

AN ODE TO THE NIGHTINGALE.

What time thy heavenly voice preludes
Unto the fair and silent night,
Wing'd minstrel of my solitude,

the leaders of the Irish people. Frieze is still made in Ireland. No longer woven to any extent on hand looms, it is produced with improved machinery,

THE KITCHEN.

POTATO SCALLOPS.

Mince till very fine some streaked bacon or tolerably lean ham, a few savory herbs or parsley. Mix with the potato (mashed) meat to the proportion of three parts potato to one of meat.

CHICKEN HALIBUT.

This is the season of the chicken halibut, and the young of this fish is especially delicious, boiled or roasted. The halibut usually sold in our market is a fish weighing from fifty to seventy-five pounds.

RICE PUDDING.

Nearly every one is familiar with a plain boiled rice pudding, yet very few make it with success. It should be a creamy rather than a compact mixture, each grain of rice lying distinctly by itself in a little creamy bed.

YOUTHS' DEPARTMENT.

USING THE THERMOMETER.

There are some peculiarities about the ordinary thermometer that are not, I think, as well understood as they should be. Everyone knows, of course, that a thermometer is an instrument designed to measure temperature by the expansion of a quantity of mercury contained in a bulb with a fine stem.

This flow of heat becomes very slow, indeed, as the mercury approaches the temperature of the water, so that several minutes may elapse before the column of mercury becomes quite stationary. When it does so, and not before, the "reading" of the thermometer gives the true temperature of the water.

If the thermometer is surrounded by air, the heating process is very much slower, and the mercury does not come to rest for a long time. An ordinary house thermometer, when taken from a cold to a warm place (or vice versa), will not attain the temperature of the air surrounding it in its new position for many minutes.

It will not do so at all except under favorable circumstances. Suppose, for example, that the air is quiet, and the sun is shining brightly on the thermometer. Of course, the instrument will be heated above the temperature of the air, just as a stone or a piece of iron would be.

can all these causes of error be avoided, and the true temperature of the air obtained?

They cannot be entirely avoided, but it is quite easy to diminish their effects so greatly that they are of no practical importance. It will be readily seen, that if the air were a very good conductor of heat, the effect of the sun or other hot body upon the thermometer would be very slight, because the air which surrounds the thermometer would carry off the heat so rapidly, that the temperature of the mercury could never rise far above that of the air.

But air is a very poor conductor—indeed it can scarcely be called a conductor at all. Air cools hot bodies by the process called convection. The air in contact with the hot body becomes heated, expands, and, being lighter than the surrounding air, rises and is replaced by the latter. This is heated in turn, and rises in the same way, and so a current of air is formed, which continually carries heat from the hot body.

But this process is a very slow one, and the convection current is a very gentle breeze indeed.

Hence a heated body cools very slowly in still air. If the air is not still, however, but a brisk breeze is blowing, the cooling is much more rapid, as the wind changes the air about the hot body far more rapidly than a mere convection current can do. Hence a thermometer exposed to a gale of wind will soon attain the temperature of the air very nearly and will remain practically at the air temperature, no matter what hot bodies in the vicinity are striving to make it blunder.

The heat radiated by these bodies to the thermometer will be carried off by the wind as fast as it arrives. In the absence of a natural gale, it is only necessary to create an artificial one with a bellows or a fan.

But it evidently does not matter whether the air moves rapidly across the thermometer or the latter moves rapidly through the air, and hence it suffices to attach the instrument to a short cord and swing it rapidly around in a circle. This arrangement is called a "slung thermometer," some form of which is generally used for measuring air-temperature accurately.

A few simple experiments with a cheap house thermometer—I say a "cheap" one, because it is just possible that it may be smashed at the beginning of the experiments—will show the surprising effect of rapid motion through the air.

On a hot summer day the thermometer, hanging on a sunny porch, may stand at 120°. Of course, the air has no such high temperature as this, and if you take down the thermometer and hang it up in the shade, it will gradually come to nearly the true temperature of the air—perhaps 80° or 90°. This descent of the mercury will take a long time, but if, instead of simply hanging the thermometer up, you tie a string to it and whirl it violently around your head it will reach its final temperature in a very few minutes. Even if the whirling is done in sunshine and with great rapidity the direct effect of the sun's rays will be very small, and the instrument will soon record (very nearly) the temperature of the air at that place, which may, on a calm day, be a little higher than that of the air in the shade.

