



If our Fellow-Employees in the Services Could Use the Suggestion Box

(A Message to Inco People from Vice-President R. L. Beattie)

DURING the past year we in INCO have hit harder at the Axis by pooling our ideas through the Employees' Suggestion Plan. This "idea partnership" has produced many splendid suggestions for increasing production, and through it we have been brought appreciably nearer the goal of all free men and women—Victory and Peace.

As we go into the second week of the Sixth Victory Loan campaign I cannot help thinking about the ideas which would be dropped into our Suggestion Boxes by our fellow-employees in the Services, were they able to do so.

Probably they would have many different ways of expressing themselves but I think their ideas could be summed up like this: "Keep on turning out the nickel and copper which are so vital to us, and BUY VICTORY BONDS! Don't fail us now!"

I feel we may all take pride in the war job we are doing. There is no doubt that the metals we produce are sinews of victory, just as they will be pillars of peace when this bitter conflict

is ended. We may take pride, too, in our Victory Loan record; we have oversubscribed our quotas in each of the five campaigns to date. In the Fifth Loan, from INCO towns and plants in the Sudbury District and at Port Colborne, there were 12,859 applications for a total in excess of \$1,500,000.

To dwell on past successes, however, is to skate on the thin ice of complacency. Ahead lie the greatest tests of all, the hardest fighting, the deepest sacrifices. We must not fool ourselves about that.

Who among us would refuse to take our men and women of the Services in on our Suggestion Plan. Who would deny their ideas a place in our all-out war program, since our efforts aid them and certainly their efforts are for us. If the suggestion which comes to us from them is "Buy Victory Bonds! Don't fail us now!" then I believe that is the least each one of us can do, to the limit of our ability.

A handwritten signature in cursive script, which appears to read "R. L. Beattie". The signature is written in dark ink and is positioned at the bottom right of the page.



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 Don M. Dunbar, Editor
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Putting First Things First

Day after day, while we at home go our ways in safety and comfort, our kith and kin give to the utmost of their strength, their courage and their skill, that right may triumph over might, and justice over tyranny.

All that is fine and true, all the humanity in our hearts, urges us to help our men who are far from home and in daily peril of their lives.

The war in Europe has been long. Now it is approaching a crisis. To regard the struggle as being nearly over is but wishful thinking and—dangerous. The worst, the most costly battles, in blood and treasure, are yet to come.

Into the maw of war must be poured incredible quantities of weapons and supplies—replacing losses—building reserves. The cost in money is and will be terrific. The life of every Canadian on the home front is being defended on the fighting front; the help of every Canadian here is needed to help those who are there.

If you want to hasten the end of the war; if you want our boys back home; if you want the taint of human slavery eradicated from the world, root and branch, put every dollar you can into the new Victory Bonds now.

The Mystery of Creation

Albert Einstein, who knows his philosophy quite as well as he knows his mathematics, touched upon the eternal verities the other day as follows:

"The most beautiful thing we can experience is the mysterious. It is the source of all true art and science. He to whom emotion is a stranger, who can no longer pause to wonder and stand wrapped in awe, is as good as dead; his eyes are closed.

"The insight into the mystery of life, coupled though it may be with fear, has also given rise to religion. To know that what is impenetrable to us really exists,

Making Nickel Shot Spectacular Sight



One of the many shapes in which nickel is prepared for market is in the form of small pellets called Nickel Shot. This size can be melted quickly, and is convenient when a small carefully measured quantity of nickel is desired to be added for alloying. Recent demands from some of the consumers of Nickel Shot have been for a finer shot to meet certain metallurgical requirements. Ordinarily Nickel Shot of this type is produced by the stream of molten nickel from the furnace hitting a hardwood pole before falling into the water for quenching. This photo shows the production of the finer shot at Port Colborne by shattering the stream of molten nickel with a high pressure jet of water. A very high class display of fireworks is one of the results.

manifesting itself as the highest wisdom and the most radiant beauty, which our dull faculties can comprehend only in their most primitive forms—this knowledge, this feeling, is at the centre of true religiousness.

"It is enough for me to contemplate the mystery of conscious life perpetuating itself through all eternity, to reflect upon the marvellous structure of the universe which we can dimly perceive, and to try humbly to comprehend even an infinitesimal part of the intelligence manifested in Nature."

NO APOLOGY NEEDED

After seeing what Quebec Aces did to Port Arthur in the first two games of the Allan Cup finals, Frankie Graham and his Froot-Stobie Open Pit hockey team need offer no apology for losing to Quebec in the semi-finals. The Aces are just the best in Canada, that's all.

WORKERS ARE WANTED

The Copper Cliff Salvage Committee needs more workers. Anyone willing to help should contact Mrs. I. J. Simcox.

Collection of salvage will be made on Monday evenings as before, and salvage should be left on the sidewalk in front of the houses. Papers and magazines should be securely tied in bundles or packaged in cardboard cartons, and rags should also be tied in bundles. Co-operation of the citizens along these lines will make the work of the volunteers much easier.

• True patriotism lies in possessing the morale and physical stamina to perform faithfully and conscientiously the daily tasks, so that in the sum total the weakest link is the strongest.

—Madame Chiang Kai-shek

Hello Joe . . .

What Do You Know?

By F. H. LOWE, Port Colborne

Score 10 for each correct answer. Where question has more than one part, all have to be correct to score the 10 points. 100% correct—Excellent; 80% correct—Good; 50% correct—Fair. Answers in next issue of The Triangle.

1. Recently Prime Minister Churchill observed the following insignia painted on American steel helmets: "AAAA", with a line through the A's. He now knows what that stands for. Do you?
2. Only American forces were involved in the occupation of the island of Tarawa—Besides the Stars and Stripes, the flag of what other country was flown?
3. What well known six letter English words have three of the six the letter "A". (Get two to score).
4. For what good reason are most manhole covers round?
5. What would you say is the approximate average fine for auto-intoxication in your district.
6. Lambeth Palace in the City of London is the official residence of what well known British official?
7. What Ontario lake has the same name as a well known cereal?
8. What well known and famous band leader, who in a one night stand, took in over \$10,000.
9. (1) What prominent member of Premier King's cabinet was born of American parents? (2) The same for President Roosevelt's cabinet, born of Canadian parents.
10. In what sport do the most people take part?



Snappy Dances For Levack Folk

1 A gang of good-looking people having themselves a swell time was the agreeable sight which greeted the Triangle camera at Levack Employees Club one evening in April. The handsome new clubhouse, a source of real pride to the Levack people, was attractively decorated for the occasion. Lloyd Davis's committee was in charge and that guaranteed a bang-up cabaret party; members of his group are E. Hilton, J. Bryant, G. Marcon, W. Neal, and M. Corkal. The dance committee on the opposite shift, which also stages some classy affairs, is: J. A. Perham, A. Ryter, C. Paul, J. Botelho.

President of the Club is C. E. Liveley; secretary-treasurer is O. E. Penman, who can be glimpsed in the right top corner of the picture; vice-president is W. Hegler, chairman of activities J. A. Perham, and chairman of the house committee Mrs. L. Thompson.

