills and a strong sense of community. Our rehearsals are hard work, but they are also welcoming, fun and a great change of pace after a long day of studies. Many of our members are actually quite shy and our concerts give them an opportunity to step out of their comfort zones and practise performing in front of a crowd. In addition to performances with the full choir, our concerts also have spaces for smaller acts. We strongly encourage our members to come up with their own acts to perform, and the hard-work and creativity that goes into these acts is stunning. The skills that we develop in our choir members feed back to the Skule™ community. In addition to our two concerts, the members of our choir performed in both the Skule™ Arts Festival Coffee House and Skule's™ Got Talent.



Image: Tales of Harmonia performing Skyfall by Adele with Robin Oh conducting

The Sixth Annual Operations Research Challenge (TORCH)

Funds Awarded: \$1,275

The Operations Research Challenge (TORCH) is an annual one-day free event for grade 9 to 12 students. Our goal is to introduce high school students and develop their interests in operations research (OR), a field of industrial engineering. The integration of techniques from engineering, computer science, and mathematics to solve complex decision-making problems has made this field even more relevant in today's data driven society. During the competition, teams of three or four students work together in a classroom to solve OR-related questions where the use of blackboards to aid discussions was encouraged.

TORCH is completely free of charge with food included as we aim to encourage a wide range of high school students to consider studying OR at the university level. It is through your generous support that we are able to continue our mission. This year, we had 106 registrants of which 22% were female and 75% were male and 37 volunteers. In addition to a student panel, two speakers were invited to present some applications of OR: Richard Self from University of Derby, UK; and Roy Kwon from the MIE department.

This year, we had a very high feedback rate and the comments were very positive. Many students found the questions to be intellectually challenging and reflective of real-world applications. For example, some contest questions included the optimal allocation of solar energy, strategic procurement of products for a cosmetic retailer, and identifying a profit-maximizing trade route. The free food, drinks and the exam rooms in OISE were all mentioned as highlights of the experience. A few pictures are included at the end of this summary.

The \$1,000 contribution from SKULE™ alumni helped us maintain the high production value of our event. In addition to covering operational expenses such as printing, website maintenance, signage, etc., the sponsorship also allowed us to show our appreciation for our invited speakers, both of which came from outside of Toronto. Moreover, we are grateful for the work of two alumni on our executive team in addition to 2 alumni volunteers on the day of the event. The alumni community has provided valuable advice, before, during and after the event – a luxury that we feel is only to be found in Engineering at U of T.

Without your support, we would not have been able to expose as many students to OR as it did and continue with our mission.



