THE MORNING GUARDIAN.

VOL. I. CHARLOTTETOWN, PRINCE EDWARD ISLAND, WEDNESDAY, MARCH 4, 1891. No. 32.

The Morning Guardian

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THE GUARDIAN PUBLISHING Co.

FROM THEIR OFFICE IN THE

Cameron Block

The Only Morning Paper in the Province.

Delivered on the Breakfast Tables of the City, and all over the Province by noon.

TERMS:

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Six Months.....2.00

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B. D. HIGGS,
Editor and Managing Director.

BUSINESS DIRECTORY.

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BEAIRSTO, R., Auctioneer and Commission Merchant. Office and Warerooms, Dodds's old stand, Queen st., Ch'town. nov 7

NORTON & Co., E. H., Auctioneers, Commission Merchants, Money lenders. Salesrooms, Queen street, Ch'town. nov 7

WOODSIDE, B. L., Auctioneer & Commission Merchant. Farm and stock sales a specialty. Sales-room, Water street, *Summerside*.

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DENTAL CARDS.

DR. BAGNALL, Surgeon Dentist. Corner Queen and Richmond streets, Ch'town. Office hours, 9 a.m., to 1 p. m ; 2 p. m. to 5 p.m.

DR. STRICKLAND extracts teeth without pain by vegetable gas, electric forceps, 25 years practice. *Prices guarantee* without work.

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HAZZARD, HORACE; Fire and Marine. The Western Assurance Co. Office, South Side Queen Square, Ch'town. Aug 25

URQUHART, A. S. See Card in another column, Feb 21

DESBRISAY, T.A.S., Queen Insurance Co. of England. Confederation Life Asso. Office, Brown's Block, Maket Square, Ch'town. Jy 25.

LEGAL CARDS.

MCLEAN & MCDONALD, Barristers and Solicitors. Office—Brown's Block, Charlottetown; Gaffney's Building, Water Street, Summerside. Money to loan. nov 7

GOOD, JAMES H. Attorney-at-Law, Commissioner, etc. Office, Cameron Block, Queen Sq, Ch'town. Money to loan. June 13

WARBURTON & SMALLWOOD, Barristers, Solicitors, &c., Cameron Block, Ch'town, P. E. I.—Money to loan at low rates. nov 7

DAVIES & HASZARD, Barristers and Attorneys. Office, Dodd's Building, Queen Street, Charlottetown, P. E. I. nov 7

MCLEOD, MORSON & MCQUARRIE, Barristers, Solicitors, &c. Office—Charlottetown, Brown's Block; Summerside, over Merchants Bank of Halifax. Money to loan. nov 7

MACNEILL & MCDONALD, Barristers, Solicitors, &c. No. 24, Gt. George St. Charlottetown, P. E. I. Money to loan. nov. 7

REDDIN, J. H., Barrister, &c., Cameron Block, (Head of stairway), Collections carefully attended to. Money to loan. nov 7

M. & D. C. MCLEOD, Barristers, Solicitors, &c. Office, over Bank of Nova Scotia, Ch'town. Money to loan. nov 7

MELLISH, JOHN T., Attorney-at-Law, Notary Public, etc. Office, London House Building, Queen St., Ch'town. Money to loan at low interest. [Jan 17, '90]

STEWART & MCNEILL, Barristers and Solicitors — Office Newson's Block, opposite Post Office. Money to loan. July 25, '90

MOORE, F. W. L., Barrister, Solicitor, Notary Public, Commissioner, etc.—Office, London House. Loans negociated July 25, '90

PRINTERS, &c,

HASZARD, G. HERBERT, Book-binder, Printer and Stationer, Brown's Block Ch'town, P. E.I. nov 7

COOMBS, JOHN, Steam Printer and Book-binder, Queen Street, Charlottetown, P. E. Island. nov 7

ISLAND GUARDIAN Co.—Billheads, Cards, Circulars, Letter Heads, and every variety of printing neatly and promptly executed. Cameron Block, Charlottetown.

TAYLOR & GILLESPIE, Bookbinders, Blank Book Manufacturers, &c, North side Queen Sq., Ch'town, P. E. I. nov. 29

MANUFACTURES.

PALMER & Co., Ch'town Sash and Door Factory, Peake's No. 4 Wharf, Ch'town, P. E. Island. [Jan. 23, '91.]

