

**Faculty of Engineering**  
**Joint Health and Safety Committee Minutes**  
**July 10<sup>th</sup>, 2024 (Virtual Meeting)**

FINAL

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Management Member	Department	Attendance
Jonathan Bradley	Engineering Physics	Absent
Robert Fleisig	Experiential Learning Office	Present
Fei Geng	SEPT (BTech/SEP)	Present
Raja Ghosh	Chemical Engineering	Regrets
Carlos Filipe	Chemical Engineering	Absent
Younggy Kim	Civil Engineering	Absent
Ridha Khedri	Computing and Software	Absent
Vacant - ( <i>Certified Member</i> )	Management Cert. Member	-
Dmitri Malakhov	Materials Science	Absent
Sarah Novosedlik	Management Staff Rep.	Absent
Stephen Tullis (Co-Chair)	Mechanical Engineering	Regrets
Sarah Alizerig	Outreach	Present
Boyan Zhang	Biomedical	Absent
Jeff Longley	General Eng	Present
Worker Member	Department	Attendance
Stephan Olaizola	Electrical Engineering	Absent
Ron Harwood	Electrical Engineering	Regrets
Parmveer Bola	iBiomed	Absent
Monica Han	Civil	Present
Oliva Pare	Civil	Present
Aryen Shakib	CUPE Unit 1	Absent
Michael Lee	Mechanical Engineering	Absent
Omar Danta	SEPT	Present
Heera Marway	MMRI	Present
Ed McCaffery	Materials Science	Present
John Nakamura ( <i>Co-Chair</i> )	Computing and Software	Present
Timothy Stephens ( <i>Certified Member</i> )	Chemical Engineering	Present
Doris Stevanovic ( <i>Certified Member</i> )	CEDT	Present
Jim Cleaver	Machine Shop	Present
Lawrence Mak	General Eng	Present
Martha Kafuko	Experiential Learning Office (ELO)	Absent
Vacant	180 Bloor Street	-
Vacant	Engineering Physics	-
Vacant	Biomedical	-
Vacant	Hatch Building	-
Consultants/Guests	Department	Attendance
Leah Allan	University Health and Safety	Present

ISSUES FOR CENTRAL TO ADDRESS

Action Items

None.	
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## 1. Minutes and Announcements

Minutes Approval: Stephen Tullis Management Co-Chair: _____ John Nakamura, Worker Co-Chair: _____ June 12 <sup>th</sup> , 2024 minutes – no changes. Minutes were approved by 1 <sup>st</sup> D. Stevanovic and 2 <sup>nd</sup> by R. Fleisig	June 12 <sup>th</sup> , 2024 Minutes sent to UHS on
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## 2. Business Arising

<b>1. Room Inspection Summary Lists (September–August yearly)</b> None.	
<b>2. Room inspections – Lab inspections – extra eyes</b> -Both T. Stephens and D. Stevanovic requested support with lab inspections in their areas. L. Allan will follow up once her replacement has been trained so they can perform the inspections together.	

## 3. New Business

<u>Designated Substance – Lead Acetate/ Lead (II) Oxide</u> -The committee reviewed, discussed and provided the following feedback:  J. Longley provided the following recommendations: -Page 3, “All glassware and pipet tips rinsed with water to remove remaining lead before washing;” - Rinsed into what to contain the waste water? -Page 5 – Define full PPE as in list what is required -Page 5 – “larger spill” – Define larger spill -EOHSS should be replaced with UHS  <u>Simultaneous Thermal Analyzer – SOP</u> -The committee reviewed, discussed and provided the following feedback: L. Allan provided the following recommendations: "In general, I find it lacking in specifics with respect to statements like "hydrogen content must be kept below flammability limit" but no mention of what this is, or "ensure all materials are compatible" - i.e. by checking SDSs and chemical compatibility charts (reference or Appendix), "check gas connections" - refer to Users Manual pg.#, check gas regulators to ensure pressures are high enough to run the experiment" - on the main cylinder valve (until empty, the delivery pressure will show what it's supposed to) - what is this "high enough" value? etc. 1. Training should include Gas Cylinder and Chemical Handling & Spills 2. Additional PPE should include thermally resistant gloves 3. Crucible cleaning should be done only in a fume hood 4. Consider providing a maximum sample size	
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<p>Emergency procedures - Security is now Campus Safety Services and downloading the McMaster SafetyApp is the best way to contact them</p> <p>6. EOHSS is now UHS (University Health &amp; Safety)</p> <p>If leaving unattended or overnight, please post a warning on the instrument and on the exterior of the door (if overnight) in case something happens and Campus Safety arrives, they should understand the dangers."</p> <p>D. Stevanovic provided the following recommendations:</p> <ul style="list-style-type: none"> <li>-Provide definition of student (as in graduate, undergrad, etc.)</li> <li>-Regarding exhaust connected to ventilation system and ensure it is working, explain how to confirm that the ventilation system is working. Is there an alarm, confirm that it is connected to a fume hood, verify fume hood and fume hood alarms working correctly.</li> <li>-Confirm that Nuclear Operations is reviewing this also due to use of radioactive material. Should be submitted to the MNOJHSC as well for review.</li> </ul>	
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#### 4. Incident Reports

