CALENDAR FOR SEPTEMBER, 1893.

Last Quarter, 3rd day, 5h 23.1 m., a. m, N.
New Moon, 10th day, 2h 52.2m., a. m. N E.
First Quar 17th day, 12h 6.4 m, mid N W.
Full Moon, 25th day, 4h 10.5m., p. m. E.

	Day of Week	Sun rises	Sun sets	High water
		h m	h m	after
1	Friday	5 26	6 34	1 43
2	Saturday	27	32	2 32
3	Sunday	28	30	3 38
4	Monday	30	28	5 8
5	Tuesday	31	26	6 47
6	Wednesday	32	24	8 4
7	Thursday	33	22	9 1
8	Friday	35	20	9 48
9	Saturday	36	18	10 25
10	Sunday	37	15	11 0
11	Monday	38	14	11 28
12	Tuesday	40	12	morn
13	Wednesday	41	10	0 3
14	Thursday	42	8	0 34
15	Friday	43	6	1 0
16	Saturday	45	4	1 42
17	Sunday	46	2	2 35
18	Monday	47	1	3 26
19	Tuesday	47	5 59	4 40
20	Wednesday	50	57	6 2
21	Thursday	51	55	7 19
22	Friday	52	53	8 15
23	Saturday	54	51	9 1
24	Sunday	55	49	9 41
25	Monday	56	47	10 17
26	Tuesday	58	45	10 52
27	Wednesday	59	43	11 27
28	Thursday	6 0	41	aft 5
29	Friday	1	39	0 44
30	Saturday	6 2	5 38	1 31

THE DAILY EXAMINER

THE LEADING DAILY NEWSPAPER OF P. E. ISLAND,

Is issued every afternoon, from the office of THE EXAMINER PUBLISHING COMPANY, in the London House Building, Queen Street.

RATES OF SUBSCRIPTION.
(IN ADVANCE)

ONE YEAR	$4.00
SIX MONTHS	2.00
THREE MONTHS	1.00
ONE MONTH	0.35

Sent post paid to any part of Canada or the United States.

ADVERTISING RATES.

For small advertisements which are ordered for only one or two weeks the charge is 50 cents per inch for the first insertion, and 25 cents for each continuation. Rate cards are furnished on application at the office. Special contract prices at a reduced rate are quoted for advertisements four inches in size or larger, which are to run for three months or longer.

No special notices inserted unless paid for at the rate of 10 cents per line, and under no circumstances will such paid notices appear in the local column.

Special discounts made on all advertisements connected with Church Fairs, Bazaars, Picnics, etc. No notices will be inserted with the same unless the regular rate of 10 cents per line is paid.

That THE EXAMINER is considered by our Merchants and Manufacturers to be the leading newspaper in P. E. Island, and consequently the most valuable advertising medium through which to make their announcements public, is abundantly proved by the fact that in order to accommodate our advertisers we have been compelled to enlarge the paper to its present size.

THE DAILY EXAMINER is for sale by the following agents:—

R. H. Mason, Post Office, Charlottetown.
Harvie & Co. 61 George Street, "
Theo. L. Chappelle, Queen Street, "
J. McIntyre, Malpeque Road, "
C. Paul, Lower Spring Park Road, "
W. M. Coffin, Grafton Street, "
D. Chappell, Prince Street, "
Bazaar Store, Queen Street, "
S. Gray, News Stall, P. E. I. Railway, and on the trains.
M. & T. J. Walsh, Eclectic Bookstore, Summerside.
Harry McFarlane, Souris.
Hon. D. Gordon, Georgetown.
D. A. Egan, Mt. Stewart.
G. M. Clarke, Alberton.

The Weekly Examiner

Is issued every Friday morning from the publishers' office. It is made up of matter which has appeared in the Daily editions, and is a first-class weekly newspaper—interesting and full of the latest news.

The subscription for THE WEEKLY EXAMINER, post paid to any part of Canada or the United States, is one dollar per year.

