

School of Chemistry

Phased Return To Work Plan & Risk Assessment

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Membership of the School of Chemistry's COVID-19 Coordination Committee

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Table of Contents

| | |
|---|-----------|
| 1. Introduction | 2 |
| 2. Governance | 4 |
| 2.1 Committee membership | 4 |
| 2.2 Implementation | 5 |
| 2.3 On-site Covid-19 Emergency Contact | 5 |
| 2.4 School Responsibility | 6 |
| 2.5 PI/Group Responsibility | 6 |
| 2.5.1 Each PI/Researcher will: | 7 |
| 2.5.2 Design of experiment | 8 |
| 3. Access and Return to School Premises | 8 |
| 4. Access to Joint Infrastructure..... | 8 |
| 4.1 General | 9 |
| 4.2 NMR Facilities..... | 9 |
| 4.3 X-ray Facility..... | 9 |
| 4.4 Mass Spectrometry Facilities | 9 |
| 5. Access to Services | 10 |
| 5.1 Delivery of Goods | 10 |
| 5.2 Delivery of Liquid Nitrogen | 10 |
| 5.3 Hazardous Materials Facility (HMF or ‘Hazmat’) | 10 |
| 6. PPE Required..... | 10 |
| 6.1. General | 10 |
| 6.2 PPE Hygiene | 11 |
| 6.3 PPE Disposal | 11 |
| 7. Maximum Room Occupancy Limits | 12 |
| Annex 1..... | 17 |
| Annex 2..... | 18 |

1. Introduction

The School of Chemistry has put together a plan for the re-opening of the research laboratories within the five School locations (both on- and off-campus). This plan is designed to be executed in several phases (**Phases 0-3**) beginning in June, and is structured to allow for the phased return of the School's researchers to a safe laboratory environment.¹ Each 'phase' will last a minimum of 2 weeks (*c.f.* details below). The transition between these phases will only commence following a review by the School's Covid-19 Committee (see below) and sign-off by the Executive Committee. The safety of all staff and students is paramount. It is expected that those who can work off-campus will continue to do so and that all non-laboratory work will continue to be done remotely. In situations where social distancing cannot be maintained, face masks must be worn.

The objective of **Phase 2.75** of this plan is to increase capacity in labs that have already been opened (in the Chemistry Building, TBSI and SNIAM) and to start the process of reopening labs in the Lloyd Building following approval of its Resumption Plan on 11 August. Those based in CRANN will continue to follow the plans in operation there. Use of instrument rooms will remain under the control of PIs. Access will only be made available to trained and authorised users where the School can maintain social-distancing requirements. No interns or visitors are to be accommodated until further notice. Researchers must adhere to all rules laid down for the building in which they work. For those labs where capacity limits have been lifted, split shifts will end and normal working hours of 9am to 6pm, Monday to Friday will resume. PIs with labs in the Lloyd should complete the [PI lab sign-off form – Lloyd Building](#).

A Covid-19 webpage has been added to the School's website (<https://chemistry.tcd.ie/COVID-19/>) containing forms and processes that need to be completed, along with all relevant documentation and floor plans.

All School personnel must take the College and School *COVID-19 Induction Courses before returning to work*. Details are provided in the Safety section of the School's Covid-19 webpage.

¹ All members of the School (for their own safety and that of their colleagues) have a role to play in minimising the risks from Covid-19 in the workplace. Everyone has to take responsibility for ensuring that the risk is minimised, and as such should obey the advice from the HSE and TCD at all time.

The School of Chemistry's plan covers the following (research) locations²:

- **Main Chemistry Building** (which also holds the School's administrative office)
- **The Sami Nasr Institute of Advanced Materials (SNIAM)** (*c.f.* further details in the Physic's plan for common areas)
- **The Trinity Biomedical Sciences Institute (TBSI)** (*c.f.* further details in the TBSI plan for common areas)
- **The Naughton (CRANN) Institute** (*c.f.* this plan must be followed by all researchers located there)
- **The Lloyd Building** (*c.f.* further details in the Lloyd Building plan for common areas).

Academics who wish to use their office may do so once they follow the procedures to have their card reactivated etc.

Signage is posted in each building providing the direction of flow through the building. Where common areas do not allow for the safe passing of people in both directions, the School will operate a one-way system when moving around the common areas of these buildings and laboratories. Where necessary, entrance and exit routes as well as one-way routes for the movement of staff and goods around buildings have been agreed with other building users (*i.e.* CRANN, SNIAM and the TBSI).