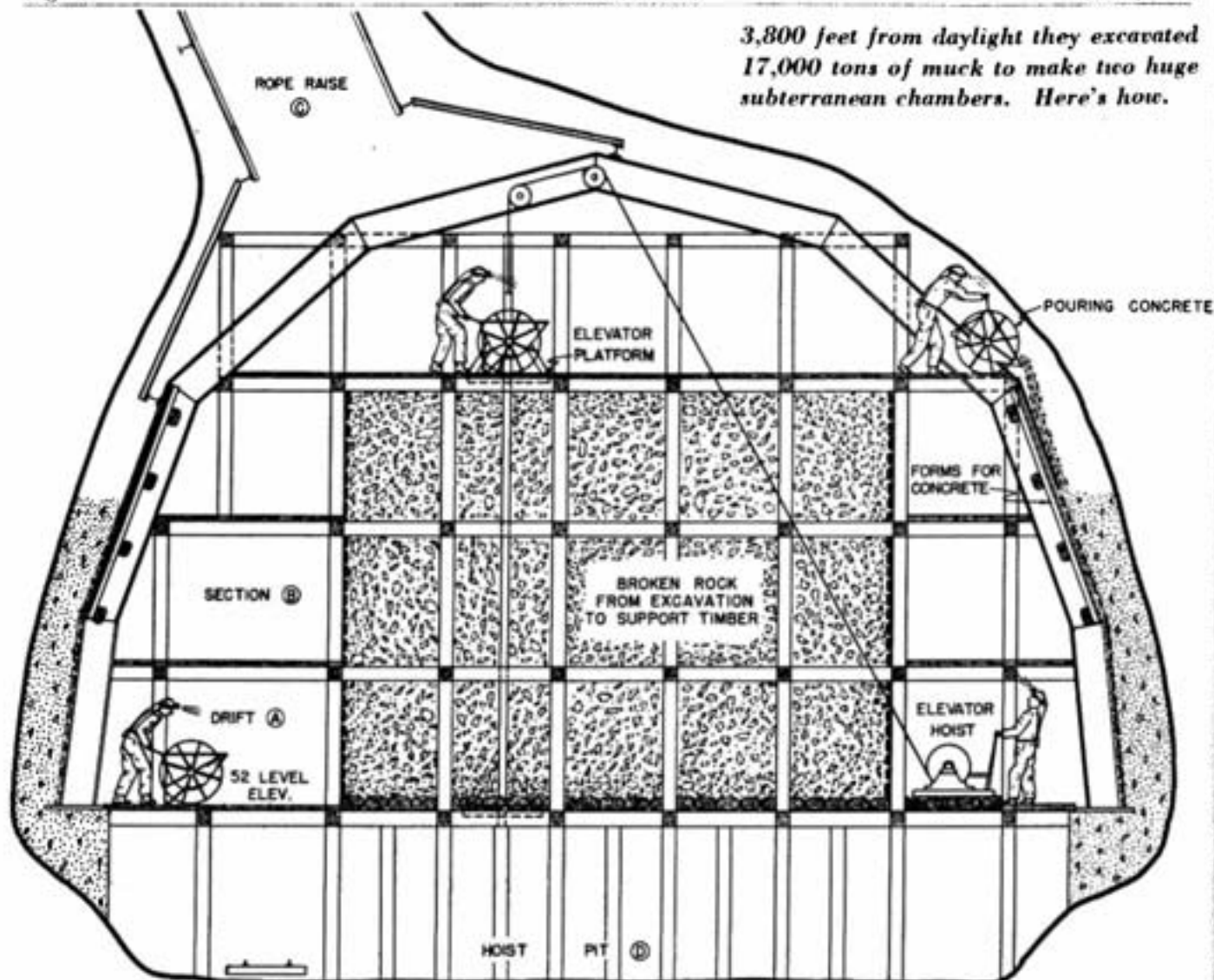
2 Walter Snider's Levack Employees Club Orchestra, dispensers de luxe of hot jive and sweet rhythm, strike a pose for the camera; left to right, Norm Hawke, drums; Jim MacCoy, trumpet; Danny Landry, sax; Alpheo Mallette, piano; Walter Snider, violin and inspiration.

3 A group of merrymakers caught by the flashgun in the smartly furnished reading room of the Club. At front left is Miss Lillian Mallette, attractive assistant stewardess, who has two brothers working for the Company at Levack and three overseas with the Canadian Army. Her father is a former INCO man.

4 At one of the cabaret tables were, left to right, C. E. Liveley, Mine Superintendent, Mrs. Stella J. Brown, Mrs. J. Wiznuk whose husband has been with INCO for 21 years, and Mrs. Liveley. Popular and highly efficient stewardess of the Club is Mrs. Brown. Members are enthusiastic in their praise of her. She came originally from Tweed, Ont., but has spent most of her life in the North at Kirkland and Sudbury.

* They who give have all things; they who withhold have nothing. —Hindu Proverb

3,800 feet from daylight they excavated 17,000 tons of muck to make two huge subterranean chambers. Here's how.



How Creighton Hoistrooms Were Dug Deep Below Surface

(By Mining Engineering Dept.)

Construction of the two large hoistrooms such as required for the new Creighton No. 6 Shaft Hoists, 3800 feet below surface, as described in the previous issue of the Triangle, present problems not ordinarily encountered in every day mining practice.

This type of work is not, however, new at INCO mines as similar installations have been made at Froid Mine No. 4 Shaft and No. 6 Shaft.

Square Set Method Used

The method used in excavating these large hoistrooms, 62 feet long, 56 feet wide and 43 feet high, embodies all necessary features to provide maximum safety to the men engaged in the work excavating the rock and then installing the steel and concrete. In this project the "square-set" method of mining was used. You miners of course are all familiar with "square-setting" but to those readers who are not familiar with it, we might say briefly that in this system skeleton timber frames or sets are stood in newly opened ground immediately after blasting and removing the rock. In this manner, the men are protected at all times from possible falls of rock. The timber installed is strong enough to withstand the shock

of blasting the succeeding round, to maintain roof and wall support against falls of rock, and also to provide a substantial working platform from which to install heavy steel beams as well as handle the concrete. The timber was so installed that space was provided for erecting the steel beams and concrete for permanent support of the walls.

The accompanying drawing shows a section through the hoistroom in the line of sets left open for the supply elevator which at this stage of construction is being used to raise concrete in the buggies. The dome shape of the room is designed to give a strong natural arch and requires minimum steel and concrete for maximum support. Wherever possible, the square sets were filled with waste rock to support the sets as mining progressed. The fill in the sets prevents collapse of the timber as blasting reaches the higher elevation.

Procedure in Excavating

The excavation of each hoistroom was started at the floor level of the final room, which was also the elevation of the 52nd level, by driving an opening, Drift "A" in drawing, along one wall of the hoistroom. Then the roof of this section, marked "B" in drawing, was mined out and preparations made for driving the rope raise, marked "C". The rope raise is the

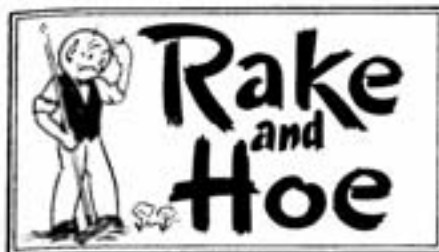
opening which permits free run of the hoisting ropes from the hoist drums to the sheave wheels at the head of the shaft and thence down to the skips or cages as the case may be.