Image: TORCH banner at registration

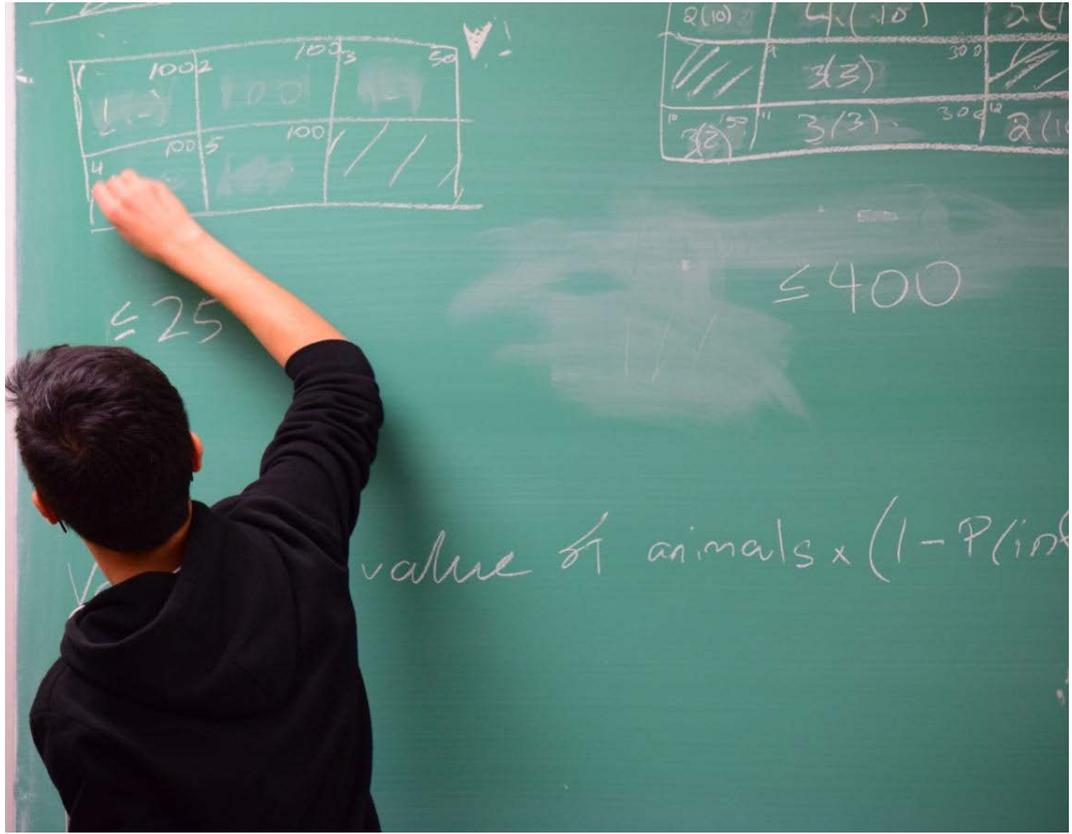


Image: Participant attempting to solve one of the TORCH questions

University of Toronto Aerospace Team

Funding awarded: \$7,750

University of Toronto Aerospace Team (UTAT) was able to continue its legacy of student-led aerospace innovation, and reach record-breaking heights in its designs, student involvement, and achievement! UTAT is an interdisciplinary research and design team focused on aerospace engineering and educational outreach. Our more than 100 active undergraduate and graduate students work across five divisions—Aerial Robotics, UAV, Rocketry, Space Systems, and Outreach—specializing in cutting edge quadcopters, fixed-wing autonomous drones, hybrid sounding rockets, medical research satellites, and community engagement.

The generosity of Skule™ Alumni directly supports the acquisition of aerospace-grade tools, materials, and custom electronics used in the construction of drones, fueling of hybrid rocket engines, and development of space-grade printed circuit boards aboard our satellite.

Among the achievements in the 2015-16 academic year are:

- 1st and 2nd place in the 2016 Unmanned Systems Canada competition, won by UTAT's AeRo and UAV Divisions. The USC competition is the largest drone competition in Canada, with this year's challenge focused on agricultural monitoring and probe deployment.
- 1st place in Design, Build, Analysis, and Construction in the 2015 Intercollegiate Rocket Engineering Competition, the world's largest rocket engineering competition; UTAT Rocketry beat out other leading universities including MIT and UWaterloo in this category.
- "The Aerospace Showcase 2016"—our annual public unveiling event for UTAT's 3 latest drones, 1 rocket, and 1 satellite—attracted 200 attendees, nearly a third from industry along with 6 exhibitors from the Canadian and global aviation and space sectors.
- Jeremy Hansen @ U of T, a special guest visit by CSA astronaut Jeremy Hansen to UTAT, where he also gave a public talk attended by nearly 300 students and university staff.
- 4 senior or capstone design projects with the University of Toronto, George Brown College, MDA Space Missions, and the Federal University of Santa Maria
- 2 journal papers, 5 conference papers, and 5 technical reports accepted to various domestic and internationally renowned venues including the International Astronautical Congress.
- Exclusive internship placements or 'first call' on opportunities for U of T Engineering students, at places like the German space agency, Pratt & Whitney Canada, Honeywell Aerospace, Aviya Aerospace Systems, Urthecast, and other organizations
- 4 major start-ups, one in the aerospace sector and three in consumer products, launched by UTAT alumni and disrupting the Canadian space, wearables, and social media worlds.

With three more competitions to go this year, we have high hopes for our team and are extremely thankful for Skule™ Alumni's support in enabling the tools and materials that are preparing the next generation of global leaders in aerospace research, engineering, and entrepreneurship!

We're always open to Skule™ Alumni interested in working with us as technical advisors or guests/guest.

U of T Baja Team

Funds awarded: \$6,400

The U of T Baja team is a student-run design team whose membership consists mostly of engineering students. Each year, the Baja Team designs and builds an off road vehicle which meets the requirements set by the Society of Automotive Engineers for the Baja SAE collegiate design series. The team then competes against other universities from all over the world at one or more SAE sanctioned Baja competitions. The funds donated by engineering alumni were used to help pay for the materials needed to build the Baja Team's 2015/2016 vehicle. In particular, these funds comprise approximately 12% of the total funding require to construct the vehicle and allowed the team to purchase the metal needed to build its frame and body. As a result of the donations that made building this year's vehicle possible, the U of T Baja Team competed at the Baja SAE Rochester competition, June 9-12, 2016.