Academic staff and independent PIs who have single-occupancy offices can use their offices during the time when their building is open for business but should minimise their attendance on campus. It is anticipated that full access to laboratories and laboratory write-up areas will be implemented in **Phase 3**.

The School will aim to operate a **five-day working week**. In some labs, those accessing the lab may be split into shifts that correspond to one or more of the pods A, B, C and D. It is anticipated that no laboratory work will be carried out outside reasonable and normal working hours, except when it is needed to facilitate E&F and Housekeeping, *etc.* In addition to the normal morning service with an additional focus on touch points, Housekeeping will provide an additional afternoon service to bathrooms and touchpoints. It is up to all users of the building to ensure that they leave surfaces and equipment in a clean state after use.

In **Phase 2.75**, no face-to-face meetings should take place; video calls using Microsoft Teams or similar should be used for all one-to-one and group interactions.

A booking programme has been put in place for any common instruments (*see Process document*), and a cleaning protocol has been drawn up to ensure that these instruments are left in a safe condition for use by others. All measures align with Government¹ & University policies as listed on the [TCD COVID-19 website](#).

The School of Chemistry is engaged in both highly focused and interdisciplinary research work. Many PIs work in close collaboration with other TCD Schools and

² In order to ensure social distancing, it will be necessary to restrict the number of people accessing any of these building at any one time. In the case of 'shared' locations, researchers will have to adhere to agreed protocols and regulations.

research centres. The return of researchers to the School of Chemistry to carry out their work is thus critical, and is based on, but not limited to, the following criteria:

- Academic members of the School are engaged in what is deemed by the School to be essential research.
- Focused Covid-19 research that is already being funded and carried out within the School.
- The School has a large cohort of postgraduate students and postdoctoral researchers. Many of these are due to finish studentships/contracts in the near future and consequently need urgent access to the School's laboratories to complete their research work. There is no guarantee that funding agencies will extend the stipends/contracts of these researchers.
- The School's research is almost entirely funded by both national and international research funders, as well as through direct industry engagement (e.g. short and long-term funded projects) and consultation. It is essential that any further impact of the COVID-19 shutdown on these activities is minimised.
- A number of campus-based companies, which also generate direct revenue for the School, are located within the School of Chemistry's premises.

All members of the School returning to campus are asked to read this document as part of the pre-return process. Physical distancing must be maintained when on the TCD campus and within all School of Chemistry buildings/premises.

2. Governance

The School of Chemistry *Work Plan & Risk Assessment* document has been designed by the Covid-19 Coordination Committee* and has been agreed upon by the School Executive Committee. The plan will be managed and monitored by the Head of School, the Covid-19 Coordination Committee, and the Covid-19 Coordinator. The School's Chief Technical Officer, Experimental Officers, technical and administrative staff will be asked to be available (either in person or remotely) to deal with all matters arising. As normal, the School will fully comply with the safety requirements and capacity constraints of all central services, both within and outside the School. This includes, but is not limited to, Estates and Facilities, Housekeeping, HMF, Security and deliveries. The School's plan will be updated in accordance with guidance from the University, the Health and Safety Authority (HSA) and Government.

2.1 Committee membership

***The School of Chemistry's COVID-19 Coordination Committee comprises:**

Professor Michael Lyons (*Head of School*), Dr Sinéad Boyce (*School Manager*), Professor Robert Baker (*Inorganic Chemistry and Safety Officer*), Mr. Peter Brien (*Chief Technical Officer II and Deputy Safety Officer*), Professor John Boland (*Physical Chemistry, and Director of Teaching & Learning, Postgraduate*), Professor Wolfgang Schmitt (*Head of Inorganic Chemistry*), Professor Joanna McGouran (*Organic Chemistry*) and Professor Thorfinnur Gunnlaugsson (*Organic Chemistry and Covid-19 Coordinator*).

2.2 Implementation

Details of the phased resumption of research activities are given in the Table below. Given that there are restraints on the occupancy of labs, no undergrads, Erasmus or summer students are to be given access to labs until normal business resumes [**Note:** this will likely not be until Semester 2].

| Phase Number | Start Date | Objective | Review Date*** |
|--------------|------------|--|-----------------------|
| 0 | April 2020 | Preparation for the return to laboratory work (sourcing and ordering PPE; design of signage and signposting, mapping of premises, etc.) | N/P |
| 1 | 22 June | As per the occupancy listed in Table 2 below unless located in CRANN or the TBSI, in which case their attendance rules apply | 26 th June |
| 2 | 6 July | Maximum of 2/3 of research personnel onsite at any time | 10 th July |
| 2.5 | 20 July | Review of 2/3 of research personnel onsite with a view to ramping to full resumption of all research activities | 17 th July |
| 2.75 | 17 August | Full complement of research staff and students allowed in labs in the TBSI, SNIAM and Chemistry Buildings; limited return of researchers to labs in the Lloyd building; Academic staff may return to offices | |
| 3 | TBA | Assuming successful review, full resumption of all research activities | |

*Each of these phases will be subject to review. Progression to the next phase will be dependent on successful compliance with the government's 'Return to Work Safely Protocol' and sign-off by the School's Executive Committee.

