AIR WE BREATHE.

Professor Kingsbury on the Great Supporter of Life.

AN INTERESTING DISCUSSION.

Constituents of the Atmosphere—Lively Suggestions as to How to Keep It Pure for Breathing.

The following is a synopsis of a lecture delivered by Professor Kingsbury before a meeting of Salt Lake County school teachers:

The air we breathe envelops the earth and extends upwards from its surface fifty miles—probably five hundred. It consists mainly of oxygen and nitrogen, in small quantities carbonic acid gas and watery vapor, and in very minute quantities ozone, hydrogen, peroxide, nitrous acid, organic matter, etc. The oxygen is the great supporter of combustion, through its presence animal life is confined to exist. In the bottle before you, has been collected some of this gas. You will observe on inserting a glowing taper into the bottle that the spark bursts out into a flame. The nitrogen which acts as a diluent has just the opposite properties to oxygen. It is a non-supporter of combustion and is incapable of sustaining life. You observe that as the flame on the exit of this rock is brought into the bottle be-fore you containing oxygen it is extinguished.

Carbonic acid gas is found in the atmosphere generally, in the proportion of one parts to ten thousand parts of air. When it is increased to six or eight or more it then becomes detrimental to health. This gas is the product of animal respiration. As we inhale, the air enters our lungs, and the oxygen coming in contact with certain organic matter combines it, and produces carbonic acid gas and water, which are then expelled from the lungs as we exhale. Carbonic acid gas is the principle food of vegetation. Vegetation absorbs the gas, decomposes it, and liberates oxygen. Animal life supplies food for the vegetable kingdom, and vegetation supplies oxygen for the animal kingdom. Carbonic acid gas is a non-supporter of combustion and hence carries massive animal life. By breathing into the glass jar this and inserting a lighted taper into it, you observe that the light is instantly extinguished. This gas is colorless, and as it is detrimental to health when found in considerable quantities in the air, as well as an indicator of the presence usually of injurious substances.

Every adult, always in larger or smaller quantities, in the air, should be tested and guarded against as almost sure to seventy-five percent of air-carriers for health. Ozone, a different kind of oxygen, is one of the very active cleansing constituents of the air. It readily destroys organic matter in its presence. It is found in the air in the proportions in the "country" air, and in the smallest amounts in and about large city cities. This is necessarily so from the fact that the organic matter in cities being quite abundant uses up the ozone. This important gas is produced during electrical storms. The electricity passing through the air changes some of the oxygen into ozone.

Hydrogen peroxide is another very active ingredient. It oxidizes organic matter, rending therefore to destroy any vegetable or animal germs present. It is the product of the oxidation of ammonia in the atmosphere by ozone. Nitrous acid is another substance destructive of organic germs and the product of a chemical action between oxygen and nitrogen brought about by electrical discharges during electrical storms or during any electrical discharges through oxygen.

Organic matter is found in larger or smaller quantities in the air, depending upon the moisture present. In cities where there are streets containing considerable dust, much organic matter may be lifted into the air during windy weather if not kept down by sprinkling.

This may include disease germs along with other matter. For instance, to Naples Doctor Manfredi found in one gram of dust on one of the streets 70,000,000 microbes, on one of the best streets 18,000,000 per gram, and in one of the most filthy streets 4,000,000 microbes per gram. In this dust there were several different disease germs. It is quite important to have the streets sprinkled to allay the dust and thus to prevent as much as possible organic matter from rising in the air.

In and about our houses it is necessary to look well to the surrounding conditions. In cellars underneath our dwelling houses, no decaying organic matter should be allowed to remain; for gases produced by its decay may either promote the growth of other organic matter, animal or vegetable, or through their presence deteriorate the air in our living rooms and render it unhealthful. Such cellars should have cemented floors and walls, and these walls and the ceilings should be whitewashed with lime to disinfect them. It is best to keep in the cellars cupboards and boxes in which to put away foods of different kinds and to occasionally take these from the cellars and wash them thoroughly.