By allowing the team to build this year's vehicle, the funds donated by engineering alumni had an important impact on the overall growth and success of the U of T Baja Team. The team can continue working towards its goals of attracting new membership and improving its performance. This in turn has positive impact on U of T engineering students and the Skule™ community. At competitions, the Baja Team represents U of T engineering to an international audience and improving the performance of the team is important to ensure that U of T engineering is represented positively. Within the University, the team gives students the opportunity to gain valuable engineering experience outside of the classroom that complements the curriculum and is sought by employers.

The U of T Baja team is extremely grateful for the funding donated by engineering alumni that has allowed the team to offer as much value as possible to the university and its students. The attached pictures are from the Baja SAE Maryland competition that the team attended last year.



Image: Baja SAE Maryland

University of Toronto Canadian Mining Games Team

Funds awarded: \$1,750

We are writing on behalf of the University of Toronto (U of T) 2015-2016 Canadian Mining Games Team to extend our gratitude for your sponsorship. Our team had one of its best ever showings at this year's games, placing 4th overall and in the top 3 in a total of 10 events. A summary of our results is provided below:

- | | |
|--|---|
| <input type="checkbox"/> 1st Place – Mine Design | <input type="checkbox"/> 2nd Place – Mystery Event #1 |
| <input type="checkbox"/> 1st Place – Crisis Management | <input type="checkbox"/> 2nd Place – Environment |
| <input type="checkbox"/> 1st Place – Mystery Event #2 | <input type="checkbox"/> 2nd Place – Drill and Blast |
| <input type="checkbox"/> 2nd – Mineral Economics | <input type="checkbox"/> 3rd Place – Mine Trivia |
| <input type="checkbox"/> 2nd Place – Rock Mechanics | <input type="checkbox"/> 3rd Place – Speech Competition |

Our team managed to win the mine design competition, the Mining Game's largest competition. The mine design team designed a 3D model of an underground mine based on resource shapes and created production schedules and economic analyses of the mine from preliminary design constraints. We believe our team can continue to improve and have set our sights on gold for next year!

Without the generous donations from our sponsors, our participation in the games would not have been possible. Sponsorship funds covered our transportation, team attire, and all other competition expenses. We are extremely grateful that the Faculty of Applied Science & Engineering sees the value in sponsoring events such as the annual Canadian Mining Games. An article was published on this event: <http://lassondeinstitute.utoronto.ca/news/lassonde-mineral-engineering-team-wins-mine-design-event-at-canadian-mining-games/>

We hope that this year marks your continued support of our program and the mining games team. With this year's results as a solid base, we are confident that the 2016-2017 team will continue to reach the top of the rankings. We are proud to say that the 2017 Canadian Mining Games will be held at the University of Toronto!



University of Toronto Engineering Toastmasters (UTET)

Funds awarded: \$700

This year was a successful one for our club, the University of Toronto Engineering Toastmasters (UTET). We more than doubled our attendance this year from 12 to 25 active paid members, who form a tight close community. This success was enabled not only by your funding, but also by the members and alumni of the Faculty. In particular, Utkarsh Gaur (EngSci ECE 1T2+PEY) played an integral role in rebuilding our club as Evaluator in our open house, and advisor to the executive committee. In addition, Yohannes Wondimu (CivE 1T3+PEY) served in the executive as Communications Coordinator.

Thanks to your financial support, we were able to host two open houses. Your funding allowed us to offer food and soft drinks for members and guests, many of whom Utkarsh and Yohannes recruited, as well as offer honorariums to our distinguished guest speakers. These open houses attracted a significant number of new members who quickly developed their oral communication skills through regular participation in the weekly Toastmasters meetings.

Our impact on the Skule™ community was not only limited to our membership, but also extended to the student body at large. We hosted a workshop to support first-year engineering students in preparation for oral presentations in their design courses. Your club funding permitted us to offer food for attendees, which greatly increased attendance and its overall impact.

Outside the academic environment, UTET held several social events, including our end of the year pub night. In these events, we were able to subsidize food for our members. As a result, attendance was higher than expected. These events served as a nice study break for many during a hectic time of the year, and also strengthened bonds within our club's community. Furthermore, they also allowed our current membership to meet and network with UTET alumni.

Once again, we want to thank you for your generous support this year. Your funding allowed us to attract new members, foster a better environment for returning members, and have a concrete impact in improving the leadership and oral communication skills of engineering students. We plan to continue this work throughout our weekly summer meetings.