WHITE & SON, A. Founders & Machinists, Foundry, King Square, Ch'town. House heating a specialty nov22

PICKARD, JASPER, Saddler and Harness Maker. Repairing done promptly. North side Queen Square, Ch'town. nov 22

CH'TOWN WOOLEN MILLS. Store N. side Queen Sq.; Branches at Montague, P. E. I. and New Glasgow, N. S. Wool wanted. nov 22

MCKINNON & MCLEAN, Iron Founders Machinests and Boiler Makers. Hot water heating. Spring St, Ch'town, P. E. I. nov 22

FANNING, P. T., Manufacturer of and dealer in Boots & Shoes, Custom work a spicialty. Leathers and findings. Water st., *Summerside*.

CH'TOWN Roller Mills: Cash paid for Wheat, or fine Flour, Shorts and bran given in exchange. Flour, Cornmeal and Feed for sale cheap. Feb 27, '90

SCHURMAN, Clark & Co., manuf's and builders. S'side, building materials of all kinds; School & Church Furniture a speciality. July 6

MISCELLANEOUS.

WILLIS, Co., J. F., Pianos & Organ dealers, &c.; McEachern's Building, Lower Queen Street, Ch'town, P. E. I. nov 7

PEAKE BRO'S. & Co, Ship owners, Chandlers, Hardware Merchants. Agents Black Diamond S. S. Co. L. Queen St, Ch'town, P.E.I.

CLARKE, W. W., Com. Merchant; Agent Furness Steamers to London, Halifax & P. E. I., & Fishwick Steamship Co's., Canadian Express Co., Republic Building & Loan Asso. & London Masonic Mutual Asso., Charlottetown, P. E. I. dec 9

NEWBERY, FENTON T., Wholesale Grocer, Commission Merchant, Shipping Agent. Fire, Marine, & Accident Insurance. Inman & Dominion S.S. Lines. Water St. Ch'town. nov 22

TOOMBS, G. H., Commis'n Merchant, wholesale Grocer, dealer in Produce, Agent Cornwall Cheese, 59 Queen St., Ch'town. nov 22

TELEPHONE Co., R. Angus, Manager. Office, No. 81, Lower Water St., Ch'town. Connection with nearly all parts of the Island

COOK & Co., Photographers. Rooms over Apothecaries' Hall, Charlottetown. Photos finished in best style. nov 22

HIGGINS, JOHN—Sewing Machines repaired promptly: satisfaction guaranteed North side Queen Square, Ch'town, P.E.I. Jul 4 '90

MERCHANTS BANK OF P. E. I.—L. H. Davies, M. P., President; D. Farquharson, E. L. Haszard, L. L., Geo. Benj. Hearn, Wm. Dodd, Cashier: Wm. McLean. Office opposite Bishop's Palace, Great George St. Souris Agency, J. J. Hughes, Agent. nov 7

LECKIE, A. A., Graduate of Royal College of Veterinary Surgeons, Glasgow. Eldon House, Kent St., Charlottetown.

LIVERY STABLES.

WORTH'S Livery Stables, Prince St. Charlottetown. Telephone communication. First-class Teams supplied promptly. nov 22

GILLIS, P. P., Boarding and Sales Stables, Great George street, opposit Bishop's Palace, Charlottetown. Dec. 5, '90

WHOLESALE.

CARVELL BRO'S., Commission Merchants, wholesale Grocers, Agents for Old Sydney and Victoria Mines; the Guardian, Fire, and the Boston Marine Insurance; the Allan Line; the Quebec and the Boston, Halifax & P. E. Island Steamship Lines. nov 18

MYRICK & Co., J. H., Packers & Dealers in Pork, Lard, Hams, Fish &c., Grafton St., Ch'town: Tignish & Alberton. nov 22

HAVE YOU

Indigestion,

Constipation,

or any of the many ailments caused from a Billious Stomach?

If so try a bottle of the Great Discovery

LILAC FLOWER.

A sure cure for the above diseases.

C. D. RANKIN,
Agent for Queen's County.
J. A. GOURLIE,
Agent for Prince County.

Ch'town, Jan. 30, '91—d &w

Dissolution of Partnership

THE Partnership between the undersigned as Barristers and Attorneys, under the style of PALMER & MCLEOD, having terminated by lapse of time, is dissolved from this date.

Dated at Charlottetown, 31st December, 1890.

MALCOLM McLEOD,
H. J. PALMER,
D. C. McLEOD.

Jan7—all dlys 3 w. wklys 2 mos

NOTICE.

THE undersigned have entered into Partnership as Attorneys and Solicitors under the name of

M. & D. C. McLEOD.

OFFICE—Bank of Nova Scotia Building, Charlottetown, P. E. Island.