**The review will include inputs from other College stakeholders as needed (e.g. partner schools, FEMS, Estates and Facilities, HR and College management).

2.3 On-site Covid-19 Emergency Contact

An onsite Emergency Contact has been identified (Dr. Manuel Ruether, 089-4230715) who should be contacted if breaches of safety protocols have been witnessed or in cases where someone becomes unwell while on campus³. Outside normal office hours PIs should designate a senior member of their lab to act in the capacity of an emergency contact who can follow the procedure if someone becomes ill/needs medical attention. This person must follow the protocol outlined for a possible Covid case in the Process document and notify their PI of any incident as soon as practicable. The PI in turn should notify the Head of School/School Manager. The widely spread out nature of the School and the Pod system in operation does not lend itself to their being centrally designated Covid Managers outside normal office hours.

³ Anyone who becomes unwell should immediately make this known to the designated onsite COVID-19 manager and maintain strict social distancing of at least 2m throughout. The unwell individual should wear a face mask at all times when in the company of other people. They should avoid touching people, surfaces and objects, and isolate in identified locations. The COVID-19 manager/response team should wear appropriate PPE including face shields, gloves and lab coat when interacting with the unwell individual, maintaining a 2m distance at all times. TBSI has also identified a common isolation room for the TBSI building (B118).

2.4. School Responsibility

The School will:

- provide access *via* the College Safety Officer to Covid-19 induction training for all workers.
- provide access to *pre-return to work forms*, to be completed by all researchers/staff members at least 3 days in advance of their return to work or after an absence of more than one week.
- organise the supply of hand sanitizers, soap and alcohol wipes.
- assist the shared services units within the School (such as shared instrument rooms) with sourcing of PPE as required.
- organise the initial supply of gloves, masks and safety glasses from the stock secured during **Phase 0** for PIs and laboratories and will assist them in sourcing additional stocks if/when needed.
- define maximum occupancy levels for each lab to allow a physical distancing of 2m in **Phase 1** (See Room Occupancy Table below, Table 2). Signs that state the maximum occupancy level have been generated and will be displayed on each door.⁴
- liaise with Estates and Facilities to display directional flow information for movement of researchers around the various Chemistry premises.
- provide information on the signs and symptoms of Covid-19 and provide information to workers as necessary in accordance with College guidelines.
- in conjunction with relevant PIs, design and operate a shift system, which will adhere to the physical distancing measures outlined above and in the Room Occupancy Table below.
- agree and record a pattern/timetabling of attendance for each laboratory (managed by the PI or PIs in the case of shared laboratories) that is updated and circulated to all staff/postgraduates in the School with each Phase transition
- provide an isolation room in all premises for use by staff displaying symptoms of Covid-19, and maintain a contact list for each laboratory/pod to facilitate contact tracing as required by HSE/College protocols.
- Be cognisant of the impact of the pandemic on the mental health of all, especially PhD students. The whole cohort will be made aware of student counselling services via email.
- Provide dedicated spaces to allow workers to take breaks, provided the maximum occupancy signs are observed and social-distancing maintained.

2.5 PI/Group Responsibility

The School plan **requires that each PI develop a lab-occupancy plan** for their assigned labs or part of a shared lab using the designated occupancy level for the lab given in the table below. This takes the form of assigning members of their lab to one or more of the Pods A, B, C or D as detailed in the Chemistry Floor plan and Process document.

The PI should also allocate time slots to researchers within their group/particular lab space, agree the research to be carried out, and ensure that it is carried out in line with social-distancing and lab-safety requirements. No researcher is allowed to work

⁴ The School will encourage staff to use the stairs unless there are specific reasons not to do so (*e.g.* disability, movement of goods, *etc.*). The School has, as indicated above, agreed to joint common area plans for TBSI, CRANN and SNIAM. The School policy will remain throughout **Phases 1-3** that non-laboratory work should be carried out from home.

alone when carrying out synthetic chemistry, or when there is a potential foreseen danger. Hence, the PI should ensure that all relevant safety forms are completed, signed (by an authorised person) and clearly displayed **both** at the entrance to the laboratory **and** within the laboratory itself (such as at the front of a fume hood or instrument). These should be removed ASAP after use.