University of Toronto Formula Racing Team

Funding awarded: \$22,350

The University of Toronto's Formula Racing Team would like to thank Skule™ Alumni for once again supporting us and the build of our formula style race car. Once again this year, our main goal is developing our skills as students and professionals. Skule™ Alumni provides us with the funds necessary to follow our passion and achieve our goals.

This year the funds received were put to work through the support of research and development for our 2016 race car – UT16. Our team has decided to take a step to the next level in design and manufacturing through the incorporation of different materials and elements to create a more superior vehicle. For example we have designed and manufactured a hybrid carbon fiber and steel tube chassis. In addition, the funds received will be used to transport our car to Germany as we will be competing in one of the most renowned Formula Student competitions.

Through the support we receive each year we are able to not only affect the Skule™ experience for our team members, but also for the entire current and future Skule™ community. By partnering with other student groups and Skule™ associations we promote the team's and Skule's™ experience to high school students wishing to attend the University of Toronto. Through shop tours and attending events such as High Skule™ and the Canadian International Autoshow, we promote our unprecedented experience.

The funding received has comprised of a substantial amount of our monetary budget for the past many years and its importance to the team is unparalleled. Every dollar received is used wisely to ensure we meet every one of our goals and every team member has honed their skills to the best of their abilities.





University of Toronto Iron Dragons

Funding awarded: \$7,700

The University of Toronto Iron Dragons would like to formally express its gratitude to the Centralized Process for Student Initiative Funding (CPSIF) for providing sponsorship from across several engineering departments including the Alumni Association, MIE, Chem, Civ and Min, Eng Sci, EngSoc, and MSE. Although the racing season has just begun, the generosity of the departments have allowed the Iron Dragons to kick off its twentieth season with the largest roster of athletes yet. Specifically, the allocated funds have allowed the Iron Dragons to execute a successful eight month long pre-season with weekly practices and regular team-building events. The remaining amount will support Iron Dragons boat practice costs and regatta entry fees as the summer approaches. Close to eighty undergraduate engineering students are positively impacted through all of the department's contributions.

From a wider lens, the CPSIF and the allocated funding has assisted the Iron Dragons in achieving its mission of benefiting the Skule™ community. Without this funding, the Iron Dragons would not have been able to expand its roster by 100% over the past year nor share the sport of dragon boat with more than 200 students during the tryout process. Adding to the strength of the Skule™ community, the various departments' sponsorship has been crucial to executing the team building and training events necessary to help undergraduate engineers develop personally both in and out of the boat. Most importantly, the support allows the Iron Dragons to compete and show the broader community what U of T Engineers are capable of.

The support from all of the departments and the CPSIF is indispensable to the Iron Dragons. Without its sponsorship, the Iron Dragons would be forced to decrease its number of participants and quality of programming. Moreover, higher team fees would render the sport inaccessible to undergraduate engineering students. It is the least bit hyperbolic to state that the Iron Dragons would not exist without this assistance. As such, the Iron Dragons hope to continue its partnership with the Alumni Association, MIE, Chem, Civ and Min, Eng Sci, EngSoc, and MSE through the CPSIF, thereby improving the engineering student experience for years to come.



U of T Ironsports Club

Funding awarded: \$900

The University of Toronto Ironsports Club would like to thank Skule™ Alumni for their contribution of \$250. Our club has grown significantly since our inception in 2012, now including over 115 active members and 400 members on our mailing list. More than 20 of our active members are Engineering students or alumni, along with 4 of our executive members.

We have also grown to include competitive weightlifting and powerlifting teams in addition to our recreational membership. Several of our engineering student and alumni members are now representing the University of Toronto at sanctioned International Powerlifting & Weightlifting Federation competitions.

The sponsorship provided by Skule™ Alumni helped to fund our Open Training Day events in September, October and February, our Weightlifting & Bench Press competition in December, and our 3-Lift Powerlifting competition in April. We also hosted several instructional seminars, one of which was presented by a world record setting Canadian powerlifter.

These events were designed to foster community among U of T student and alumni lifters of varying academic disciplines and lifting experience. For those very new to the sport, we have a dedicated professional coach teach them the movements. After instruction, more senior members help newer lifters practise the technique. This combination of instruction, practice and pushing for new personal records in the lifts is all going on in the same space. We believe that our unique supportive environment helps students to keep up with a regular exercise regime. Lifting is also an excellent exercise to manage stress and often helps students build self-confidence and better relationships with their body.