Advertising rates on the same scale as given bove for THE DAILY EXAMINER.

Prosthetic Dentistry.

I am prepared to mount Artificial Teeth on the different kinds of plates:—Aluminum, Watt's Metal, Reese's Metal, (these metals will not oxidize or turn black in the mouth). Vulcanite, Celluloid and Zylonite.
DR. J. P. MURRAY, Dentist.
Stamper Block, Victoria Row.

DOCTOR DORSEY,

Physician and Surgeon.

Graduate of the Medical Department of the University of the City of New York, late Member of the Resident Staff of Bellevue Hospital and the New York Lying-in Hospital, New York City.

OFFICE: North Side Queen Square
OPPOSITE POST OFFICE
Residence—Near Corner of King and Queen Streets, Charlottetown.

Robt. Balloch & Co.,

TEA MERCHANTS,
MINCING LANE----------LONDON
REPRESENTED IN CANADA BY
J. A. MORRISON, HALIFAX

A. LEOFRED,

(Graduate of Laval and McGill)
MINING ENGINEER.
MAIN OFFICE ..... QUEBEC
BRANCH OFFICE ..... MONTREAL

STAMPS WANTED.

OLD Canadian, United States' and other stamps, as used 25 to 40 years ago. For many I pay $1 to $5 each.
GEORGE LOWE,
346 Spadina Avenue, Toronto,

ROBERT BEAIRSTO

COMMISSION MERCHANT AND AUCTIONEER.
GOOD REFERENCES.
Salesroom: Queen Street, Charlottetown

WINES! WINES!

FINEST QUALITY.

Port, Sherry, Claret, Champagne, &c.

THESE WINES have been imported from first-class European houses, and are pure, reliable and well matured.

BYRNE BROS.,
Great George Street.

Serate Read. ROOM

THE DAILY EXAMINER.

TERMS: Four Dollars a Year. "This is true Liberty, when Free Born Men, having to advise the Public, may speak free."—Euripides. Single Copies Two Cents

NEW SERIES. CHARLOTTETOWN P. E. ISLAND, THURSDAY, SEPTEMBER 21, 1893. VOL 32.—NO. 74

LOCAL TIME TABLES.

P. E. I. RAILWAY.

TRAINS FOR THE WEST.

Express leaves Charlottetown....7.00 a. m.
Accom. do do.....3.40 p. m.

TRAINS FROM THE WEST.

TRAINS FROM THE WEST.

Express arrives at Charlottetown.7.20 p. m.
Accom. do do.....10.40 a. m.

CAPE TRAVERSE BRANCH.

Train leaves Emerald Junction....6.15 p. m.
Train leaves Cape Traverse.....7.25 a. m.

Train arrives Emerald Junction..8.15 a. m.
Train arrives Cape Traverse.....7.05 p. m.

TRAINS FOR THE EAST.

Express leaves Charlottetown.....4 p. m.
Accom. do do.....7.30 a. m.

TRAINS FROM THE EAST.

Express arrives Charlottetown..10.20 a. m.
Accom. do do.....6.35 p. m.

STEAMSHIPS.

STEAMERS CARROLL AND WORCESTER.

Leave Boston for Charlottetown, Saturday, 10 a. m.

Leave Charlottetown for Boston, Thursday, 6 p. m.

STEAMER FASTNET.

Leaves Halifax, N. S., for Charlottetown, every Monday, 6 p. m.

Arrives Charlottetown from Halifax, about 6 a. m., Wednesday.

Leaves Charlottetown for Summerside, about 10 a. m. Wednesday.

Arrives Charlottetown from Summerside, about 4. a. m. Thursday.

Leaves Charlottetown for Halifax, N. S., 4 p. m., Thursday.

STEAMER ST. LAWRENCE.

Leaves Charlottetown for Pictou, N. S., 6 a. m.

Arrives from Pictou, N. S., about 6 p. m.

SOUTHPORT AND WEST RIVER.

