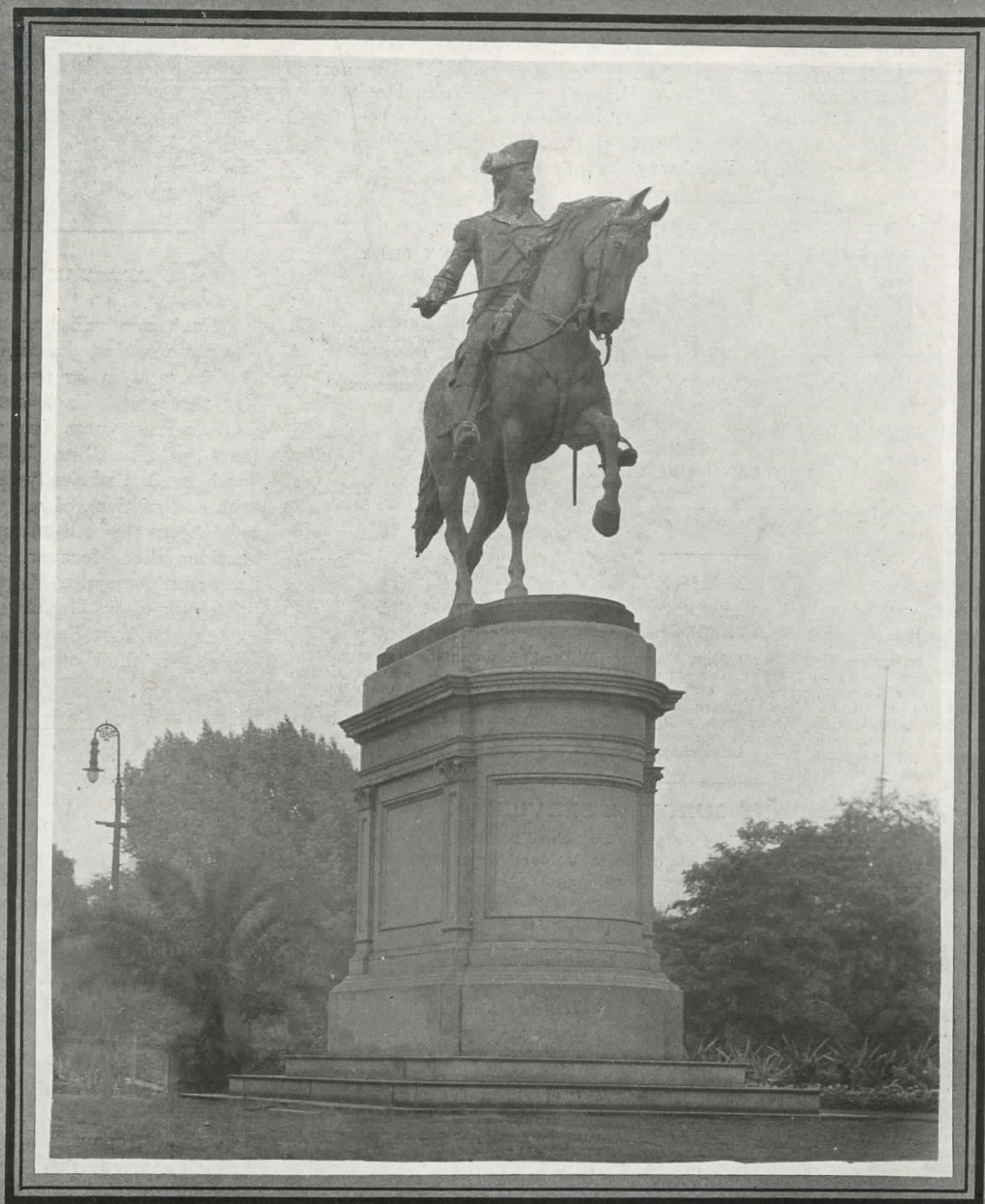




# THE BROWN BULLETIN

PUBLISHED MONTHLY BY THE BROWN BULLETIN PUBLISHING ASSOCIATION  
VOL. VI BERLIN, N. H., FEBRUARY 1, 1925

No. 8



WASHINGTON MONUMENT AT BOSTON



# THE BROWN BULLETIN

Vol. VI.

FEBRUARY, 1925

No. 8

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(Affiliated with Metropolitan Life Insurance Company since 1916)

Miss E. A. Uhlshoeffer, supervising Nurse; Mrs. Margaret Willard, Assistant Supervisor; Miss Dorene Trudion, Miss Violet Brothers, District Nurses; Miss Gertrude Kennedy, Miss Nina Hodgdon, Miss Victoria Pauquette, Industrial Nurses. Office, 22 High Street; telephone 85; office hours, 8-8.30 a. m., and 12.30-1.30 p. m. Calls for a nurse may be sent to above office, to Metropolitan Life Insurance Company office, telephone 283-W, or to any Brown Company time office. Working hours (except for emergencies) 8 a. m., to 6 p. m. A nurse answers all first calls from any source, but may not continue upon a case except a doctor is in charge.

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 H. E. WILKINSON, M. D., Assistant, Office 33 Main Street  
 On call duty: February, June, October, April, August, December  
 NORMAN DRESSER, M. D., Assistant, Office 143 Main Street  
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Keystone

"Each age will have its creeds and its philosophies, despising all that went before, and in its turn to be despised by the next. Each age will have its political panaceas for all human ills; and the ills will not be cured by them, and fresh theories will be twined to the end of time, of sun and moonshine, which equally will not avail. But great actions live forever, and the 'wise remnant' treasure up the memory of them; and in looking reverently at what men have done, gather heart and spirit for their own work."

—Froude.

## ORIGIN OF CROSS-

## WORD PUZZLES

"Undoubtedly the most striking achievement which must be ascribed to the (New York Sunday World) Magazine is the astoundingly popular cross-word puzzle. For years these puzzles have been appearing in The World Magazine, and have quietly, from year to year, attracted their faithful band of addicts. This year, this indoor sport, quite suddenly, became a violent national fad, one of the most widespread of any of the fads which have ever swept the country. The puzzle books which started it all were prepared by the editors of the Magazine's cross-word puzzle page and were, for the most part, made up of puzzles contributed to the Magazine."

—World Almanac, 1925.



# Clear Fused Quartz Made in the Electric Furnace

By EDWARD R. BERRY

THOMSON RESEARCH LABORATORY, GENERAL ELECTRIC COMPANY

(At the forty-fifth meeting of the American Electrochemical Society held at Philadelphia last April, Dr. Berry outlined the development and results of his ten years' work that culminated in the production of clear fused quartz in quantities so appreciable that the material is now available for standards of length, projection lenses, surgeons' cauterization tools, window panes in sun rooms of hospitals, standard tuning forks, etc. The product promises to become of great importance to human welfare. At the December meeting of the Philotechnical Society, Dr. Berry repeated his address, illustrating his talk with a priceless collection of objects made from fused quartz, demonstrating with an oxyacetylene blow pipe the remarkable indestructibility of fused quartz when heated and plunged in water, and showing how curved rods of it permit the focussing of light and heat rays around corners into inaccessible places. We are indebted to the General Electric Review for permission to copy the Philadelphia address and for the use of the blocks.)

## Introduction

IT is the purpose of this article to present some of the recent results of the development of clear fused quartz and to focus attention on some of the surprising properties of this material. The art of making fused quartz dates back to 1839 when Gaudin, in France, discovered the general thermal properties of fused quartz. A number of advances have been made in the art since that date by various investigators; but most of this work has been concerned with the opaque variety of fused quartz usually made from sand. It is only during the past twenty-three years that the development of clear fused quartz has made very rapid progress.

It has been possible for many years to make fused quartz of a high quality in small sections and lengths by hand labor in the ordinary blast flame, using gas and oxygen. This has been done by piecing together small sections of crystal in the flame; or by adding silica powder from time to time until the piece has grown to the heating limit of the flame, an obviously slow and expensive process. From this step in the development of the art to the point where very large masses of equal quality can be made has been a long and difficult one. In the last few years the advances made by the process described in this article have been so rapid and far-reaching that there seems to be no limit now to the size of high-quality clear fused quartz which can be made, except that which may be imposed by mechanical difficulties.

## Method of Fusion

When it is desired to obtain fused quartz of the quality which is illustrated in this article, it is necessary to start with the very highest quality of raw material, of which there is none better than water clear crystals. It is much more difficult to make fused

quartz of this high quality from sand even if its purity exceed 99 per cent. The rock crystal used in this work is water clear and contains probably less than two-tenths of one per cent impurities. The surfaces are often encrusted with iron oxide and other foreign material and the crystal itself can be seen to contain clusters of small bubbles. The crystal is therefore washed in acids, and then broken up and the unsuitable pieces discarded.

There are two distinct steps in the preparation of tubes, rods, ribbons and cane; the most important of which is the initial fusion. The clean quartz crystals, which are of various sizes, are packed as densely as possible in a graphite or carbon crucible so that during the cracking of the crystals, which is bound to occur as the temperature is raised, the parts cannot separate and allow any small amount of gas which may be present to enter the many crevices and thus form bubbles. Those tightly packed crucibles are placed in a modified vacuum furnace and the temperature raised as quickly as possible to the melting point. During this fusion the pressure in the furnace is kept as low as possible. The time required for fusion will vary with the conditions and in all cases no more than 45 minutes is necessary. The energy rate of fusion is from 3 to 8 kilowatt-hours per pound of quartz, and the loss of quartz due to volatilization is negligible compared with other charges. The result of this first fusion is a clear, transparent slug containing comparatively few bubbles ranging in size from a pin point to 2 or 3 mm. in diameter. Whether these bubbles have been formed by a gas or by silica vapor, it must be remembered that they have been formed at a temperature of about 1800 deg. C.; and consequently their pressure at room temperature is very small. This slug is now placed in another graphite crucible which is sus-

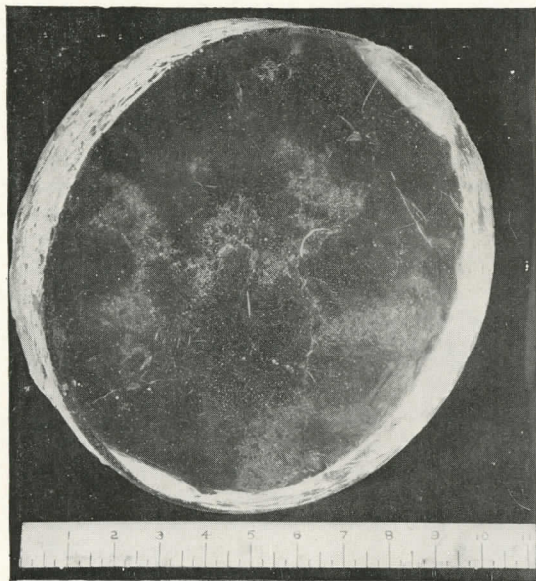
pended in a vertical carbon tube furnace. A graphite piston which just fits the crucible is placed on top of the fused quartz slugs and a weight is placed on top of a plunger attached to the piston. The slugs are again brought to fusion, the bubbles are practically collapsed and by action of the weight the quartz is extruded in the various forms, such as rods, tubes, ribbon, etc. This material is practically free from bubbles, but because of limiting dimensions it may become necessary to rework some of this, which is accomplished by the usual bench methods with an oxygen-illuminating-gas flame.

