



MCMaster ENGINEERING SOCIETY
Council Meeting Minutes



Nov 25, 2018 | Room | Time

ALL ATTENDANTS: Please inform President of your presence.

Approved Absences:

PROXY: (Person for Person)

Quorum Count: 22

Ratification of the Agenda:

Majority 4, 1 opposed, 1 abstained, motion passes

Ratification of Last Council Meeting's Minutes

1 abs, no opposed, majority for, motion passes

Executive Updates

President: Liam McDermott

Discussion:

VP Student Life: Katya Lemos

Discussion:

VP Academic: Ian Currie

Discussion:

VP External: Melissa Cusack

Discussion:

VP Finance: Nick Aubry

Discussion:

Prepared by [name]

[email]



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Presentation #1: McMaster Steel Bridge Affiliation

Presented By: Brandon Boles & Kailey Zeran

Both third year civil engineers and captains of the teams. Want to create a team that focuses on the practical aspects of bridge design. Want to compete on the national level (aiming for 2019). The bridge is 23 feet and modular. The competition requires design fabrication and construction. Helps students learn about design software and techniques

Sept to dec: team recruitment and design

Jan-march: building in the hatch workshop (talked to matt and lucas about using hatch)

Should be finished in march, where they construct it. They make a method of instruction and refine it.

2 team captains, faculty advisor (Dr. Wiebe) and 2 grad advisors. There are also many different captains and sub-captains for different sections of the process (fabrication, construction, etc)

Student life: want to create an inclusive environment, have done a SAT2000 workshop and want to do one for CAD. aiming to include more than just civil, especially btech and first years.

MES can provide advertisement to help growth, building space and competition funding.

Team provides MES exposure..

Funding: budget is 4k. Have already been reaching out to sponsors and have some money from them already. Looking to go to civil department for more funding as well

Q: planning on going to the competition this march?

A: it's in may and that is our current goal.

Q: first time going to a competition?

A: yes, it hasn't been done at mac yet.

DR: how many people do you plan on bringing?

A: 12 - 13 people, similar to seismic.

Q: where is it?

A: montreal. It moves every year. Last year was waterloo.

Q: have you been in discussion with other schools?

A: yes, waterloo. Trying to figure out how they use their funding, compared to mac

Q: are you planning on fast tracking to a team from the affiliate before the year ends?

A: yes, we want to apply as soon as possible to be an official team.

Presentation #2: McMaster Autonomous Underwater Vehicle Team Affiliation

Presented By: Sayanthan Paramanathan

Prepared by [name]

[email]



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Background: robosub. A competition held in san diego at the end of july, for high school and college students. They have them build vehicles for specific tasks.

They have a connection to members from McGill robotics, giving them technical and non-technical advice.

High interest from multiple streams of engineering. People were willing to offer lots of time over a many years. Gives us connections to other huge colleges like cornell, caltech. Will be the first onario uiniversity to compete.

Benefits to students:

- Unique opportunity (everything has to be waterproof)

- Evenly distributed between many different engineering streams

- Tehere are other roles, liek management roles that will offer other opportunities for people who dont want to be tehcnical.

Reasons:

- Help with promotion, advice for team structuring and how to connect with other teams.

- Biggest challenge is advertisement

- Team space

- Using the MES logo and image on all they do.

Why will it be successful? Two presenters have 16 years of robotics experience and 7 years of mentorship experience. Gives them soft and hard skills.

They have quite a few connections (machine shop at a high school and other connections they made in the past).

Connections to industry to get sponsorship and will talk to them soon for funding.

Q: when does the comp?

A: july 26

Q: how many memebtrs now?

A: just us 2 but we have more people that are interested. Want to build a team structure before adding people. Looking ot tak 25 people on

Q: in san diego. Are you taking 25 to san diego?

A: this year we just want to learn and not compete. That way we can make mistakes and learn from them. It will give us time to improve.

Q: how do you intend on getting sponsorships if it's just you 2?

A: were gonna get fundng after we get the 25 people on and we want to connec to other teams in the MES

Q: waht is your plan on how other members will be involved? What is their role?

Prepared by [name]

[email]



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A: need lots of help for manufacturing (btech, mech and others), but it's a lot of software (soft, comp, ece, etc.). We'll have a mech team lead, software team lead with a team, etc.

Q: youre working with a high school? Which one?

A: the high school in sauga that we went to. They have a full machine shop that they have already given us permission to use?