MALCOLM McLEOD,
D. C. McLEOD.

Ch'town, Jan. 2, 1891.
all dly papers 3wks. wkly 2 mos

H. JAMES PALMER,
(of the late firm of Palmer & McLeod)
Barrister, Attorney-at-Law, Notary Public, Etc.
OFFICE—O'Halloran Building, next door to Bank of Nova Scotia.
MONEY TO LOAN.
Jan7—3m pd

A. S. URQUHART,
General Insurance Agent,
BROWN'S BLOCK,
QUEENS SQUARE, CHARLOTTETOWN,
P. E. ISLAND.
REPRESENTING:
Lancashire, Commercial Union, and British America Insurance Companies.
Sept. 13, '89. ly

ISAAC W. WADMAN,
UNDERTAKER,
GRAFTON STREET, CHARLOTTETOWN,
A large assortment of Caskets, Coffins and Trimmings kept constantly in stock.
Undertaking personally attended to—Charges moderate.
Ch'town, Sept. 20, '89. ly

DR. BAYNES AGAIN.

SIR,—As the old saying goes, "It never never rains but it pours, so it is with Dr. Baynes. One of his "grateful patients" wrote to the papers championing his cause. Then followed several others. Now, as I have been benefited greatly by the Doctor, I think it only fair that I should say a good word for him. For a great number of years I suffered from sick stomach and liver complaint, so much so that I was unable to eat a meal without pain. As a last resort I was ordered a cyphon tube to wash out my stomach every day. I was in this miserable state when I consulted Dr. Baynes last July. After thoroughly examining me, he told me to throw aside my tube as I never would require it again, and I can now honestly say that after I began his treatment, I have not suffered once, but have improved steadily. Now I am never troubled, and can eat a good meal with some relish and not in fear and trembling. I have much pleasure in thus publicly expressing my gratitude to him for my restoration.

Thanking you for this space when I know you must be crowded by political matter, I am yours, &c.

C. C. JURY.

—:o:—

DR GEORGE A. BAYNES' APPOINTMENTS.

HUNTER RIVER—Bagnall's Hotel, Monday, February 23d.
EMERALD JUNCTION—Hughes' Hotel, Tuesday, February 24th.
SUMMERSIDE—Clifton Hotel, Wednesday and Thursday, Feb. 25th and 26th.
CHARLOTTETOWN—Office, Queen Square, Friday and Saturday, 27th & 28th.
MONTAGUE BRIDGE—Mrs. McDonald's Hotel., Tuesday and Wednesday, 3rd and 4th March.
GEORGETOWN—Mrs. Aitkens' Hotel, Thursday, 5th March.
CHARLOTTETOWN—Office, Queen Squaae, Friday and Saturday, 6th & 7th.
SOURIS—Cox's Hotel, Tuesday and Wednesday, 10th and 11th.
MOUNT STEWART—Mrs. Clark's Hotel, Thursday, 12th.
CHARLOTTETOWN—Office, Queen Square, Friday & Saturday, 13th & 14th.

And thereafter every day between the hours of 10 and 12 a. m., and 2 and 5 p. m

February 16, 1891.

NEW SPRING HATS!

JUST OPENED.

TEN CASES NEWEST LONDON HATS,
FOR MEN AND BOYS,

Bought direct from the Manufacturers, the Prices Cheapest consistent with quality. Do look at these Hats before you buy elsewhere.

J. B. MACDONALD.

THE GREAT SLAUGHTER SALE OF

Boots & Shoes

—NOW GOING ON AT THE—

DOMINION BOOT AND SHOE STORE

Will be continued for Two Weeks longer. Go there for Best Bargains.

STANLEY BROS.

STAPLES.

White Cottons,
Print Cottons,
Sheeting Cottons,
Pillow Cottons,
Ginghams,
Tickings,
Flanneletts,
Linen Sheetings,
Pillow Linen,
Hessians.

STANLEY BROS.,
BROWN'S BLOCK.
Ch'town, Feb. 19

CALEDONIAN
INSURANCE COMPANY.

THE OLDEST SCOTTISH OFFICE.
Founded 1805.

CONSERVTIVE in their BUSINESS. Prompt in their Settlements. *Insure against Fire.*

E. H. NORTON & Co.
Agents for P. E. Island

PARSONS' PILLS

Make New, Rich Blood!