Steamer leaves Charlottetown for Southport, 6 a. m., and runs every half hour until 10.30 p. m.

Leaves Southport for Charlottetown, 6.15 a. m., and runs every half hour.

Monday—Steamer leaves Charlottetown for Rocky Point at 2 p. m. and 4 p. m.

Tuesday—Leaves Charlottetown for Rocky Point at 9.30, a. m., 12 a. m., and 2 p. m.

Thursday same as Saturday.

Friday—Leaves Charlottetown for Rocky Point, 9.30 a. m., 12 a. m., and 2 p. m.

Saturday—Leaves Charlottetown for Rocky Point, 8.30 a. m., 9.30 a. m., 2 p. m., and 4 p. m.

Sunday—Leaves Charlottetown for Rocky Point, 9 a. m., 12 a. m., 1 p. m., and 2 p. m.

Monday—Leaves Charlottetown for West River, 4 p. m.

Tuesday and Friday—Leaves Charlottetown for New Bridge, calling at Rocky Point and Westville at 4 p. m.

ROCKY POINT SAIL BOAT.

Monday and Thursday—Leaves Charlottetown for Rocky Point, 9 a. m., 11 a. m. 2 p. m., 4 p. m. and 6 p. m.

Tuesday, Wednesday, Friday and Saturday—11 a. m., 3 and 6 p. m.

Sunday—Leaves Charlottetown for Rocky Point, 4.30 p. m.

STEAMER JACQUES CARTIER.

Tuesday—Leaves Charlottetown for Orwell 4 a. m., and 3 p. m.

Wednesday — Leaves Charlottetown for Orwell, 3 p. m.

Thursday—Leaves Charlottetown for Orwell, 3 p. m.

Arrives from Orwell — Tuesday and Wednesday, 10 a. m.

Arrives from Orwell—Thursday, 8 p. m.

Friday—Leaves for East River, 4 a. m., and 3 p. m.

Arrives from East River, 9 a. m. and 7.30 p. m.

Saturday—Leaves for Crapaud, 3 a. m., 3 p. m.

Arrives from Crapaud, 10 a. m., and 9.30 p. m.

Calls at Vernon River every alternate Wednesday, beginning 24th May.

Leaves for Mount Stewart every alternate Friday, beginning 26th May.

STEAMER ELECTRA.

Leaves Charlottetown for Murray Harbor, Georgetown and Montague, every Thursday at 12 a. m.

Arrives at Charlottetown from Murray Harbor, Wednesday evening.

P. E. I. RAILWAY.

Until Further Notice the trains of this Railway will run daily (Sundays excepted) as follows:—

Trains will leave Charlottetown:

Express for Summerside and Tignish..6 00 a m
Accommodation for Mount Stewart, Georgetown and Souris.....8 30 "
Accommodation for Summerside.....2 40 p m
Express for Mount Stewart, Georgetown and Souris.....5 00 "

Passengers for the West can leave Charlottetown at 6 a. m., arriving at Summerside at 8.15 and Tignish at 11.55 a. m., returning same day, reaching Summerside at 4.05 and Charlottetown at 6.20 p. m. Expres Trains make close connection at Summerside with Steamer to and from Point du Chene. Passengers going East can leave Charlottetown at 6.30 a. m., arriving at Souris at 10.55, or Georgetown at 10 a. m., returning to Charlottetown same day, arriving at 5.35, p. m.

Trains will arrive at Charlottetown:

Express from Georgetown, Souris and Mount Stewart.....9 20 a m
Accommodation from Summerside..9 40 "
Accommodation from Georgetown, Souris and Mount Stewart.....5 35 p m
Express from Tignish and Summerside.....8 20 "

All Trains are run by Eastern Standard Time.

J. UNSWORTH, Superintendent. Ch'town,
D. POTTINGER, General Manager. Moncton,

EUREKA HOTEL,

WATER STREET.

Free Coach to meet all Trains and Steamboats. Moderate charges. Good table.

