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NOISE

The principal difficulty caused by noise will be in the Conservatorium of Music at the Corner of Sherbrooke and University Streets, the only building available for music teaching. Presumably there would be a car stop at this point and between the noise of the cars in motion and the bells, teaching at the Conservatorium of Music would be rendered almost impossible. There is no need to point out the difficulty that would arise in the case of lecture rooms erected in future on the University Street front of the college property.

VIBRATION

The difficulties caused by vibration will be increased by the bad foundations under University Street and they would interfere considerably with the operation of delicate balances and other refined instruments. It has been definitely proved that street traffic causes much heavier vibration than subterranean traffic and that the most harmful kind of surface traffic is that of street cars.

ELECTRIC CURRENT AND MAGNETIC FLUX

These disturbances would be most serious in the case of the delicate instruments in the Physics Building used in standardisation and research work. Some effects have already been felt sufficiently serious to cause apprehension and to delay work, and should this street car line be placed on University Street it would be necessary to discontinue much of the work altogether owing to the greater proximity and the more frequent disturbances.

The statements in these paragraphs have been fully borne out by actual measurements which have been taken at the University and the results of which are still available.

The methods involved in scientific work are becoming more refined at the same time as the importance of research work is more recognised by all groups of our social organization. While it is impossible to state the actual value of the standardisation and research work now being carried on in the Macdonald Physics Building, it is enough to say that the various governments of the world and in addition many financial corporations have recognised the importance of such work by large and continued money grants.