These pills were a wonderful discovery. No others like them in the world. Will positively cure or relieve all manner of disease. The information around each box is worth ten times the cost of a box of pills. Find out about them, and you will always be thankful. ONE PILL A DOSE. They expel all impurities from the blood. Delicate women find great benefit from using them. Illustrated pamphlet free. Sold everywhere, or sent by mail for 25 cts. in stamps; five boxes $1.00. DR. I. S JOHNSON & CO., 21 Custom House St., Boston, Mass.

HARDWARE

HARDWARE

HARDWARE

HARDWARE

WHOLESALE & RETAIL

DODD & ROGERS

CHARLOTTETOWN

Feb. 17.—1 yr. o o d & w

BENSDORP'S

ROYAL DUTCH COCOA.

BENSDORP'S Royal Dutch Cocoa has a most enviable repute the world over. It is manufactured at Bensdorp & Co.'s extensive works in Amsterdam, Holland. The excellence of the beverage is not to be wondered at, considering the care exercised in its production. The beans from which it is manufactured are the product of one of the famous South American plantations, exclusively. The crop is shipped to the factory, where it is carefully picked, roasted and ground; the grease is then extracted by hydraulic pressure resulting in a powder entirely free from oil and moisture, which completes the manufacture. The product is then put up in parchment papers and in turn enclosed in hermetically sealed tins, which preserve it from deterioration in any climate. It is so highly appreciated at court that it is manufactured under Royal Letters Patent of the King of the Netherlands, by whose special command it is known as the "Royal Dutch Cocoa." The Royal family of Great Britain are constant consumers and prefer it to any other.

Bensdorp's Royal Dutch Cocoa is for sale in Charlottetown by Geo. Carter & Co.

Dec 15, 1890.

CROCKERY.

300 Doz. Cups and Saucers, 250 dozen Plates, 100 dox. Bowls, 100 doz. Tumblers and Goblets, 600 Butter, Cream, and Preserve Crocks, 400 Water Jugs, Dinner Sets, Tea Sets, Chamber Sets, Glass Water Sets, Table Sets, 500 Bowls, a large number of Milk Pans, Bean Pots, Flower Pots—to be sold cheap, at the Cheapest Crockery Store.

W. P. COLWELL.

Ch'town, May 30, '90.

FOR SALE.

INTENDING to leave the Island I have decided to offer for sale at a bargain

Ten Acres of Land at Nine Mile Creek,

With good Dwelling House and Out Buildings

—ALSO—

1 Good Horse, 2 Waggons, 2 Sleighs, 2 Sets Harness, and 2 good Boats, together with Furniture and other utensils. Address

DANIEL MCEACHERN,
Nine Mile Creek P. O.

Jan. 30, '91—3i wky

Piso's Remedy for Catarrh is the Best, Easiest to Use and Cheapest.

CATARRH

Sold by druggists or sent by mail, 50c. E. T. Haseltine, Warren, Pa., U. S. A.

R. M. H. S.

STANLEY BRIDGE, Dec. 23, 1890.

MRS. ROSS—Dear Madam,

HAVING used your "Magic Healer" Salve for scratches and cuts on Horses, I have no hesitation in saying that it is the best article I have ever tried for the purpose, and would recommend farmers and dealers in horses, to give it a fair trial.

Yours respectfully,
PATRICK WALSH,
Harness Maker.

Jan 23

Some of "Haymaker's"

(Writen for the GUARDIAN and recited at a Social in McLeod's Hall, Charlottetown).

Since the bunting of strife has of late been unfurled
To attract and distract the political world,
We hail this broad platform with special delight,
Where the children of science assemble to-night;
In the spirit of charity nobly agree
To hide their ill-will in a bumper of tea.

Ere this Hall or this Lodge Room, so spacious and grand,
Took its form or its mould from the architect's hand;
Some twenty years past—we remember it well—
The Templars wrought like a magical spell
The lads and the lasses together to bring,
Like the innocent warblers when pairing in spring.

Fair science presiding, her children approved:
She saw with delight that they learned as they loved,
And gave once a week, with benevoleuce kind,
Her laws and her lectures to strengthen the mind;
Providing without the intemperate bowl
For a feast of the reason and flow of the soul.

But far, far away, many members of worth
Are scattered abroad on the face of the earth,
Or roving for pleasure, or seeking for gold,
Whose names on our books are with honor enrolled.
G. M. Grant, J. R. Thompson, Fletcher, Lawson and Rowe,
We will never forget them wherever they go.