Even a thermometer which hangs constantly in a shaded place, far from any very hot or very cool bodies, does not, as a rule, correctly indicate the temperature of the air at the time of observation. For the temperature of the air is almost continually changing—at times, very rapidly—and the thermometer, as is evident from what has been said, will not follow these changes at all closely, unless the wind is blowing hard.

Within doors, too, and especially in winter, the temperature of the air may change rapidly, and the heat radiated from human bodies, lamps and stoves affects the thermometer.

In all cases, therefore, the "slung" method must be used, if we wish to know the true temperature of the air.

But, it may be asked, why confine our attention to the temperature of the air? The sun's rays, the radiation from stoves, etc., affect us as well as the thermometer. If the thermometer feels warm in the sunshine, why not let it say so, as we do ourselves?

Simply because the effect of radiated heat on the thermometer gives no reliable indication of its effect on ourselves, nor are all thermometers, even, affected alike. Two perfectly correct thermometers which agree when "slung" together in the shade, or when immersed in a pail of water, may differ greatly when hung up in the sunshine. For the amount of solar heat absorbed by the instruments varies with their size and shape, the quality and thickness of the glass and the character of the case. To say that the thermometer stands at 100° in the sun gives no valuable information to anybody who does not know all about your thermometer and the place where it hangs. The temperature of the air is all that the house thermometer can be expected to indicate, and it will not indicate this truly unless the above-mentioned precautions are taken.—Lawrence B. Fletcher, M. D.

Blood Poison.

The most efficient advertising in behalf of Hood's Sarsaparilla is that which comes from the medicine itself. That is, those who are cured by it speak to friends suffering similarly, who in turn derive benefit and urge others to try this successful medicine. Thus the circle of its popularity is rapidly widening from this cause alone, and more and more are becoming enthusiastic in behalf of Hood's Sarsaparilla as it actually demonstrates its absolute merit. All that is asked for Hood's Sarsaparilla is that it be given a fair trial. If you need a good blood purifier, or building up medicine, try Hood's Sarsaparilla.

France and the Vatican.

Berlin, August 4.—The National Gazette has a despatch from Rome saying France and the Vatican entered into a new agreement in July by which France undertakes to help the Vatican in its financial embarrassments and the Vatican binds itself to support the Republic at home and abroad. The two parties also agreed, it is said, to promote republican propaganda in Italy.

MONEY

It is the object of our paper to give our readers the most complete and accurate information possible regarding the Louisiana State Lottery Company.

UNPRECEDENTED ATTRACTION!

OVER A MILLION INTERESTED.

LOUISIANA STATE LOTTERY COMPANY.

Inscribed by the Legislature for Educational and Charitable purposes, the Louisiana State Lottery Company was organized in 1870, by an act of the Legislature.

GRAND MONTHLY DRAWING.

WILL TAKE PLACE AT THE ACADEMY OF MUSIC, NEW ORLEANS, TUESDAY, SEPT. 8, 1891.

CAPITAL PRIZE, \$300,000.

100,000 Numbers in the Wheel.

LIST OF PRIZES.

Table with 2 columns: Prize Amount and Number of Prizes. Includes 1st Prize of \$300,000 (1), 2nd Prize of \$50,000 (1), 3rd Prize of \$10,000 (1), etc.

APPROXIMATION PRIZES.

Table with 2 columns: Prize Amount and Number of Prizes. Includes 100 Prizes of \$500 (100), 100 Prizes of \$100 (100), etc.

TWO NUMBER TERMINALS.

Table with 2 columns: Prize Amount and Number of Prizes. Includes 999 Prizes of \$10 (999), 99 Prizes of \$100 (99), etc.

3,134 Prizes, amounting to \$1,051,900.

Price of Tickets:

Whole Tickets at \$20; Halves \$10; Quarters \$5; Tenths \$2; Twentieths \$1.

Club rates, 15 fractional tickets at \$1, for \$50.

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AGENTS WANTED EVERYWHERE.

