

Faculty of Engineering
Joint Health and Safety Committee Minutes
July 13, 2016
9:30 am, JHE-114

Management Member	Department	Attendance
Robert Fleisig	Engineering 1	Regrets
Fei Geng	BTech	Absent
Wenbo He	Computing and Software	Regrets
Doug Keller - (<i>Certified Member</i>)	Management Cert. Member	Present
Vladimir Mahalec	SEP	Absent
David Novog	Engineering Physics	Regrets
Nigel Schofield - (<i>Co-Chair</i>)(<i>Certified Member</i>)	ECE	Present
New member needed	Civil Engineering	
Stephen Tullis	Mechanical Engineering	Regrets
Carm Vespi	Alumni	Present
New member needed	Chemical Engineering	
Igor Zhitomirsky	Materials Science	Present
Worker Member	Department	Attendance
Tyler Ackland	Electrical Engineering	Regrets
Dulcie Amaral	SEP	Absent
Paula Gremmen	BTech	Present
Peter Jonasson	Engineering Physics	Absent
Frances Lasowski	CUPE – Unit 2	-
Adam Lenarcic	CUPE – Unit 1	Present
Michael Lee	Mechanical	Present
Ed McCaffery	Materials Science	Regrets
John Nakamura (<i>Co-Chair</i>)	Computing and Software	Present
New member needed	Civil	
Florence Rosato	Mechanical	-
Doris Stevanovic (<i>Certified Member</i>)	CEDT	Regrets
Timothy Stephens (<i>Certified Member</i>)	Chemical Engineering	Present
Elizabeth Takacs	MMRI	Regrets
Teresa Trimboli	Computing and Software	Absent
Kent Wheeler	Civil	Regrets
Jerome Yuan	MMRI	Absent
New member needed	Biomedical	
New member needed	Engineering 1	
Consultants/Guests	Department	Attendance
Dane DeMan	EOHSS	Present

Management Member	Department	Attendance
ISSUES FOR CENTRAL TO ADDRESS		Action Items
None		

1. Minutes and Announcements

<p>Minutes Approval:</p> <p>Nigel Schofield, Management Co-Chair: _____</p> <p>John Nakamura, Worker Co-Chair: _____</p> <p>There were no changes to the Minutes for June 2016, but could not be approved because we did not have quorum.</p> <p>NOTE: Quorum was not met at the July meeting. Therefore, the July minutes cannot be approved and will be kept as reference.</p>	
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2. Business Arising

<p>1. Hatch Building Update</p> <ul style="list-style-type: none"> - continuing concrete pours in building - 2nd and 3rd Floor connecting in August 2016 (will be providing an email update to people affected in JHE) - will speak with Carm Vespi re: the camps being affected by the pick-up and drop-off in front of JHE Annex (children) - crosswalk issues – continue to monitor the situation <p>2. Room Inspection Summary Lists</p> <ul style="list-style-type: none"> - Follow up at next meeting (re: extra eyes during lab inspections) <p>3. Update from Facility Services: Fire Alarm JHE</p> <ul style="list-style-type: none"> - We will be moving forward with complete upgrade at the circuits in JHE - permits in place by October 2016 and completion by the end of the year. <p>(N Schofield contacted B. McDougal to supply additional info to the Committee)</p>	
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3. New Business

1. SOP – uni-directional solidification

- In Training Section: include EOHSS mandatory university training “All university required training is completed” put this in the SOP.
 - #7: General Safety Instructions: - add “high temperature gloves”
 - Keep a list in the lab of authorized users of the equipment for your records
- Equipment Malfunction:
- Can the equipment become pressurized? No.
 - Discussion about leakage potential of the equipment and breaks.
 - CANMET conducts their own SOP

4. Incident Reports

Two for the month of June, 2016.

- 1.) JHE-Field. Camp instructor was performing gymnastic tricks and hit head on ground.-Supervisor advised instructors not to perform gymnastics during breaks or work time.
 - 2.) JHE-A102-Camp instructor cut finger when using scissors-Supervisor advised instructor to use more care when handling scissors.
- Incidents are way down so far for July 2016 compared to last year. Possibly, the reason for this is the purchase of new gloves for the students in the camps when using glue guns.