When it is desired to obtain large blocks as free from bubbles as the tubing, cane, and ribbon, another operation is necessary. As before, the quartz is fused in a vacuum furnace which, however, is also designed to withstand very high pressures. As soon as the material is fused, the vacuum valve is closed and the pressure in the tank is brought up to some value, depending on the object in view, in less than a minute. This pressure collapses the bubbles and makes it possible to obtain very large slugs free from bubbles than many kinds of the best optical glass.

Previous attempts to reduce the bubbles by continued heating above the melting point resulted, after a certain stage, only in excessive loss of silica by volatilization. We have fused quartz at initial pressures of 600 lb. per sq. in., atmospheric pressure, and less than  $\frac{1}{2}$  mm. of pressure. In the first case the mass was practically opaque; at atmospheric pressure it was considerably improved although much inferior to the present quality of quartz; and under vacuum conditions a large mass can be produced, which from the standpoint of number of bubbles is very satisfactory.

Not the least of the difficulties encountered in this development has been





Clear Fused Quartz Disk; 11½ in. Diameter, 22 in. Thick

that in connection with the furnace equipment. The vacuum furnace in particular had to be greatly changed and enlarged with the result that we now have probably the largest vacuum furnace in daily use capable of operating at low pressures. Then, in addition to this the furnace had to be so constructed as to withstand repeatedly on the cover a total pressure of over 1,000,000 lb. (about 600 tons), and of course as the size of the furnace increases these difficulties are multiplied. Special attention must be paid to the design of the resistor unit, to the thermal insulation, to even heat distribution, to the cooling of the terminals, and to the many other factors which presented themselves in the use of these two extremes in pressure.

When the quartz crystals is heated between 500 and 600 deg. C., it undergoes a remarkable physical change, cracking into small pieces sometimes with explosive violence. This is due to the difference of coefficient of expansion along the two axes subjecting the crystal to great strain, and to the decrepitation caused by the presence of water and liquid carbon dioxide held in vast numbers of minute cavities throughout the crystal. The only advantage therefore in using large crystals for fusing lies in the greater ease of keeping the charge free from foreign material before the different particles begin to coalesce.

Hereaus has heated crystal quartz in very small pieces, about the size of a nut, very slowly so that no cracking occurs and, consequently, no bubbles are included in the vitreous pieces.

Herschkowitsch, on the other hand, has arrived at about the same result by accelerating the heating process so that a film of vitreous material is formed on the outside and prevents air from penetrating to the center, even though cracks may develop. As a matter of fact these processes, while interesting, are subject to very sensitive control and are impractical where large masses are to be fused.

To obtain masses quite free from bubbles, it has been found best to raise the temperature rapidly to 1400 or 1500 deg. C. at which point the pieces begin to coalesce. At about

1750 deg. C., the quartz is thoroughly fused though it is still very viscous. In fact, the viscosity is high even though the temperature be well over 2000 deg. C. Vaporization of fused quartz is rapid at 1600 deg. and at 1750 deg. C. the loss due to evaporation is very great. Further increase in temperature results in no great gain in fluidity.

#### Homogeneity of Fused Quartz

The difficulties of obtaining perfectly homogeneous fused quartz free from striae strain, bubbles, and double refraction must be apparent to anyone who has worked on this problem, and discouraging perhaps to those who have tried to buy such material. It is a very little too early to state in what quantities such a product can be produced, but we have manufactured quartz of this quality which contained only two or three bubbles visible to the eye. This quality, however, has not as yet been placed on a commercial basis.

#### Properties and Applications of Clear Fused Quartz

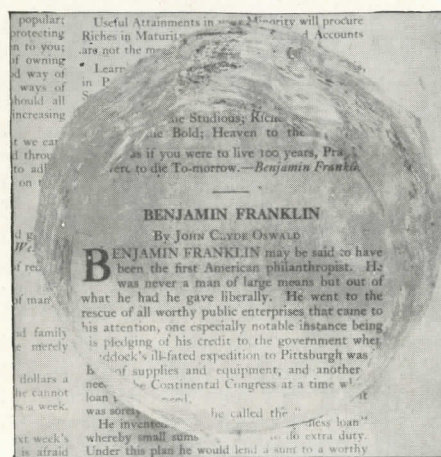
The fact that for a great many purposes clear fused quartz can be used up to 1000 deg. C. without injury; that its coefficient of thermal expansion is so small as to make it almost negligible; and that it will transmit light rays even into the extreme ultra-violet with very little absorption, gives to it a great utility value—not only to the scientist but the manufacturer as well.

The specific gravity of clear fused quartz is 2.21. Its coefficient of thermal expansion is 58 by 10-8 which is about 1-17 that of plati-

num and 1-34 that of copper; so small that a rod of quartz one meter in length will expand only about six-tenths of a millimeter for a 1000 deg. C. rise in temperature. The small probability of fracture under sudden changes in temperature, because of this property, makes it especially desirable for many uses. Furthermore, where it is used as a mirror in reflecting telescopes this very small expansion or contraction with change in temperature causes almost no distortion of the image and, consequently, much greater accuracy is made possible. This property also makes the grinding of a lens or mirror less tedious and costly, as it is not necessary to await the cooling of the shape in order to get the desired curve. It is possible to heat a tube of clear fused quartz, say ⅝ inch in diameter, to the melting point and plunge it into ice cold water without fracturing.

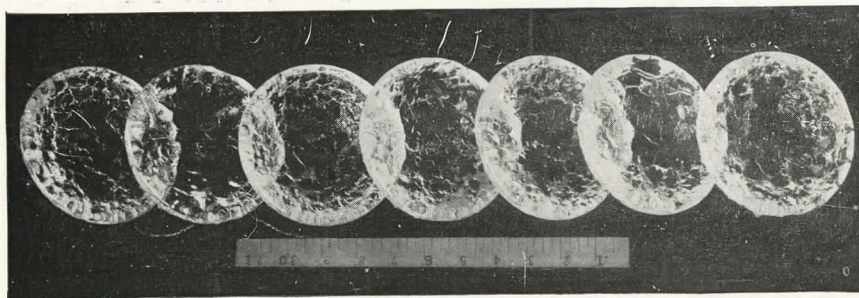
Its index of refraction for the D line is 1.459, and while its dispersion is higher than optical glass it is more constant because of the smaller effects due to temperature changes. If the rays which have entered are nearly parallel to a rod of quartz they are totally reflected internally and on account of this can pass around curves, unless too sharp. This property, coupled with a very small absorption loss, makes it possible to transmit light through very great lengths of curved rod or tubing with very little loss. A rod of this fused quartz one meter long will emit at one end about 93 per cent of the total visible light passed into the other end. For the better grade of optical glass the highest percentage transmitted under the same conditions is not more than 65 per cent.

The ordinary run of quartz made by



Clear Fused Quartz Slug; 3 in. Diameter, 9 in. Long





Seven Clear Fused Quartz Condensing Lens Blanks; 4½ inches Diameter

this process and used in the fabrication of quartz mercury-arc lamps will transmit light wave-lengths as low as the 1850 Å line in the ultra-violet. From the opposite end of the spectrum the heat rays also are transmitted with little loss. For example, if one end of a fused quartz rod 12 in. long is heated to incandescence, it will be found very uncomfortable to hold the finger over the other end, although one may comfortably grasp the rod a few inches from the heated zone.

Clear fused quartz is the only known material which can be obtained in quantity and which is transparent to ultra-violet rays. The medical profession is consequently utilizing this material more and more in its application of ultra-violet light for therapeutic purposes.

By the process here described it is now possible to make tubes, rod, ribbon, and cane in lengths of 30 ft. and in shorter lengths of diameters up to eight inches. Blocks have been made up to 11½ inches in diameter and 6 inches thick having comparatively few bubbles, and these widely separated, comparable in general appearance to the best

quality of optical glass. Such material is suitable for prisms, lenses, and for use in instruments where the visible ray is an important factor.

Constant progress in this development is being made and it is hoped that perfect homogeneity can be made the rule rather than the exception. It is expected that for most optical work this quality of the present material will be entirely satisfactory.

#### Projection Lenses

Fused quartz lenses of 4½ in. diameter have been for several months very successfully operated on test in motion-picture projection machines, using currents as high as 150 amp. and where glass lenses cracked almost daily.

#### Thermometers

It is well known that in the ordinary glass thermometers there is an appreciable lag in the glass, so that successive readings in a descending scale are inaccurate. To test the extent of this we have placed a standard glass thermometer and a quartz thermometer of our own construction in the same bath and raised the temperature to

515 deg. C. and then lowered it again to 0 deg. C. In this particular case the mercury in the glass came back to four divisions below the zero mark, whereas the mercury in the quartz returned exactly to its original calibrated mark at zero. While the capillary in the quartz tubing is not exactly uniform throughout its entire length, it is so uniform that a calibration of the tube over its whole length would eliminate any inaccuracies due to the slight non-uniformity.

#### Tuning Forks

As a standard of pitch the tuning fork is about the only appliance in use. Temperature changes affect the pitch of the hardened steel fork, however, and what is more important, the work which has to be done in adjusting these steel forks to the desired pitch by grinding them or otherwise working them results in changes in elasticity and dimensions that cause a disturbance of the pitch note. A tuning fork of quartz is not subject to these changes to any appreciable degree.

This work has all been carried on in the Research Laboratory of the General Electricity Company at Lynn, and in presenting this description the author wishes to express his appreciation of the efforts of Mr. L. B. Miller and Mr. P. K. Devers who, in a large measure, were responsible for the good results obtained.

#### LIST OF PROMOTIONS

##### SULPHITE MILL

Joseph Frank Dupuis from oiler to foreman "A."

Ludger Roy from laborer to pan man.

James Webb promoted in the pipers' crew.

##### CASCADE MILL

Antonio Huot from laborer to drum man.

Arthur Leblanc from helper to re-winder man.

Francesco Mattachione from 2nd helper to rewinder man.

George Myers from wood cleaner to knife changer.

Wm. F. Nickerson from knife changer to splitter man.

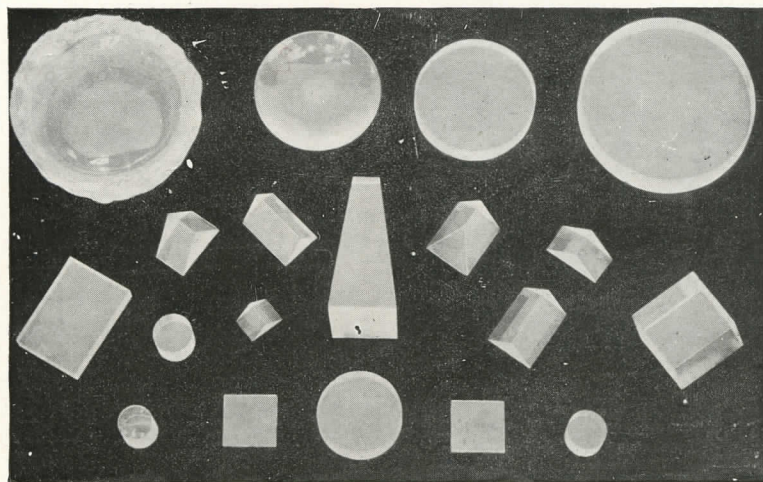
Herbert Roy from rewinder helper to core cutter helper.

Rube Smith from laborer to laboratory assistant.

Odina Vien from wood cleaner to chipper.

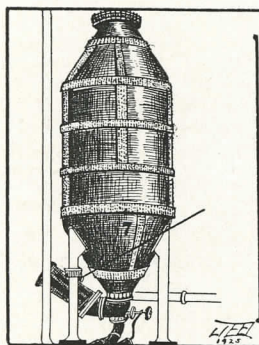
##### RIVERSIDE MILL

Ovilla Bisson from 3rd hand to back tender.