2.5.1 Each PI/Researcher will:

- be in compliance with the School/College health and safety recommendations/protocols and the HSE regulations on social distancing at all times.
- carry out a risk assessment and fully understand the Laboratory Health and Safety protocols for the School, which are available on the School's website at <https://chemistry.tcd.ie/safety/>.
- install the College SafeZone app and use the app at all times while on campus/in the TBSI etc.
- not come to the School if they have any Covid-19 symptoms and should remain out of work until all symptoms have cleared following self-isolation in accordance with HSE regulations.
- sign in and sign out using electronic form available on the School website.
- clean their workspaces (and instruments) with appropriate material, such as the WHO-recommended sanitiser solution (containing 70% ethanol), disinfectant wipes, etc. at the beginning and the end of their shift and/or before and after using an instrument (see further details below in Section 6).
- declare each day before coming into College that they are fit to do so by communicating this in writing to their line-manager or supervisor/PI.
- individuals who are trained in the use of fire extinguishers should disclose this to their PI/line manager as they may be called upon to act as temporary fire wardens during their time in the laboratory.⁵

In addition to the above, each researcher should ensure that:

- **PPE is not shared**; this includes lab safety glasses, laser safety glasses, face shields, solvent gloves, acid-resistant gloves and aprons, and any other specific PPE. In addition, lab coats will be separated into 'clean' and 'in use' and stored in a different location in each laboratory (Information on PPE is outlined below in Section 6)
- they leave the laboratory upon completing their scheduled work.
- they strictly adhere to their designated break time and location.
- upon completing their work, they carry out complete wipe downs within their own laboratory area.

⁵ In the event of a fire or other emergency, evacuation of the building should follow the standard routes and the one-way system will not apply. The standard assembly points remain in operation although people must also observe social distancing at these locations.

2.5.2 Design of experiment

Each researcher will ensure that:

- A plan of the experiment and risk assessment will be completed before starting the experiment. This will be guided by the checklist in Annex 1.
- The experiment will not use or generate unstable or explosive materials or highly toxic materials on a large scale.
- If an operation requires two people to be in close proximity (*i.e.* where physical distancing cannot take place) masks must be worn.
- Long processes (e.g. column chromatography) will be planned to ensure the shift can be completed safely.

3. Access and Return to School Premises⁶

All individuals authorised to enter School buildings must complete a [pre-return to work form](#) at least 3 days in advance of their return to work. This form confirms that the individual, to the best of their knowledge, has no symptoms of COVID-19 and is not self-isolating or awaiting the results of a COVID-19 test. Isolation procedures and room locations are given in the Process document. Details of schedules are circulated by email to all staff/postgraduates in the School along with updated Process documents for each phase of the reopening process.

It is recommended that a system of check-in communication *via* text/call/email be implemented by each laboratory (Pod) user group.

In **Phase 1**, the proposed prioritisation will include:

- researchers carrying out industry- or publicly funded research with deliverables that are due in the next three months that cannot be rescheduled, or researchers whose contracts are due to terminate within the next 6 months.
- PhD and MSc students where laboratory work is needed to complete their study in 2020.
- PhD students who need to carry out corrections to PhD theses.
- researchers engaged in commercial (industry) activity with legally binding facility access agreements in place, as well as those engaged in Campus Companies hosted within the School of Chemistry.
- No office-based work is to be carried out on-site during this phase

4. Access to Joint Infrastructure

The School of Chemistry provides several shared instrumentation services across its buildings. These include NMR, X-Ray and MS services. The following outlines access to

⁶ Housekeeping: Each of the Chemistry buildings/locations will be fully cleaned each morning by the College cleaners. A member of the housekeeping staff will be in the building during the morning to wipe down of door handles, stair rails and cleaning of the toilets as needed.

these for the foreseeable future. Disinfecting materials will be at hand to wipe down equipment and areas after use.

4.1 General

A booking system is in place for the use of these facilities (<http://134.226.174.192/booked/Web/>) and for booking the break rooms. In some locations, and in line with maintaining a 2m distance between users, only one user can be permitted per instrument room. Users will thus have to book an “instrument room” rather than individual instruments.

- If required, samples can be run by the Experimental Officers to minimize access to these facilities. Details on a collection service for the TBSI and SNIAM are given in the Process document.⁷
- PPE is recommended for use within these instrument rooms.