We would like to thank Skule™ Alumni for their continued support of U of T Ironsports. Thank you for helping to provide students with the opportunity to find their strength outside the classroom.



University of Toronto Operations Research Group (UTORG)

Funding awarded: \$2,000

UTORG serves the interests of the operations research community at the University of Toronto by hosting social and academic events including lunch talks, workshops/seminars, distinguished speakers, and coffee breaks. The alumni funding received through Skule™ represents over 90% of UTORG's annual budget and without these funds, the events organized would not be possible.

Over the past eight months, UTORG organized seven student lunch talks, which allow graduate students the opportunity to present research and receive feedback in a supportive environment. Additionally, UTORG invited two distinguished professors, Prof. Kroft from UofT and Prof. Caron from UWindsor, to give research presentations and interact with students over lunch. During lunch, students are able to ask questions and share research ideas with established professors in an informal environment.

To promote social interaction between graduate students from various research groups, UTORG hosts a variety of social events. In October, UTORG hosted its 2nd Annual Pumpkin Carving Night with great success. The event attracted students who had never experienced or participated in pumpkin carving, and was enjoyed by all. Each year UTORG also organizes a fall and a winter social event in September and January respectively, with the goal of facilitating interactions between new students. During each semester, the last Thursday evening of every month is reserved for UTORG board game night, which allows student to relax and unwind. UTORG also began a new initiative this year named "Coding Month", which provided beginner and intermediate tutorials on three programming languages: Julia, Python, and MATLAB. The tutorials were attended by over 120 undergraduate students and all tutorial materials are freely available on our website.

In the next three months, UTORG will implement two major events. First, we plan to initiate a high school outreach program in collaboration with the Toronto Operations Research Challenge (TORCH). UTORG plans to visit various high schools within Toronto to promote studies in the Science, Technology, Engineering, and Mathematics (STEM) fields. Second, we will host a graduate student model-a-thon competition during the summer. This competition will see teams of graduate students in mathematics, computer science, and engineering compete to model and solve complex real world problems.

