

feet, and again by $0.45 = 8,910$ cubic feet, the amount passing hourly through our chimney of 65 square inches sectional area. Of course this would be true for the individual case only; and to get the average amount of change of air in any room for a period we should require to determine the average temperatures outside and inside, which could be easily done by making repeated observations with an ordinary thermometer during a fixed period, and dividing the sums of the observations by the number of separate observations. . . . It may here be mentioned that the whole mass of air in a room is taken as homogenous, and that the height of the air-column is always taken to be from the *floor* of the room, wherever the outlet in the room may be. Thus the opening of the outlet in the room may be in the fire-place, near the ceiling, or at the floor; but the distance between the lower part of the column of air (that is, the floor of the room) and the point of delivery into the open air (the top of the chimney or ventilating tube whatsoever) remains unaltered. Nothing, therefore, can change this, except an actual lengthening or shortening of the chimney or ventilating tube; but where the opening in the room goes *straight* into the open air, without passing through a tube, then the height of the column of air is to be reckoned from the floor of the room to the opening.

“It is upon the above principles that the whole system of natural ventilation is based, all other questions being those of detail as to the form and size of openings, and their best mode of distribution in the inhabited air-space.”

To be Continued.

ABSTRACT OF REPORT OF THE MICHIGAN STATE BOARD OF HEALTH.

BY DR. H. B. BAKER, SECRETARY.

The Michigan State Board of Health held its regular quarterly meeting at Lansing, Jan. 11, 1876.

Mr. Goodman reported having fulfilled his duty as a committee to prepare and read a paper on school hygiene at the meeting of the State Teachers' Association at Grand Rapids this winter. As committee to investigate the sanitary condition of common schools, he was authorised to expend \$100 during the present year.

The secretary reported the work done in the office since the board last met. Blanks for the annual report of clerks of