4.2 NMR Facilities

- Users should leave samples for collection outside the NMR Room (0.4, Main Chemistry Building). A sample holder will be provided. The Experimental Officers should be contacted prior to sample delivery if necessary.
- Given the 2 m distancing, only one user can enter the NMR laboratory at any given time. PPE is recommended (masks and gloves) in a multi-use research area.
- All samples will be returned in consultation with the person who submitted them.
- All NMR data are saved on a server and users can download the files for processing. With a VPN connection the servers can be accessed from outside campus.

4.3 X-ray Facility

- Booking on-line will be mandatory, and rigid compliance with the booking schedule will be implemented. No casual drop in to use a microscope etc. will be allowed. To submit samples use the online form at <http://134.226.174.192/xraysubmissionform.html>
- Users can only arrive at or after booking time has commenced.
- Given the 2m distancing requirement, only one person will be allowed per instrument (due to movement to sample preparative area, etc.).
- All X-ray data are saved on a server and users can download the files for post-processing.
- All samples will be returned in consultation with the person who submitted them.

4.4 Mass Spectrometry Facilities

- The Mass Spectrometry Facilities operate as a sample drop-off and pick-up service so there is no need for staff/student interaction for samples to change hands.
- All MS data are saved on a server and users can download the files for post-processing.
- All samples will be returned in consultation with the person who submitted them.

⁷ It is foreseen that this will take time and there will be a waiting period before results will be available. Results will be sent electronically, or be made available on the School server for users to access.

5. Access to Services

5.1 Delivery of Goods

Procedures for deliveries/collection of goods will be determined at a building level. The School will work closely with shared services to ensure that their logistical requirements are taken into account. An agreement is already in place for CRANN, TBSI and SNIAM. With this in mind, the School has organised a general plan that harmonises the plans already outlined for the aforementioned locations. This includes, but is not limited to:

- operating a one-way system for the collection of goods, and complying with assigned collection times for each laboratory group
- each lab using its own trolley (to prevent the requirement for disinfection of the shared services equipment) when needed.
- each researcher using their own pen to sign for deliveries to prevent cross-contamination

5.2 Delivery of Liquid Nitrogen

The School has an established procedure within the main campus of TCD, which has been approved by the College Safety Officer. The dispensing of liquid nitrogen will remain in the hands of the School's experimental officers. The same procedure will be implemented for other gases.

In the case of shared facilities (TBSI and CRANN in particular), the School and the researcher will co-operate with agreed procedures that will include:

- complying with staggered collection times, where research groups will arrive one at a time after being called.
- operation of a one-way system and observing floor markings.

5.3 Hazardous Materials Facility (HMF or 'Hazmat')

The School will work closely with HMF staff to ensure that School personnel will fully comply with the safety procedures implemented by the **HMF** facility. All users must contact hazmat@tcd.ie prior to using the service during the coming months and must wear a facemask. In addition to the existing requirements, researchers must comply with all location-specific protocols and one-way systems. Researchers must wait outside any solvent/storerooms until called upon to enter and must adhere to instructions given by HMF.

6. PPE Required

6.1. General

It is a requirement that all researchers must wash their hands with warm soap and water for 20s and/or use the hand sanitizer provided.

The basic PPE required to work in any School facility, workshop or instrument room is: SAFETY GLASSES, LABORATORY COAT and GLOVES.

All synthetic work will be carried out in fume hoods that will be singly occupied at any given time.

In situations where social distancing is not possible a FACEMASK should be worn (surgical style).

In situations where more than one person is required in a small space a FACESHIELD should be worn.

6.2 PPE Hygiene

Any PPE must be washed/cleaned regularly.

- Safety glasses should be washed in soapy water and allowed to dry.
- Gloves should be properly removed and disposed of regularly.
- Laboratory coats should be cleaned periodically using a laundering service.
- Facemasks should be worn in situations where a 2m distance cannot be maintained. Facemasks should be replaced when damp or when removed to eat etc.

6.3 PPE Disposal

All PPE created in a laboratory environment must be disposed of as hazardous waste.

7. Maximum Room Occupancy Limits

The following table outlines the maximum room occupancy limits within the School of Chemistry (per building), that is to be implemented in **Phase 1** (excluding CRANN). Single-use offices and writing areas are not to be used during this phase. The procedure for use of isolation rooms is given in the Chemistry Floor plans and processes document.