Lenses, Prisms, Cubes, etc., of Clear Fused Quartz





# NIBROC NEWS



As there are many who belong to the Fish and Game Association at Gorham in the employ of the company, it will not be amiss to state that the annual banquet will be held Feb. 12th, at the Municipal building, followed by the usual pictures and speeches by out-of-town men. This is always well worth attending. So sign up and make the evening a success, as well as enjoyable to yourself. The membership is not restricted to Gorham residents. "Old Man" Hull ought to appreciate the aims and ideals of this club.

Our old friend Spike is getting his "terbacky" in Concord now. It was quite interesting to read in the Boston Globe that an old resident of Concord who has attended the opening of every legislature since 1888, says that the legislature of 1925 went into action as smoothly as he ever saw it. What with our Spike and Patrick Henry — and also the ladies (Spike's wife please notice I mean the lady representatives) why shouldn't it go smoothly?

Mr. Johnson of the upper plants was assisting the engineering department for a short period this month.

By the way, have you seen Artie's new desk. First, he gets his picture in the Bulletin and now his name is put in on the following month's issue. Popular, well, I'll say. A bottle of furniture polish, please.

Ike Morse had better get acquainted with the employees before he goes to talking about the residence of certain employees. A town with nine letters is not to be confused with a city of only six letters. Mr. Holmes would like to introduce you, Mr. Morse, around the mill.

Much interest has been shown in the cross-word contest, and this sort of interest would be welcomed each and every month. If the Bulletin pleases you help us to maintain the interest that the editor and assistants are trying so hard to keep up for each and

every employee, and if it doesn't please you, suggestions as to improving the sheet and as to its mission are quite in order and would be welcomed by the entire staff. It's the majority that counts, and we are aiming to help the family spirit of the Brown Company. Why not come across with that little bit of news? We'll appreciate it greatly.

We extend congratulations to Mr. and Mrs. Rasch of the research laboratory.

Ike Webber got a box of cross-word puzzles for Xmas.

Chas. Hayden, better known as Doc, of Horsham, Sussex, England, sends his best wishes to all his Brown Company friends.

Chas. Provencher was stricken with an attack of indigestion at the mill and was removed to the St. Louis hospital, but at this time is able to be around.

Chas. Duffy of the pipers department was ill for a few days, but is back on the job again.

John Kennedy, a recent arrival to our organization, is recovering satisfactorily at this time from an injury to his hand on Dec. 7th. He was cut by one of the bands around the sulphite bundles, and it proved more serious than he thought at first. It pays to take the best of care of these small things. That's what the nurse is for.

If we had more supporters of athletics like our little "Slicky" Guay of the pipe shop, then we would have some teams representing Berlin. Eddie is an ardent baseball fan, but at the same time is always ready to support other sports. All hail to Eddie.

Must have been heard across the



One of the First Crews of the Machine Room



dinner table.

Phil Cote walking down Main street in Gorham, and meeting the little Hooper girl, "Gladys, where is your dad?" Little Gladys replied "You and Dad go up to Berlin too much."

One of our congenial head firemen in the boiler house received what he thought was a present for Christmas from a friend in the filter house. Thinking it was a cigar wrapped up, he put it in his coat pocket. After supper when he was settled in his easy chair, he thought he would enjoy a smoke, but upon opening the package he had received, he found a little fish about three inches long, commonly known as a "sucker."

We never knew that our friend Everett "Echo" Alvin Bird, and numerous other titles, was at one time a great sprinter, wearing the colors of Litchfield Academy. But all great men are found out sooner or later. The way Echo gave himself away was like this. The instrument room at the Cascade boiler house is situated about one hundred yards from the "mystery room." Bird was busily engaged at his daily tasks in the instrument room,

when all of a sudden he beats out of the door and lands at the "mystery room" in 9 $\frac{3}{4}$  seconds. No wonder his old alma mater is proud of him.

#### BROWN COMPANY RELIEF ASSOCIATION

Orders drawn on the treasurer for the month of December, 1924, were as follows:

Clement J. Gendron.....	\$ 68.00
Victor Dutil.....	64.80
Earle Clinch.....	61.60
Peter Noonan.....	13.80
Nils Ronnong.....	50.00
Joseph E. Gogan.....	28.20
Charles Fontaine.....	31.25
Oscar E. Loven.....	61.60
Jos. Loranger.....	27.20
Jos. Lauze.....	23.40
Aurel Napert.....	64.00
Emile Erickson.....	43.50
Geo. Collins.....	29.16
Emmett Sloan.....	48.00
Ernest Perron.....	41.66
Juliette Boucher.....	20.75
Walter Pike.....	25.32
Louis Croteau.....	35.10
Valentino Adderio.....	30.00
Archie Landry.....	12.00
Josephine McLaughlin.....	56.25
Archie Perkins.....	250.80

Louis Glidden.....	22.00
Gardner Hanson.....	16.20
Frank O'Hara.....	60.00
Willie Blais.....	24.00
Dennis Kilbride.....	48.00
Lee W. Welch.....	16.66
James Corbett.....	37.50
Albert North.....	25.40
Joseph Bilodeau.....	12.70
Thos. Tremain.....	82.02
John Lapoint.....	36.00
Chas. Given.....	55.67
Daniel Fiendel.....	41.60
Joel P. Emery.....	12.00
Ralph Calback.....	10.00
Arthur Doherty.....	52.09
Maurice Landers.....	55.60
Sylvio Bergeron.....	62.50
Earl Henderson.....	21.15
Wm. Cameron.....	18.00
Jos. Frenet.....	50.00
John Bernier.....	20.00
Alphonse Carbineau.....	144.00
P. J. Laflamme.....	25.00
Percy Boyd.....	16.00
John Bilodeau.....	25.40
Albert Jacques.....	8.33
F. W. McKenny.....	54.00
Wm. J. Murphy.....	12.00
Walter McKenna.....	24.00
Louis Mortenson.....	48.00
Total .....	\$2,222.21

## CHEMICAL MILL EXPLOSIONS

We missed Fred Roberge for two days, but he came back with a broad smile on his face, being the proud father of a boy. Good wishes to mother and son.

We are glad to hear that Sam Morris is convalescent now, after his illness and operation in Boston. He expects to be home by this issue.

You probably did not know him, but it was Rube all right. Quite a change from a broad Stetson.

Noel Lambert of the boiler room, Hadley Parker's right hand man, has entered the radio field. We hope he is successful with his first set.

Adelard and William Rivard spent the New Year holidays at Grand Mere. They report a good time.

Radio fans of the chemical mill: "Soupbone" Manton, "Screwdriver"

Dion, "Scotchwhiskey" Reid, "Squeaky" Santa, "Scotch Thistle" Reid, "Sauer Kraut" Laffin, "Smiling" Ramsey, "Sleepy" Lambert, "Stenographer" Griffin.

John Becotte and his pal, Routhier, have worked so long on the salt during their working period in the yard, that they now have pickled feet, (not pig's feet).

Much sympathy is felt for our friend, George Hopkins, who underwent an operation for appendicitis. We all wish for a speedy recovery.

Reuben McCutcheon is complaining of neuritis in his head. Most men have brains in their heads.

Hadley Parker is seriously thinking of buying a moving van to cut down the expense of moving.

"Matt," the painter, is not attending

social dances this year. He is too busy working out cross-word puzzles.

The severe cold weather is not over yet because John Reid has bought a new oversize overcoat or mackinaw.

Signs are out for another election within a short time because John Labrie is often seen around City Hall.

"Doc" Merrigan has been complaining lately about pains and aches in his back. He has tried a new remedy called "The Red Pepper Rub," but we think that what he needs is "The East Side Liniment."

The egg trust of Berlin, Geo. Gale, is worrying about his income tax return. He expects to pay at least \$400.

Hugh Smith of the piping crew is leading a new style for men, rainbow packing for armlets.



## SULPHITE MILL GAS

Eli Bilodeau, while breaking down wood on the log pond pile, had a very narrow escape from serious if not fatal injury. While he was standing on the pile about seven or eight feet from the edge, the pile suddenly broke down from the top and Eli went with it. Fortunately no blocks fell off the pile after he started on his slide. As it was he ended his fall, up to his waist in water and blocks of wood about him. Eli suffered no injury from his 100-ft. slide. He was on the job the next day.

Our paymaster, Mr. Sullivan, enjoyed a week's vacation in Boston the first of the year. He reports a good time. His recommendation was good enough to persuade Jimmy McGivney to go to New York for a week.

The thermometer has run pretty low these cold mornings. We understand it is considerably colder in Gorham than in Berlin. "Windy" Newell has moved to Berlin for the winter on that account. Some of the other Gorham commuters stay in Berlin over night once in a while.

A mouse trap has been purchased for the graphic department, as it is out of the question to have a mouse in that department. We figure it is cheaper to buy mouse traps than step ladders or to varnish tops of desks.

NOTICE:—Band man wanted. Apply to Mr. George Stevens, Director.

Mr. Leon Seguin has purchased a new Vega trombone.

It is very hard to teach M. Bouchard and Cigarette to buy his own smoking goods. Bisson, the tape man, has been trying to teach him for quite a while.

We would be very glad to know what a "short circus" is in a radio set. Elphage Chaurest had one in his set on Christmas Eve.

We are sorry to have lost our weigher, Amie Lavoie, and his pint of milk.

John Belanger has bought the patent for the only good stove that was ever built; also the stove. Now nobody can have as good a stove as he.

The fourteenth annual meeting of the Burgess Relief Association was held at Odd Fellows hall on Sunday evening, January 4, 1925. The election of officers, regular business and discussions regarding changes in the by-laws of the association were the main issues. The following officers and directors were elected for the current year: President, David Hazzard; vice-president, William Thomas; treasurer, James McGivney; secretary, A. Stanley Cabana. The duties of the directors are to investigate all claims. The following are the directors and the departments under their jurisdiction:

Arthur Thomas, acid, digesters, steam, office; Joseph Grandchamp, wood room, wood yard, log pond; Dan Buchanan, maintenance; Victor Lacombe, machines, bleachery, screens, dryers; Albion Burt, electrical and yards; A. W. O'Connell, chemical mill.

Corrected copies of the by-laws of the association may be had at the time office. CALL AND GET YOURS.