Great care should be bestowed upon our cellars, especially when they are underneath our houses, for whatever the air of these cellars is may determine more or less the kind of air pervading our living rooms above. Floors should be hardwood if possible and the joints between the boards should be close so that dirt could find no lodging place where it might remain year after year. The dirt which might thus accumulate is partly organic matter and might even be disease germs. It not cleaned germs it might be such as would supply or decomposition the kind of food necessary for the growth of these germs. Floors should be painted and oiled, the latter being the better, to thus prevent them from absorbing organic matter.

Walls whitewashed are much more productive of health than those painted or papered. Neither calcimine nor paper is permeable to air, but ordinary plaster is. You will observe as I blow through the neck of this pipe against the flame of the lamp that the air passes through the plaster and paper on the level and blows the flame to one side. Moreover, the glue paste used both in the calcimine and for papering aids bacteria decomposition and thus becomes obnoxious.

Besides this, paper very frequently contains arsenic, and moisture in quite large quantities. Most all the green shades used in coloring the paper are made by arsenic compounds. Even in the white enameled paper arsenic to the amount of from fifteen to twenty five grains to the square foot has been found. Sometimes sickness of a long lingering undetectable character is due to the arsenic dust coming from the wall paper. If the walls are calcimined the ceilings should not be in order that the air might pass through them. In laying up walls water used in mixing the mortar contains more or less organic matter which may become oxidized and destroyed in a short time provided the free passage of air through it can be secured by calcimine or paper that otherwise might long remain and give rise to disease.

Our houses should be well ventilated and especially our living and sleeping rooms. Only allowing flues should be well constructed, have good return bends, and the stoves used to be free from cracks that the carbon monoxide which is such a deadly poison might not escape into our rooms. Carbon monoxide is that seen burning just above the embers of the third coal with a pale blue flame. Minute quantities of the gas in the air we inhale will produce headache, and additional quantities death. Rests directly upon the hemoglobin, the coloring matter of the red corpuscles of the blood.

In our yards organic matter accumulated should be constantly collected, burned or hauled away. Ashes usually should be kept dry. Slow about our premises, as moisture coming in contact with them produces alkaline hydrogen, which is a food to low and destructive organic growths. The air of our cities should be tested to ascertain its condition with respect to gases and also organic matter. Sometimes in the vicinities of smelters when changes favorable for such occurs, sulphur, etc., are found in quantities entirely too large.

Manufactories where chemicals are either being made or used should be carefully looked into to health officers, because in some cases the air coming from them is so much impregnated with sulphuric and hydrochloric acid fumes, etc., highly detrimental to health. Health officers should have enough to appreciate the importance of having all these things properly attended to, and to have them inspected by thoroughly physicians and chemists.

Easy to Take

and keep the system in Perfect Order.

AYER'S

CATHARTIC PILLS

A specific for Headache Constipation, and Dyspepsia. Every dose

Effective

GENUINE bears the signature of Baron Justus von Liebig on every jar.

Liebig

It is almost unnecessary to add that this refers to the world-known

Liebig COMPANY'S

Extract of Beef.

For delicious refreshing beef Tea. For improved and economical cookery.

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Evaporated Cream.

PURE, UNSWEETENED.

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HENRY WAGNER

SALT LAKE CITY.

CALIFORNIA BREWERY.

LAGER BEER, ALE AND PORTER.

Wholesale and Retail.

Cor. 40 East, First South Streets.

LEGAL NOTICE.

In the Probate Court of and for Salt Lake County, Territory of Utah.

In the Matter of the Estate of Clara L. J. Young, Deceased.

NOTICE IS HEREBY GIVEN THAT S. V. Jones and H. H. Rolfe, executors of the last will and testament of said Clara L. J. Young, deceased, have filed in said Court their account of their administration of the estate of said deceased, and that the hour of 10 o'clock a. m. of Saturday, the 9th day of December, A. D. 1893, at the Court House of said county, in Salt Lake City, Utah Territory, has been appointed for the settlement of said account, when and where all persons interested in said estate are required to appear and show cause why said account should not be approved and the executors discharged from their trust.