C. A. BENOIT, Proprietor.
Ch'town, July 31, 1893—3m m w f

S. R. FOSTER & SON,

Manufacturers of Wire Nails, Steel and Iron cut Nails and Spikes, Tacks, Brads, Shoe Nails, Hungarian Nails, &c.
ST. JOHN, N. B.

MARINE INSURANCE.

British and Foreign Marine of Liverpool.
Reliance Marine of Liverpool.
Nova Scotia Marine of Halifax.

Hulls, Cargoes and Freights insured at lowest rates.

Sterling Certificates, payable in any part of the world, issued on shipments.
FRED. W. HYNDMAN.
Ch'town.

Change of Business!

For nearly fourteen years we have conducted business in this city in the lines of SEEDS and GROCERIES to the satisfaction of our patrons, as is evidenced by the fact that a large proportion of our present customers have dealt with us regularly from the start. For several years past we have foreseen that the development of our Seed business—now the largest in that line in the Maritime Provinces—would eventually make it advisable to give up the sale of Groceries altogether. That time has arrived, and we now RETIRE FROM THE GROCERY BUSINESS, not because of any want of success in that line or want of confidence in our ability to continue to compete for a fair share of patronage, but for the reason that we have plans for the future which, properly carried out, will, apart from the Grocery business, take up all our time and employ all our capital.

We propose to further develop and extend our Seed trade, improve wherever possible the quality of the Seeds we sell, and increase our facilities for conducting that business; to enter more largely into the growing of Seeds for our own trade in such lines as this can be profitably done, and in connection with the Seed business conduct

A COMPLETE BOOK STORE,

in which the sale of Agricultural Literature will be made a specialty.

Our former Store in MONAGHAN'S BRICK BUILDING, on QUEEN STREET, is now being completely refitted and prepared for the proper carrying out of the above named plans. This Store will be open for business as soon as possible, and due notice will be given of the date. In the meantime our office remains where it is at present and we respectfully request prompt payment of all due and overdue accounts.

We have now to cordially tender our sincere thanks to our many friends and customers in both the city and country for their liberal patronage, and beg to inform them that we have sold out our STOCK OF GROCERIES and the good will of our Grocery business to MESSRS. BEER & GOFF of this city, and we bespeak for them the patronage of our customers in the Grocery line, and we feel confident that MESSRS. BEER & GOFF will endeavor to please all our old customers by giving them GOOD GROCERIES AT LOW PRICES and prompt attention, such as we have ever tried to do.

GEO. CARTER & CO.

Referring to the above, we shall make every effort to give Messrs. Geo. Carter & Co's. former Grocery customers, who may favor us with their patronage, the attention and satisfaction which we are sure they have received in the past, and thus prove that we merited their confidence in recommending their customers to deal with us.

BEER & GOFF.

Charlottetown, August 31, 1893.

CARD!

(x)

We take this opportunity of thanking our numerous friends and customers in Town and Country for the generous support extended to us during the last twenty-five years, and of asking for the continuance of their favors. We have sold our entire stock of Groceries, but not our business, to the McKay Woolen Co., and transferred our lease to them. We therefore beg to announce that we have rented the new and commodious Brick Store of Messrs. Dodd & Rogers, Queen Street, one door north of the Old Stand, which will be fitted up in first-class style, and where, in the course of a few weeks, we will offer for sale at lowest possible prices a new and varied stock of GROCERIES second to none in the Provinces.

J. D. MACLEOD & CO.

N. B.—We will be found, until our New Store is ready, in WHITE'S BUILDING, occupied by W. B. Robertson, Esq., two doors north of the Old Stand.

J. D. M. & CO.

Charlottetown, Sept. 15, 1893—ly 1w then eod & wky

FIRST-CLASS SILVER & GOLD WATCHES AND OTHER GOODS.

E. W. TAYLOR,

CAMERON BLOCK.

Charlottetown, September 14, 1893.