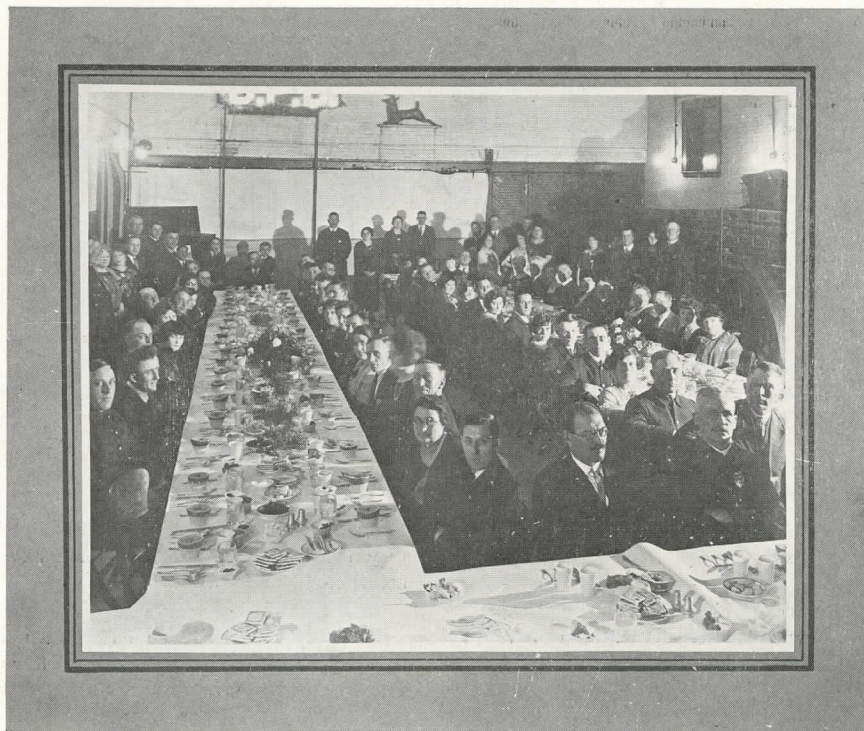
### BURGESS RELIEF ASSOCIATION

Indemnities for accidents and sick-

ness for the month of December, 1924, are as follows:

Mrs. Amanda Landry .....	\$ 46.00
Mrs. Effie Neil .....	57.20
Mrs. Marguerite Pétors .....	48.00
John Ross .....	31.73
Alex Maslow .....	24.00
William Gaulin .....	30.00
Hardy Atherton .....	34.85
Louis Guay .....	34.93
Peter Hickey .....	60.42
Aurele DeCoto .....	14.00
Fred Marois .....	137.50
Alfred Peltier .....	24.00
John Pevin .....	150.00
Fred Marois .....	17.30
Arthur Croteau .....	99.20
Rocco Memelo .....	48.00
Leo Lavoie .....	32.00
Theodore Albert .....	36.00
Mrs. Margaret Henderson .....	200.00
Victor Mortenson .....	66.40
Mabel McCarroll .....	196.00
John Roy .....	60.30
Samuel Savage .....	74.00
Jos. Bourbeau .....	13.20
Ernest Nolette .....	14.00

Total .....\$1,549.03



Banquet of Berlin Fire Department





## PORTLAND OFFICE



## A POETRY PUZZLE

(With Solution) By R. B. COOKE

Oft have I thought it matter for sur-  
mise

That poetry is so rich in setting suns,  
While seemingly but few rave over  
ones

Which are just risen or about to rise.

Think, too, what space full moons mon-  
opolize,

As over waves, ruins, and mountains  
runs

Their silent course, where owl or  
vampire shuns

The light of day and stars bedeck the  
skies.

Often, I say, this contrast puzzled me:  
It set me thinking (as has thrice been  
said).

But after much profound soliloquy  
This is the key to which my musings  
led:—

When the sun sets we have just dined,  
you see,

But when it rises bards are all in bed.

A meeting was held on January 14th of all the Portland office reporters with Mr. Brockway, who was elected director from the Portland office for this year. It was decided to place this page in charge of one reporter each month, commencing with Mr. Perkins for this issue. Next month Mr. Stack will be in charge, to whom all items and contributions will be given through the reporters from the several departments.

How many can say that they have kept all their New Year's resolutions?

Mr. J. H. Splann of the towel sales force spent the Christmas holidays at his home in Portland. For some time Mr. Splann has been assisting Mr. Pray, manager of the Minneapolis office, in the towel distribution in that section.

There are a few of us left that haven't the radio bug and some of us are falling every day. The usual morning greeting of "Who did you get last night?" seems to prevail everywhere.

We hear that Charlie Means is serving on the jury. Let's hope he does not mix things up by being in a hurry.

Arthur H. Wood, who has been with the accounting department since September, 1920, resigned January 1st, to go with Kenny & Greenwood, securities brokers, at quite an advance in salary.

Harry Todd, who has been with the company since March, 1914, was promoted to the work formerly done by Arthur Wood. This came just as Harry moved into his new house. He must have had a Merry Christmas.

Peter G. Peterson has been helping out the insurance desk and moving into his new house at the same time. He has an attractive house on Edwards street that he got into the last day of the old year.

Mrs. William M. Barrett has been exceedingly ill, but is now convalescent. She has some distance to go, but with courage she will make it. Bill Barrett used to be at the laboratory in Berlin.

Louis S. Hogan, who is convalescing from a serious operation in Boston, is making good recovery. He showed his spirit by asking Mr. Worcester to send work to him that he could do at his home. That is the spirit that wins.

The engagement was recently announced of Miss Ruby Powers and Mr. George Grant of the pulp sales division. George advises us the wedding will take place on February 19, 1925.

Mr. Moody of the pulp sales division is away for two or three weeks, visiting customers in Wisconsin, Michigan and Ohio.

We were all very much surprised to learn of the marriage on December 18th, of Mrs. Sarah E. Springer and Mr. Thomas D. Churchill. We extend to them our heartiest congratulations. Mr. and Mrs. Churchill have taken an apartment in Portland for the winter months.

A. E. Kimball, formerly with the retail department, has been transferred to the cost department, upstairs office, and to assist in compiling insurance

records. He fills the place made vacant by the transfer of Harry Todd to the bookkeeping department.

The auditors from the office of Niles & Niles expect to get away from here before the first of February. The advance guard arrived during the early part of September.

Quite a few of the motorists in the Portland office have taken advantage of the lack of snow and are driving their cars all winter. Many say the roads are better than in summer.

John Kelsey's boy, Jack, was seriously injured in a coasting accident and was taken to the Maine Eye and Ear Infirmary for what was thought might be a major operation. At this writing, however, it seems that the operation is not necessary, and we rejoice with John in the prospect that his boy will soon recover.

E. W. Maling, tax department, spent a day in Washington on a hurried business trip.

John Heck, woods department, was a recent visitor to the Portland office. On business or pleasure, we are always happy to greet associates from other offices.

R. B. Cooke was fortunate in securing a draw from Carlos Torre, the latest youthful chess prodigy from New Orleans, who gave a simultaneous exhibition at the Falmouth Hotel on January 12. Senor Torre, who is now champion of New York State as well as of the western states, won the remaining nineteen games, and left Portland the following morning to take part in the Manhattan Club championship. It is hoped he will soon be able to meet our American champion, F. J. Marshall, whose colors have not been lowered for upward of a quarter of a century.

Mr. Roscoe Brown, Jr., has been missed by his friends in the Portland office since he left the paper sales department to become a bond salesman for Richardson, Hill & Co. Everybody is glad to know, however, that Roscoe



is making decidedly good in his new work, and those who know him best are confident that he will be riding the top wave before long. The Brown Company is not such a bad training ship, after all.

After two months of careful grooming, and being a faithful believer in the watchful, waiting policy, Frank Richardson has been rewarded with hope in the appearance of a "sage-

brush" on the upper side of his lip. Truthfully, we cannot call it what it is supposed to be, but it suits Frank, and, after all, he is the one that has to explain the mystery.

We have a budding radio engineer in the Portland office in the person of Dewitt Lambord. Not content with constructing a set that would range between Montreal and Havana, north and south, and between Moncton and Kan-

sas City, east and west, he has recently made a four-valve set that reaches from coast to coast and to Calgary, Alberta, in the northwest. His ambition probably will not be satisfied until like Puck he "puts a girdle round the earth in forty minutes,"—or less.

An apple a day keeps the doctor away, but a clip a day doesn't keep Costellow away.

## RIVERSIDE SMOKE

From our conning tower this last month we have seen:

The Old Man wishing that Christmas would be twice a year instead of once.

Syl fishing all day long inside of camp, because it was too cold out on the ice.

Filteau enforcing good order in the sample room and allowing nobody there except on business.

Joe Cooper acting as weigher in the cold finishing room and Lebreque as striker with two pairs of mittens on.

Remillard becoming known as the most lunched man in the room, 12 times a day being not too much for him.

Bill Goudreau known as Gas, beginning to come down a little since Bill's tanks became leaky.

Pete Vien becoming an investor in a second-hand car.

Routhier getting in line to pass the cigars around.

John Goulette, the early bird, to bed at 4 a. m.

Henry Bedard as a winderman after a year's experience, for Henry is making good and does not require a sledge hammer to take rolls apart.

Emile Lagloire as our fourth class chemist, when Little Sunshine is out.

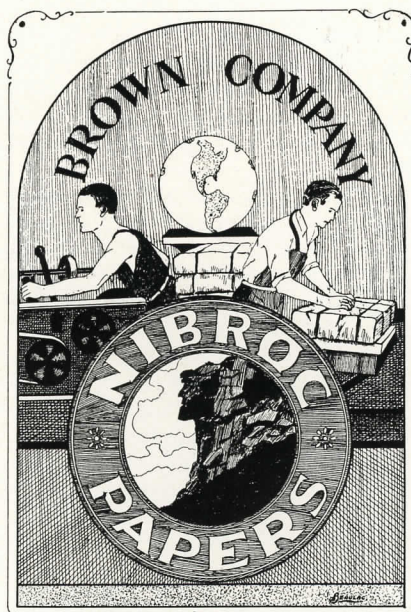
Thibeau and Therrien as the two most posted fellows on hockey.

Johnson and Percy Cooper the most wonderful singers of the Riverside.

### Towel Room Powder

It certainly is getting cold. We had to beg the boys to open our windows a couple of months ago, but we'll bet our apron (and that's saying something) that we don't have to beg 'em to keep them shut now.

Love is like an onion,  
We taste it with delight,  
And when it's gone we wonder,  
Whatever made us bite.  
For proof refer to the towel room expert in love affairs.



We are still wondering if Fido Arsenault has gotten over the shock of his first kiss.

Teddy Marois says that he wishes New Year's came every day. We wonder why.

Henry Bedard is cultivating a mustache. He says it's awful slow. We advise him to try Wildroot. It might help.

Esther's resolution was broken before New Year's day was over. She says

she's off resolutions for life.

The cross-word bug has bitten Bill again. "So I took the \$50,000!"

We advise A. Frechette to join Barnum & Bailey next spring. She certainly can make us crack a smile.

Alec Murdock is rapidly becoming an expert at knitting. Alec respectfully requests that there be no interruptions during class hour as he loses valuable time, and is liable to drop to the foot of the class.

Skeeter Nolan was seen chasing a husky cockroach up the back side of No. 5 machine. On being asked the cause of said chase, Skeeter explained that the old Nash was having a lot of pep, and he thought that the roach added to the transmission would supply the necessary power.

For Joe Streeter's benefit, I would like to recommend the use of some of that good old G. O. P. oil for use in travelling in the Arctic regions. A little of it used in combination with a little pull is guaranteed to make any puddle jumper hit the high spots.

Everybody was very much interested in the Old Man's account of his fishing trip. They all admit that it was a very interesting story of a rather unsuccessful trip. No one can doubt the veracity of the Old Man and Chum Joseph about their having trouble with Henry, the puddle jumper, but it seems to the writer as if some questioning would be in order about the richness of the mixture that they put in their radiator rather than putting all the blame on poor old Henry. It seems



more reasonable when you examine the account closely, especially about Chum Joe fishing in the hornedpout hole. We are not surprised at Chum Joe, but it seems queer that the Old Man should be led astray. I would like to suggest that if on future trips they would use the same consideration in regard to Henry's radiator as they do their own, there would be no trouble in making Henry jump ditches and probably more

fish would be brought home.