For who that remember those men but will say
That their evenings with profit passed swiftly away?
As with keeness of wit, and with argument strong,
They endeavored to sever the right from the wrong,
And to carefully cull, though the critics might laugh,
Every pickle of wheat from the large pile of chaff.

But no earthly delight can eternally last,
And we feel that a gloom o'er our spirits are cast;
For the tear of affection now glistens our eye
As we think that our comrades, like others, must die,
And sincerely regret, on this Hall or Lodge floor,
That McGill, Shaw and Currie must meet us no more!

For the loss of such men every bosom must feel:
They have gone, let us hope, to the land of the leal.
From the right of pre-judgment humanity turns
To bury their faults with the failings of Burns;
For the spirit of Charity best can be shown
By forgetting their errors to think of our own.

As prayers that are short are acknowledged the best,
Our prayer shall be brief, but sincerely expressed:
May the friends of this Institute never despond,
But united more closely in amity's bond:
May Science around them her mantle yet throw,
Shining brighter to cheer them as older they grow.

And now, though the demon of discord may rave,
And wildly may heave the political wave;
That wave shall rebound from this Institute's door;
Hitherto, but no further, its surges may roar.
While in Charity's spirit we nobly agree
To hide our ill-feelings in bumpers of tea!

Note—Professor Grant, Rev. and Hon. J. R. Thompson, Governor J. H. Fletcher, Harry Lawson, Esq, journalist; Manoah Rowe, Esq, late M. P.

HAYMAKER.

Charlottetown, March 2, 1891.

O'Halloran's Pig.

Mr. Henry Flynn, of the Judge staff, was sent to interview Mr. Owen Dennis McManus on the present unhappy division in the camp of the Home Rulers of Ireland. Mr. McManus is High Actuary of the Tipperary League and often gets high in the councils of the party. It was after office hours when our reporter called and found Mr. McManus in his pleasant home on 158th street, and he, was soothing his nervous system with a pipe. He expressed himself as willing to be interviewed. To the question, "What do you advise as to the present unhappy division in the Home Rule party?" he responded:

"Did yez iver hear av O'Halloran's pig?"

We informed him that the legend had never been imparted to us, and he spoke substantially as follows:—

"In Ballydrag in O'Connell's time the counthry was broke up to a degree, an' movable property like hins an' pigs was scathered abroad, an' loible at toimes to be missin' altogither. Wan day a foine black-an-white pig the soize av a baby was runnin' loose in the sthreets, an' the divil's own hullabaloo av byes and gerrils a purshoowin' av it along, an' its bein' a strange pig an' entoicin' in its demeanor for roastin'. Whan the pig was cornered three min wor on top av it an' it a-squalin for loife. Dimpsey, Donnelly, an' Durfee claimed the pig, sich av thim holdin' be wan leg. None av thim wud lave go to foight, d'ye moind! Father Connor kem along, an' they left it to the praste who shud have the pig. He walked all around thim, but cudn't decide; but he told thim to lave the pig wid Tim O'Halloran till the matther cud be umpired bechuxt thim.

"Well, sor, they wint into the law an' it was adjourned *sine qua non* na *ad valorem* wid writs of *certiarari* an' *ad captandum* all troo wan winter, an' in the shpring the judge issued *shabeas corpus* on the three min, an' O'Halloran was ordered into court; an' the first t'ing the judge says, 'Where the divil is the pig anny-way?' An' a lawyer resbponds, 'O'Halloran has the pig.' An' thin the judge looks at O'Halloran, an' he blushes loike anny school-gerril an' sez, sez he, 'Yer honour, it wor a har-rd winter an's I ate the pig.' Bedad! the case was dismissed wid the lawyers to pay the costs, an' O'Halloran wor ahead the vally av the pig.!!

"The moral of this is?" asked the reporter.

"To——wid the quarrelin' leaders, but let Oireland luke out for the pig!" roared McManus.

The interview was over, and on the whole our sympathies are with the pig.—*Judge.*

SANITARY REFORM.

DR. GEO. A. BAYNES.

CAPTAIN LIERNUR'S IMPROVED TOWN DRAINAGE SYSTEM.