PRICES:
CHRISTY PATENT BREAD KNIFE..... 45 CENTS
CHRISTY PATENT CARVING KNIFE..... 45 "
CHRISTY PATENT PARING KNIFE..... 15 "
Or the Set of Three for..... 90 "

DODD & ROGERS.

Charlottetown, September 6, 1893—tu th sar

Branch Confectionery.

(x)

I have opened a BRANCH CONFECTIONERY in the Store in the Stamper Block recently occupied by Mr. Theo. L. Chappelle of the Diamond Bookstore, where I will keep everything usually found in a first-class Confectionery. I am fitting up a new and improved Soda Fountain, which I will have in operation in a few days. I will keep only the best Fruits and the purest Confectionery.

W. A. HUTCHESON, Confectioner,
STAMPER BLOCK, VICTORIA ROW.

june 27—eod.

"PRICELESS VALUE."

Kickapoo Indian Sagwa Again Proves a Blessing.

A Devoted Wife Worn Out and Breaking Down from Anxiety and Overwork, is Saved, Strengthened and Cured by This Noble Remedy of the Red Men.

The following unsolicited letter is from the wife of John C. Harrington of Brockton, Mass. Her husband was cured of dropsy by Kickapoo Indian Sagwa after *Seven Physicians had Given him Up to Die and his Friends had been Summoned to his Dying Bedside.*

It was then he heard of Kickapoo Indian Sagwa, and took it. The case was hopeless to all!

Kickapoo Indian Sagwa proved a Greater Remedy than All these Doctors Knew of.

It Saved his Life and in a Few Short Weeks he Was a Well Man, and his cure was wrought by Kickapoo Indian Sagwa *only*, the Greatest Discovery the Medical World has ever Known.

The story of his cure has been published far and wide. Now his wife, Mrs. Nettie Harrington, writes as follows in regard to what Sagwa has done for her: "Its value is priceless," she says. Here is her letter in full:

Mrs. Nettie M. Harrington.

"I cannot say too much for Kickapoo Indian Sagwa and what it has done for me and my husband. In caring for him during his long illness I got all run down and became a great sufferer from biliousness, constipation, and finally NERVOUS PROSTRATION. Having seen the effects of Sagwa upon my husband I began taking it and the result was marvellous. I had not taken the whole of one bottle before I began to feel like a new woman. I have now taken three bottles and am entirely cured. Am as well as ever I was in my life."

NETTIE M. HARRINGTON.
25 Court Ave., Brockton, Mass.

Such testimony speaks volumes for the virtues of Kickapoo Indian Sagwa.

It proves that, after all, roots, barks and herbs of good old Mother Nature will heal the sick and suffering far easier, safer and better than all the mineral medicines extant.

The Indian, by his life and training, better understands how to use nature's remedies than any living botanist or physician.

"White Buffalo," a Kickapoo Chief.

Kickapoo Indian Sagwa, *made by the Indians from roots, barks and herbs of their own gathering and curing is obtainable of any druggist at one dollar per bottle; six bottles for five dollars.*

It Will CURE All Diseases of the Stomach, Liver and Kidneys, Dyspepsia, Catarrh of the Stomach, Torpid Liver, Congestion of the Liver (Pains in the Back and Sides), Inflammation of the Liver or Kidneys; and Overcomes All Forms of Weakness.

REMEMBER

is the latest triumph in pharmacy for the cure of all the symptoms indicating KIDNEY AND LIVER Complaint. If you are troubled with Costiveness, Dizziness, Sour Stomach

MEMBRAY'S KIDNEY AND LIVER CURE

Headache Indigestion, Poor Appetite, Tired Feeling, Neuralgic Pains, Sleepless Nights, Melancholy Feeling, Back Ache, Membray's Kidney and Liver Cure will give immediate relief and Effect a Cure Sold at all Drug Stores.

Membray Medicine Company of Peterborough, (Limited),
PETERBOROUGH, . . ONT

NERVOUS MEN!