Excavation of the hoist pit was commenced next. This was done by driving a ramp down-grade along Drift "A" to a distance 8 feet below floor level. Then a crosscut was driven for the pit width and the opening enlarged to the full size required for the pit, which will take the hoist drums as well as various accessories, pumps, and braking equipment required for the operation of the hoist. Square sets were, of course, erected as excavating progressed. The rock broken from this part of the excavation was removed by loading into Hudson type cars which were hauled up the ramp by means of a Tugger hoist.

Excavation of Main Room

Next a horizontal slice 7 feet high was mined out at the floor level for the full size of the hoistroom. The broken rock from blasting was again removed from the pit floor as previously described. As mining advanced, a floor over the pit was laid with heavy timbers with extra posting in the hoist pit. When this horizontal slice was completed, a new slice was started and procedure continued until the entire room had been mined out. In this stage, however, all the broken rock was not removed. Gob fences were nailed on the sets not required open for travelling, hoisting supplies or installing steel and concrete, and these sets were then filled with broken rock as mentioned earlier to give more support to the timbered structure. The rock

(Continued on Page 16)



(By C. A. Y.)

As this is the first of a regular series of articles we might say that this column will be largely devoted to seasonal hints on gardening.

REVIVING THE LAWN

Our first concern in the spring is the lawn. Every lawn should be raked as early in the spring as possible but not when the ground is still full of water. Raking clears out old dead grass, stones, etc., and serves to let air into the soil. We use a good straight tooth steel rake. If there are many leaves to clean up the new steel broom rakes are good.

With raking done you will be ready to do odd patching, tamping down rough areas and fertilizing. Areas that are to be patched should be well roughened with the rake, then manure or fertilizer worked in, seeded and rolled. As for fertilizing we prefer early fall application but if this hasn't been done early spring is next best. We use a straight 4-12-6 fertilizer, this being equally good for lawn or garden. Spread evenly two to three pounds for every 100 sq. ft. of lawn. If some brown spots appear it indicates burning from too much fertilizer in one place. Don't be alarmed; they will soon disappear, but do a better job next time. Rolling will help smooth the lawn and make mowing easier. If it is too dry now, roll after a good shower providing the ground is not soggy.

Remember if the grass in your lawn is thin and weedy it probably needs additional fertility. The application of either barnyard manure or fertilizer or both is the first step to be taken in the improvement of the turf.

Now that the lawn is in shape how about the perennials. All dead tops should be trimmed off the peonies and other perennials, and manure or fertilizer dug in among them, removing all grass roots etc. Care should be taken not to disturb the plant roots.

Gladioli are commencing to sprout and should receive some attention. Bulbs should be put in boxes or trays to prevent the sprouts from being damaged. To insure good bloom all bulbs should be treated for thrip before planting. This applies equally to new bulbs or your old ones.

Thrip are the tiny reddish brown insects that attack glads and prevent them from blooming. When injured by thrip the flower spikes appear but dry up before the blooms open.

TREATMENT FOR THRIP

Peel all bulbs and burn the refuse. Soak bulbs for 3 hrs. in a solution of 1 oz. corrosive sublimate to 6 gals. water at 70°F. Dissolve sublimate in a little hot water and make up to strength with cold, using earthen ware, glass or wooden container. This mixture is deadly poison and should be used with great care.

Another good treatment is to soak bulbs for 6 hrs. in solution of 4 teaspoons Lysol to 1 gal. water just before planting.

For the benefit of those who ordered nursery stock through the Company, a word of advice. If you are not prepared to plant it immediately open out a trench in a sheltered spot and completely cover the roots, packing the soil well and finish by watering thoroughly. If you only have a bush or two there is no better place than in a tub or pail of water in the cellar. In any case they should be put in their permanent location as soon as possible and thoroughly watered. Except with evergreens all nursery stock should be well pruned back when planting. Roughly about 1/3 of the top should

be cut back or thinned out to balance the roots that were lost when the shrubs were lifted at the nursery. Trees ordered through the Company are usually headed back before delivery and require no further pruning.

FERTILIZING THE GARDEN

Dig your garden when the soil crumbles readily and dig thoroughly, removing all grass roots etc. If your ground is too heavy spread those ashes you sifted last winter before digging. They will serve to loosen up the soil and sweeten it to some extent. Too many ashes will cause potatoes to scab. If you have manure it should be spread and dug in, the more the better. If no manure is available spread 2 lbs. of 4-12-16 fertilizer for every 100 sq. ft. over the garden before digging and another lb. or two before levelling down with the rake. This is the safest way to use commercial fertilizer. Fertilizer can also be put in the rows providing the seed does not come in contact with fertilizer. A good method is to take out your drills a little deeper and put the fertilizer in the bottom. Pull some soil over the fertilizer and sow. The following table will give you the amounts of fertilizer to use for each 20 running ft. of rows:

1 ample tablespoon	1 oz.
Leafy vegetables (lettuce, spinach, chard, etc.)	16 oz.
Celery, onions	12 oz.
Beans, peas, corn	10 oz.
Beets, carrots, radish	8 oz.
Rhubarb—per plant	6 oz.

We will take up the fertilizing of tomatoes, cabbage, cauliflower, broccoli etc. next issue, along with the cultivation of the growing garden.

Just remember: "Feed your garden if you want your garden to feed you."

LOAN DRIVE IS INCO-WIDE

Nordale was already over the top with \$15,000 to show against its \$10,000 quota. . . . Scobie Mine was over too with sales of \$13,000 against a \$10,000 quota. . . . Refinery was pounding down the home stretch with 86% of its \$65,000 quota and expected to reach its goal by midnight. . . . Creighton Mine had 39% of the \$157,000 it was seeking. . . . at Frood four departments had reached their sub-quotas with the rockhouse blazing the trail, and the mine's \$195,000 quota appeared in the bag. . . .

These were some of the advance returns as Triangle went to press at noon of the Saturday before the Sixth Victory Loan opened on Monday, April 24. Since that time an army of employee-salesmen, 625 in Sudbury District and 103 at Port Colborne, has stormed the financial front at all INCO plants in its sweeping offensive to raise at least \$1,360,000.

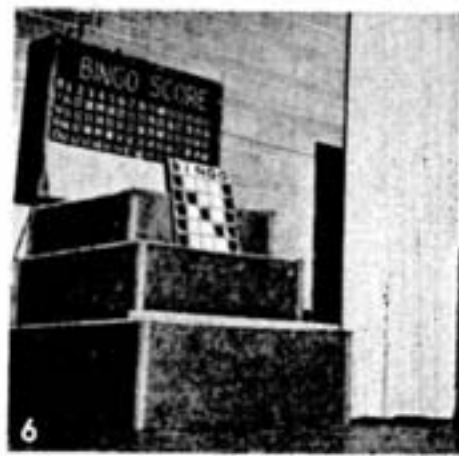
In the Fifth Loan INCO employees and residents of INCO towns in Sudbury District signed 11,369 bond applications for a total of \$1,366,750, or 113.0% of quota; at Port Colborne 1463 applications were received for a total of \$175,400, or 116.9% of quota. There is every reason to believe that the highly organized and smooth working INCO sales machine will even eclipse these splendid records in the present campaign.

Intra-plant and inter-department competition is keen and many side-bets have been placed among the salesmen and employees on the comparative showings in various sections of the Company.

