### Chemistry Local Safety Team Meeting Minutes APPROVED

ame of Team: Chemistry Local Safety Team	Chair(s):	Derek Gates & Monica Clarkson
Date: May 18, 2023		11:01 am Online Zoom Meeting

#### **AGENDA:**

- 1. Roll Call
- 2. Approval of Previous LST Meeting Minutes
- 3. Additional Agenda Items & Approval of Agenda
- 4. Review Central Accident/Incident Reporting System (CAIRS) report of Accidents/Incidents
  - Monthly Incident List & Statistical Summary Report
- 5. Review Workplace Safety Inspections (including any changes to equipment, machinery or work processes that may affect the health or safety of workers)

- 6. Review Education and Training
- 7. Ongoing Business Status of Action Items, Review of Previous Minutes
- 8. New and Other Business
- 9. Next Meeting
- 10. Meeting Adjournment

1. ROLL CALL				
Worker Representatives	Work Location	Present	Regrets	Absent
Guillaume Bussiere	Chemistry - Teaching Faculty			$\overline{\checkmark}$
Karen Button	Chemistry – M&P, Stores Manager			
Ken MacFarlane	Chemistry - M&P, Director, Finance and Operations	☑		
Mohamad Rezaei	Chemistry - M&P, Director, Technical Services	$\square$		
Ben Herring	Chemistry – Research Tech			
Ben Nadeau	Chemistry – Graduate Student		$\overline{\checkmark}$	
Cameron Zheng	Chemistry – Graduate Student		$\overline{\checkmark}$	

Employer Representatives	Work Location	Present	Regrets	Absent
Derek Gates	Chemistry – Faculty, Co-Chair			
Monica Clarkson	Chemistry - M&P, Co-Chair & Safety Program Officer			



#### Chemistry

Faculty of Science

Resources/Guests	Work Location	Present	Regrets	Absent
Peggy Paduraru	UBC Safety & Risk Services			
Richard Wambolt	UBC Safety & Risk Services		Ø	

2. APPROVAL OF PREVIOUS LST MEETING MINUTES				
(Statement to indicate minutes of previous meeting have been read & acknowledged and to record any corrections to it)				
Are the minutes approved?	Yes ☑	No □		
		-		

3. ADDITIONAL AGENDA ITEMS & APPROVAL OF AGENDA		
Is the agenda adopted? Agenda had additions to the CAIRS reports.	Yes ☑	No 🗆

#### 4. REVIEW CAIRS REPORT OF ACCIDENTS/INCIDENTS:

See attached incident report:

• Monthly Incident List & Statistical Summary Report (make note of trends etc. For any general CAIRS information that requires discussion or action, please record under "New Business". Any incident specific items and follow up requests are to be listed below)

(\* See Legend at End for Priority and Status Codes)

Item # (Use CAIRS Incident ID #)	Priority	Date	Action Plan (Actions Taken/Need to be taken)	Assigned To	Follow up: Date Pending	Status
129681 / 129682	С	Jul 22, 2022	Grad student removed Pasteur pipette with phenylbis(trimethylsilyl)phosphine residues on it from glovebox and discarded it into plastic glass waste bucket with plastic bag liner. The plastic bag liner was ignited by chemical residues that remained in the pipette.  • Lengthy discussion regarding glass waste buckets; no recommendations established.  • DG conducted a straw poll of faculty at the Sep 29 Faculty Meeting. Faculty are in favour of metal glass waste containers.	DG/MC	In Progress	IP