EXHAUSTED VITALITY.

The errors of Youth, Premature Decline, Lost Manhood, and all Diseases and Weaknesses of Man, from whatever cause, permanently and privately cured at home. Expert Treatment. No Failure. Consultation and advice in person or by letter free.

Address or call on PROVIDENT MEDICAL INSTITUTE, 16 Hanover Street, Montreal, Canada. Prospectus and descriptive pamphlet, closely sealed, mailed free to all. Send now.

IF YOU WANT TO TRAVEL

through life by the rough stages of coughs, colds and consumption, be careless of yourself during the damp, cold weather and DON'T use

Allen's Lung Balsam

for that nasty cough of yours. But if you'd like to live to a green old age in health, and consequently in happiness, use

Allen's Lung Balsam

as a preventive and cure of all Throat and Lung diseases.

—PRICES—

25c, 50c & $1.00 Per Bottle.

GIRLS AND CHEMISTRY.

An Important Study for the Housekeeper of the Future.

It is contended even to weariness, that a young girl's first and foremost duty should be to make herself proficient in housekeeping; and yet the study which is the surest stepping-stone to this estimable object is inconsiderately forgotten in most cases. It is chemistry—the science which tells what things are made of, and how their elements combine with others to produce certain fixed results. In cooking, canning and preserving fruits; warming, drying and renovating garments; home decorating, gardening and poultry-raising, not to mention the treatment of cuts, burns and common family ailments, the housewife stands in constant need of just such practical information as the study of chemistry would give her.

VALUABLE TO THE COOK.

Many people hold the erroneous opinion that good cooks are blessed with their peculiar gifts of nature, and that scientific knowledge would be of no account. They are accustomed to tell with gusto about some aunt who "just throws things together," but whose culinary productions always "take good," and they hold this up as an argument that a knowledge of the materials we deal with is not necessary to the housewife. Yet, if questioned closely, they will always admit that even this famous individual "sometimes has bad luck." That means that her working knowledge, however good it may be, must fail in the face of adverse circumstances, especially such as are of a hidden cause; and then she has nothing to help her out and produce a successful result from her understanding, whether it be in bread-making, corn or any other domestic procedure. Scientific knowledge is necessary for that. So, too, it would be beneficial in other ways. Knowing the chemical composition of flour, meat and potatoes, and the effect of various methods of preparation, a housewife can put her learning to economic uses, and do her cooking on such a basis as to produce palatable dishes with no loss of nutriment and at the least expense. As a matter of fact, an uneducated cook, even though she enjoys the reputation of always "making things taste good," is seldom a saving cook; not because she intends to be wasteful, but because she has not the scientific knowledge regarding food materials and their management, which would enable her to be saving. On the other hand, an intelligent cook has a scientific reason for every direction and every process. She is able not only to produce the most appetizing results, but to do so with the greatest economy of time, labor and money.

AVOIDING FRAUDS.

The same is true in other departments which come under the care of the housewife. A knowledge of chemistry and the ability to make a few simple tests would enable her to avoid the use of a great many frauds, useless and injurious articles—for example, washing compounds that are utterly worthless, or that will rot the clothes; toilet powders, containing bismuth or arsenic, for her own complexion or for use in the nursery; expensive baking powders that contain alum or something worse; a wonderful furniture polish at 50 cents a pint, that costs about 15 cents a gallon; poisonous hair dyes; dangerous ointments, quack medicines, warranted to cure the most severe attack of something in half an hour, etc., etc., ad infinitum.

Therefore, we say, let the girls study chemistry in the school, not merely for the culture and mental discipline to be derived from it, but for its practical, economic value; and not only "let" them do it, but insist that the school directors furnish the opportunity for them to study at least the elements of the subject. While chemistry seems pre-eminently useful for the girls, it is likewise important for boys, especially for such as expect to become farmers or manufacturers. The composition of soils, the qualities of fertilizers, the nutritive strength of grains for feeding, are questions confronting the farmer every day, and which depend upon a knowledge of chemistry for their economical solution. Let us have it in the common schools, not tucked away as a luxury in the last year of the high school course.