"Briefing" Salesmen for Campaign



Prior to the opening of the Sixth Victory Loan, salesmen at the larger INCO plants were "briefed" for the job at specially arranged meetings. They heard an inspiring address from Lieut. Allan Kerr of H.M.S. York, Toronto, who told of some of the action he has seen in his four years with the Royal Navy and the Royal Canadian Navy in almost every theatre of war and on almost every type of ship. Then a sales instruction film was flashed on a portable movie screen, after which the salesmen were called at random to answer key questions on Victory Bond selling. Photo shows a typical meeting, this one being at the Refinery. In the front row, left to right, are Mrs. H. Duncan, matron at the Refinery and one of the enthusiastic sellers; G. S. Jarrett and E. A. Collins, respectively vice-chairman and chairman of the INCO Pay Roll Section, and Lieut. Kerr. Standing to answer one of the snap questions is Wes Hart and on his immediate left is "Fern" Francis, local Victory Loan organizer who handled the instruction period and conducted the quiz. Salesmen came out of all these pep meetings looking for customers like bloodhounds on a hot trail.





THE FAMILY ALBUM

(Copper Cliff)

"Pug" Anderson's War Effort

1 "Pug" Anderson can't qualify for the services but he can write breezy paragraphs of local gossip which are concentrates of morale for Copper Cliff boys and girls in the army, navy and air force. Monthly for three years "Pug" has been publishing his Copper Cliff Chronic, 12 mimeographed pages in which he attains the intimate personal contact with his subscribers usually reached only by the editor of a country weekly. Circulation is 500 copies and after one is mailed to every Cliffite in uniform local readers gobble up the balance at a dime a copy. Generous donations help cover publication costs. "Pug" averages a letter a day from his readers who keep him posted on their doings, and whenever they're home on leave they make a beeline for his coke counter to swap yarns and let him know how much they appreciate his war effort. Photo shows, left to right, LAC Des Morrow, son of Mr. and Mrs. Frank Morrow; Lieut. Clara Buck, daughter of Mr. and Mrs. Clarence Buck; Sub Lieut. Ross Ferguson, son of Mr. and Mrs. J. C. Ferguson, "Pug" Anderson himself, and ACI Bernie Kidd, son of James Kidd.

Copper Cliff Club Dancers

2 Although it has plenty of competition from the other INCO employees recreation centres in the district, the good old Copper Cliff Club is "tight in there" when it comes to staging a smooth dancing party, and has just wound up its 28th successful winter season. At the closing supper dance the Triangle camera focused on a group of merry-makers: on the left side of the table, Gord Clement, Margaret Elves, Wib Job, Agnes Forsythe, Bert King, Mac Forsythe, Helen King, Sandy Smith; in the foreground, Rheta Sauliol, Betty Major, Maureen Wilson.

Matrons Give Valuable Service

3 To each shift of women workers at INCO plants is assigned a matron who visits each girl at her job twice during a shift, administers First Aid, keeps an eye on time cards and clock alleys to check mistakes, and does her best to iron out any little personal problems which are brought to her. The matrons are hand-picked for their important work, perform valuable service. Here's one of them, visiting three of the girls on J Floor of the roasters at Copper Cliff. Left to right, Evelyn Doherty, Conrell helper; Mrs. Helen Irvine, matron, whose home was in Saskatoon, Sask.; Kay Pauldaro, and Ida Laalo, roaster feeders.

Tap and Henry Plan a Show

4 Vern Tupling, promoter, and Henry Dunne, matchmaker, put their heads together to plan the next boxing and wrestling card at the Sudbury Employees Club on May 17. These impresarios are largely responsible for the well balanced shows which have been drawing capacity crowds to the Club. "Tap" was at Refinery and Creighton before he became manager of the Club, is famous as tennis and hockey star; Henry is an old hand at the fight game, having promoted shows in Sudbury for 10 years before he joined the Club staff last November.

Two Veteran Hockey Stars

5 The recent Refinery shift league hockey finals found two former team mates playing against each other: Ed Belfry (Shops) and Jerome Bernard (Casting) seen in the Triangle snap pausing to exchange reminiscences in the clock alley. These veterans, who still shake a wicked skate, played for Espanola 20 years ago and bantled it out with Sudbury and the Soo for hockey honors. Ed Belfry played for the Simcoe Foreresters Army Team in 1915-16 and later for Espanola, Timmins and Hamilton. He remembers a game at Kapuskasing open air rink with the thermometer at 50 below. Jerome Bernard recalls one game in particular very well. He had skated over the clear ice from Killarney to Little Current (22 miles) to summon a doctor for a Killarney family. Hearing of a hockey game over at Espanola (and the medico duly started on his way) Jerome borrowed a team of ponies and drove to Whitefish, then pumped an Algoma Eastern handcar from there to Espanola, hopped on the ice and wound up an iron-man evening by scoring five goals before the final whistle. Fans will remember him as a star for C.I.L. in 1929-30. At the plant league semi-finals this year his two hottest supporters were his grandchildren.

New Bingo Board at Club

6 A recent addition to the Employees Club in Sudbury was an electric master board for the weekly bingo parties. Numbers are flashed on the board in lights as they are called by Fred Dodd, seated at right. The improvement is a popular one with the big crowds (average 800) which attend the bingo shows.

May's "Cook-of-the-Month"

7 Can she bake a cherry pie? Well, we didn't even ask, but we did find out that she can bake a rhubarb pie which would cause the most sophisticated gourmet in the world to swoon from sheer ecstasy. Triangle's Cook-of-the-Month for May is Mrs. Fraser Ross, whose husband is master mechanic at Frood Mine. Photo shows her in her attractive "work room", and the young man with the mid-morning cookie is her son David, aged five. Mr. and Mrs. Ross have been at Frood for the past year and a half; previously they lived at Levack for five years. Mrs. Ross was formerly Miss Ruby Griddle and was usher in the general office at Copper Cliff. They were married in 1937. And now here's the recipe for that succulent

RHUBARB CUSTARD PIE

2½ cups cut rhubarb	2 egg yolks
2 tablespoons flour	1 cup sugar
1 tablespoon melted butter	

Beat egg yolks to a thick froth; gradually add the sugar, flour and butter. Add rhubarb, cut in ½-inch pieces. Pour into uncooked pastry shell and bake like a custard pie. When baked, top with a meringue made of the egg whites.

If desired this mixture may be baked between two crusts. The stiffly beaten egg whites may also be added to the first mixture instead of using them as meringue.

Pastry: 1½ cups flour; ½ cup of shortening; ½ tsp. salt; ½ tsp. baking powder; about 1, 3 cup of cold water. This is enough pastry for a two-crust pie of average size, or one pie shell and six tarts.

Cecchetto Cops Bowling Title

8 In this Family Album shot we have a trio of bowlers enjoying a hotly contested game in the busy Levack Employees Club: left to right, Murray Cragg, Survey; Bill Neal, level boss on 1,500 level; John Bryant, shifter on 1,400 level. Spectators in the background are Lauri Tulkuu of the carpenter shop and Jim Smith, drill fitter foreman. Fay's team finished in top spot in the Levack bowling league with Cecchetto second and Mulvihill third. On the playoff Chuck Cecchetto's boys copped the honors. Tracaneli had high average of 227; Tanko had the best single game score, 344; Shallington spilled the maples for the highest triple game score, 795.