Q: how will you get your team to the shop?

A:

Q: do you know you will be able to do everything you want on campus?

A: right now, no. but with MES affiliation we can get help. We were rejected from some space until we get affiliation status

Q: whats your recruitment strategy? How do you know youre gonna get an active team going?

A: we are planning to hold an info session. We want people that will be passionate about it for team leads.

Q: do you plan on going to the closest competition?

A: no, we want this year to be a learning year to structure ourselves?

Impromptu Motion to move this January

(Second council meeting of second semester)

Motioned By: Liam

Seconded By:

Feedback: we need to see more people on the team. Seems kinda loosey goosey. Wed like to see team captains and conversations with the faculty.

Presentation #3: Robomaster Affiliation

Presentation By: Chengxin Liu

Out captain is absent because he is on an exchange in singapore, but he is the most capable of all of us.

Picture of the arena used for robomaster competition. Theres an arena where they fight league of legends style. We are attending robomaster, they also have an ICRO AI challenge that we have interest in attending. As well as a technical challenge, but our focus rn is robomaster.

Hosted by DJI, in order for students to build robots that can fire from a turret, have a computer vision and control systems. We cant be engineers without applying what we learn.

Our goal for this year is to build 1 hero and 3 standard (pictured)

Hero: biggest gun, 42 mm (golf ball), most fire power (others are like 17)

Standard (smaller, can flank)

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[email]



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Engineer: tanky, high HP but it doesn't have a gun, its purpose is to get projectiles and supply others, and to protect.

Aerial: eyes in the sky and can shoot projectiles from the air, fire power is limited

Sentry: completely autonomous and solely protects the base.

They want hero to be the most advanced due to costs

Picture of the map

International regional competition: July 2019

In Canada we have 3 universities competing (Queens, us (already signed up), and Alberta). 160 teams total.

Team:

Supervisor: Prof. Hadarra

Mech division, (chassis, wheels, shocks, etc.)

Control system division (algorithms that control the cannons and wheels, etc.)

Algorithm division (autonomous part, will use Google software for it)

Business and Promotion division (commerce from Mac)

All technical team members are engineers

5 supervisors and 29 team members, we have 12 people right now.

We have deliverables so we can report our process

Prototype costs 100 to make and the final costs 2000

Biggest sponsor will be DJI, they are giving each new team 2 free robots.

Our goal for now is the computer system for the hero.

Schedule:

Already made the prototype, will have chassis done by January

Computer vision done by March which has already started

Revision of robots in April and May

Aerial and competition prep in June (if possible, if there is enough sponsorship)

Provide for MES

Opportunity to apply practical knowledge. Robotics is a lot harder than other things, we put in 20 hours just for the prototype gimbal (prototype is Arduino)

Create a platform for students to connect with tech such as CAD, machine learning, robot control system and computer vision

Will be the first RoboMaster team at AMC and second in Ontario.

Good opportunity to show McMaster on an international level and have fun

Prepared by [name]

[email]



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What we need:

A platform to connect with sponsors

Influence to gain members

Workspace for building and testing (half size arena to practice and test) and machine shops since 3d printing alone is not enough

Right to use MES title

Q: where is the competition?

A: not decided yet, definitely north america, but probably not canada

Videos showing robots in action

Done with an app, but in the competition, our computer will be connected to an official transmitter

Q: you want 35 members, but how will you reach out?

A: right now it's who we know that would be good at each part of the build. Posters around the school as well. We will hold an info session if we become an affiliate. We have a list of professors from hadarra of profs that are interested, it's along list.

Q: lots of work being done in april in the schedule, did you think about exams?

A: the plan is to have it done by april. As well, it depends on sponsorship and other things that affect timing. Most of the work has already been done in the prototype so it will be easier.

Q: do you need each type of robot at the competition

A: planning on using a universal chassis, so we can change them around. But the standard robots require 3 for the competition

Q: what is the sponsorship currently, other than DJI?

A: yes, we do have DJI since were new. We are still trying to figure out how to get funding and where we can cut costs. They handed in a shopping list to show their costs. Our business manaher is working on sponsorships right now.

Q: where is the final competition?

A: DJI is in china so probably there. Few years ago was hong kong, but it might move. DJI will cover some of our travelling fees since were new and some of our teams live near there so we wont have hotels and flights back. 14 people need to be there

Q: how ill you make sure all 14 people make it

A: DJI will contact us about that if we make it past the regional competition.