BERMUDA'S FUTURE.

Improved Steamship Facilities Possible at an Early Date.

In a recent report of the Colonial Secretary of Bermuda it is stated that preparations are being made to improve the channels leading into Hamilton Harbor. The importance, says the report, for improving the local navigation may be inferred from the circumstances that so soon as the contract for deepening the channels is concluded, the facilities for communication with the United States will be greatly enhanced. Directly this public work is fairly launched, the company whose ships now ply between New York and the Colony have given the Government to understand that they intend to have a steamer built which will be able to perform the voyage between the ports in 45 hours, instead of 70, as at present. One of the results of this accelerated intercommunication will be to considerably increase the popularity of Bermuda as a winter resort. At present the greatest drawback is the time occupied in voyage to and from New York, and the unpleasantness of the passage in comparatively small steamers in the winter months. The present prosperity of the islands, says the same authority, is due to their increasing popularity among the inhabitants of North America.

Those Who Have Lived.

According to a recent writer it is impossible to give any close figures on the number of persons who have lived on this earth. It is generally considered that one person in every thirteen dies each year. At this rate the population would be renewed every thirteen years. Assuming that the population of the world is 1,000,000,000, and that it has been 1,000,000,000 at any time during the last 600 years, we find that the population has been renewed about 461 times; that is, that 462,000,000,000 have lived on this earth since the creation. This, of course, is vastly in excess to the real number, for the world, so far as we can tell, is more thickly populated now than ever before. Probably if we were to cut those figures in two we should still be above the actual number, with a total of 331,000,000,000 persons. There are no figures on which to base an estimate of the population of the world in Christ's time. The census taken up when He was brought up to Jerusalem has not come down to us; if it had, it would have been of great historical and sociological value.—Goldthwaite's Graphical Magazine.

Mr. Henry Theakston, Secretary of the Y. M. C. A., Halifax, says: "I have used Puttner's Emulsion for simple and obstinate cough and general debility. In every case it has given the utmost satisfaction. I recommend it as a family medicine." ...

A Comfort Sometimes.

When health is far gone in Consumption, then sometime only ease and comfort can be secured from the use of Scott's Emulsion. What is much better is to take this medicine in time to save your health. ...

THE FERRIS WHEEL.

Comparative Measurement and Weight of the Giant.

It is not easy for the mind to grasp the stupendous nature of this undertaking. The wheel itself is 250 feet in diameter; at its highest point it is 268 feet above the earth. That is to say, if Bunker Hill monument were used as a yardstick to measure it, the towering monolith would fall short 50 feet. If the wheel were set in Broadway, by the side of Trinity spire, it would lift the passengers of its cars to a level with the apex of that soaring steepie. The obelisk of Luxor or Trajan's pillar, at Rome, would not be long enough to serve for a wheel spoke.

Then, again, as to its enormous weight. The Niagara cantilever, just below the falls was looked upon as an engineering wonder when it was built. Its construction required three years. The Ferris wheel was built in five months, and its weight is four times that of the Niagara bridge. The St. Louis bridge was another wonder, and its weight is almost equal to that of the big wheel complete. The Cincinnati cantilever is another huge bridge; it is 1400 feet, a quarter of a mile long, and it would about balance the scale with Mr. Ferris' big toy. And the one is set immovable, resting on two supports, while the wheel is swung upon axle lifted 140 feet in the air. It has 36 cars, and in these two regiments of soldiery could be seated and swept with an almost imperceptible motion high above the white wonder.

I said: "Precisely what does the great wheel represent in mechanics?"