Prize Draw is Dance Feature

9 A snappy party in the INCO Employees Club on Thursday evening, April 13, spearheaded another year of activity for the hustling Refinery Athletic Association. The event was "for free" to all Association members and their ladies. Almost 500 guests danced to Gibby Gibson's orchestra, watched a smart floor show, and sat with fingers crossed while president Al Wellblund and secretary Gerry Mahon conducted a draw for \$125 in prizes. Winners were F. Sheridan, \$50; J. Carson, Casting, \$25; J. Hughes, Silver Refinery, \$15; G. Larrent, Tankhouse, \$10; E. Gauthier, Mechanical, \$5; and \$2 each to J. Mason and W. Chaloux, Silver Refinery; R. Johnson, Drill Room; A. Vanderman, P. Larocque Jr., A. J. Roy and R. Picard, Mechanical; F. Papineau and A. Gordon, Tankhouse. Photo shows P. Larocque, R. Picard, and J. Carson right after the draw with Sunshine Vera, popular dancer who pulled the winning ticket stubs. The Aldrich trophy for plant hockey was presented to Jerome Bernard and his "old crocks."

SOLEMN WARNING

Females, except those employed only in offices, shall keep their hair tightly confined in a close-fitting cap. All females shall wear clothing suitable in the interest of safety at the work in which they are engaged.

The above excerpt from the Handbook of Regulations Governing the Operating of Mines is urgently brought to the attention of all women on INCO's force. A recent survey of injuries to women workers in California industries tells why. Cruel wounds to head and scalp were traced time and again to loose hair being entangled in machines. The type of head injury varied in severity from a horrible permanent disability case of a complete scalping which removed the entire scalp from the back of the neck to the crown of the forehead.

When the Safety Department places sharp emphasis on the type of head-gear worn by women employees, it knows what it is talking about.

LAUDS MINING MEN

In a recent issue of The Northern Miner able "Dick" Pearce reported his newsmen survey of the Canadian Army in Britain on the eve of invasion, and paid special tribute to the part which the men from the mining companies are playing in preparations for the mightiest military assault in history.

Among those he was permitted by the censors to list as key men with the Royal Canadian Engineers were: Lieut. G. A. Allen, Frood; Lieut. C. F. Blair, Creighton; Capt. L. J. Brown, Frood; Lieut. E. H. Capnick, Concentrator; Lieut. F. V. Donegan, Open Pit; Major M. W. Harshaw, Refinery; Lieut. R. P. Hudson, Frood; Lieut. J. S. O'Leary, Creighton; Major A. Spy, Frood; Capt. H. M. Bunerill, Refinery; Capt. D. H. Forester, Refinery; Major J. A. Stewart, Engineering Dept.

Current and Choice

IN SUDBURY CINEMA

She's more likely to rustle a bustle than to slip into a sarong, and her greatest success has been as The Ideal Wife, but red-haired Greer Garson is tops in the movie world today. As one young soldier said in a fan letter to her recently, "You're not the girl I'd date up for a party, but, oh boy, how I'd like to come home to you!"

Greer Garson was born in County Down, Ireland, but she and her mother moved to London shortly after the death of her father. She attended the University of London and the



University of Grenoble, in France, on scholarships, while training to be a teacher. Instead she got a job with a London advertising firm. She was introduced to the manager of the Birmingham Repertory Theatre and snared a small part, chiefly because she wanted one and not on any record of performance. The acclaim of the critics did the rest. Finally she hit the jackpot in "Goodbye Mr. Chips", and has since scored in such hits as "Pride and Prejudice", "Blossoms in the Dust", "Mrs. Miniver", and "Random Harvest".

This month the great Garson comes to Sudbury in "Madame Curie". She plays the role of a Polish peasant whose interest in radium brings her in contact with the famous scientist, Pierre Curie, portrayed by New Brunswick-born Walter Pidgeon. How they love and live to conquer all obstacles in their search for radium makes a mighty film. Garson and Pidgeon are said to eclipse their splendid teamwork in "Mrs. Miniver".

Also Current and Choice in Sudbury cinema during May:

FLESH AND FANTASY: A unique plot in which are strangely interwoven the experiences of a homely woman who becomes glamorous and finds love, the would-be murderer who meets his own doom because of a clairvoyant, and the high wire artist of a circus who skirts disaster after an extraordinary dream. (Barbara Stanwyck, Charles Boyer, Edward G. Robinson, Robert Benchley.)

NORTH STAR: A great drama of Russia at peace and at war. Hailed as a fitting tribute to our heroic ally. Crammed with plenty of

eye-filing action. (Anne Baxter, Dana Andrews, Walter Huston, Walter Brennan.)

CRAZY HOUSE: Olsen and Johnson, those two incomparable zanies, storm into Hollywood and turn a motion picture studio upside down with their hysterical antics. Allan Jones, the Glenn Miller singers, Martha O'Driscoll and the Delta Rhythm boys supply vocal treats; orchestras are Count Basie and Leighton Noble; among the cut-ups is Cass Daley.

THE LODGER: A real chiller-diller based on the life of Jack the Ripper. This mysterious roomer likes his murders fast and frequent, and takes a back seat to nobody, not even our old friend Hyde, for pure unadulterated homicide. (Merle Oberon, George Sanders, Laird Cregar.)

TOP MAN: Likeable, ingratiating Donald O'Connor scores another success. The young favorite, co-starred with Susanna Foster, Lillian Gish, Richard Dix, and Peggy Ryan, appears as the energetic youngster who steps into his father's shoes and runs the family after dad joins Uncle Sam's navy. Good sequence: O'Connor enlists a gang of kids for work in a war plant.

CRY HAVOC: Margaret Sullavan, Ann Sothern, and Joan Blondell in the thick of the war... **TENDER COMRADE:** Ginger Rogers, Robert Ryan, and Ruth Hussey in a love story of a war plant girl... **COVER GIRL:** Luscious musical in technicolor with Rita Hayworth and Gene Kelly, music by Jerome Kern and lyrics by Ira Gershwin... **CROSS OF LORRAINE:** drama of the Fighting French forces with Jean Pierre Aumont, Gene Kelly, and Peter Lorre... **THE FIGHTING SEABEES:** Filmed in the moonlit tropic background of a secret Pacific naval base with romance to the tune of Tommy-guns; John Wayne, Susan Hayward, and Dennis O'Keefe... **INTERMEZZO:** Leslie Howard, Ingrid Bergman and John Halliday in a top-flight musical love story... **JACK LONDON:** with Michael O'Shea and Susan Hayward... **OLD ACQUAINTANCE:** with Bette Davis and Miriam Hopkins.

• Character is the foundation stone upon which one must build to win respect. Without character, all efforts to attain dignity are superficial, and results are sure to be disappointing. —R. C. Samuel

TWO IN THE SERVICES

Mr. and Mrs. Hughie Simpson of Creighton (Hughie has been with INCO almost continuously since 1917) have six daughters and one son, two of whom are in the services: Velma, who is stationed at No. 2 K.T.S., Toronto, and Maurice, who enlisted in 1942 and is sergeant in the R.C.A.F. overseas.



Quiz Expert Does Feature for Triangle

One day about 10 years ago the men's club of the Presbyterian Church at Port Colborne decided to stage one of those new-fangled quiz parties. President Alex McNay, now overseas in his second world war, called in Frank Lowe and turned the job over to him.