Q: do you have a rough idea about how much the budget will be for the next 8 months on the schedule

A: we are looking to have the robots be the same as what they are providing (2k per robot). If we cant do it then we will lower costs, and weaken the robots)

Q: estimate? I'm more concerned about it altogether, travel, building, etc.

Prepared by [name]

[email]



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A: we are looking at around 15k for just the regional competition. The budget for the hero alone is 1700. Including all fees is the 15k

Q: once you have the info session, what do new recruits bring to the table?

A: first we will design a whole new chassis. And we need to build a new structure to hold all the parts. There has to be armour as well. For control systems, there will be all new systems and languages. We are going to look for people that have skills that compliment what we need to get done. We also need to do projectile calculations for the cannons.

Q: 35 for this year or next year?

A: 35 is the upper limit. We need 14 for the competition and we have 12 now.

Q: are you actively recruiting now?

A: yes.

Q: are you gonna be looking for people for more experience or are you looking for new people?

A: we will definitely need people with at least moderate skills (like for CAD and machining). We are looking for people from year 2 and above with good experience. We are going to be looking at filling the team next year once we have actually built robots this year. We have a tight schedule so we need people that know and can't waste time on learning robots.

Q: are you looking at running info sessions?

A: if we get the workshops then we will do construction workshops but we can also do online workshops on coding for our new members to get them familiar.

Q: what do you think the club can contribute to MES as a whole and as a culture. To get a wide demographic.

A: this year we just want to advertise our team. We want more people to work on our team and everyone is welcome since it is great experience for everyone. We can also bring other industries to McMaster.

Q: this comp sounds really cool but have you considered going to more local competitions?

A: we don't have enough to go to other competitions, but we can look into it next year. In the distant future we want to hold our own competitions.

Motion to Re-ratify the agenda with their motion

Motioned by:

None opposed, none abs, all majority

Presentation #4: McMaster Makers

Presented By: Ali and Josh

Showing the council what they have lasercut at the makerspace
3 things to cover

Prepared by [name]

[email]



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Mission and purpose, how we are actualizing and lastly the schedule

We are trying to bring together a ragtag group to create a community, an inclusive community for not just engineers. We do know that we have to be a majority of engineers. We want to take their ideas and turn them into reality.

To provide a collaborative interdisc environment for all students

Anyone can use a laser cutter, but it is not contextualized in a project. We want to focus on what they are learning and how to apply it

We are affecting all students at mac. An opportunity for students to develop their own skills. Learn about entrepreneurship and taking their ideas to the next level.

How many courses at mac do you get the chance to build hands on? Not much. We are given a lot of theory and then are hit with capstone with very little help. We want to help people learn the skills they need early on, especially for the capstone.

Based off josh's capstone where they had to build an auto fire fighting robot. They built one themselves and then made one off the shelf and they realized how little skills they had to build on their own.

Benefit to individuals at mac. Bringing together views from different faculties all over mac. Want to build a community around the makerspace in thode.

There used to be a chain in the states called techshops. They had the embrace warmer, tackled the critical window premature infants have to live. Incubator is 10-15k, embrace warmer is in the hundreds. They were happened upon by the makerspace thing and they were interested and it launched from there.

Who used makerspace? Like 5 here

Who knew about makerspace? Everyone

Why didn't you use makerspace? No reason, couldn't figure out booking.

That's all logistics!

Benefit to local communities:

Not going to have enough problems to actually solve, so we will run out of problems and we can branch out to the community and fix problems in hamilton, toronto, ontario, etc. this is a bit of the entrepreneurial aspect.

Collaboration factory to mix entrep and student aspects.

Coop office but better

Global community:

The milestone for the next few years.

Went to some networking sessions and talked to profs from u of t and waterloo. They wanted to develop chapters at their unis and collab with the mcmaster one if they could get it off the ground at mac. Imagine a better version of github, but it includes design, manufacturing, hardware, etc.

Prepared by [name]

[email]



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3 pillars:

Education:

aim to teach people through introductory projects (robot hand), mostly small projects, workshops to build things that are useful for students

There is a team of 12 people (10 MES members) split into administrative and project development team. PD team making documentation for workshops in the future.

Also soft skill workshops (TED talk type, public speaking)

Mix with STEM and non-STEM education

Both work for mathstronauts so they know all about teaching and STEM

Teach what you know and learn what you don't.