<p>Presented by L. Allan:</p> <p>Engineering Physics – TAB-205 No Injury - Hazard</p> <p><i>Incident:</i> Graduate student reported water dripping from supply air plenum onto MOCVD (Medical Organic Chemical Vapour Deposition System) equipment console causing potential electrical hazard. Security and Facility Services notified (WO entered). Water also found in TAB 104J - may be unrelated.</p> <p><i>Resolution:</i> Facility Services is working to correct this issue - providing insulation to prevent condensation.</p> <p>Workorder number for this is 74127.</p> <p>Chemical Engineering– ABB-C317 Healthcare - Abrasion/Contusion</p> <p><i>Incident:</i> While being trained on use of centrifuge and specifically changing the rotor, Student removed rotor with holders attached (but not affixed) and a holder fell down and hit their knee.</p> <p><i>Resolution:</i> Trainers are encouraged to review the SOPs, manuals, and procedures prior to hands-on training to ensure information communicated properly. Review of training process was reiterated. Centrifuge has been moved to less obstructed space. Email to group.</p>	
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<p>Mechanical Engineering – ABB-C317 Healthcare - Body Fluid Exposure</p> <p><i>Incident:</i> During experiment, mixture of cancer and natural killer cells splashed into student's eye. Mixture was connected to a microchip via a tube which when removed squirted the liquid out.</p> <p><i>Resolution:</i> Supervisor to remind everyone to wear safety goggles (not glasses) when working with a splash hazard. This requirement will be implemented when working with mammalian cells outside of the biosafety cabinet and specifically with the microscope.</p>	
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## 5. Safety Reports

AREA	REPORT SUBMITTED
1. CAS	Yes, received by M. Robinson.
2. Chemical Engineering	No.
3. Engineering Physics/CEDT	No.
4. Civil/ADL Engineering	No.
5. General	No.
6. iBiomed	No.
5. Electrical Engineering	No.
6 Engineering 1	No.
7. Mechanical Engineering	Yes, received by M. Robinson.
8. Materials Science & Eng.	No.
9. MMRI	No.
10. SEPT & BTech	No.
11. HATCH	No.
12. Machine Shop	No.
13. 180 Bloor Street	No.

## 6. Central Committee Minutes/Incidents

<p>Update provided by D. Stevanovic</p> <ul style="list-style-type: none"> <li>-Update on Panic alarm push buttons, Ivan L'Ortye Head of Campus Safety Services has requested that we provide him with an Excel Sheet to summarize where panic alarms are located (including identifying bldg., room, if a labs, office desks, washrooms) and they will review</li> <li>-Smoking on campus still an ongoing issue</li> <li>-Reminder to keep a paper trail of incident reports</li> <li>-Central committee will not be meeting over the summer (July and August)</li> </ul>	
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<p>-Working group has been established to evaluate pedestrian safety on campus 2018-23 there has been an increase in employees from 14,000 to 18,000 people but the number of incidents remains the same.</p> <p>-Regarding the Health and Safety act, the term “Worker” was updated, so that if you have a working relationship with the university (paid or unpaid) the act still applies, and all required training is to be taken.</p>	
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## 7. Other Business

<p>-L. Allan reminded the committee that summer camps have begun and to be aware of their presence on campus especially during morning drop offs and afternoon pick ups.</p>	
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## 8. JHE Restructuring

<p>-Upcoming changes to Engineering Physics, D. Stevanovic to confirm.</p> <p>-Chem Eng and Chemistry Biology shared spaces need to be inspected by both reps from Faculties of Engineering and Science.</p> <p>-J. Nakamura reminded members that any restructuring changes also be copied to Jeff Longley as well.</p>	
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Motion to adjourn: Motion to adjourn 1<sup>st</sup> D. Stevanovic and 2<sup>nd</sup> J. Longley

NEXT MEETING: Wednesday, August 14<sup>th</sup>, 2024

PLEASE NOTE: If you cannot attend this meeting, please send regrets to Caroline or Melissa at [thehub@mcmaster.ca](mailto:thehub@mcmaster.ca)