The quiz party was a success and Frank Lowe got such a kick out of it that he's been more or less in the quiz business ever since. Last year when Dr. I. Q. held a seance in Shea's Buffalo theatre, Frank came up with the right answer to a \$12.00 question and became a quiz expert of international repute. When Triangle decided to publish a regular



quiz feature and looked around for somebody to run it, Frank Lowe won in a walk. The picture shows him in his office at Port Colborne, hatching a batch of brain-boosters for Triangle readers to mull over.

In June of 1905 F. H. Lowe got his diploma from Pennsylvania State College and went straight to International Nickel Co. at Camden, N.J., becoming assistant to H. W. Walter in the electrolytic department. Later they worked together at Bayonne and then in 1922 they both came to Port Colborne, Mr. Walter as General Superintendent and Mr. Lowe as Superintendent of the electrolytic department. The plant then had a capacity of 100,000 lbs. of refined nickel per month; today its capacity is 18,000,000 lbs.

Frank Lowe has made a real hobby of the quiz game, gets lots of fun out of it, and gives generously of his time to help others enjoy it. A recognized authority, he has been invited to conduct quiz parties at many points in the district like Welland, Ridgeway, St. Catharines, Dunnville, and, of course, his own home town. To keep himself up-to-date he follows the newspapers closely, and rarely misses a radio quiz program, jotting down the sticklers that appeal most to him. He has thousands of questions and answers on file. His favorite radio program is the Quiz Kids although Information Please ranks high with him, chiefly on account of John Kieran whom he regards as the quiz daddy of them all.

He was married in 1909 at Camden to Miss Estella Lisser. When the quiz habit first became apparent in their home, he says, Mrs. Lowe looked with some suspicion on it but gradually she was converted and is now almost as enthusiastic a fan as her husband.

• Whatever you would make habitual, practice it; and if you would not make a thing habitual, do not practice it, but habituate yourself to something else. —Epictetus

• The reward of a thing well done is to have done it. —Ralph Waldo Emerson



125 More Hockey Stars Hatched In Alcott's Copper Cliff Incubator

The Midget N.H.L. of Copper Cliff, in its sixth year, roared ahead at full speed during the winter and gave hockey instruction and enjoyment to 125 boys aged from 10 to 15 years, in its 12 teams, on the artificial ice at Stanley Stadium. The League is divided into three groups, Minor Farm Teams, Farm Teams and N.H.L. Teams, through which the boys graduate as they improve or become older. This year the Bruins won the Stanley Cup, donated by R. C. Stanley, President, and the Calder Trophy was won by Syracuse of the Minor Farm Teams. A banquet and presentations will wind up the season.

Photo shows a representative group of N.H.L. players. The first four boys represent the Minor Farm Teams, the next four the Farm Teams, and the third group of four the Midget N.H.L. teams. Reading from left to right they are: N. Hall, Hershey; D. Sanchioni, Springfield; E. Canapini, Cleveland; G. Bennett, Syracuse; D. Pappin, Pittsburg; D. Nicoli, New Haven; B. Yeo, Providence; G. Shields, Ramblers; B. Hodgins, Maple Leafs; L. Sauve, Rangers; G. Tramontini, Bruins; D. Minardi, Canadiens; I. Condie, Midget All Stars; G. Heale, C. C. Juvenile Redmen.

Inset is Gordon Alcott, justly famed as one of Canada's smartest groomers of young hockey players, who spark-plugs the Copper Cliff N.H.L. League and for his work has won economies from hockey greets everywhere.

TWO HOCKEY TITLES

Midget and Juvenile hockey teams of the Nickel Belt Hockey Association gave Copper Cliff two hockey championships this year, when they won their group honors and then defeated Falconbridge, winners of the East Group, in straight games of a three-game series.

The Juveniles lost but one game all year and under the coaching of Wes. Hart appeared stronger each time out. In the finals they won at Falconbridge 3-2 and in Copper Cliff 6-4. Particularly impressive was Gordie Heale, centre ice, who starred also with the Engineers of the C.C.S.H.L.

Bill Prince in goal and Lloyd Germa on defence stood out defensively while Ernie Morelli, Derno Rondina and Mauno Kauppi supplied the scoring punch. The Cliff Midgets completely outclassed their group opposition and compiled a scoring average of 90 for to 5 against. Falconbridge in the meantime won their group championship and these two odd rivals put on a thrilling playoff series which was taken by Copper Cliff 5-2 in Falconbridge and 7-4 at Stanley Stadium.

The front line of Flynn, Cooney and McClellan, playing together for five years, scored 60 goals during the season. The goaltending duties were well looked after by Bill Organ and enemy thrusts goalward were thwarted by the stout defensive work of Ivan Condie, Specs Telford and Roger Paquette. Roy Cleland, a promising newcomer, Ray Farrell, Silvio Bettio and Joe Sauve were very effective on the attack.

ALMOST WON AT TORONTO

Having defeated Sault Ste. Marie Midgets by an 8-6 score for the Northern Ontario championship, the Cliff Midgets played off with Young Leafs of Toronto in a sudden-death game at Maple Leaf Gardens and were defeated 5-4.

The Cliffites, after a long train ride, took one period to find their sea legs and trailed 4-1 going into the last period, but they swarmed all over the Leafs and tied up the game at 4-4. With only five minutes to go a shot from deep in the corner caromed off the goalie's pads for the winning marker.

For their game display the Cliff Midgets won for themselves the admiration of the Toronto fans and the game proved that the North is producing Midget Hockey that will stand up to any in Ontario.

Tod Sloane of Falconbridge played a superb game and scored all four goals. So impressed was Hap Day that he signed Sloane to an option agreement and invited Tod to the Leaf training camp next fall. He will be farmed out to St. Mike's Juniors for seasoning. His college education, living, and spending allowances will be looked after.

Yacher Flynn and Tater McClellan caught the fancy of the crowd and their every move was vociferously applauded. Hap Day was also deeply impressed by "the little fellows".

Cyril Varney Gets Triangle

From Cyril Varney, now with the navy at Halifax, Triangle received a very welcome letter saying, in part:

"I recently received a copy of The Triangle and was very pleased to learn that it is being published again. I worked for INCO from September, 1929 until I joined the navy in February, 1942, and so I am interested in the activities of the employees at the various plants. I was particularly interested in the story of the First Aid competition for the Parker Shield, as I was on the Froid First Aid Team for five years."

MISTAKEN IDENTITY

Mrs. Jones was spending a day in bed with a severe cough, and her husband was working in the back yard, and hammering nails into some boards. Presently, his neighbour came over.

Neighbour: "How is your wife?"

Jones: "Not very well."

Neighbour: "Is that her coughin'?"

Jones: "No, you fathead, it's a hen house."

SMART WORK ON STATOR JOB

A blinding flash of light shot through the long, high-ceilinged hoist house, and at that instant the power failed. After 16 years of practically continuous service, with time out only for weekly inspections, the motor generator set on No. 3 skip hoist at Froid Mine had tired of the steady grind. The time was 4.30 p.m. on April 10.