Have talked to profs here (doyle) that might be interested in giving talks

Platform:

Discord server to give 24 hour access to people that can help with their projects.

Looking at making a website for file sharing and as a main media platform

Also a youtube channel on how the builds are made and how they affect the community

Mini documentaries on each project and builder

Portfolio hosting for students to show their ideas and projects

Technical world news

Community:

The biggest thing that the club can offer is the maker expo

Maker Expo

Basically a giant science fair. No limit on how to get in, but everyone can come in and show off their projects.

Pitch competition for people to talk about their ideas and have them critiqued

Project showcase

Bring together the technical communities and showcase mcmaster on a global level

List of resources (makerspace, student machine shop, etc.)

They have official support from the faculty of engineering, talked to arlene

schedule/action plan

Next year: hope to start hosting workshops and a small scale maker expo, be right after frosh week to get in at peak student involvement

Very few expos during september (mostly later months) so it sets us apart

Q: have you considered MSU affiliation?

Prepared by [name]

[email]



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A: due tonight so were submitting it tonight?

Q: whats the budget aspect? Do you want/need money? Charging for workshops?

A: our first source of funding is from the faculty (1500-2k) and it's semi-approved by arlene. Mostly paying for resources. Depends on resources

Q: have to 75% engineering or more. Does this align with goals.

A: long term vision is to maintain the demographic percentage. The workshops wont be for club members, but the club is mostly the people that plan and host the workshops.

C: does that mean that the people that use the services?

A: it's vague.

DR: is it exec taht will be 75% eng?

A: yes, it's mostly the project devs. They are entirely engineer now.

Q: you mentioned you have engineer members, are they undergrads?

A: yes

Q: you said at the expo you want industry people, have you spoken to any that are planning on coming?

A: yes. They are offering to help supply things to the club, like a 3d scanner. Also talking with christopher holt, who has connections with the guys that run the makers show of canada.

Presentation #5: CDE Council Presentation

Presented By: Erin Nunn

The basis of CDE (diversity in eng) is to bring across delegates from the CFES. attend workshops about EDI (equity, diversity, inclusion). Purpose was to share ideas in the theme of diversity.

Anti-oppression, diversity in the workplace (diverse teams create better products), mental health

Interesting one was safer spaces (places that are calm). You cant build a space thats safe for everyone

Key takeaways:

dont call yourself an ally, act like one. Do waht you can to help people that are affected. Dont preach!

There is a bias on getting into engineering. Lots of high schools have racial bias in math courses. A lot of guidance councillors will discourage you from taking STEM if your parents dont cut it (university ed, earnings)

Learn to say no! If you do belong to underrepped groups, dont put to much effort into being recognized.

Prepared by [name]

[email]



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The people who live it are the experts. If you are making an event for a diverse group, talk to people that experience what you are planning on solving for your event.

Diversity is being invited to the party, inclusion is being asked to dance

Delegates from the conference set up a booth at fall preview and talked about different diverse groups of the MES (engiqueers, women in eng, etc.)

You hear a lot of jokes about killing yourself over how hard engineering is, this is a bad mindset because for some people it's not a joke!

Competition of being the least effective by the difficulty of eng

Q: how do you take the "kill myself" joke. It's good to cope and make the issues lighter.

A: really have to know your audience. Are they coming from a place where the joke is a reality? It's a weird line. I personally dont think there is an exact solution to it. It's a really tricky subject

We talked to other schools about the EO that we implemented. Lots of other schools want to implement it. We dont have much in our policy manual about it yet.

Most we got out was the one on one conversations with real people. You immediately want to have a conversation about the topic right after every presentation.

Presentation #8: Policy Manual Changes

Presented By: Ian Currie

This is mels presentation so i will try my best to answer any questions.

A few small cahnges about how conference funds will be delegated. Lets VP X give money less than 500 without having to go through the whole process of giving the money. (vote by council).

Getting rid of the 50% thing. Point 6 is more indepth than the first one so we dont need it.

Larger than 500, brought to council

Less, VP X decides

Point A is added.

Q: Is it 500 per conference/delegation or delegate?

A: delegation, not per delegate

Q: as far as the VP X's ability to allow the less than 500, will they have to tell the MES council?

A: i dont know, but we can bring that forward for the motion.

Q: just to let people know what is happening with the money, for transparency. No need to vote.

