

gaseous contents into the atmosphere above the roof of the building, but, in addition, the water closet, bath, wash-basins and sinks, may be directly connected with the sewer pipe, without any necessity for the intervention of air traps to such connections, while the rainfall of the roof will flush the pipe and keep it clean.

The advantages of this plan, especially in its simpler form of water shaft and ventilator, are not matters of conjecture; it has been tested in a number of buildings in Montreal and found to answer admirably, when it is properly constructed and the necessary precautions have been taken to ensure success. Several of these precautions were mentioned by Professor Godfrey at last meeting, and I will refer to them again further on. So satisfactory has the plan proved in the great majority of cases, that Mr. Alderman McLaren proposes to make its general adoption compulsory on all who may build hereafter, and has given notice of motion in the City Council to the following effect: "That every building to be erected hereafter within the city limits which shall have any connection with public or private drains, that is to say, such connections as sinks, wash-basins, baths or water closets, shall have a conductor or conductors suitable in size in proportion to the roof to be drained, without any trap or hindrance, leading direct up through said building to the roof, and also that all water closets, baths, etc., shall be connected with such conductor, *duly trapped*, so that no sewer gas can escape into any apartment of the house, but must pass direct up through such conductor, leading out at the roof of such building."

As was clearly shewn at the last meeting, by Professor Godfrey, immunity from the noxious effects of sewer gas, depends, by his plan, entirely upon the strength of the upward current from the sewer to the roof, being much greater than any check draught, or counter current, it may meet with on its course. Alderman McLaren, however, seems to have some misgivings as to the constancy or superior strength of this upward current; hence he is careful to stipulate that all house connections with this branch sewer or soil pipe, shall be "*duly trapped*," and the stipulation is, in my opinion, a very proper one.

It becomes necessary, however, before any such plan as this is