UBC is starting Phase/Stage 2 of the COVID-19 response. Timing of the restart and requirements may vary by Faculty. This form is intended to amend the original workspace plan submitted as part of the Phase 1 return to research. The amendment will be reviewed by members of the Local Safety Team and/or by others appointed by the Director of AMPEL.

During Stage 2, the overall laboratory occupancy should be the lower of either 2/3rds of normal occupancy, or the maximum number of people allowable given physical distancing requirements and access considerations. Weekend (7AM-6PM) access may now be requested. Faculty office use may be allowed in a limited number of cases.

In this document, workspace plan refers to the Return to Research document or Workspace Safety Plan that was filled out an approved as part of phase I. Stage II refers to the next phase (Stage 2 follows Phase 1).

1. Occupancy

Normally occupancy will stay the same as it was in Phase 1, unless modifications are requested. If changes are requested, please indicate the new occupancy levels and provide a map depicting the individual workstations. Include a 2 m diameter circle for scaling. Also provide arrows indicating directions of circulation, if appropriate.

We request to increase occupancy in room BRIM 363 from 2 people at any time in Phase 1 (1 person in each half of lab) to 5 people at any time in Phase 2 (3 people in half I and 2 people in half II). This is 5/9 of normal. The occupancy in the ICP room inside BRIM 363 remains 1 person at any time.

Fig. 1 provides a sketch showing individual workstations, which are separated > 2 m apart even in the same half lab. To ensure maximum distancing, people in the same half lab will be scheduled to work at the same time slot only if they are in different aisles. That is, in lab half I, Sheida and Connor will not be scheduled together; in lab half II, Hongxing and Cathy will not work in the lab at the same time. For person who needs access to the ICP room, there is a clear pathway for him/her to get into the room. One PhD student, Amin, works inside the offices along the left hand wall. The person using the ICP will stay in the room till the analysis is done.
2. Updated Access List for Laboratory Space:

How many researchers and others normally have access to the laboratory space?

How many do you plan to have return at this time? Only those for whom access is important for completing their work should be admitted.

In Phase 1, we have 6 graduate students in our group to access room 363, and 1 graduate student from Dr. Liu’s group and one ICP equipment user approved by Dr. Liu to enter room 363A.

In Phase 2, we plan to have 7 graduate students in our group to have access to room 363, 1 post-doc (Davood Nakhaie) to enter room 363 to reconnect the autoclave and related maintenance work such as check the pressure containment etc., and 1 research engineer (Dr. Mina Xu, the lab manager) to enter room 363 to perform her inspection duty as specified in the workspace plan. 1 graduate student from Dr. Liu’s group and the ICP equipment users approved by Dr. Liu will need access to enter room 363A, only one person will be allowed in room 363A per time.

Please provide a list of all those who you wish to have access to laboratory space in Stage II.

Version: July 26th, 2020
3. Working within 2 m:

Working in close proximity should be avoided where possible. Double protection is required (face mask plus face shield) for people working within 2 m. Nitrile gloves and a lab coat are recommended. Are there situations (training, special procedures etc.) where two or more people will need to work in close proximity?

Please describe the situations, including frequency, duration, and any hazards associated with them. How will the hazards and COVID-19 risks will be mitigated? If already covered in the workplan, simply mention this and refer to the section/page.

YES. Connor Heise, the masters student needs training on using a potentiostat. If it cannot be achieved through an online training, we will have one graduate student train him. It will only be once for less than 1 hr. Double protection (face mask plus face shield) will be ensured to mitigate COVID-19 risks. The
trainer will stand 2 m away from the trainee as often as possible, giving verbal instructions as appropriate. No other hazards are associated with the training.

4. Weekend and After-Hours Access:
Access is now possible on weekends from 7 AM to 6 PM. During the weekends occupants should not make use of building common areas, except washrooms. Only the washroom nearest to the lab should be used. Do you plan to have researchers access the lab over the weekend (Saturday/ Sunday 7 AM to 6 PM) or after hours?

After Hours: Normally access between 6 PM and 7 AM is not permitted. If such access is needed, please justify it. For after-hours work, researchers must not impede building cleaning, and should post signage if working during cleaning times.

YES. Two PhD students, Amin Imani and Hossein Zargarnezhad require access on weekends and after hours. They need such access to monitor their long-term corrosion exposure tests. For example, Amin has long-term electrochemical tests plus some other screening measurements that are running. After each test, he needs to wash the sample immediately to investigate its surface morphology. Hossein needs such access to check on experiments including data collection and changing the reel on his remote-monitoring Gopro camera. This job will not take more than an hour each time. They will post signage when working in the lab after hours.

Describe how occupancy limits and records of those who were present in the lab will be maintained. You may refer to the pages and sections of the Phase I workspace plan if there are no changes.

Only Amin and Hossein require weekends and after hrs access, the occupancy will then be 2/9, meeting the limit requirement. Also, since they are working in different aisles, the physical distancing will always be maintained. The log in/out form, self-assessment form and lab inspection checklist will be filled-out as for normal working hrs to track records of their presence in the lab. Further, our online schedule sheet will also have a record on their weekend/after-hours access.

5. Supervision and Working Alone
Please outline any working alone, supervision and other safety procedures. If the procedures have not changed since Phase I, please refer to the relevant section(s)/pages in the workspace plan.

Our working alone procedures:
- For people who need access to the lab on weekends and after hours, the lab manager (Dr. Mina Xu) will have a check-in with the lab user by phone at the beginning and completion of his/her scheduled work. People with research activities that are medium to high risk will not be allowed to work alone. We also have an online schedule sheet, a daily log in posted on the lab door and self-assessment form to be completed by each lab user (Appendix B in the workspace plan).
- Any deviation from the posted schedule will require supervisor to be informed

6. Faculty Offices
The Faculty level stage II plan limits the number of faculty returning to 25%. All returning faculty must complete the mandatory safety training. If you are requesting the use of faculty offices, please outline the rationale. Due to the limited access allowed at this time, we may not be able to approve all requests.
7. Staff and Researcher Office Space

Researchers and office staff who can work from home are expected to continue to work from home. Please contact the AMPLE Director if you have a need to use office space in Brimacombe.

Signatures

I/We agree to abide by the procedures described in the approved phase I workspace plan, as amended by this document. I/We will ensure that all researchers and staff who have access to the spaces covered in this document are aware that they also need to abide by these procedures, and that they complete safety training, including COVID-19 training, before returning to work. They have been made aware of physical distancing requirements, procedures for working in close proximity (where relevant), scheduling, working alone procedures and other safety considerations. I/We will arrange to keep track of and maintain records of occupancy during the period of COVID-19 restrictions. I/We will arrange for records of completed training and of the procedures (workspace plan and this amendment) to be accessible from the workspaces. Occupancy limits will also be posted in each space.

Principal Investigator (Director or Manager in case of shared facilities)

Name: E. Asselin  Signature: Signed
Date: 2020/07/29

Additional PI/Manager (copy as needed)

Name: Wenying Liu  Signature: Signed
Date: 2020/08/16

Approvals

Director of AMPLE or Designate

Name: John D Madden  Signature: Signed
Date: 15 August 2020

Department Head or Designate

Name: Daan Maijer  Signature: Signed
Date: 17 August 2020