#### DECEMBER ACCIDENTS

##### UPPER PLANTS

Serious accidents.....	0
Minor accidents.....	12
Without loss of time.....	36
Total .....	48

##### SULPHITE MILL

Serious accidents.....	0
------------------------	---

Minor accidents.....	7
Without loss of time.....	42
Total .....	49

##### CASCADE MILL

Serious accidents.....	0
Minor accidents.....	22
Without loss of time.....	58
Total .....	80

## UPPER PLANTS NOTES

### MAIN OFFICE

The auditors have completed their work and have departed from our midst. The long tables look decidedly lonesome, and the office seems rather large and empty. But never mind, a year passes quickly, and they'll soon be back with us again.

The girls are having some mighty fine suppers at the Girls' Club. We wonder if the men know what they are missing? It is rumored that the girls are practicing up in good shape, and that a little later they may prepare a banquet and an evening's entertainment for the office force.

We liked the cross-word puzzle in the January Bulletin, even if it was a pretty stiff one. Some one has asked who made it, and another has answered that the person who put that puzzle together is three-fourths a chemist and one-fourth human being. We wonder how the next one will be sized up.

It is interesting to recall just how many perfect days the office folks have had the last two months. During the last sixty days how many people have toiled from dawn 'till dusk and never had a naughty little word bubble up and hang on the end of their tongues and sometimes slip off. A saint, indeed, is he (or she) who has passed through the trials and troubles of closing up the accounts for the year without indulging in some pretty fiery thoughts, actions, and conversation.

### Lines that Fit Some of Us

Maurice Oleson—If at first you don't succeed, try, try again.  
 Skish Oleson—There's many a slip twixt the cup and the lip.  
 Billy Oleson—The longest way round

is the sweetest way home.

Gus Hanson—Love is the tie that binds.  
 Berwick—It's a long road that has no turning.

Sylvester—The mills of the gods grind slowly but they grind exceedingly small.

One of our husky truck drivers stood outside of the Girls' Club and got cold feet one night recently. Fraid cat! We never knew he was that bashful before. Not so with another one of our boys. He came right in and said, "Hello, girls," nice and hearty. We know our friends by their acts toward us. As men sow, so must they reap. Watch out, Mr. Truck Driver, you've got some pretty tough reaping ahead of you. You bet the girls will all pitch in and help the other fellow with his reaping. We are a good bunch, but we don't like to be slighted. We're very sensitive. Somebody's got to be pretty nice for a while to win back our favor. We sign ourselves,—THE BROWNIES.

### COUNTRY REPORT

Seein' as how there ain't much doin' around these parts mayhap it would be kinder pleasin' to you to read a little news from parts of our office. Don't know as I can make it sound very polished up but there may be more betwixt and between the lines than what is on the lines, and takin' 'em both together you might get a little somethin' that you ain't had before.

Those weddin' bells that you've heard about so much lately must have got kinder rusted up standin' so long all tipped up edgeways ready to ring glad tidin's over our heads. Looks like it was up to someone to start somethin' around here. If somethin' ain't done pretty soon, someone will have to jest

draw kinder heavily on the oil tanks of America and enlist in the great cause of rubbin' the rust off them bells and limberin' 'em up so as they might ring forth the message that is the signal for all the human geeses and ganders to start quackin' for dear life and poor compliments.

There's been quite a few sparks flyin' around these parts for some time past. Seems like somebody's little light of love is sending out shootin' stars. Mayhap this is the cause of so many chimney fires around in this vicinity and again mayhap it ain't. There's no tellin' where these kind of sparks go or what they're always up to. Anyway, there's more than one chimney around here that needs to be touched off and I cal'ate they ain't all stuck on houses either one, by gummy.

Next month, the fourteenth day, we shall celebrate that day of all days which is in the special charge of that sly little kid what has wings and a bow and arrer—Cupid. For some it will be a big day—for some kinder small,—accordin' to jest how the arrer strikes. Them folks that don't get struck with one of them arrers will jest have to sigh and remark, "Well, today's Saturday," and let it go at that plus a couple hours at the movies. And the girls shouldn't be forgettin' that Leap Year's over and gone and that they can no longer wag a jeerin' finger at friend Cupid and take matters into their own ruthless hands. They had a whole year to "turn their trick," meanwhile givin' friend Cupid a chance to take a vacation,—and now they have jest got to wait until the little fellow gets around to pick out a fittin' back-ground, puts two people up near the footlights and shoots the dart that fixes 'em for keeps. and there's no tellin' about backgrounds, footlights



or stages. All the world's a stage, and all the footlights that's needed are those that come from a couple pair of eyes. (They don't light the feet very well but they give 'em a pretty good feelin'.) And background,—well that's where the little feller sits and watches his audience anyway and it don't much matter where it is so long as the atmosphere is suitable for the darts to fly through in good shape, and where there seems to be the biggest holler for his presence.

Well, I guess these thoughts about the weddin' bells and Valentine's day will hold you 'till March when someone will probably have somethin' to say about Saint Patrick. There's quite a story tacked to the pages of history concerning this famous man who put the sham in shamrock and made the Wearin' of the Green a conspicuous event the seventeenth day of each enshoo'in' year.

Don't forget your do's and always mind your don'ts and mayhap you'll get to be someone some day—and then again mayhap you won't. We always like to see good little boys and girls playin' around the world but a very monotonous old globe we'd have for sure if there weren't a few Jokers hangin' around.

### BROWNIES DOUBLE REPORT

#### December 30, 1924, Ended Right

We said we would all be there and we were—twenty of us. And the good time we had is well worth telling you about.

Shortly after six o'clock, Tuesday evening, Dec. 30, twenty Brownies gathered at the Girls' Club and were almost immediately ushered into the dining room where a royal feast was in readiness for prompt consumption. It was one of the finest suppers that the Brownies can recall. Here is our menu. Just take a good look at it.

#### Norwegian Meat Cakes

Mashed Potatoes      Christmas Bread  
Peas      Pickles

#### White Bread

#### Apple Pie and Whipped Cream

The girls chattered gaily through the supper hour, and when the last crumb was consumed and the long club room was again invaded, the gayety and laughter broke forth and the room just rang with jollity. Grace made some of her pretty speeches (we just love to hear her express herself). Some of the girls danced, some played the piano, and some just flew about making lots of noise. Anna Leclerc, like the fine

sport that she is, gave us some fine vocal solos. We all admitted to ourselves that she certainly could sing with the best of the artists—but when she started dancing—well, she almost knocked us out. It is safe to say that she could knock the spots off from the spottiest leopard. We'll hand her the cake, blue ribbon, and all the medals we can find, for she deserves them all.

The committee in charge of this supper consisted of Clara Gifford, Mary Anderson, Solway Johnson and Theresa Keenan. They all know how to cook a meal and how to serve it. Some quartette. Encore!

### January, 1925, Started Right

On January 14th, the Brownies were all out again. Although the wind howled and the snow blew and the lights went out for a time in parts of the city, the girls had one of the most enjoyable evenings on record. It was one grand hilarious time—with twenty girls to make it so.

Rhoda Patterson, Vera Fancy, Eileen Cooper and Snifred Jackson were in charge of affairs and they certainly gave us one of the finest feeds that four Brownies could possibly prepare. Our menu.

	Baked Potatoes	
Roast Pork		Dressing
	Salad	
Pickles		Rolls
	Pineapple Whip	
Coffee		Cake

We simply could not express our appreciation of the supper. We just ate and ate—well, until we couldn't eat any more.

After supper all conventions and rules were thrown aside and the room was just all aglow with perfect good fun. Music, dancing, cards, fortune telling and jokes were enjoyed. Secrets were exchanged and so became no more secrets. Ideas and opinions were aired in good shape, and then some new dance steps were tried out. These new steps will be tried out still more on the boys, when we have our big social gathering in the near future.

One of our big hopes has been realized. The girls stayed at the Club until nine o'clock. That's what we want. Come early and stay the entire evening.

The success of the Brownies depends upon the girls of the Main office. Each girl must recognize her part of the whole organization and see that her own part is taken care of. Then we will be 100% perfect in all things.

It is hoped that the next meeting will be unbroken by anyone having to leave early. We have two more suppers this season. Let's make them both perfect by going and staying the entire evening. Each Brownie is requested to bring her contributions and to share whole-heartedly in the good fun that there is bound to be at the Girls' Club.

### RESEARCH DEPARTMENT

On December 10th the Jolliets held their last meeting for the year 1924. The call to supper at six-thirty brought a crowd of hungry girls in a rush to the dining room which had been prettily decorated with red ribbon intertwined with pine and balsam boughs. After doing ample justice to the "goodies" served by the Main Research Girls, it was decided to have Miss Florence Snodgrass deliver the bundles which "Santa" had so kindly left on the Christmas tree in a corner of the room. But strange to say, although "Flo" delivered a bundle to each girl, they were found to be all labeled "Miss Snodgrass." After opening the parcels and examining the various useful articles they contained, it was discovered that there was yet another present on the tree. "Flo" turned to the tree to see what was remaining only to find it lighted by her "long-desired" bridge lamp. After duly admiring this and wishing "Flo" "loads of happiness" in the future, the girls returned to the living room to resume their "Xmas" sewing and to chat until a late hour.

Born, Sunday, January 11, to Mr. and Mrs. Emile Lettre, a son, Joseph Maurice.

Miss Mary E. McGillan, Berlin High School 1924, is a new employee in the photo section.

Miss Jeanette McGivney of the photo section recently returned from a two weeks' vacation spent in Montreal.

Even our stenographers are going in for research. We were wondering why Miss Bonneau was always leaving a large electric lamp burning over night in Mr. Moore's office. We found that she was trying to force the growth of a wild onion under the light.

On Saturday, January 3rd, a stag party of the research department was held at Doc Gibbons' summer house. About forty men attended. R. A. Webber acted as chef and was ably



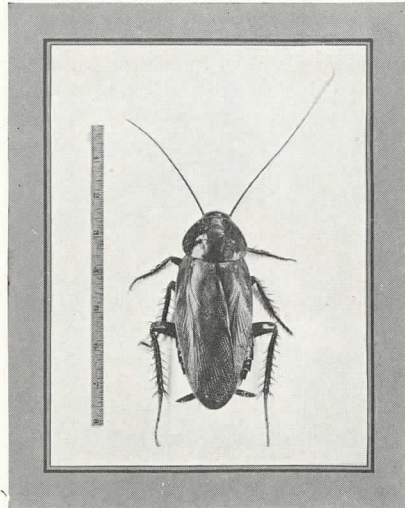
assisted by Geo. Oleson in the preparation of the chicken pie, baked potatoes, apple pie, etc., which formed the dinner. R. A. says that he did not realize that forty people could make so many dishes to wash. Don\*White, our radio expert, furnished contact with the outside world by means of his new "Suspender" set. Thereby Harold Mann heard his usual bedtime stories at the proper hour. Mr. Van Arsdel served up cross-word puzzles, which remained unsolved after several hours' work. Perhaps his followers will do better next time with his scintillations if they, too, become addicted to Zion's Herald, the American Mercury, and the Christian Century. Goldsmith furnished a Mah Jongg set, claimed to be made from wood pulp. At dinner, Goldsmith also announced the marriage of Mr. Royal Rasch and Miss Marjorie Gerish, which occurred one hour previous.

Hon. Hugu K. Moore submitted two puzzles for the Bulletin Cross-Word Puzzle Contest. It seems that Mrs. Moore had a party one evening, and Mr. Moore could find no place to rest. Finally he installed himself in an attic closet, and the result was one good hard puzzle, which the editors have judged to be too difficult for the Portland office to solve. Before leaving for New York to accept the Perkin Medal, he brought in another puzzle. What an unsatiable appetite for honors!