5. Safety Reports

AREA	REPORT SUBMITTED
1. MMRI	No.
2. Chemical Engineering	<p>Yes. 3 Labs. Nothing major.</p> <ul style="list-style-type: none"> - First Aid kits (outdated): But these are not official so this is ok. Make it clear to users that these are not the official kits - Spill kits didn't have granular for base and

	<p>solvents. Gave contact to get new</p> <ul style="list-style-type: none"> - Missing stickers on fridge <p><u>Note:</u> Their Faculty members are now doing their ¼ yearly inspections.</p> <p>T. Stephens has become an Official Certified Worker (Engineering now has 3 N. Schofield, D. Stevanovic and T. Stephens)</p>
3. Engineering Physics/CEDT	No.
4. Civil Engineering	No.
5. Electrical Engineering	No.
6. Engineering 1	No.
7. Mechanical Engineering	Yes. Submitted online.
8. BTech	No.
9. CAS	No.
10. SEP	No.
11. Materials Science & Eng.	No.
12. General Engineering	Yes. Nothing major. Minor shelving. JHE-370 (closet). Room is blocked with boxes and clutter. Adam Lenarcic and Ginny Riddell to follow up with Deans office to solve issue.

6. Central Committee Minutes/Incidents

None	
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7. Other Business

<p>1. D. DeMan</p> <ul style="list-style-type: none"> - Questions on Chasing the Peak. Government mandated to scale back on ventilation (minimal cooling). Asked Facility Services to look into messaging/emailing re: Heat Stress Awareness Program to the community. - No legal maximum for temperature. Guidelines provide recommendation based on light/moderate/heavy work. . - Send your questions to EOHSS regarding the heat issues and they may redirect to Facility Services. <p>2. Fire on Campus</p> <ul style="list-style-type: none"> - Significant fire (ET Clarke Centre) 	
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- Contractor was doing work/torch cutting
- Propane tank exploded
- No injuries reported
- Power outage ensued
- Facility Services worked tirelessly to get everything back up. Great job.
- Ministry sent a report to the contractors committee and not the university

3. M. Lee: Discussion about flammable cabinets and signage and chemicals in wrong cabinets.

- First Aid Website is out of date. Contact EOHSS to let them know so it can be updated – an audit is being conducted of all stations on campus. E.F.R.T is the go to contact area. If not available you can always contact Security.

4. D. Keller:

Labs have 3 air flows under control: supply, fumehood exhaust, general (room) exhaust. The retrofit project to save energy is altering the air changes per hour (ACH) by modulating the general exhaust. It is connected to chemical detectors (PID, photoionization detector) to increase the ACH if fumes escape from the fumehood.

In the original design of this retrofit the linear face velocity of the fumehoods was not to be changed from previous set points. Below 6 inches, the sash opening the volumetric flow through the fumehood (cfm) was not throttled back enough to keep the linear flow at 100 lfpm. This was done to ensure that there was enough volumetric flow to dilute any fumes that might be formed by experiments within the hood.

The contractors and Boiler Room personnel found that the energy savings achieved through cutting back the general exhaust fell short of what they had hoped for. They concluded that this was due to the volumetric flow through the fumehoods when the sash was closed. They have changed the programming to cut back the volumetric flow when the sash is below 6". This will not affect the linear face velocity when the sash is open between 6 and 18".

D. Keller talked with the contractors and Joe Emberson (Director of Engineering Operations) about what the set-

point ACH should be under various conditions. As long as they maintain reasonable ACH when people are working in the lab (or overnight if fumes are detected by the PID system), a safe working environment will be maintained while saving energy costs.	
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8. JHE Restructuring

J. Nakamura has made upgrades to the on-line inspection website to handle comments for each infraction message.	
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There was no motion to adjourn because we did not have quorum.

*NEXT MEETING: Wednesday, August 10, 2016 in JHE-A114 at 9:30am.

PLEASE NOTE: If you cannot attend this meeting please send regrets to Ginny Riddell at ginny@mcmaster.ca