Maximum Room Occupancy limits in Phase 1 (Table 2):

[Note: in Phase 2.5, occupancy is increased to 6 in labs with an occupancy of 4 in Phase 1; 2-person labs remain the same with the exception of B2.44 in the TBSI, which has an occupancy of 3]

| School of Chemistry Maximum Occupancies for Physical Distancing to comply with the Government's 'Return to Work Safely Protocol' | | | | |
|--|-------------|------------------------------|-----------|---------------|
| Location | Room no. | Function | Occupancy | Comments |
| TBSI | 6.25 | Office | 1 | DG |
| TBSI | 6.26 | Office | 1 | BT |
| TBSI | 6.27 | Office | 1 | MOS |
| TBSI | 6.28 | Office | 1 | MOS |
| TBSI | 6.29 / 6.30 | MASS SPEC / IR Spectroscopy | 1 | GH, MF, MR |
| TBSI | 6.31 | Office | 1 | JMcG |
| TBSI | 6.32 | Office | 1 | AMcD |
| TBSI | 6.33 | Office | 1 | CT |
| TBSI | 6.34 | Write Up Space | 0 | AMcD |
| TBSI | 6.35 | Lab | 4 | AMcD |
| TBSI | 7.08 | ISOLATION ROOM | | COVID |
| TBSI | 7.09 | Office | 1 | MS |
| TBSI | 7.1 | WILHELM SCHULER SEMINAR ROOM | 0 | School |
| TBSI | 7.11 | Office | 1 | ES |
| TBSI | 7.12 | Office | 1 | TG |
| TBSI | 7.13 | Office | 1 | SC |
| TBSI | 7.14 | Office | 1 | IR |
| TBSI | 7.15 | Write Up Space | 0 | IR/MOS |
| TBSI | 7.16 | Lab | 4 | IR/JMS |
| TBSI | 7.18 | Write Up Space | 0 | SC, JMcG, EMS |
| TBSI | 7.19 | Lab | 4 | EMS, JMcG |
| TBSI | 7.2 | Lab | 4 | SC |
| TBSI | 7.21 | Instrument Room | 4 | MR |
| TBSI | 7.22 | Lab | 4 | TG |
| TBSI | 7.23 | Lab | 4 | MOS |
| TBSI | 7.24 | Write Up Space | 0 | MOS, TG |

| Location | Room no. | Function | Maximum Occupancy | Comments |
|----------|----------|----------------------|-------------------|---|
| TBSI | 7.3 | Instrument Room | 1 | MR |
| TBSI | 7.31 | Shower Room | 1 | School |
| TBSI | 7.32 | Tea Station | 1 | School |
| TBSI | 7.34 | Store | 1 | MOS |
| TBSI | 7.36 | N.M.R ROOM | 1 | MR |
| TBSI | 7.37 | Store Room | 1 | |
| TBSI | 7.39 | Instrument Room | 1 | MR |
| TBSI | 7.4 | Instrument Room | 1 | |
| TBSI | B2.18 | CHEMISTRY X-RAY ROOM | 2 | BT |
| TBSI | B2.19 | CHEMISTRY X-RAY ROOM | 1 | BT |
| TBSI | B2.43 | Write Up Space | 0 | KMcK |
| TBSI | B2.44 | Lab/instrument room | 3 | AMcD, TG, with space temporarily assigned to JMcG |
| TBSI | B2.45 | Instrument Room | 1 | TG |
| TBSI | B3.06 | Instrument Room | 3 | KMcK; Experimental Officers |

| Location | Room no. | Function | Maximum Occupancy | Comments |
|--------------|-------------|--|-------------------|------------------|
| SNIAM | 0.07 | Conference Room – break area | 4 | |
| SNIAM | 0.18 | Chemistry Stores | 1 | |
| SNIAM | 0.21 | ISOLATION ROOM | | COVID |
| SNIAM | 0.24 | Advanced Materials Teaching Laboratory 50% Chemistry | 3* | Patsy |
| SNIAM | 0.27 | Advanced Materials Teaching Laboratory 50% Chemistry | 3* | Patsy |
| SNIAM | 0.28 | General Store & Office | 1 | Fred / Maura |
| SNIAM | 1.16 | Research Laboratory - Dr. Schmitt | 4 | Wolfgang Schmitt |
| SNIAM | 1.29 | Inorganic Chemistry Lab | 4 | Peter Dunne |
| SNIAM | 2.02 | Office - Prof Gunko | 1 | |
| SNIAM | 2.03 | Office - Dr. Schmitt | 1 | |
| SNIAM | 2.04 | Office - Prof Larisa Florea | 1 | |
| SNIAM | 2.05 | Office - Prof. Sylvia Draper | 1 | |
| SNIAM | 2.06 | Office - Prof. Peter Dunne | 1 | |
| SNIAM | 2.07 | Physical Chemistry Teaching Laboratory | 0* | Tom / Patsy |
| SNIAM | 2.1 | Glass Blowing | 1 | School |
| SNIAM | 2.13 | Write-up Area for Laboratory 2.16 | 0 | |