"Well," Mr. Ferris replied, "I suppose you might consider it as typifying the present progress, the latest development of mechanical engineering. You know there are really two wheels, one built 30 feet within the other. These are joined by truss work, such as is used in our finest bridge construction. Beyond all that, the wheel develops to a degree hitherto never realized the capacities of a tension spoke. You know that the wheel is not only a perfect pinion wheel, but a tension wheel as well, and these, I suppose, may be regarded as its chief points. I do not know whether you have stopped to consider, but it is as perfect a pinion wheel as the little wheel that goes flickering back and forth in your watch. In all that immense diameter there is less deflection proportionately, from a true circle, than from the pin on wheel of the most perfect watch, made. This is due to the fact that it has, instead of stiff spokes, the tension or jointed spokes. When I first proposed to build a tension wheel of this diameter the feat was regarded as impossible. It was held that the spoke rods on the upperside of the wheel at any given moment, instead of sustaining the weight of the upper part of the wheel, would, from their own weight as they hung vertically, pull down that arc of the wheel which they bore upon, and thus cause the wheel to become elliptic. As a matter of fact, they do nothing of the kind. There is absolutely no deflection from the perfect circle.

"Considering some of the mechanical difficulties in the construction of the wheel, you will note that it stands directly east and west; thus the southern side of the wheel receives the entire brunt of the sun's rays, whereas, as the northern side is not only shaded by the southern but by the cars as well, causing a difference in expansion varying from the heat to which it is subjected of from three to six inches. All these little problems had, of course, to be met, for even this slight variation of five or six inches in the total diameter of 250 feet would be sufficient unless properly dealt with to cause a disturbance in the working gear."

"Behind the shell there was an animal and behind the document there was a man," wrote Taine. Behind the big wheel there is a personality more interesting than the mechanism itself. Physically Mr. Ferris has little of the inventor type. The man you meet is a man of affairs, tall, well-proportioned, and well sent out. He greets you easily, his demeanor is quiet, his tones low. For a western man he is rather fastidious in his dress. In him you detect a little of the western angularity, perhaps; for the rest, that bearing of easy confidence and mild cynicism which success always brings. Perhaps his most notable characteristic is a steel blue eye of remarkable depth and clarity. What there is about him a something of that naive, almost boyish candor that is such a striking characteristic of Edison. His conversation is fascinating. In a quiet sentence he opens unexpected vistas, or turns the corner upon an idea so novel that it is startling. As he speaks, in evenly modulated tone, fluently, and often epigrammatically, you feel yourself in the presence of a man surcharged, teeming with ideas."—From Engineer Ferris and His Wheel, September Review of Reviews.

The Passion for Alcohol.

Many curious stories are related of the tricks resorted to by patients in asylums to get hold of grog. One physician said: "I remember a patient that was very troublesome, one that we had in the retreat some years ago. She was going on fairly well, and one day I went up—the matron happened to be not quite alive to the tricks and devices of these women—and I found there had been some misconduct; there evidently had been some liquor got hold of, and I found that some curling tongs had been introduced, and upon this plea they had got some methylated spirit to heat them with, and it turned out that one lady had made a compact with two or three, and they got into their own room, by hook or by crook, and obtained hot water, sugar and lemon juice from one of the maids, and then made grog with these materials together with the spirit. I recollect in 1872, Dr. Anstie said he knew of a case of a patient drinking blacking because there was alcohol in it, rather than not have something alcoholic."—Expert Reports on Alcoholism.

Our Tallest Smoker.

The tallest smokestack in the United States, and perhaps, in the world, designed solely for the purpose of providing a draught for boilers, is at Fall River, Mass. It meets the requirements of the entire steam plant of the four new mills of the Fall River Iron Co. Some idea of its size can be had from the following figures, furnished by the contractor. From the top of the granite foundation to the cap is 350 feet; the diameter of the base is 30 feet, at the top 21 feet; the flue is 11 feet throughout, and the entire structure rests on a solid granite foundation—55 by 30—16 feet deep. In its construction there were used 1,700,000 bricks, 2000 tons of stone, 2000 barrels of mortar, 1000 loads of sand, 1000 barrels of Portland cement and the estimated cost is $40,000.

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