4. REVIEW CAIR	RS REPOR	RT OF ACCIDEN	TS/INCIDENTS:			
			<ul> <li>Response from the Waste Management team from Building Operations was received on Dec 19, 2022. They have discontinued the metal pails. If the department would like to purchase and re-stock the metals pails, the Waste Management team would service them as needed. Monica to check if there are still any discontinued pails available for use.</li> <li>Metal pails are currently still available to UBC Chem and are still being circulated. There is approximately a 50/50 ratio of metal to plastic pails, which are in circulation within the department. After further discussions with UBC Waste Management, they have agreed and confirmed that it is okay for us to label and use the existing metal pails with "UBC CHEM". Once the metal pails have been labelled, the waste management team will be trained to deliver the metal pails to the department. Signage with instructions will be posted in the glass waste room to encourage synthetic lab users to use the metal pails.</li> <li>LST Comments: No updates at this time.</li> </ul>			
131306/131331	С	May 11, 2023	Inhalation of Barium Hydroxide Octahydrate I did not personally witness the incident. I was communicated by a graduate student that one of the volunteers for the Science Rendez-vous event had inhaled a particle of barium hydroxide while weighing out 30 g samples of this substance for one of the demonstrations.  Summary provided by chem safety staff:  A volunteer, a couple grad students and a faculty member were preparing for a demo. Everyone was wearing full PPE, including lab coat, safety glasses, long pants, gloves and closed toed shoes. The group was going through a checklist,	MC	In Progress	ΙΡ



4. REVIEW CAIRS REPORT OF ACCIDE	ENTS/INCIDENTS:		
I NEVIEW CAMB NEI ON OT AGGIST	at which time they determined that 6 aliquots of 40 grams		
	of barium hydroxide octahydrate was needed to be		
	prepared for the Hot and Cold Flask Experiment. The		
	volunteer did not have any written instructions or		
	procedures available to them. Instruction was given to		
	them verbally. The SDS was not reviewed prior to the		
	incident. To weigh the 40 grams of barium hydroxide		
	octahydrate volunteer was provided with a spatula, a mini		
	dixie cup and scale to weigh out the reagent. To transfer		
	the reagent from the dixie cup to the falcon tube they were		
	provided with filter paper to make a funnel. The barium		
	hydroxide octahydrate had the same consistency of sand.		
	The bottle of barium hydroxide octahydrate had solidified		
	at the bottom, so the volunteer dug into the bottom of the		
	container with a spatula to get the remaining material out.		
	During the process of transferring the 5th sample from the		
	dixie cup into the falcon tube the volunteer felt a solid		
	object enter your throat. There was no pain or burning		
	sensation, just discomfort in the throat. At the same time a		
	graduate student came to check in on the volunteer. The		
	volunteer notified them that they inhaled the barium		
	hydroxide octahydrate. The grad student immediately		
	notified the faculty member. The faculty member called the		
	Chemistry Safety Officer to ask for instructions. The safety		
	officer notified the faculty member to refer to the first aid		
	instructions in the SDS and to call BC Poison Control. The		
	faculty member instructed the volunteer to drink water as		
	per the SDS instructions and moved the person outside to a		
	well-ventilated area. The safety officer subsequently called		
	UBC First Aid. First Aid arrived within 7 minutes and		
	provided support. BC Poison Control provided instruction		
	over the phone. They notified the faculty member that		
	there was no need for the individual to seek immediate		



4. REVIEW CAIR	RS REPOF	RT OF ACCIDEN	TS/INCIDENTS:			
			medical attention, unless the individual started feeling			
			additional symptoms. The discomfort in the volunteer's			
			throat persisted until 1 pm, but other than that they felt			
			okay.			
			Actions and Resolutions:			
			(1) Update the demo procedures to use barium hydroxide			
			in the fume hood.			
			(2) Remind supervisor to provide written procedures,			
			training and SDS to volunteers before starting preparations.			
			(3) Review SDS and determine if barium hydroxide			
			octahydrate is required to be used in a fume hood. If			
			required, add this to the current procedures.			
			(4) Signage for fume hood in B150A, should include			
			instructions on who to contact to unlock fume hood.			
			(5) Chem safety staff to send emergency response			
			procedures to faculty member.			
			LST Comments:			
			All corrective actions are in progress except for item 5			
			which has been completed.			
			Student fainted			
			Midway through lecture, the student rose from their seat			
			and began to descend the stairs and exit through the door,			
			walking with a somewhat unsteady gait. As the student			
			passed the door, several other students saw them collapse			
			(fainting), ending up sprawled supine on the floor of the			
131328/131329	С	May 16, 2023	outer hallway. Two fellow students and the instructor went	MC/CZ	Complete	С
			to check on the student, and within about 1 min when they			
			arrived, the student was coming to from the faint, opening			
			their eyes. The student was able to converse immediately,			
			and cogently, though was confused about how they had			
			ended up in the hallway, and reported feeling faint. Under			
			the direction of a peer who had emergency responder			

