

rooms must be unfit to live in during a great portion of the day. It must also be noticed that there are many things besides exhalation which tend to make air unfit to breathe, particularly imperfect removal of coal gases. Analysis would quickly show how bad is the air in many living rooms. But, as a quantitative analysis can not always be made, and would be costly, the occupants can make for themselves a qualitative analysis which will be in most cases all that is necessary.—Leave the room; go out into the fresh air for a few minutes, and return. The effect upon the sub-mucous tissue of the *olfactory region* will be quite evident, often, to those who were not aware that they knew any chemistry. (Patent applied for).

Why will people from the neglect of plainest precaution, or sheer laziness, rob themselves of health of body, and vigor of mind, by allowing the air of their apartments to become fetid,—putrescent!

Fresh air, like any valuable thing, cannot be secured without effort. Buildings are not so perfect that apartments air themselves automatically. But fresh air the student must have. Fresh air gave the Greek zest for the Olympian games,—made the Indian as swift as any who ever ran on Grecian sands. And fresh air will at least help to give the zest genius and of the Greek coupled with the muscles of the Indian. We want the combination of both.

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THE 22nd day of February, 1893, must be reverted to for all future time as one of the greatest, if not the greatest day, in the history of the Pennsylvania State College.

At first thought one remembers its brilliant oratory,—the utterances of that grand galaxy, Beaver, Pattison, Walker, Noble, which are still ringing in the mind, almost to the exclusion of *the fact* which called them forth.—Those splendid presences, and those matchless orations are a memory to be treasured for life, but the new building for civil, mechanical, and mining engineering, built to stand the wear of centuries,

and with "2½ acres" of working room, is a fact in our midst which we pass by every day. Two years ago its site was occupied by an orchard. Pennsylvania State College is forging ahead.

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THE Pennsylvania Mines and Mining exhibit at the World's Fair, now being arranged in the Mineralogy room by Prof. Romyn Hitchcock, of the Smithsonian Institute, promises to be the most scientific, and valuable of its kind to be seen at Chicago.

The primary object is to present such an exhibition of the raw materials of the State as can be conveniently and intelligently studied. It will show a complete collection of our building and ornamental stones. The production of coal and oil, and the hundreds of bye products derived from them, will be illustrated. Our various ores will be shown, and their metallurgy explained. Everything will be accompanied by the necessary analyses. Pennsylvania will give visitors to the Fair a splendid opportunity to study rapidly for a general idea, or at leisure systematically and thoroughly, her natural resources, and their development. For instance, the manufacture of glass will be shown by placing side by side various specimens of finished glass, glasses in different stages of manufacture, and the raw materials, the lime, potash, and silica which compose them, proportions and analyses being given to show how various metallic oxides occurring in the main constituents as impurities (or added) produce different kinds of glass.

The LANCE can promise its readers a detailed account of what will certainly be an invaluable exhibit, in the April number.

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THE editor asks leave to print the following communication:—

A member of the FREE LANCE staff is supposed to be a man of ready ability, and one who can and will, if necessary sacrifice his own time for the good of the LANCE: yet how often is he so lazy and indifferent that all the work is left to one or two men; and as they cannot do it as it should be done, the standing of our paper suffers in consequence. He may excuse himself by saying that he gets nothing for his