

staff. The accommodation of double this number of students with the present staff of five professors, two associate or assistant professors, and nine lecturers or demonstrators, presents increasing difficulties in regard to the attainment of efficiency.

## II. THE REQUIREMENTS OF THE DEPARTMENT OF PHYSICS

As has already been pointed out, the Macdonald Physics Laboratory was designed for about 250 students. With the large increase in number of students and consequent increase in staff, together with the development of a graduate school, the building is greatly overcrowded.

### Laboratory Space

Owing to the large number of students, the elementary laboratories must serve for instruction in four different courses. These classes require various types of apparatus to perform their experiments, which necessitates the shifting of instruments from the tables into cupboards, drawers, cases and on to shelves, between classes. The classes have overflowed into the corridors where extra tables have been placed and shelves built against the walls to provide space for the experiments.

The basement corridor has been pressed into service for a Properties of Matter laboratory, where classes are regularly held for undergraduate Honour students.

The unfinished attic is also used for an optical and astrophysical laboratory. This room provides space for storing apparatus from the elementary laboratories. The graduate students' workshop finds space in the same attic. In this crowded and open room, one of our lecturers has to find office space.

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