training, the student gradually sat up, resting against the wall, and staff from the chemistry office brought a glass of water. The student felt okay after sitting, but disclosed that they had had a mild concussion within the last two weeks. Chem safety staff was notified of the incident and called campus first aid. Campus first aid responded after 20 minutes. Campus first aid assessed the student and transported the student (with the class TA in attendance) to the UBC hospital where they could be assessed by medical professionals.  Actions and Resolutions: (1) Emergency response procedures were provided to the lecturer and TA.  LST Comments: This incident was a personal medical issue. All corrective actions have been completed.  4L Dichloromethane Spill at Chemistry Stores At approximately 15:55 pm, two customers arrived at Chemistry Stores (ChemStores) at B170 of the Chemistry Department to pick up their order (Planon order 201482.00). That order included two 4L bottles of ACS grade Dichloromethane CAS: 75-09-2 (DCM).  May 16, 2023  May 16, 2023  May 16, 2023  May 16, 2023  Due to the stores closing in five minutes, storeperson helped customer collect items by gathering two of the items while the customers were picking the flammable solvents from the solvent shed outside the ChemStores loading bay. The storeperson took two 4L bottles of DCM	4. REVIEW CAIRS	REPORT OF ACCIDENT	TS/INCIDENTS:			
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4. REVIEW CAIRS REPORT OF A	ACCIDENTS/INCIDENTS:	
	loading bay, the storeperson told the customers to pick up the bottles.	
	The customer picked up one bottle of DCM and immediately slipped from their hand. It hit the floor and shattered.	
	Upon witnessing the accident, the storeperson immediately told everyone in the ChemStores to vacate B170. At that point in time, the other people present in the ChemStores were: 4 customers total, 3 storepersons, stores manager, ThermoFisher Supply Center specialist. The customers did not react at first. The storeperson then placed on their respirator and walked over to the customers to order them to vacate the stores. Stores Manager also reiterated that everyone needed to leave. All of B170 (except for 2 storespersons and stores manager) was vacated in approximately 1 minute.	
	Storeperson walked over to aisle 5 to pick up three spill pillows and gave them to the other storeperson. They then walked outside the ChemStores into the hallway to retrieve the spill cart.	
	15:57pm Stores Manager called Safety Officer to advise what happened, directed to call 911. Exited Stores, remaining two storesperson also exited Stores. Storeperson left the spill cart unused in Stores and exited to the hallway. Safety Officer said they were going to call Campus Security. Campus Security was called at 15:58pm and was directed to notify SRS pager.	



4. REVIEW CAIRS REPORT OF ACCIDEN	TS/INCIDENTS:	
	15:58pm Stores Manager called 911 to report spill, request	
	hazmat team. Call lasted 2 minutes.	
	16:01pm Stores Manager called Safety Officer to update	
	and walked to front of B wing to wait for fire response. Two	
	storespersons were outside ChemStores controlling access.	
	16:05pm Stores Manager called Director, Finance and	
	Operations to advise about ongoing situation. Could hear	
	sirens of approaching fire response during this call.	
	Stores Manager met fire response on Main Mall, explained	
	situation/what spilled and showed them to Stores via the	
	outside path to shipping/receiving door. Met Safety Officer	
	there, connected them/fire response. The exterior	
	shipping/receiving door had been left open (with staff	
	person standing outside to control access). Fire response	
	took over scene and they controlled entry to building. No	
	staff reentered B-wing 170. I explained to them where the	
	broken bottle was, that the bottle had shattered and that	
	everyone had been evacuated. They asked for spelling of	
	chemical name, provided as dichloromethane and	
	methylene chloride.	
	Campus Security was also present.	
	Two storepersons and myself stayed on scene with Safety	
	Officer, Director, Finance and Operations and emergency	
	responders. Glass was cleaned up by hazmat crew. They	
	also collected the spill pillows and put them in a plastic bag,	
	and placed them in the fume hood in B170D, the bag was	
	left open to allow the solvent to evaporate. They also	
	brought out boxes of stock that had been splashed by DCM.	
	The boxes were put on the ground outside the	