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Send Money by Express at our Expense in Sums Not less than Five Dollars, on which we will pay all charges, and we prepay Express Charges on TICKETS and LISTS OF PRIZES forwarded to correspondents.

Address PAUL CONRAD, New Orleans, La.

Give full address and make signature plain.

Congress having lately passed laws prohibiting the use of the mails to advertise lottery tickets, we are unable to send you tickets or prize lists by mail.

Lists of Prizes, until the Court shall decide otherwise at a future session. The Postal authorities, however, will continue to deliver all ORDINARY letters addressed to Paul Conrad, but will not deliver REGISTERED letters.

The official Lists of Prizes will be sent on application to all Local Agents after every drawing in any quantity by Express, FREE OF COST.

ATTENTION.—The present charter of the Louisiana State Lottery Company, which is part of the Constitution of the State, and a condition of the SUPREMACY OF THE UNITED STATES, is an inviolable contract between the State and the Lottery Company, and will remain in force under all circumstances FIVE YEARS LONGER, UNTIL 1895.

The Louisiana Legislature, which adjourned July 10th, voted by two-thirds majority in each House to let the people decide at an election whether the Lottery shall continue from 1895 until July 10th, 1900, or until such time as THE PEOPLE WILL FAVOR CONTINUANCE.

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Unlocks all the clogged avenues of the Bowels, Kidneys and Liver, carrying off gradually without weakening the system, all the impurities and foul humors of the secretions, at the same time Correcting Acidity of the Stomach, curing Bileousness, Dyspepsia, Headaches, Dizziness, Heartburn, Constipation, Dryness of the Skin, Dropsy, Dimness of Vision, Jaundice, Salt Rheum, Erysipelas, Scrofula, Fluttering of the Heart, Nervousness, and General Debility; all these and many other similar complaints yield to the happy influence of BURDOCK BLOOD BITTERS.

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INVESTED FUNDS 10,936,943 51

INVESTED IN CANADA 1,254,674 51

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1891—SEASON—1892.

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To QUEBEC—Steamer QUEBEC and CANADA will leave Montreal daily (Sundays excepted) at 7 a.m.

To TORONTO—Commencing Monday 1st June, leave daily, Sundays excepted, at 10 a.m. from Lachine at 12:30 p.m., from Ottawa Landing at 4:30 p.m.

To the SAGUENAY—Now leave Quebec every Tuesday and Friday at 7:30 a.m. and from Saguenay on 15th September start times: Saguenay, Tuesdays, Wednesdays, Fridays and Saturdays.

To CORNWALL—Steamer BOHEMIAN every Tuesday and Friday at noon.

OTHER SERVICES—Every Tuesday, and Friday at 1 p.m.

To CHAMBLAY—Every Tuesday and Friday at 1 p.m.

To BOUCHERVILLE, VALENNE, VERCHERS and BOUT DE L'ILE—Daily (Sundays excepted), per Steamers GIBBERONNE at 5:30 p.m. Saturdays at 2:30 p.m.

LANGUEVILLE FERRY—From Langueville 5 a.m. and every subsequent hour, from Montreal commencing at 5:30 a.m. Last trip 8:30 p.m. See time table.

To LAPRAIRIE—From Montreal, from 25th May to 31st August, on Mondays, Wednesdays, Thursdays and Saturdays, from Laprairie 5:30 a.m., 1:30 and 5:30 p.m. From Montreal 8:30 a.m., 12 noon, 4 and 6 p.m. On Tuesdays and Fridays from Laprairie, 8 a.m., 10:30 a.m., 1:30 and 5:30 p.m. From Montreal, 8, 9, 12 noon, 4 and 6:15 p.m. On Sundays and holidays, from Laprairie, 7, 8:45 a.m., and 5 p.m. From Montreal, 8 a.m., 12 noon and 6 p.m.

EXCURSIONS—Commencing Saturday, May 2nd, by Steamer Terrabonne, every Saturday at 2:30 p.m. for Verchères, and returning at 7 a.m. for Contrecoeur returning same evening at about 8 p.m.

For all information apply at Company's Ticket Office, Richelieu Pier, Windsor Hotel, Balmoral Hotel.

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