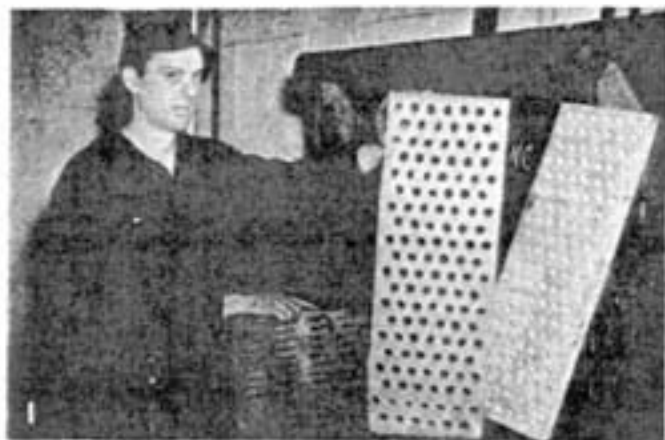
There was ample momentum in the huge flywheel to complete the hoisting cycle and then the hoist came to a stop. Within five minutes Chief Electrician Stuart McKenzie was on the scene, checked the trouble, notified Electrical Superintendent W. E. Gillespie at Copper Cliff, and sent out a rush call for a repair crew. By 7.00 o'clock they had her opened up and the damage lay before them. There had been a short circuit in the windings of the motor generator set and the stator coils were burned out.

Working 8-hour shift, 24 hours a day, in the electrical shop at Copper Cliff they did a complete rewinding job on the big stator by the following Saturday morning. At 8.15 a.m. it had been returned to Froid where a crack crew worked with clock-like precision to swing it back into position. At 10.45 a.m. they turned her over, and a few minutes later she was humming as good as new.

A repair job which might have taken six weeks if sent to a factory had been done in less than five days. It was a highly creditable showing on the part of the Electrical Department.

The shift which was underground when the power failed was brought to surface that night with comparatively little delay by the service cage, which is powered by separate equipment. During the shutdown at Froid men engaged in regular stopping operations on some of the levels were given the opportunity to transfer temporarily to Creighton Mine if they so desired.

• Choose your friends carefully, for consciously or unconsciously we imitate those with whom we associate. —Ben Easbrook



CASHING IN ON IDEAS

INCO Employees Average \$1,000 a Month in Awards Through the Suggestion Plan

Gerry Pappin, 1st class fitter in the Concentrator, had noticed how frequently the grids, or screens, had to be replaced in the launders which carry away the discharge from the rod mills. The highly abrasive discharge soon wore away the bolt heads, permitting the rubber covering on the grid to be lifted by the force of the flow and leaving the 1/4-inch steel plate unprotected from the rapid abrasion. The average life of a grid, he found by checking, was only about six months.

Gerry decided something could be done about it, figured out a better type of grid, and collected an award from the Company of \$250 in Victory Bonds for his brainwork and initiative.

At the rate of \$1000 per month INCO employees like Gerry Pappin are cashing in on the Suggestion Plan which the Company inaugurated in April of 1943. In the first year of operation the plan has drawn 4899 suggestions for methods of increasing production, improving operations, effecting labor or material savings, or reducing accident hazards. Of these 829 have been accepted and Victory Bonds or War Savings Certificates totalling more than \$11,000 have been presented to their delighted sponsors.

Under the Plan the employees are given full opportunity to express ideas and work them out with the management. All hourly rate employees and leaders, with the exception of those classed as supervisory employees such as shift bosses and foremen, are eligible for the awards. There is no ration on suggestions—an employee may submit as many as he or she wishes, and they need not necessarily apply to the department in which the employee works. Awards for accepted suggestions are based on one-sixth of the net saving which the idea will realize to the Company in a year. Minimum award is a \$5.00 War Savings Certificate and maximum is a \$1,000 Victory Bond. Biggest "jackpot" to date was that picked off by J. Whalen of Copper Cliff Concentrator, who collected \$390.00 for his "brain wave".

The suggestions, which are coming in at the rate of one for every three INCO employees in the district, show keen observation, study, and thought on the part of the workers. The percentage found to be of real value in improving plant operations is regarded as unusually high when compared to similar schemes in operation in other large industrial centres. Sudbury district workers have plenty "on the ball".

Suggestions are continuing to come in steadily and the Plan organization is eagerly waiting to go to work on the first idea to reap one of the \$1000 awards. It is emphasized, however, that no suggestion is too trivial to be overlooked, and also that any employee may submit as many ideas as he likes. Some have sent in as many as 20. Tiziano Tancredi of Coniston has "clicked" nine times for a total of \$125; Albert Tincombe of High Falls is also a nine-times winner; Osie Miller of the Concentrator has submitted 10 ideas which have been accepted.

Now the Triangle camera shows the procedure of the Suggestion Plan, taking Gerry Pappin as an example:

Gerry and His \$250 "Brain-wave"

Gerry displays one of the old-type grids (rectangular holes) and two life-size models of the new type which he suggested. He advocated using wood instead of steel plate, with circular holes which could be drilled through much more easily than the rectangular holes were burned through the steel plate. When the rubber covering on the wooden grid came loose it could be readily nailed back in place without

removing the grid from the launder, he pointed out. A trial run with one of Gerry's grids indicated it would last about a year, thus doubling the life of the grid, and the damage to the pumps from scrap steel passing through partially worn grids would consequently be decreased.

Starting Suggestion on Its Way

2 Having written out his suggestion on one of the blank forms provided for the purpose, Gerry drops it in the Suggestion Box in the Concentrator clock alley. Similar boxes are located at all mines and plants. The Efficiency Department clears them out daily and prepares the suggestions for investigation.

All Angles Carefully Checked

3 Every suggestion is exhaustively checked by the Efficiency Department before it is submitted for the consideration of the Plant Committee. In this picture Gene Bracken (right) secretary of the Plant Suggestion Committee, discusses Pappin's idea with Mechanical Department heads in the Concentrator: left to right, Bob Rogers, assistant fitter foreman; Tom Strong, fitter foreman; Evan Jones, assistant master mechanic of Concentrator and Crushing Plant.

Plant Committee in Session

4 Gerry Pappin's suggestion reaches the next stage. The Plant Suggestion Committee, meeting in Chief Engineer L. M. Sheridan's office, carefully studies all angles of the idea. The committee is composed of the plant superintendent, plant efficiency engineer, master mechanic, chief engineer, and department superintendents most intimately concerned. The committee meets every week and issues a report, listing all suggestions received and stating those accepted, rejected, or still under consideration. Appearing at this typical Plant Committee meeting were, left to right: C. W. Nute, Efficiency Engineer; J. W. Garrow, Master Mechanic of Smelters; D. Finlayson, General Superintendent of Smelters; W. E. Gillespie, Electrical Superintendent; S. A. Crandall, Asst. Chief Engineer; R. A. Ellison, Superintendent of Transportation; F. G. Murphy, Asst. General Superintendent of Smelters; Gene Bracken, Committee secretary.

Daddy Must Be Plenty Smart

5 The suggestion has been accepted and Gerry has received a letter from the Committee secretary extending congratulations and enclosing \$250 in Victory Bonds "to compensate you for your effort in bringing this to our attention." Photo shows Gerry at home, nonchalantly displaying the "swag" to his wife and their two small children, Jim and Teddy. The latter looks as if she is about to suggest an increase in her allowance, in view of the family's new-found wealth, to which her dad will reply that Victory Bonds are to be put away for a rainy day, not to be cashed in right away.