4. REVIEW CAIRS REPORT OF ACCIDEN	TS/INCIDENTS:	
4. REVIEW CAIRS REPORT OF ACCIDEN	shipping/receiving area. The contents were checked and the inner goods were not soaked or damaged, just the exterior cardboard boxes.  Custodians were notified not to enter stores that evening or transit through the room. Notification by Stores Manager to custodian on 4th floor of A-wing, that person then notified the rest of the crew that worked in those two buildings not to enter Chem Stores or transit through to dumpsters/recycling outside. "Do Not Enter" signage was posted at both entry doors to Stores. It was also reported via a service request in Planon.  Fire response/Hazmat crew gave all clear at 17:40pm. No staff reentered B170 until this point. They used a VOC detector and stated the ppm level in stores was 0ppm except at the localized area of the spill right at floor level where it measured 0.6ppm. Safety Officer, Director, Finance and Operations, storespersons and myself secured stock that had been removed from stores (unpacked bags/inner goods from cardboard boxes that were	
	posted at both entry doors to Stores. It was also reported via a service request in Planon.  Fire response/Hazmat crew gave all clear at 17:40pm. No staff reentered B170 until this point. They used a VOC detector and stated the ppm level in stores was 0ppm	
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	Actions and Resolutions:  (1) To update procedures and to provide training for staff for handling solvent bottles to emphasize that they should be placed in secondary containment.  (2) Provide and train staff with emergency response procedures.	



4. REVIEW CAIRS REPORT OF ACCIDENTS/INCIDENTS:								
		<ul> <li>(3) Train staff on spill response procedures for common solvents and other chemicals held in stores as well as other received chemicals.</li> <li>(4) Setup calendar reminders for yearly fit testing of respirators. Due date for next fit-test written on the respirator storage location. Reminder to staff of proper use for respirators. A few staff are not permitted to use their respirators until they have completed the fit-test recertification.</li> </ul>						
		LST Comments: All corrective actions are in progress. The investigation is to be continued.						

## 5. REVIEW OF WORKPLACE SAFETY INSPECTIONS (including any changes to equipment, machinery or work processes that may affect the health or safety of workers)

Attach inspection checklist(s) and report(s) to these meeting minutes and use this table to record discussion and new recommendation(s)

Item # (Use Inspection #)	Use Inspection #) Priority Discussion/Comments/Recommendations					
Sep 2018	Demo Lab Areas  BH will oversee day-to-day processes  KM/HW cleaned-up benchtop areas on Mar 10; sorted out chemicals for disposal on Mar 16 and plan to attend for further clean-up/disposal processing on Mar 25 in the Demo Room  Jose has a TA organizing the Demo Kits  Lab Tech & TA working on Demo Kits  Inspection of the demo areas have been completed. All items listed above are on hold or in progress as follow up items.  LST Comments: No updates at this time.		BH/KM KM	On hold In Progress	IP IP	
Mar/Apr 2023	С	Chem D & E Research Spaces All designated research labs and research related office spaces within Chem D & E block have been inspected in March and April 2023.  The items that were noted in the Lab Safety Inspections were mainly low risk items such as updating outdated signage and providing misplaced signage for chemical fridges. A couple higher risk items were also noted, including a compressed gas cylinder that was being stored on a cylinder cart and peroxide-forming chemicals were not being signed, dated or tested. The higher risk items were addressed immediately with lab visits from MC. A compressed gas cylinder holder was installed within 24 hours and training was provided to lab personnel about proper labelling, storage, and testing of peroxide-forming chemicals.  LST Comments:  80% of the deficiencies have been completed.	MC	In Progress	IP	

<sup>\*</sup> GI- General Inspection

LI - Lab Inspection S&SI Shops & Services Inspections

#### 6. EDUCATION AND TRAINING

(General discussion, RMS Courses, external training opportunities etc. For all actionable items please list below)

Item#	Priority	Discussion/Comments/Recommendations	Assigned To	Follow up: Date Pending	Status
May 2023	E	Next UBC CHEM Fire Extinguisher Training sessions will be held on May 23 <sup>rd</sup> at 12:30 pm and 1:30 pm	MC	N/A	N/A