Mr. and Mrs. Emile Lettre wish to thank members of the research department for the remembrance sent to their baby.



FLO SNODGRASS



A Research Pet

Carl Günsel is away installing apparatus, so that another paper mill can use Brown Company liquid chlorine to bleach its pulp.

Miss Fogg recently made a record in the taking of dictation and the transcription of the notes therefrom. In the course of three days she filled a standard stenographer's note book through on one side and half way back on the reverse, and produced the record in neatly and accurately typewritten form. Has any other office a similar record to start the New Year?

One of our patres conscripti, better known as Ike Webber, produced two excellent cross-word puzzles for our contest. We hope to see them in print later.

D. H. McMurtrie has bought himself a pair of skis. One of his boys was similarly blessed by Santa Claus, while the other so improved his behavior that he was remembered at New Year's.

Fred Pilgrim, who in boyhood used to celebrate Guy Fawkes Day in the city of London, could not fathom our reference to him in the first cross-word puzzle, but his native American children saw the point immediately. It's difficult to naturalize the h's.

It's rather late to speak of it, but the photo section during the month of December turned out mammoth calendars to the number of about 500, sent by the Pulp Sales Division to its clients. These had a picture once used upon the front cover of the Bulletin, looking down the Androscoggin River to the

Cascade Mill and beyond to the heights of the Carter-Moriah range. It was a fine piece of work, and accomplished much cheaper than if given to an advertising agency.

M. O. Schur is taking up German translation with a vengeance, but he lays no claims to being conversant with Dutch.

H. P. Vannah is feeding in the land of alligator steaks and ostrich eggs.

John Graff and Gordon Cave have had words since the latter's talk at the Y. M. C. A. Forum. John doesn't like Herbert Spencer's division of things into the known, the unknown, and the unknowable. To him it is the rankest pessimism to believe that anything may remain unknowable. There would be no joy in living with such a belief.

Newton Newkirk Nourse is the author of a local cross-word puzzle, which while not symmetrical is very original.

Sanford Swasey is showing a commendable interest in what Dr. Armstrong calls "Tidbits;" and others, "Comical Abstracts."

Goehring seems to have read Field Marshal Robertson's breezy autobiography and taken the lesson to heart that a colonel was once discharged from an army staff college for refusing to raise a moustache. Perhaps, however, the reason is a feminine one in Roanoke, Va., which he recently visited.

## LIST OF DEATHS

### CASCADE MILL

Michael Gorman was born May 10, 1858. He first began working for the company on the drive in 1887. From here he went to work at Cascade pond where he worked until May 21, 1924. He died Jan. 4, 1925 at Cork Settlement, N. B.

### SAW MILL

Ed. Fortier was born April 20, 1865. He first came to work for the company in 1882. He started working at the window frame mill in January, 1913, where he was working at the time of his death December 23, 1924.



**PERSONNEL DIRECTOR  
OSCAR P. COLE**

Very near the top of any list of Who's Who in the Brown Company at Berlin would be included the name of Personnel Director Oscar P. Cole, who during the past month not only completed his 21st year of service with the company, but also closed a successful term as Member of the Governor's Council of New Hampshire, the highest office within the direct gift of the people of the North Country.

It was inevitable that one who had been raised in the Upper Androscoggin at a time when the veterans of Gettysburg, Cold Harbor, and the Shenandoah Valley were still in their prime recounting the exploits of those mem-

orable fields and when the plumed knight, James G. Blaine, was still representing Maine in the American Congress, should have been early influenced toward that constructive faith that is Republicanism. The influences thus early brought to bear were strengthened when Cole received his education in the old Berlin schools, later at St. Johnsbury Academy in Vermont where Calvin Coolidge was completing his Latin and Greek before going to Amherst, and finally at the University of Michigan, that great educational institution in the state that a son of New Hampshire, Lewis Cass, brought into the Union and whose Boys in Blue marched in such numbers with Sherman on the way from Atlantic to the sea. At the beginning of our war to free Cuba from Spanish misrule, Cole

became an enlisted man in Company A of the 31st Michigan Volunteer Infantry, and at the cessation of hostilities was honorably discharged from the service as a corporal.

Cole returned to Berlin and was first employed with the International Paper Company in the days when it used groundwood pulp from the old Riverside Groundwood Mill. On January 18, 1904, he hired out with Supt. W. E. Corbin, who was getting the crew for the operation of the new Cascade Mill, which was to make newsprint for such popular journals as the Indianapolis News and the Boston Post. The first sheet of paper was made at the Cascade on May 24, 1904, under the direction of Superintendent Corbin with U. M. Waite in charge of groundwood, John Bell as paper superintendent, Charles J. MacNutt as head of the finishing room, and A. R. Paull, lately deceased, in charge of sulphite.

In 1906, Cole became a captain in the National Guard at Berlin, and in 1909 was promoted to Major. The same year he was representative from Berlin to the General Court. In 1917, he was with the National Guard on the Mexican border. He then served as a lieutenant colonel in France, acting as provost marshal of the intermediate section with headquarters at Gievres, where the intermediate warehouses of the Service of Supply were situated. His work was very exacting, and brought him in close contact with the French authorities in the area taken over for American activity. For his distinguished service there he was decorated by the French Government with the Military Order of the Black Star, Officers Grade.

After his return to his position as paymaster at the Cascade Mill, he was elected in 1921 as State Senator by the people of this district, and in 1923 he was promoted to a seat in the Governor's Council, a body whose dignity and sacrificing service dates back of the Revolution to Governor Wentworth, and for all we recall, further still.

Although an unsuccessful candidate for Representative in Congress at this last election, Colonel Cole secured a large vote in the North Country, where he is best known. The more populous counties were, however, staunch in their loyalty to Representative Wason. What is the First District's loss is our gain, for we still have Colonel Cole with us as Personnel Director—a man with broad sympathies and just to all regardless of party, creed, or condition.



OSCAR P. COLE





### ROSEY & BILL

Tell us not in mournful numbers advertising is a dream, for the business man who slumbers has no chance to skim the cream. Life is real; life is earnest; competition's something fierce. If for dividends thou yearnest learn to parry, thrust and pierce. In the business field of battle, mollicoddles have no place. Be not like dumb driven cattle, be a live one in the race. Lives of great men all remind us we must bring the bacon home, and departing leave behind us footprints on another's dome. Let us then be up and doing, otherwise we may be done. Still achieving, still pursuing, advertise and sell the towels.

At last the great trouble connected with the rectifiers has been overcome. Just hitch up your aerial lead to the springs of your couch, and then sit back in the farthest corner of your room in your favorite chair, load up the old briar with your favorite brand, either Capstan, Benson and Hedges, or Tabac Canadien, and listen. What to, did you say? Well, some say music and others noise. Anyhow, variety is the spice of life whether it be in aeriels or pleasure. So let's go, boys.

Reggie—Oh, I say, Mac, is it customary to kiss the bride-to-be.

Mac—What's that, Reggie?

Reggie—I said should I kiss the little girl when I ask her to dance?

Mac—Sure, it's the last chance you'll have.

Four and twenty Berlin boys,  
Feeling very dry,  
Went to Montreal

To buy a case of rye.

When the rye was opened  
The boys began to sing  
Who the deuce is Coolidge?  
God save the King.

Radio bugs, don't get discouraged. One of our fans has invented a new set, which will be sold under the name of "JUNKODYNE." He assures us that this set will operate perfectly and guarantees that we can reach Japan (by taking the boat). To tune in all you have to do is to talk to the set. Hook up will appear in next month's Bulletin.

Football as it is played in "Old England" is very much in vogue at the present time. Mr. Plummer, one of the enthusiasts, having been following the professional hockey very closely and being a staunch supporter of Sprague Cleghorn and his methods of defense, decided to adopt the same tactics on the football floor. In other words to step into them. Alas! He was right in theory but in practice he was lacking. But accidents will happen in the best of families, so better luck next time, Ted, and also a little word of advice, "Watch your step."

Bill—Are you going to the chicken party tonight?

Jeff—What kind of chickens?

Bill—Why chickens you eat of course. Jeff (disgustedly)—Naw.

Morgan—Alas, 'twas ever thus!

### A COMEDY IN ONE ACT

Out of sight, not out of mind. Staged for the amusement of timekeepers to

pass away the wee small hours of the 12 to 8 shift.

Time—Any time around 2.30.

Scene—A deserted office in which is situated a small telephone central. A young and wistful boy with a faraway look in his eyes is sitting before the switchboard murmuring sweet nothings into the transmitter. Another boy with adorable hair and dressed in the height of fashion is sitting dozing in a chair nearby. A stalwart middle-aged man is seen entering the office, a rather amused smile upon his countenance.

### Characters

Frankie, the switchboard sheik.

Louis, he of the marcel-waved hair.

Jim, late of Glasgow, Scotland, later of Hudson Bay fame, still later of Chicoutimi, and now guardian of the Brown Corporation interests between the hours of 6 p. m., and 6 a. m.

Jim—What's wrong with your head? Let the poor girl go to bed and get some sleep.

Frankie—Just a minute, dear. (Turning) What did you say?

Jim—Going to talk all night?

Frankie—Why? She's not sleepy. Hello.

Louis—(Snoring).

Jim (on his way to the door)—Why don't you marry the girl and be a man? In my days the young fellows were not afraid to ask a girl's old man if they could support her for the rest of her days.

Frankie—Where were you, dear? I was here. I thought you had gone. I said hello a dozen times and you did not answer. Yes. Sure, etc.

Curtain.



There are railroad blues, ragtime blues, and many other kinds of blues, but according to Reggie the boarding house blues as sung by Scotty and Ernie have got them all stopped and would give anyone the blues

Mr. Len Gorham, we are glad to say, is back again with us after his painful accident. Mr. Gorham had the misfortune while emptying his coal ashes Christmas morning to slip and fall on one of the scuttles and break two of his ribs. Anyway, Len, you have something to be thankful for. It was early in the morning. Moore would have had a great laugh, if it had been later in the day. But he has no ashes to carry, and so, if he did happen to fall, there would be no more damage than possibly a bruise or a shattering of glass.

We wonder why—

Mr. Murch does not publish more of his hunting tales.

Mr. Britton doesn't swear when he jams his fingers while knocking the ashes from his pipe.

Claude is so worried about storms on the Atlantic. Surely any steamer carrying her letters would not be delayed.

Bill Sharpe does not publish his stories, especially his latest crossword puzzle gags.

The Beavers win so many hockey games.

Our old friend, Bob, so seldom joins our happy throng at night now.

Packard has added a new fireless cooker to his many possessions.

The name Bump has been bestowed on one of our throng.

Bill doesn't trim Bennett and Fitz once in a while instead of letting them clean up all the honors.

### BASKETBALL

On December 13th, Vikings played Greyhounds and after a very good game the Vikings won by the close score of 31 to 26. This is the first game that the Vikings have won.

On December 20th, Granites trimmed Leones and repeated this trimming on January 10th. The standing of the teams is as follows.

### Ladies' League

The first league game of basketball

	Played	Won	Lost	Points For	Points Against	Point Value
Granites	4	3	1	116	100	6
Leones	4	2	2	120	106	4
Greyhounds	3	1	2	76	83	2
Vikings	3	1	2	82	111	2

### Hockey

Hockey in the St. Maurice Valley League is well under way. La Tuque won the opening league game from Grand Mere by the score of 12 to 3.