| Location | Room no. | Function | Maximum Occupancy | Comments |
|----------|----------|---|-------------------|-------------------|
| SNIAM | 2.15C | Research Laboratory | 2 | Steve Comby / SMD |
| SNIAM | 2.16 | Write-up room | | Peter Dunne |
| SNIAM | 2.17 | Instrument Room | 1 | |
| SNIAM | 2.18 | Nano-Second Laser Photolysis Room | 1 | Steve Comby |
| SNIAM | 2.22 | Write-up Area for Laboratory 2.23 | 0 | |
| SNIAM | 2.23 | Research Laboratory - Dr. Schmitt | 4 | Wolfgang Schmitt |
| SNIAM | 2.26 | Instrument Room - CD / emission Dept | 1 | |
| SNIAM | 2.27 | Physical Chemistry Teaching Laboratory | 16* | Tom / Patsy |
| SNIAM | 3.19 | Write-up Area for Laboratory 3.20 | 0 | Sylvia Draper |
| SNIAM | 3.2 | Research Laboratory | 4 | Sylvia Draper |
| SNIAM | 3.23 | Instrument Room - Solvent Purification | 1 | MR |
| SNIAM | 3.31 | Write-up Area for Laboratory 3.32 | 0 | |
| SNIAM | 3.32 | Research Laboratory | 4 | Yurri Gunko |
| SNIAM | 0.24A | Research Laboratory - XRD | 0 | Brendan Twamley |
| SNIAM | 2.07a | Instrument Room for Laboratory 2.07 | | Tom / Patsy |
| SNIAM | 2.07b | Preparation Room for Laboratory 2.07 | | Tom / Patsy |
| SNIAM | 2.16a | Research Laboratory - Prof. Peter Dunne | | Peter Dunne |
| SNIAM | 2.17a | Spectroscopic & Fluorescent Room | 1 | MR |
| SNIAM | 2.27a | Preparation Room | | Tom / Patsy |
| SNIAM | 2.27b | Instrument Room | | Tom / Patsy |

| Location | Room no. | Function | Maximum Occupancy | Comment |
|---------------|----------|---|-------------------|-----------------------------|
| CHEMISTRY B.* | 0.03 | Store Room | 1 | |
| CHEMISTRY B. | 0.5 | Instrument Room & PC Room | 3 | John O'Brien / Gary Hessman |
| CHEMISTRY B. | 0.11 | Lecture Theatre - Chemistry Large Lecture Theatre [160PL] | 0* | School |
| CHEMISTRY B. | 0.12 | vacant storage room under the theatre | 1 | School |
| CHEMISTRY B. | 0.13 | Instrument Room | 2 | Paula Colavita |
| CHEMISTRY B. | 0.14 | Larisa Florea Research lab | 4 | Larisa Florea |
| CHEMISTRY B. | 0.15 | Larisa Florea Research write up room | 0 | Larisa Florea |
| CHEMISTRY B. | 0.4 | Research Laboratory - NMR | 2 | John O'Brien |