A: mel said that she is happy to give a report during supdates.

PC: you can already do that by asking the VP F about it

A: but this is putting it out there, without having to ask for it.

Prepared by [name]

[email]



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Presentation #6: PEO Student Conference

Presented By: Ian Currie

Ian was not the head delegate. They could not be here so he is filling in

Overview: Soon to be grads were informed on different pathways they can take after grad. Presentations on p eng licencing, etc.

Networking sessions: people would go around to different tables and talk to a bunch of different companies. How engineers fit into the workplace and how they can reach employment. They took resumes.

PEO and OSPE presentations:

Licensing processing for becoming a P eng and the importance of societies and common goals with engineers. We have reached out to him to come to PDC this year

Entrepreneurship and post grad studies:

Talks about his path and what it might be like for engineers to take his path. Both guys did the same (GET NAMES IN HERE)

Closing:

They talked about multiple issues affecting ontario universities. Accompanied by brainstorming sessions where they talked about things that were meaningful to them (mental health, workload, academic dishonesty). This is where most of the value comes from in conferences. To bounce ideas off people and bring back your thoughts. As well as bringing ideas back to the faculties

PC: i went. A huge takeaway. PEO has a form where your coop can work towards your PEng work experience.

Presentation #7: Chemical Engineering Conference

Presented By: Lindsay

AVP external from the chem club.

Conference was in toronto, ran but U of T and Ryerson. Lots of networking and learning. Knowing what other universities are doing and showing what mcmaster is doing. 40 delegates (stayed in the sheraton, the same hotel as the conference)

Theme was engineering and developing a sustainable world

industry tours you sign up for. You go and see their campus and make connections

International research presentations, so you can learn how to get involved in different kinds of research

Competitions! 1st and 3rd in the student paper com and 2nd in the research pitch.

Prepared by [name]

[email]



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Expenses:

Some stayed over, some commuted
10037.46 total

Funding:

Chem department funds registration fee for each
Dr. Li gave 100
Trying for MSU but nothing yet

Benefits:

Networking, mcmaster has a great reputation! Lots of learning from lectures and you get an aspect of what's happening around the world.

68th annual and this was our 10th time going

Motion #1: Policy Manual Changes

Motioned By:

Seconded By:

Whereas other funding policies within the MES typically allow for small amounts of funding to not require a vote by council.

Whereas this policy manual change was made last year without testing, and has proven to be impractical and a barrier for groups applying for small amounts of funding.

Whereas the VP External has to review all documents to ensure the conference is worthwhile, and manages all documentation for the open conference fund.

BIRT the following policy manual changes be made.

WILL HAPPEN NEXT MEETING (IN JANUARY)

Motion #2: Open Conference Funding

Motioned By: Terrel

Seconded By: Patrick

Whereas the head delegates for McMaster's delegation to the Chemical Engineering Conference held in Toronto, ON from Oct. 27th - 31st, 2018 have completed all the necessary steps to apply for funding from the open conference fund.

BIRT McMaster's delegation to the Chemical Engineering Conference held in Toronto, ON from Oct 27th - 31st, 2018 will receive \$1500 in open conference funding as laid out as the maximum funding amount for a delegation of 37 students in section 3.4 Conference/Competition Funding Policy of the MES Policy Manual.

No discussion

Prepared by [name]

[email]



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Abs: 2, opp, none, majority for, motion passes.

Motion #3: McMaster Steel Bridge Team

Motioned By: Brendan t

Seconded By: Emma L

Whereas the McMaster Steel Bridge Team has an interest in the MES members, construction space, and as strong leadership group in place.

Whereas the design phase and sponsorship collection have yielded positive results.

BIRT the McMaster Steel Bridge Team can be recognized as an official MES affiliate.

Seeing no discussion

None opposed, 2 abstained, majority for, motion passes.

Motion #4: McMaster Autonomous Underwater Vehicle Team

Motioned By:

Seconded By:

Whereas the McMaster Autonomous Underwater Vehicle Team is a multidisciplinary program offering opportunities for many students.

Whereas it has strong initial interest with experienced leaders and support from another Canadian team.

BIRT the McMaster Autonomous Underwater Vehicle Team is given official MES affiliate status for the Winter 2019 semester in hopes to attain full team status for the following year.

None for, 12 abs, 9 opposed, motion fails.