On Sunday, January 11th, they played Shawinigan Falls in La Tuque, and after one of the cleanest hockey exhibitions ever seen on local ice, the La Tuque boys emerged victors by the score of 3 to 1.

Following are the teams:

SHAWINIGAN FALLS	LA TUQUE
Tremblay, Goal	Goal, Gagnon
Bergeron, Defense	Defense, Mongrain
Nourrie, Defense	Defense, Braithwaite, H.
Lamirande, Center	Center, Charland
Desilets, R. Wing	R. Wing, Banville
Gill, L. Wing	L. Wing, Lajoie
Grenier, Sub	Sub, Genois
Michaud, Sub	Sub, Goswell
Barrette, Sub	Sub, Braithwaite, G.
Hebert, Sub	

### SUMMARY

1st La Tuque	Mongrain	14.30
2nd La Tuque	Charland	8.00
	Lajoie	4.00
3rd Shawinigan Falls	Hebert	12.00
No penalties. Referee, Frank Gauthier, Grand Mere.		

### RELIEF ASSOCIATION

At the Annual Meeting of the Brown Corporation Relief Association held on January 3, 1925, a sum of \$400.00 was voted out of the surplus for the benefit of the poor of La Tuque. F. B. Bjornlund was unanimously re-elected as president. J. O. Arsenault was elected as treasurer in place of J. A. Grenier, who has resigned his position in the main office at La Tuque to go into an automobile business at Three Rivers, Que.; Maxime Picotte was elected as secretary. The following were elected to serve on the committee: B. J. Keenan, vice president; J. R. Gervais, A. Turgeon, T. Chiasson, E. M. Moore, W. Poitras, J. W. Armstrong, S. J. Maloney, D. Boutet.

Mr. Bjornlund expressed his appreciation at the good attendance of members and declared a dividend of 68% for the last six months, ending Dec-

in the Ladies' League brought the Paddies, Married Ladies and the Canadians together. The Paddies' teamwork was excellent. They had their own way from start to finish. The score ended with the Paddies on the long end, 46 to 6. The Canadians lack the team play of the Paddies and should with more practice give their opponents a very close run.

ember 31st, which brought the meeting to a close. Following is the financial report for the year ending December 31, 1924.

### Receipts January 1, 1924

Balance on hand	\$ 4,945.60
Receipts from members	10,942.36
From Brown Corporation, half share of benefits paid from January 1, 1924, to December 31, 1924	3,318.62
Uncalled for checks refunded	67.49
Sundries	6.60
	\$19,280.67

### Disbursements

Claims as per list	\$ 6,637.23
Dividend No. 17, Jan., 1924	4,647.36
Dividend No. 18, July, 1924	3,916.41
Auditors	10.00
Secretary	38.00
Treasurer	150.00
Stamps for checks	34.04
Supplies	3.00
Sundries	6.60
Collection remitted	13.66

\$15,456.30

Balance, Dec. 31, 1924..... 3,824.37

\$19,280.67

### Number of Members

January 1, 1924	681
June 30, 1924	666
December 31, 1924	615

### HOCKEY

Hockey games in the La Tuque City League have started, and two games have been played so far. The first game was between Canadians and Royals, the score being 3 to 1 in favor of Canadians.

The second game took place on January 7th—between Canadians and Beavers, the Beavers being blanked by the score of 7 to 0.

Following are the line-up of these teams:

### CANADIANS

Gelinas	Goal
Beaudet, L.	Defense
Gilbert	Defense
Charland	Center
Bouchard	Wing
Beaudet, E.	Wing
Paquette	Sub.
Duchesne	"
Page	"
Drolet	"
Gingras	"
Plante	"

### ROYALS

Rochette	Goal
Bouchard	Defense
Banville	Defense
Lajoie	Center
Rivard, U.	Wing
Rivard, M.	Wing
Roy	Sub
Guerin	"
Bolduc	"
Lapointe	"

### BEAVER

Gillard	Goal
---------	------



Corbeil .....	Defense
Seguin .....	Defense
Adams, C. ....	Center
Walker .....	Wing
Rouillard .....	Wing
Adams, R. ....	Sub.
Martinson .....	"
Lavoie .....	"
Beaupre .....	"

### LABORATORY GAS

We understand that Harry Clifford is now making square steam. Is this the reason why we never have any in the curve room?

Is it true that our star hockey artist, Willie Charland, is thinking seriously about marrying. No more goals.

### BOARDING HOUSE NOTES

We notice that Steen Gillard has not attended any Sunday hockey games so far this winter. We wonder why.

We also note that the old timers of the B. H. have gone in for skiing. Fred Gilman has kindly taken over the job as instructor.

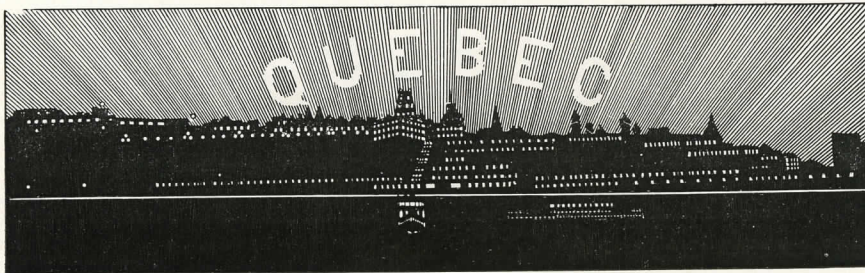
La Tuque readers are requested to help make the La Tuque contribution to the Bulletin bigger and better. Some little harmless joke or sketch on your friends will be appreciated. The Bulletin Box in the time office is the place

for any news that will help out our very excellent monthly paper.

Last year La Tuque played second in the Eastern Canada Derby at Quebec, but it is going to be different in 1925. Skene is getting his dogs in trim and can be seen any day speeding through town behind half a dozen of them. Bet your money on Skene to win this year.

Sunday hockey games have been the order of the day each winter since La Tuque has had a rink. Owing to the fact that many of our hockey enthusiasts are constrained to remain away from games on the Sabbath owing to their religious beliefs, the hockey powers are considering if it would be better to hold the games on week day evenings so that attending them would not interfere with anyone's religious principles. This might be done if it could be shown why skiing and tobogganing are not banned on Sunday as well as hockey.

The most attractive features of the Empire Theatre Orchestra now is the "Marcel-waved hair" of the musical director.



Mr. Norman Brown, formerly manager in this office, is in town from Portland for a few days.

Messrs. Adelard Morissette and H. F. Wadleigh, both of Windigo, were in the office for a day last month. The former has gone to Trois Pistoles to work for Mr. J. S. Cassidy, while the latter has taken up his new duties at Lampson's Cove.

"Cal" Prairie is at Lampson's Cove where the company is making extensive repairs to the wharf, and as this work is only a couple of miles out of town, he may often be seen in the office bandying words with Marcel.

We saw Mr. J. H. Page of Windigo

for a few days around Christmas time but missed Carter of Sanmaur. These two usually travel together, but there must have been some hitch this trip.

Messrs. J. A. Jones and K. Nesbitt of La Tuque were here during the New Year's celebration and seemed to be having a good time. Anyway, we hope they did.

IT'S OUT! Reggie Viner's engagement has recently been announced and to avoid congratulations, (being rather shy) he has taken to the bush at Sanmaur to work for the company again. Best wishes, Reg.

Wallace Burgess was also in town for several days during the holiday season

and seemed much quieter than usual. There are whisperings of orange blossoms on the horizon, and perhaps this is the reason. Good boy.

Mr. W. L. Gilman, formerly superintendent of the La Tuque saw mill, was in to see us a couple of times. He is now traveling in Ontario with occasional visits to Montreal and Quebec, in the interests of the company.

Mr. F. W. Farrington of Berlin spent several days with us while in the vicinity on business.

Charlie Mott of Berlin spent his vacation here and was particularly noticeable on Christmas Eve when a few of the staff brought in a small tree and also presented Mr. W. L. Bennett with a bottle of Christmas cheer in the form of a dressed-up bottle of ginger ale. Charlie also went to a couple of hockey games? ? ?

Eddie McCarthy returned from Berlin after his holidays for a short visit, but went back to Berlin almost immediately—on business.

Mr. J. A. Crawford was in town from Lyster for a day.

"Monkey Shine" Marcel, our imitation drunken lumberjack, staged a one-act playlet for us the other day and was greatly applauded. His objective was anywhere from ten to fifty dollars, but he only succeeded in getting a cigar, which nevertheless stopped his calling for "Monsieur P-e-r-r-e-n-c-e."

Ques.—"Who is the best scholar in the forestry department?"

Ans.—"Donald Greig, 'cause he can spell 'ratchet.'"

The forestry department wants to know whether the 21st or the 25th of May will be a holiday. Who can tell?

Who lost seven dollars on New Year's Eve at the Chateau?

### QUEBEC ICE BRIDGE

February seventh of last year was a red letter day in the annals of Quebec City.

It was noticed early in the morning that there was more ice in the St. Lawrence than usual, and by ten-thirty the ferry service between Quebec and Levis had been suspended, owing to



the jamming of ice carried down by the ebb tide.

We, of Quebec Office, were able to watch from our windows the progress of a tiny speck which started from the Levis shore and gradually resolved itself into a man,—the first to cross the St. Lawrence at this point on foot for twenty-eight years.

At five o'clock several of the residents of Levis returning from work in Quebec, discovered that the ferries were not operating, and some two hundred started across the jam. When the flow tide came—simultaneous with the darkness at about six fifteen and broke the bridge, there were between twelve and fifteen people still on their way across.

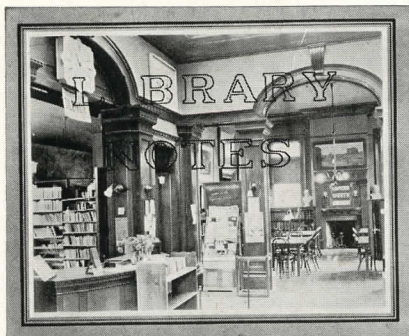
Four or five, being close to the Levis side, jumped into the water and were picked up by the employees of the ferry company, whilst a few others retraced their steps to Quebec in safety, leaving, however, a party of six marooned on a floating ice pack.

Small boats were put out manned by policemen and civilians, and the Government Ice Breaker was out all night with searchlights and fog horn going but all to no avail.

It was not until daylight next morning that the piece of ice on which were the four men and two women ran aground about four miles up the river and allowed them to scramble off their floating prison onto the shore. According to the story of one of the unfortunate victims, they had drifted back and forth across the river about twenty times during the night. Although

suffering from exposure none was more seriously hurt than a few bruises sustained while escaping from their "igloo."

One of the last ice bridges across the St. Lawrence at Quebec was in 1892, when it took in the beginning of March and lasted till May. In 1873 it lasted till the eighth of May when people crossed in wheel carriages, and a May Pole was erected in the middle on May Day.



#### PUBLIC LIBRARY NOTES

##### New Books for January

A Passage to India by E. M. Forster.

One of the outstanding novels of the year. An engrossing and admirably written story giving a clear picture of the political and social conditions in India.

A Bishop Out of Residence by Victor L. Whitechurch.

One of the most humorous books of the season. Domestic, legal, matrimonial, and many other troubles pursue

this Bishop who for a time is traveling under the assumed name of Rev. Johnson.

The Invisible Woman by Herbert Quick.

A panorama of Iowa twenty years ago and a remarkable piece of writing. It is a justification of the Northwest and cornbelt insurgency that plagued the 1924 campaign.

