

I am enclosing a letter from Dr. Porter in which he gives the results of some investigations he made a few years ago in connection with vibrations produced in buildings by moving cars. These investigations were carried out more particularly to determine the extent of the vibration which would be produced by trains running through the Canadian Northern Tunnel which passes beneath the University Campus, but in connection with this Dr. Porter made certain investigations on the vibration produced by the passage of cars and heavy vehicles on streets which have a direct bearing on the matter under consideration.

(c) Electrical and Magnetic disturbances. There is also to be considered the effect of powerful electric currents passing through the wires which would be set up on University Street to supply motive power for the street cars. These electric currents will not effect the work of most of the Departments which may be housed in the university buildings on this street. The Department of Electrical Engineering is of the opinion that these currents will not be sufficiently powerful to interfere with the work which will be done by this Department in the new Science Building to be erected at the corner of Milton and University Streets.

Dr. Eve, however, is of the opinion that these currents will very seriously interfere with the work which is carried on in the present Physics Building. The currents passing through the Street Railway wires on St. Catherine Street can be distinctly recognized in the Physics Building at the present time, and Dr. Eve believes that if a car line was placed on University Street it would