Motion #5: Robomaster

Motioned By: Erin

Seconded By: Julian

No discussion

None op, 7 abs, majority for, motion passes.

Motion #6: McMaster Makers

Motioned By: Konrad

Seconded By: Brendan



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Motion: The McMaster Makers Initiative

Whereas the McMaster Makers Initiative has established a strong backing from the faculty of engineering, immense appeal from the engineering student and faculty body, structured administrative and project development executive in assembly, high MES member presence, arranged and documented projects in line, fruitful team assemblies and goals achieved, a successful workshop, and set collaborations with other MES affiliated clubs in place, BIRT the McMaster Makers Initiative be recognized as an official MES affiliate.

Abs: 3

Opp: 2

For: majority

Motion passes

Exec Feedback

Ba

Other Business:

Supdates:

Yousef: none here

Erin: none

Desmond: selling tshirts, preorders until exams

Hassan: tron, one of the profs let us put his face on a sticker, BP night december 5

Anti tron tron club sticker!

MGMT: games night thursday

Btech: pool night last thursday as well as a first year event. Movie, hot chocolate, it was nice

1st: movie night went well

Ibio: sweater designs are almost done, first year reps at meetings, ibio and HSCI cross event, it was fun

Matls: just selected a logo for rebranding and will go out at industry night in late jan

Aya: ECE: second review session for a midter, movie night done and exam destresser at BP soon

Aya: MEC: MEC chair due novmeber 30th

Nick: we can get student fees released over at gilmore hall, so we can get monday. Writin' cheques

Terrel: none, already covered

Liam: first year event went well, cleaned up nice! This week there will be a tour with a university from chile. Image of an engineer award is due on the 5th. If you want to nominate someone, do it! Picking

Prepared by [name]

[email]



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christmas doors! Drowning in projects, not exams. Lots of free time in december so talk to me then if you need anything

PC: where can we find the award? It's not on our website.

A: thats the old one, go to the main page, scroll down and hit view all posts. Go all the way down. Copy pasta the links.

Q: update on if we have any interests and any applications

A: none so far but will check again

Sports: currently working on bubble soccer event (2nd weekend in january)

A: with ECCS?

A: no but they are helping

Mech: mehc club has a new name, exec, everythugn. Working with dan to get an industry night going and we have a new logo

EO: tlking with Co-OCs about their plans moving forward and diversity week

Chem: rock climbing thursday

ECS: met with EGS about a social night. Industry night in january

Natasha: industry night, trivia night later in the semester

Society: annual holiday party on tuesday, will be fun

Ian: 1P13, vote postponed to an undisclosed time. Working on a bunch of stuff wrt changes to services.

Q: will i bio have a say in the vote?

A: no, just ian

Kat: no

Mel: talking about sustainability committee. Events form being sent shortly. Conference delegates should be notified tomorrow. European courses, \$50 so talk to her for over the summer. Talk about co-op fees and health insurance. Some students werent being covered. Depends on their semester and units for the year (less than 18 credits youre not an MSU member) and dental and health are provided by MSU. working on a solutino so all students can be covered. Looking at a 30 admin fee that every student needs to pay, on top of the current coop fee. Additional undisclosed amount for actually being covered (but can opt out). So people who are on coop will be covered.

PC: if they didnt have 18 units, but they took 1 sem off for coop, they dont have health insurance. Does this include btech? Since they have to take time off?

A: usually btech is fine. But it also depends on if they have less than the 18 required units.

Emma: frequency is being published right now. A little late but trouble getting articles. If you are interested in writing, email me. If you receive more than 1000 from the MES, you have to write an article Will work on the MES card after exams. Advertising, why you should get it, and how to get it.

Hopefully rolled out in the first week of school, and printed in the second week. Was looking into new tent, but paused because we might not need it. Will work on it with kat. Looking into a new charging station. Hoping to get something like the one in thode (with the lockboxes). And where we an put it

Civil: picked 2nd year reps, 4 of them. Festivus coming up on dec 1st, 70 people going

BEAMS: academia month, grad night, letrues series and a lab tour at the reactor (2 people contaminated)

Industry night

Admin

Btech: talk to me aras or liam about Btech positions. We really need it!

Prepared by [name]

[email]



MCMaster ENGINEERING SOCIETY
Council Meeting Minutes



Nov 25, 2018 | Room | Time

Motion to Adjourn the Meeting

Motioned by:
Seconded by:

Prepared by [name]
[email]