Original Item #	Priority	Assigned To	Follow up: Date Pending	Status	
Ongoing	MC	Ongoing	N/A		
	С	Develop review process for SWPs before being posted onto Safety webpage;  SWP to have Risk Assessment information incorporated  Include resources about compatibility and storage of chemicals			
2020		LST Comments: The Chem LST has a student worker available this summer to help draft SWPs for the department. DG to provide a list of priority SWPs that should be drafted.	DG	Ongoing	IP

7. ONGOING	<b>BUSINESS</b> –	Status of Action Items (includes review of previous meeting minutes)			
Dec 2021	С	<ul> <li>Earthquake Securing straps for large Dewars; and, Lab installations for Compressed Gas Cylinder tie-downs</li> <li>TM advised that Bldg E completed as at Sept 15/22;</li> <li>Due to new equipment installation in C224 they will be installing the straps there next; and</li> <li>TM is reviewing Bldg D – Knuckle compile list and that will be next</li> <li>A proposal for securing compressed gas cylinders for D240 has been established. If approved, the upgrades will occur by the end of February.</li> <li>Parts have been ordered for the items remaining in Chem D's knuckle.</li> <li>Buildings Chem B and E have been completed.</li> <li>The outstanding items for Chem D's knuckle are now completed, which completes the Chem D building. Chem C224 is in progress. The next steps are to start working on Chem A.</li> <li>Buildings Chem C and D have been completed. Inspections of Chem A have begun.</li> </ul>	MR	In Progress	ΙP
Feb 2021	С	LN2 Safety Training – TM working on setting this up as an actual course with a quiz and certificate  TM is working on the processes required for this course LST Comments: This item has been referred forward.		Referred Forward	RF

Nov 9, 2022	C	<ul> <li>Two staff raised concerns regarding the use of dichloromethane (DCM) in the open lab. One experiment in first year and two experiments (3 lab sessions) in 2nd year.</li> <li>First year labs have been moved off of the bench and into the fume hoods going forward.</li> <li>Air changeovers were discussed for each lab. Preliminary calculations were also presented. MC to request for SRS to double check the proposed calculations.</li> <li>MC and KM to discuss this concern with the course lab director to see what changes can be made to the experiments that use DCM outside of the fume hood.</li> <li>We are discussing all of the available options with teaching faculty and staff.</li> <li>The CHEM LST, has discussed, reviewed and considered best practices of the DCM exposure concerns. This has also been discussed with the Head. Going forward, the Chemistry teaching labs will no longer be permitted to use DCM on the bench top. If possible, experiments should be moved into a fume hood. If one must use DCM on the bench top the vessel must be capped or closed at all times. With the help of the course instructors, we are identifying which labs have been affected. In this process, we are also identifying what other chemicals are being used on the bench top and will be helping with risk assessments.</li> <li>In addition to the evaluation of the use of halogenated solvents on the bench top, the Chem LST has been asked to evaluate diethyl either, ethyl acetate, acetone and toluene use. The Chem LST with help of teaching faculty and staff are reviewing each of the specific labs and providing assistance with risk assessments to reduce exposure.</li> <li>For one of the experiments the 3<sup>rd</sup> and 4<sup>th</sup> year analytical labs have stopped using chloroform on the bench top and have switch to DCM. The amount of DCM used is in trace amount, which is loaded in a fume hood and then transferred into the MS directly. Also, please note this item was discussed at the faculty meeting on March 23,</li> </ul>	KM/MC/ DG/BH	In Progress	IP
		2023. Updates on halogenated solvents were discussed.			L41 Page



7.	7. ONGOING BUSINESS – Status of Action Items (includes review of previous meeting minutes)							
	Lab Safety Concerns – Continued							
	LST Comments: No updates at this time.							