Dated November 18, 1893.

H. T. MELOY,
Clerk of the Probate Court.
By J. F. JACK, Deputy.

DELINQUENT NOTICE.

LIBERTY HILL MINING COMPANY, LOCATION: Tintic district, Juab county, Utah Territory. Location of Work: Eureka Hill, Tintic District, Utah Territory.

There are delinquent upon the following-named shares of stock, the assessment levied upon the 10th day of August, 1893, thereof, the following-named sums, and in accordance with law and the order of the trustees, so much of the stock as may be necessary will be sold at public auction, to the highest bidder, on the 20th day of September, 1893, at the office of the company, the office of Dwight Harrington, Room 3, Dooly Block, Salt Lake City, to the extent of the delinquent assessment, with costs of advertising and expenses of sale.

Certificate No.	Name	No. Shares	Amount
1	D. S. Meservey	100	$ 10
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476	A. C. Hill	100	10
477	A. C. Hill	100	10
478	A. C. Hill	100	10
479	A. C. Hill	100	10
480	A. C. Hill	100	10
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482	A. C. Hill	100	10
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493	A. C. Hill	100	10
494	A. C. Hill	100	10
495	A. C. Hill	100	10
496	A. C. Hill	100	10
497	A. C. Hill	100	10
498	A. C. Hill	100	10
499	A. C. Hill	100	10
500	A. C. Hill	100	10

And in accordance with the law and the order of the board of trustees made on the 10th day of August, 1893, so much of the stock as may be necessary will be sold at public auction, to the highest bidder, on the 20th day of September, 1893, at the office of the company, room 3, Dooly Block, Salt Lake City, Utah, to the extent of the delinquent assessment, with costs of advertising and expenses of sale.

E. M. ROBINSON, Secretary.

Principal Office, Salt Lake City, Utah.

DELINQUENT ASSESSMENT

Delinquent notice—Grand Mining and Milling Company.

Location of principal place of business, Salt Lake City, Utah.

Location of mine, Tintic mining district, Utah.

NOTICE, THERE ARE DELINQUENT UPON the following described stock on account of assessment levied on the 6th day of August, 1893, the amount thereon, and the time and place of sale of the respective shares follows, to wit:

	No. of Cert. Shares	No. of Shares	Amt.
Jesse Dick	1	1000	$ 10
"	2	1000	10
"	3	1000	10
"	4	1000	10
"	5	1000	10
"	6	1000	10
G. C. Willis	7	1000	10

And in accordance with law and the order of the board of trustees made on the 10th day of August, 1893, so much of the stock as may be necessary will be sold at public auction, to the highest bidder, on the 20th day of September, 1893, at the office of the company, room 3, Dooly Block, Salt Lake City, Utah, to the extent of the delinquent assessment, together with the costs of advertising and expenses of sale.

E. M. TAYLOR, Secretary.

NOTICE OF ASSESSMENT.

Office of the Consolidated Gold Silver Mining and Milling Co., Salt Lake City.

NOTICE IS HEREBY GIVEN THAT at a meeting of the board of trustees of the Consolidated Gold Silver Mining and Milling Co., held on the 6th day of August, 1893, the following assessment was levied upon the capital stock of said corporation, to wit: Section 1. That the sum of $1 on each share of the capital stock of said corporation, to wit, 1,000,000 shares, is hereby levied and assessed upon the capital stock of said corporation, payable to the secretary, A. Milton Weaver, at the office of the company, 40 East, South Temple street, Salt Lake City, and the payment of said assessment on said stock will be required to be made on or before sunset, September 23rd, 1893, to the said secretary, A. Milton Weaver, or his office above mentioned.

Any stock upon which this assessment shall remain unpaid on said 23rd day of September, 1893, will be advertised delinquent and sold at public auction, on Saturday, the 14th day of October, 1893, at 2 o'clock p. m