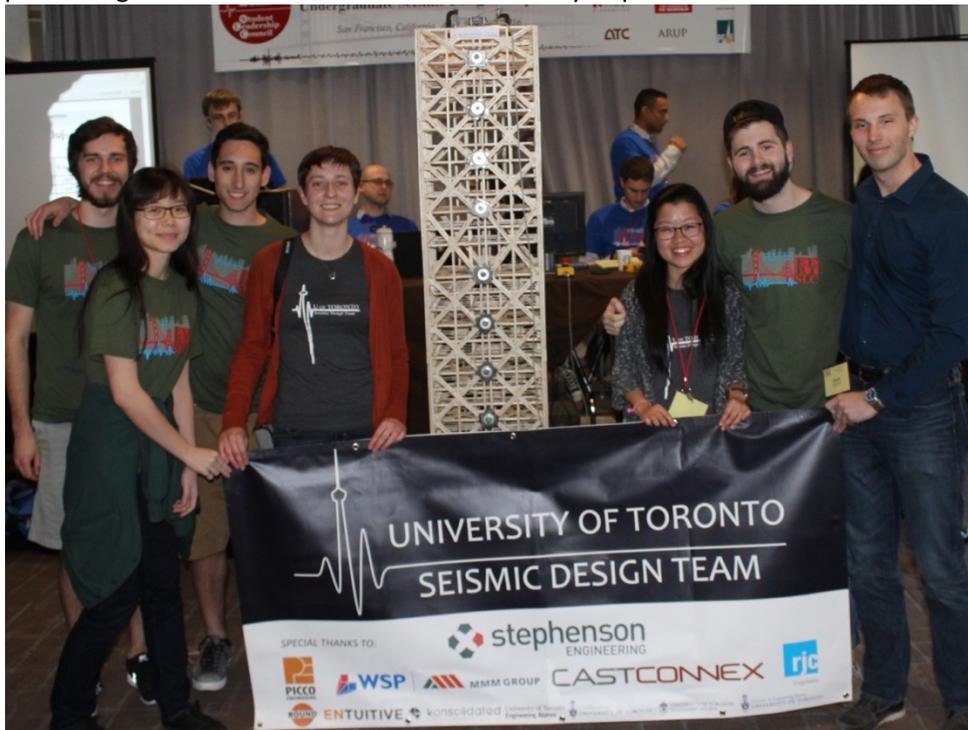


University of Toronto Seismic Team

Funding awarded: \$1,000

We would like to take this chance to say “thank you” to all the generous alumni for supporting the University of Toronto Seismic Design Team, especially in our very first year as a team! Your support has been monumental in helping us prepare for and attend the 2016 Earthquake Engineering Research Institute (EERI) Undergraduate Seismic Design Competition. Funds from alumni donations were put towards purchasing building material and tools as well as costs associated with sending the team and structure to San Francisco. This year, we’ve used nearly 1000 sticks of balsa wood to construct a number of prototypes in addition to our final structure, which stood at 60” tall. Furthermore, we were able to send seven members to compete alongside top engineering schools from all over the world from April 4th to 8th, 2016. Teams were judged based on seismic performance, architectural design, oral presentations, posters, and workmanship, all of which were captured in a “Final Annual Building Income (FABI)”. Our structure scored a FABI of \$262,377, allowing us to place 4th overall amongst 33 international teams, the highest Canadian finish in the past five years!

Evidently, this year’s Skule™ Alumni funds played a critical role in providing undergraduate students with a chance to work on a hands-on project designing and constructing a cost-effective structure to resist seismic loading. This is the first ever Skule™ design team focused on structural & seismic engineering. The founding of our team had successfully brought together passionate students from both the Civil and Engineering Science Infrastructure Option departments and allowed them to delve into a subject that is usually not taught at the undergraduate level. Having seen what it takes to own the podium, our team cannot wait to compete in next year’s competition through using this summer to further refine our method of analysis and coaching next year’s team. It has been a pleasure and honour partnering with Skule™ Alumni and we certainly hope to continue our relationship come next year.



University of Toronto Supermileage Team

Funding awarded: \$17,000

The University of Toronto Supermileage Team would like to extend our sincerest gratitude to the Skule™ Alumni for their recent contribution of \$4,000 in support of our project.

Funding from the Alumni Association continues to be a major asset to the Supermileage Team. The focus for the funding this year has been put towards a second vehicle to compete at the Shell Eco-Marathon Americas competition. This event aims to promote awareness of fuel-efficiency by challenging design teams from universities and high schools around the world to develop, build and drive ultra-efficient vehicles. The new vehicle is set to compete in 2017 in the battery electric prototype category – the second largest at this competition. Although the vehicle was not able to make it on the track this year, we were able to bring it to the competition to show off the work we have been doing and discuss the vehicle with other teams. The funding from Skule™ Alumni has been put towards the vehicle's power system; the motor and components for the motor controller.

Although this venture has brought on many new challenges, it has also helped to broaden our team and our collection of knowledge and abilities. As the sophistication of our project continues to grow, we will be able to offer a greater incentive to new students who wish to join the team, not only by providing them the opportunity to learn about fuel-efficiency, but doing so in the context of applying the skills they have learned in class to a real-life engineering design scenario.

We are happy to announce that this April our team travelled to Detroit, Michigan to compete for the fourth time in the globally recognized Shell Eco-Marathon. The team came in 2nd place with our gasoline prototype vehicle with a mileage of 1005km/L. A success that could not have been possible without the continuing support of the Skule™ Alumni!

On behalf of the University of Toronto Supermileage Team thank you again for supporting our initiative and promoting sustainability and fuel efficiency in the UoT community.



Image: University of Toronto Supermileage Team at the Shell Eco-Marathon Americas 2016 competition with their gasoline prototype vehicle.

Water Environment Association of Ontario U of T Student Chapter

Funding awarded: \$300

The chapter's goal for the academic year 2015-16 was to host one event or activity per month to keep its members engaged and active. Events were successfully held in September, October, November, January, February and March. The team ensured that each event was different and offered a unique experience to its members. These were – A talk from a career coach, talks from Water Environment Association of Ontario (WEAO) YPs (Young Professionals) about their personal career stories, a movie night, a panel discussion from industry professionals, a networking pub night, a plant tour, a technical seminar, and a fundraiser. Our team also regularly informed the general members about events from WEAO, OWWA and other environment/ sustainability groups in/outside campus. In order to facilitate the planning and execution of each of these events, the team met once every month and in some cases more than once a month to ensure the success of an event. During each chapter meeting, the points discussed and meeting minutes were recorded, documented and saved onto the group's online Google Drive for future references.



Image: Introduction to WEAO and the Water Industry (September 2015)



Image: Lorne Park Water treatment plant tour

2015 – 2016 Student Clubs Contact Information

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