8. NEW & OTI	HER BUSINE	SS							
General dis	cussion iten	ns (list actionable items b	elow)						
Item #	Priority	Discussion and/or Action	on Items				Assigned To	Date to be Completed	Status
		SRS Updates							
May 2023	Recommended items to discuss at JOHSC/LST Meeting  Ergonomics Claims Statistics 2018-2022  Ergonomic accidents and injuries have been the leading claim type a 2018 to 2022, encompassing a significant portion of claims volume a highlights the importance of addressing ergonomic issues in the wor reduce the frequency and severity of these claims. Below are UBC's claims statistics for ergonomic accidents and injuries from 2018-202					cost. This ace to	SRS Updates	N/A	N/A
		Accident Type	Claims	% By Volume	% By Total Cost				
		Overexertion	173	29%	22%				
		Repetitive Motion	42	7%	13%				

8.	NIEW S	2. OTHER	BUSINESS
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Injury Type	Claims	% By Volume	% By Total Cost
Back Strain	119	20%	21%
Other Strains	226	37%	30%
Tendinitis/Tenosynovitis	15	2%	4%

UBC's Ergonomics Program offers the following manual material handling resources:

- <u>Training.</u> Register online for one of our regularly scheduled MMH Ergonomics Trainings
- <u>Lifting guidelines:</u> how much is too much and guidance on lifting mechanics.

Contact ergonomics.info@ubc.ca if you require additional assistance.

In addition, UBC Chem has an ergonomics team who can help with office assessments. Please contact safety@chem.ubc.ca to schedule an assessment.

#### Informational Items

#### **Occupational Sensitization Seminar Recording**

Great news! The seminar on Occupational Sensitization that took place March 10th, 2023 is now available as a course on WPL with a combination of videos and presentation slides. Sensitizers are chemical and/or biological agents that can trigger a devastating irreversible allergic response following contact, even in trace quantities.

If you missed the opportunity to attend, have new faculty/staff/students in your workplace, and are interested to learn more about sensitizers please feel free to review the presentations using the following

link: <a href="https://wpl.ubc.ca/browse/srs/rsc/courses/wpl-srs-oss">https://wpl.ubc.ca/browse/srs/rsc/courses/wpl-srs-oss</a>

#### **Safety Knowledge Refresher**

Question: What does quorum mean in a JOHSC meeting?

#### 8. NEW & OTHER BUSINESS

Answer: Minimum of four members with at least half being worker reps, and the employer reps do not outnumber the worker reps.

#### **LST Training**

New dates have been released for LST training. You can register here.

LST Training				
Part 2a	Part 2b			
June 7th	June 12th			
11:00am –				
12:30pm				

#### WorkSafeBC Inspection Reports (IR)

There was one WorkSafeBC Inspection Report received since the last co-chair email. As always, the "WSBC IR Summary" attachment provides a brief summary for the inspection report and some discussion points to consider.

#### 1) APRIL 13, 2023 – IR# 202316973038A

#### Description:

- On April 13, a worker slipped and fell, striking their head on the floor.
- First aid was provided, and the worker was transported by first responders to a hospital for treatment.
- As the incident required intervention of Emergency Health Services (EHS) personnel, WorkSafeBC was immediately notified of the incident.
- There were zero (0) orders issued to the University.

#### JOHSC/LST General Learnings/Discussion Points:

• As a reminder, an incident believed to have resulted in a serious injury, such as life-threatening conditions must be reported to Campus Security



8. NEW & OTHER	BUSINESS
	at 604-822-2222 as part of the incident response following the necessary
	<ul> <li>emergency responses.</li> <li>Information regarding what to do in the event of a serious incidents or possible serious incident can be found on the SRS Website.</li> </ul>

9. NEXT MEETING					
Date:	June 15, 2023				
Time:	11:00 am				
Location:	Online Zoom Meeting				

10. MEETING ADJOURNED				
Time:	11:35 am			

#### **LEGEND**

PRIORITY:		STATUS:	
Α	<b>High Risk, Immediate Response within 1-2 days:</b> Potential for causing loss of life, body part and/or extensive loss of structure, equipment or material.	N	New
В	<b>Moderate Risk, response as soon as possible within 1 week:</b> Potential for causing a serious injury, illness or property damage.	R	Repeat
С	Low Risk, response as soon as possible; Next regular inspection or further investigation required:  Probable potential for causing a non-disabling injury or non-disruptive property damage.	С	Complete
D	Reminders	IP	In Progress
E	Information	RF	Referred forward

Send a copy of the meeting minutes to the JOHSC. Highlight important items that must be reviewed/discussed at next JOHSC meeting.

Monthly Distribution and Posting of Approved Meeting Minutes (Required):

• All LST members



Appropriate JOHSC