The subject of this paper is peculiarly applicable to Charlottetown. Having no system of drainage either in existance or contemplation, I offer it for the consideration of our municipal council as one that can be worked at a profit and is most effectual as a sanitary measure. The poudrette being much more beneficial for the soil of the farms than muscle mud and equal to phosphates, it can be sold as a low price just to cover running expenses or at a profit, if such could be worked by a joint stock company. In treating of Liernur's improved town drainage system, Dr. Egeling, the senior medical inspector of Holland, says:—

"For the English reader this system has a double interest, it embodies the principles which have been demonstrated in every report on the sewerage question—for the last dozen years at least—to be the only ones upon which a satisfactory solution is attainable. All culminate in this one leading thought, that the plan of removing all kinds and degrees of refuse by only one channel leads to the same perplexities and difficulties as treating persons, merchandise and cattle as only one kind of freight, and transporting them in only one class of railway car would do, and that is far cheaper, in view of the ill effects resulting therefrom, to employ a different form of carriage for each variety."

Starting from this leading principle, Captain Liernur divides the work to be done in four different classes: 1. The sewers proper are made absolutely impermeable and devoted exclusively to filtered house, kitchen, and rain water. 2. The drainage of the soil is effected by porous pipes, regulating the ground water. They lie at a higher level than the sewers proper and drain into them. Of course in towns that are sewered already, he makes the use of existing sewers and does not lay these subsoil drains. 3. Refuse liquors of trades and manufactures are only admitted into the sewors after being purified by their producers. 4. The fecal matter—chamberslops and sink sediment included—is removed by a separate system of pipes altogether, the peculiar feature of which is, that in order to avoid as much as possible the delution which makes transport, utilization, and disinfection next to impossible, air pressure is used instead of water to remove the excreta out of the closet pipes.

The causes of river pollution are:—

1st. Excrement (solids and fluids), chamber slops, and the refuse of kitchen sinks.

2nd. Manufacturing refuse.

3rd. Street dirt.

4th. The dirt contained in house water.

All of these Captain Liernur keeps out of the sewers, and consequently out of the stream. His mode of doing so will be briefly described in turn.

First, as to the excrement (solids and fluids), chamber slops, and the fatty and sedimentary products of kitchen sinks. These are never allowed to enter the sewer, but are collected by a separate pneumatic system of cast iron piping, nowhere exceeding five inches in diameter. Briefly this may be described as follows. The town is divided into drainage complexes of from 20 to 50 acres, according to circumstances. Each house is provided with a Liernur improved water saving closet, or a Liernur closet without water; and these are connected by branch pipes through a main or street pipe by an iron tank placed under the pavement somewhere about the centre of the drainage complex. Into this tank all the closet pipes are emptied every day by pneumatic pressure, and then the contents of the tank and of others similar to it, are in their turn emptied in the same manner, but through separate and independent pipes to a central reservoir, serving perhaps for ten or twenty tanks, of 250 to 500 acres, also according to circumstances. The motive power for all the operations is obtained by a stationary air-pipe at the central reservoir. Every large town may thus be divided into several districts, each independent the one of the other, and severed by a separate engine. The contents of these reservoirs are by a continuous process and without any exposure to the air, converted by evaporation in vacuo into a dry powder which contains all the manurial elements to be found in the substance collected by the system. The drying process is affected without using additional fuel, the waste steam of the high pressure engine, of the caloric unities, in which only eight per cent at the outside are converted into power, being found quite sufficient for the purpose. The principle is the same as that used in reducing liquor beet-root sugar. The sedimentary matters of house and sink water, I may mention, are separated from the water flowing off to the sewer by a very simple and ingenious apparatus.

My time is too short to give minute discriptions in a sketch such as this. Suffice it to say that the closet without water is more inoffensive to eye and nose than any water-closet at present in use, that no intrusion into houses is required, that there is nothing moveable in the whole network of pipes to get out of order, and that from the moment matter is deposited in a closet till after it is conveyed into *poudrette*, there is no possibility that either the air or the soil can be contaminated. Also that any virus or germ of disease contained in excrement is rendered innocuous by heat, the only known agency which will effectually do so.

Further let me say that in towns of average density of population this resulting manure is in a concentrated form, and so valuable (10 s. per head per annum) as not only to cover the working expenses, but provide for interest on and redemption of the capital invested, and to yield a handsome balance over and above.

Secondly, as to the manufacturing refuse and waste water. The solution of the pollution problem is simply an impossibility as long as manufacturers are allowed to pour their refuse into sewers or streams. It is comparitively easy to clean such water separately, when perfectly fresh, and with its volume and constituents know, or easily ascertainable, but it is impossible to do so when mixed all together in the sewers with the other refuse of a town. Captain Liernur lays it down as an imperative rule that such cleaning must be done separately, and that each manufacturer must be made responsible for so doing.

POOR COPY