Peasants. Vol. I., Autumn by Ladislav Reymont.

This author has been awarded the 1924 Nobel prize for literature for this book. It is an epic of the soil, a picture of the whole round of Polish peasant life.

Glimpses of Formosa and Japan by Harry A. Franck.

Like other books of travel by this author, this clear and humorous description of the Japanese is given with a true understanding obtained by living with a native family. It is written with boldness, accuracy, and true literary style.

The Windows of Westminster by A Gentleman with a Duster.

This book portrays British governmental characters and epitomizes them.

The Evolution of French Canada by Jean C. Bracq.

A history of the French people in Canada since the days of the cession. The difference between the French Canadians and the French is here clearly brought out.

The Man Eater by Henry Milner Rideout.

A highly diverting romance concerning an American heroine hidden by the hillmen and rescued by an Englishman. Julie Cane by Harvey O'Higgins.

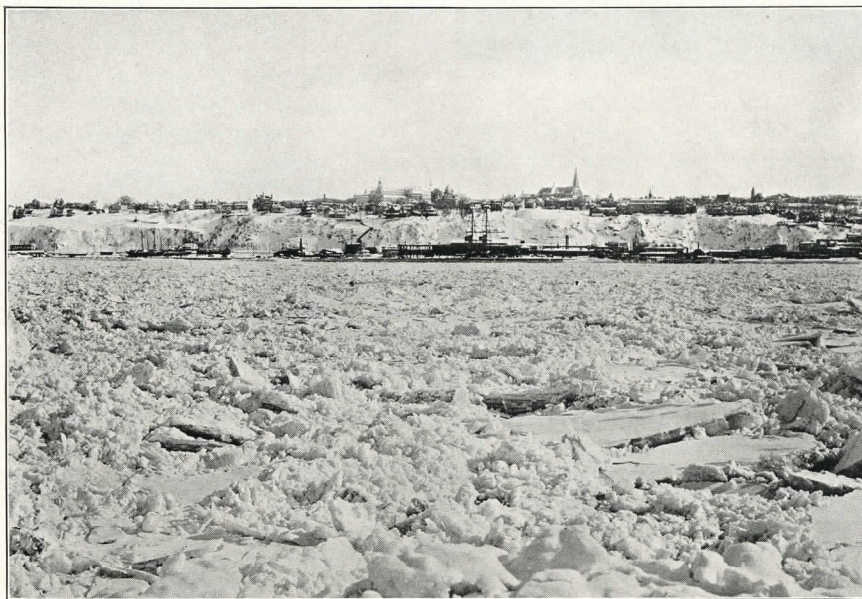
A book that explains the whys and wherefores of human conduct in the homely scenes of average people. An intensely absorbing story.

The Sacrament of Silence by Noel Sylvestre.

An accurate and convincing character analysis. It portrays sufferings of a man who chooses a certain course of action because his habits of thought and training will permit him no other.

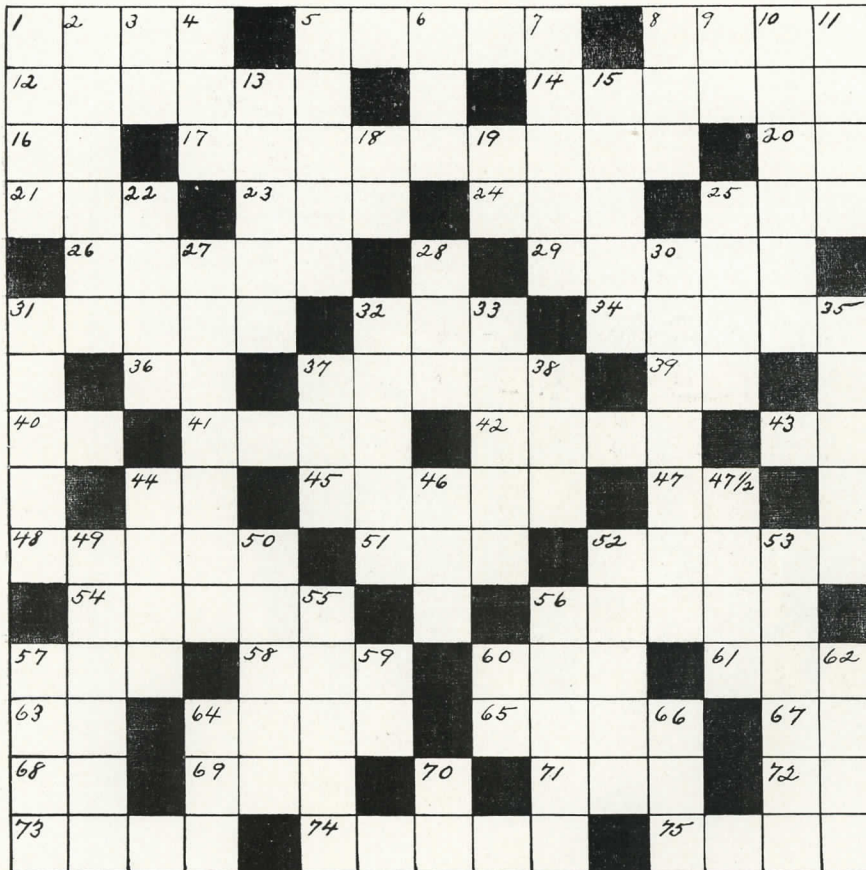
The Diary of a Dude Wrangler by Struthers Burt.

A Dude Ranch is a civilized wilderness camp where gentlefolk with money and nerves try a bit of "the wild and woolly" to the amusement of the natives and cow punchers. An amusing and well written story with plenty of cattle rustling and broncho busting mixed in.



Quebec Ice Bridge, Feb. 7, 1924





## THE WINNING CROSS

## WORD PUZZLE

Submitted by William M. Barrett, Portland  
HORIZONTAL

- 1 Urn.
- 2 A wealthy Hindu.
- 8 Broth.
- 12 A bird of golden color often seen in Gorham.
- 14 To compel.
- 16 With Nibroc (abbr.).
- 17 Indispensable.
- 20 The (French masculine).
- 21 To imbibe in small quantities.
- 23 To obtain with difficulty.
- 24 Military honor.
- 25 To ventilate.
- 26 Wood measurement (plural).
- 29 A sense.
- 31 A city in France.
- 32 Storage place for grain.
- 34 Made by Brown Company.
- 36 Knockdown (abbr.).
- 37 A town near Berlin.
- 39 Long meter (abbr.).
- 40 One (Scot).
- 41 An appointment (slang).
- 42 Used in filters.
- 43 Homestead of Geo. Washington (abbr.).
- 44 Right lumber (abbr.).

- 45 Dogma.
- 47 A pronoun.
- 48 To smile contemptuously.
- 51 24 hours.
- 52 Something a Harlan Beater does.
- 54 To set in.
- 56 A small donkey.
- 57 Royal Society of British Artists (abbr.).
- 58 A Berlin school (abbr.).
- 60 Friday (abbr.).
- 61 A female sheep.
- 63 Gold.
- 64 Immaculate.
- 65 A small valley.
- 67 Half an em.
- 68 Account of (abbr.).
- 69 From within (Greek).
- 71 An American jurist.
- 72 Lady Day (abbr.).
- 73 A railroad (abbr.).
- 74 A color.
- 75 Opposite of gain.

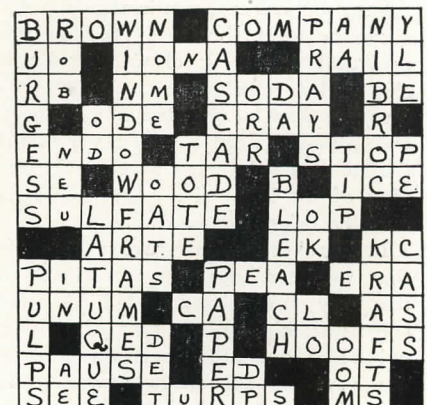
## VERTICAL

- 1 Solemn promises.
- 2 Used on bruises.
- 3 Chemical symbol (silicon).
- 4 Period of time.
- 5 Connect heads with trunks.
- 6 A jitney.
- 7 A brag.
- 8 Cunning.

- 9 Old Ironsides (abbr.).
- 10 A reverse of more beautiful.
- 11 An equal.
- 13 An English city.
- 15 Wide.
- 18 East End.
- 19 South Dakota (abbr.).
- 22 Flesh of a swine.
- 25 Something indivisible.
- 27 Problems.
- 28 A tree of the pine family.
- 30 Member of the U. S. Army.
- 31 A fruit (plural).
- 32 To propagate.
- 33 Inquisitive.
- 35 One who is thrifty.
- 37 First three letters of a diminutive of Henrietta.
- 38 Latitude (abbr.).
- 44 First name of telephone operator Berlin.
- 46 A small horse.
- 47½ Weight of a vessel (chemistry).
- 49 Trade name for our paper.
- 50 A puzzle.
- 52 To erect.
- 53 Something made by Brown Company.
- 55 To pulsate rhythmically.
- 56 Something needed on this puzzle.
- 57 To wander.
- 59 Chemical symbol (selenium).
- 60 Fire department (abbr.).
- 62 Terminals.
- 64 Preposition (by means of).
- 66 A slippery fish.
- 70 Company (abbr.).

## HONORABLE MENTION

Honorable mention is given to puzzles submitted by Glenn Morgan of La Tuque and Walter W. Webber of Berlin. They will receive \$2.50 each during the respective months that their puzzles are printed in the Bulletin.



Solution to Last Month's Puzzle





### BERLIN ATHLETIC ASSOCIATION

The complete reorganization of the Berlin Athletic Association with the election of Paul Brown as president and the unconditional gift by the Brown Company of \$1000 with another \$1000 when the citizens of Berlin have contributed \$1500 assures the future of hockey and other sports in Berlin under a management that will take an unequivocal stand for clean sportsmanship and a sound finance. It ensures a square deal for all branches of sport, and disposes of the fear in many minds that a depleted treasury at the beginning of the baseball season will mean another drive for funds.

It has been with grave misgivings that we have seen the escutcheon of this city sullied and soiled by poor sportsmanship on the part of players upholding our athletic credit and on the part of spectators unwilling to abide by the lawful, though sometimes human, decisions of duly constituted

officials. During the last two weeks Berlin was seriously scored by the Metropolitan press because of the behavior of one of its hockey players at two games in the Boston Arena. At one of the concluding games of the last baseball season, an umpire was escorted from the field amid the threats of a losing crowd. We know that the sporting element in Berlin is not black at heart. It is simply thoughtless. It has lacked leadership. On days of victory, it has acted splendidly the part of the magnanimous victor, but on nights of defeat it has lost its self control. Good sportsmanship means glorious losing as well as generous winning. We expect better things of players and fans in the future.

We note with approval the measures as outlined in the local press, for the control of finance. The baseball enthusiast who invests his earnings at this time has the right to have his investment safeguarded and the credit

of the association unimpaired. Those interested in amateur boxing and basket ball will have their share of the money, if present in sufficient numbers.

We are glad to see that the new association is making adequate provision for junior sports. Too many people nowadays take their athletics vicariously. They are content to stand still, and let George do it. The organization of the five junior teams, the Wanderers, the Tigers, the East Sides, the Berlin High School and the Gorham High School, to compete for a cup offered by President Paul Brown is a step in the right direction. It means development of players for the senior team under the tutelage of seasoned men. It means the diffusion of the benefits among a larger number.

We congratulate the new management upon the happy combination of plans, and assure them of our willingness to cooperate in making their ideals actual.