| Location | Room no. | Function | Maximum Occupancy | Comment |
|---------------------|-------------|---|-------------------|----------------------------|
| CHEMISTRY B. | 1.1 | Technicians Tea Room | 2 | |
| CHEMISTRY B. | 1.1A | photocopy room | 1 | |
| CHEMISTRY B. | 1.09 | Office | 0 | |
| CHEMISTRY B. | 1.17-1.19 | Research laboratory (Mezzanine Floor) | 2 | Mike Lyons |
| CHEMISTRY B. | 1.2A | Research Laboratory - | 2 | Paul Colavita |
| CHEMISTRY B. | 1.2B | Research Laboratory - | 2 | Bob Baker |
| CHEMISTRY B. | 1.21 | Office – HoS - Prof. Mike Lyons | 1 | |
| CHEMISTRY B. | 1.22 | Office - Admin Support - AnneMarie Farrell, Ben Power | 2 | |
| CHEMISTRY B. | 1.23 | Research Laboratory – Prof. Paula Colavita | 2 | |
| CHEMISTRY B. | 1.24 | Staff Room / Common Room | 4 | |
| CHEMISTRY B. | 1.25 | Science Lecture Theatre | 0 | School |
| CHEMISTRY B. | 1.26 | ISOLATION ROOM | | COVID |
| CHEMISTRY B. | 1.3 | Office - Write Up Room | 0 | Paula Colavita / Bob Baker |
| CHEMISTRY B. | 1.3A | Instrument Room | 1 | MR |
| CHEMISTRY B. | 1.3B | Office / Instrument Room | | Paula Colavita |
| CHEMISTRY B. | 1.4 | Instrument room | 1 | MR |
| CHEMISTRY B. | 1.5 | Office - Colavita | 1 | |
| CHEMISTRY B. | 1.6 | Office - Baker | 1 | |
| CHEMISTRY B. | 1.7 | Used by Botany | | |
| CHEMISTRY B. | 2.1 | Lab | 4 | Parvaneh Mokarian/CP |
| CHEMISTRY B. | 2.2 | Office Dr Scully | 1 | |
| CHEMISTRY B. | 2.4 | Office - Prof. Corish | 1 | |
| CHEMISTRY B. | 2.5 | Office - Dr Parvaneh Mokarian | 1 | |
| CHEMISTRY B. | 2.6 | Office - Prof Mc Murry | 1 | |
| CHEMISTRY B. | 2.7 | Office - Prof John M. Kelly | 1 | |
| CHEMISTRY B. | 2.8A | Write-up Area Lyons | 0 | Mike Lyons |
| CHEMISTRY B. | 2.8B | Computer room | 1 | Graeme Watson |
| CHEMISTRY B. | 3.1 | Office Teaching fellows | 1 | Carl / Steffi |
| CHEMISTRY B. | 3.2 | Office - Dr. M. Lyons | 1 | |
| CHEMISTRY B. | 0.08.ST1 | Storage - Lab Related | 1 | |
| CHEMISTRY B. | 1.01C | Preparation Room for Dark Room | 1 | |
| CHEMISTRY B. | 1.01D | Dark Room | 1 | |
| CHEMISTRY B. | 1.14A | Lecture Theatre - Upper Part of Theatre (void) | 0 | |
| CHEMISTRY B. | 1.22B | Office - T. McDonnell | 1 | |

| Location | Room no. | Function | Maximum Occupancy | Comment |
|--------------|----------|------------------------------|-------------------|---------|
| CHEMISTRY B. | 1.26B | Write up Room (Lyons) | 0 | |
| CHEMISTRY B. | 1.26a | Seminar room | 6* | |
| CHEMISTRY B. | 1.7B | Office | | |
| CHEMISTRY B. | 2.1B | Hot Desk room | 1 | School |
| CHEMISTRY B. | 2.3A | Office - Dr. Sinéad Boyce | 1 | |
| CHEMISTRY B. | 2.3B | Office - Dr. John O'Donoghue | 1 | |

| Location | Room no. | Function | Maximum Occupancy | Comment |
|----------|----------|-------------------------------|-------------------|---------|
| LLOYD | 2.36 | Office - Prof. Watson | 1 | |
| LLOYD | 2.35 | Office - Prof. Morton-Blake | 0 | |
| LLOYD | 2.31 | Office - Prof. Garcia Melchor | 1 | |
| LLOYD | 2.47 | Office - Prof. Mac Dónaill | 1 | |
| LLOYD | 2.13 | Watson Lab | 4 | |
| LLOYD | 2.03 | Garcia Melchor Lab | 2 | |

* Teaching rooms not required for early phases of the plan

** CHEMISTRY B. = The Main Chemistry Building

Annex 1

Return to laboratory checklist, School of Chemistry

Before conducting my experiment, I have:

- Written a risk assessment

- Have all required chemicals, solvents etc.

- Ensured that I have enough PPE to conduct the whole experiment

- Ensured that long operations (e.g. column chromatography) are scheduled with enough time to complete the process before leaving at the end of the shift

- Ensured that all waste streams have been identified and I am aware of HMF's procedures

- Liaised with experimental officers and/or booked instrument times, if needed

- Noted the point at which the experiment is safe to leave until the next shift

- Have a lab buddy in my pod

Annex 2

Steps to take before returning to the College campus

All relevant forms and safety information can be found at

<https://chemistry.tcd.ie/COVID-19/>

- Complete the relevant safety training (College-level and School Induction programme)
- Complete the pre-return to work form
- Complete the reactivation of ID card form and await notification that it has been reactivated
- Download the SafeZone app