

**Research Operation Plan for the  
Institute of Materials Science and Engineering (IMSE) User Facilities**

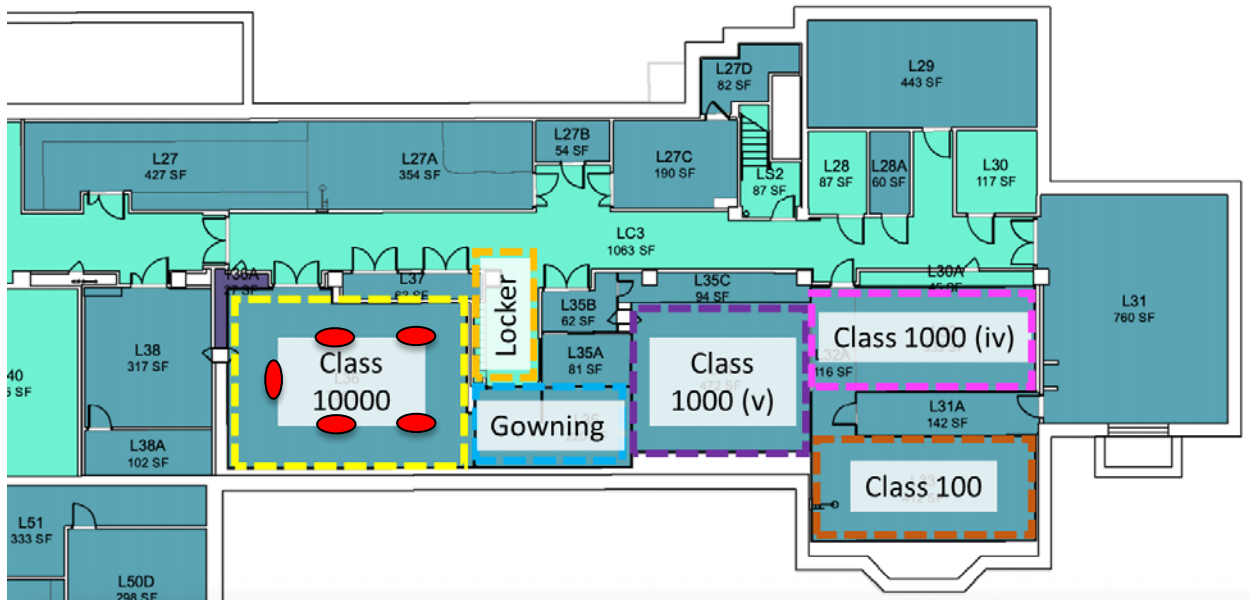
Lower Level, Rudolph Hall

*Updated Occupancy Limits*

9/29/2020

In our continuing efforts to support the research and educational missions of the university while maintaining a safe environment, the IMSE plans to update our room occupancy limits as described below. Hygiene plans and housekeeping expectations remain unchanged. We plan to implement the following updates:

1. Cleanroom (L35): The cleanroom is divided into 6 zones as shown in the figure below. The current occupancy limits for the Locker (1), Gowning (1), Class 100 (2), and two Class 1000 (2) zones will remain unchanged. We plan to increase the max occupancy within the Class 10000 cleanroom from 2 to 5. The dimensions of this room are 32 ft x 22 ft, with most equipment arranged at the periphery. The central 26 ft x 12 ft region is open. We will designate two standing zones spaced 6 ft apart along each long wall, and one standing zone along the short wall away from the entry door (red ovals). Typical occupancy of this room will remain 2 people; the increase in max occupancy will better accommodate students and instructors for question and answer sessions during class/training sessions.



2. Large instrument labs:
  - a. JEOL 7001 SEM (L38): Max occupancy = 2
  - b. JEOL 2000 TEM (L50A): Max occupancy = 2
  - c. Scios 2 FIB (L50D): Max occupancy = 2
  - d. Quattro S ESEM (L50E): Max occupancy = 2

- e. TEM specimen prep lab (L50G): Max occupancy = 2
- f. JEOL 2100F TEM (L50N): Max occupancy = 2
- g. Rigaku XRD (L64): Max occupancy = 2
- h. PHI Versa Probe 5000 XPS (L71): Max occupancy = 2
- i. Bruker AFM (L77): Max occupancy = 1

These occupancy limits are unchanged. Previously, we have limited occupancy to one user for most user sessions, and have allowed the user to be joined by one staff member during training sessions. We will now permit two users from the same cohort within a research group to work together in all rooms except L77. This change is to facilitate collaborative research and mentoring opportunities, particularly between junior and senior researchers within a group. The users will continue to maintain 6 ft distance at all times.