Supt. Jim Parlee Sees Results

6 Interest is general throughout the department when one of the boys cashes in on a suggestion. In this picture Gerry is showing one of his new grids in action to Mill Superintendent J. C. Parlee. Discharge from the rod mill is flowing swiftly over the new type screen in the launder.

One of Creighton's Winners

7 At Creighton Mine the grizzly rails on the rock grizzlies underground were made up of two 12"x12"x12" fir rails spaced 33" centres.

The top rail was protected by a steel shoe and the average life of such a rail was two months. As a result of a suggestion by Yuka Salo the lower 12"x12" timber has been replaced with five 65-lb. steel rails, interlocking so as to form a heavy steel beam. The top wooden grizzly rail rests on the steel rails and is protected against wear by a steel shoe as before. The combined wood and steel grizzly rail has been found much stronger than the wooden rails and the overall life of the rails has been doubled. For this suggestion Yuka Salo received an award of \$140. Photo shows him standing beside a grizzly, with some of the big chunks of rock which will have to be broken up before they can pass through.

These Frood Men Are Repeaters

8 Bob Faddis and Tony Mahon, who are both employed in the rockhouse at Frood, noticed that serious spills were sometimes caused by small pieces of ore jamming in such a way as to prevent the chute gates from closing. They suggested a method of hanging the chute gate that has eliminated these spills and an award of \$40 each has been paid them. The picture shows them perched atop an ore car beneath the chute. Bob, left, has submitted four ideas to the Suggestion Plan to date, and Tony has submitted 11.

Gas Hole Collars Are Improved

9 Six converters in Copper Cliff smelter supply gas to the neighboring plant of Canadian Industries Ltd. for the production of sulphuric acid. Slag builds up around the gas hole collars in the converters and it has to be blasted loose periodically. Usually this blasting would damage the collar and also the brick lining of the converter. Leonard Englund suggested that reinforcing plates be bolted and welded to the inner surface of the gas collar barrel. Also he suggested that the three-inch expansion space between the brickwork and the steel shell be eliminated in the gas hole area, so that the bricks would be forced against the outer shell of the converter and would tend to remain firmly in place for the duration of the converter run. The idea, now in effect, has greatly increased the life of the gas hole collars and Leonard Englund is \$275 richer for his practical thinking.

Besides rewarding an employee for interest in his work "beyond the call of duty", the Suggestion Plan enlists all INCO workers in the drive to increase production and wipe out the Axis.



THIS IS REASON ENOUGH

David Telfer is a private in the provost corps. Formerly he worked at Garson. This picture shows reason enough for his enlistment in the service of his country and freedom: his charming young wife and his son Jack Douglas, who will be two years old in June.

Copper Cliff Skating Club Maintains Its Enviably Traditions



Annual Carnival Again Fills Stadium

Despite the inroads of war upon the size of their organization and the scale of their presentations, Copper Cliff Skating Club are living up to their fine traditions. Their 1944 Carnival, on April 12, was an unqualified success and drew rounds of applause from a packed stadium. The event was sponsored by the Sudbury Lions Club and proceeds were for the British Children War Victims Fund.

Pictured above are those who took part in the Carnival: left to right, back row, Tom Gathercole, Bill Darrach, Jack Gladstone and Joe Pope (Club Professional); in middle row, L. Beaver, C. Ferguson, N. Wilson, D. Shrigley, R. Switch, J. Rittanen, G. Stone, Mary Gladstone, G. Faddick, R. Faddick, V. Acheson, D. Acheson, L. Rowe, D. Digby, Patsy Thomson, D. Fraser; bottom row, B. Rowe, A. Digby, A. Wulff, R. Lindell, J. Adams, M. Cliff, A. Paul, V. Digby, E. Mash, L. Hamilton, B. Hamilton, C. Norman, L. Harkins, H. O'Reilly, M. Simcox and those gifted and charming young soloists, Ann Aubin and Joyce Salo.

At a social evening in the Community Hall on April 19, Mayor E. A. Collins commended the skaters on their fine performance at the Carnival and presented the season's awards.

Little Patsy Ann O'Brien, of Frood, who has opened all the carnivals held in Copper Cliff with the exception of this year, having been confined to bed for the past year, was awarded a plaque and an autographed program of the 1944 carnival on behalf of the members. Holders of bronze medals include: Betty Gathercole, Dorothy Digby, Patsy Thomson, Lorraine Rowe, Ann Aubin, Amelia Falconi and Joyce Salo. Holders of the senior dance club championship are Mr. and Mrs. McFarlane, with Mr. and Mrs. Jack Gladstone runners-up, while Tom Gathercole is junior boys' champion. Mr. Collins warmly commended the new instructor Joseph Pope, for the fine work he accomplished in the short time associated with the club and hoped he would be available to the club next season. A gift to Mrs. D. Rowe and Mrs. D. Aubin was made on behalf of the members for the assistance the two ladies had given throughout the year with their work and costumes.

• The greatest friend of truth is time; her greatest enemy is prejudice.
—The Cheerful Loner

• Get the facts, or the facts will get you. And when you get 'em, get 'em right or they will get you wrong.
—Carlton P. Fuller

IF WE FAIL

And if our lines should form, then break
Because of things you failed to make;
The extra gun or ship or plane
For which we waited—all in vain,
Will you then come and take the blame
For those supplies that never came?
For we, not you, will pay the cost
Of battles you, not we, have lost.

(These lines of poetry were found on the body of a Marine, somewhere in the Far East.)

Frank Taylor Got His Copy

Pleased at the reappearance of an old friend, The Triangle, Frank Taylor wrote from Port Hope to say this newspaper is to him a happy link with the INCO people still on the job.

After almost 39 years' service with INCO, during which his name became synonymous with sport and good fellowship in Copper Cliff, Frank Taylor retired on pension in Nov. 1940.

Refinery Champs Senior Plant Hockey

There was plenty of excitement every Monday night during the winter at Sealey Stadium when doubleheaders were played by teams of the Copper Cliff Senior Hockey League. In its first year of operation this league proved highly successful and the games were closely contested and well attended. The league was comprised of six teams, Engineers, Refinery, Concentrator, Smelter, Boiler Shop and Vaticans, and they finished in that order.

In the playoffs, Engineers eliminated Concentrator and Refinery defeated Smelter. In the finals which went the five game limit Refinery emerged the winners and champions. The league ran through a regular schedule of 30 games and a playoff series of 11 games, making a total of 41 games in all. Jim Dewey of the Engineers won the league scoring championship, followed closely by Gino Zuliani, Eddie Panke and Nap Carriere. Albert Tomorri, also of the Engineers won goal keeping honors and Toby Armitage of the Concentrator was the high scoring defenceman.

Some of the team stalwarts were: Engineers—Dewey, Hashey, DeMarco and Johnston; Refinery—Hart, Marshall, Fletcher and Jennings; Concentrator—Carriere, Armitage, Kalapack, and Edwards; Smelter—Zuliani, Newell, Panke and Gladstone; Boiler Shop—Wallace, McCarthy, Lafrance and Venturi; Vaticans—Prince, Morelli, Basso and Travaglini.

Used Plane 'Prop' Like a Buzz Saw

One of the most thrilling stories of aerial combat to date was told recently in a despatch from the South Pacific. It related how a young pilot, his ammunition gone, used the hollow steel blades of his P-40's propeller like a buzz saw to drive off five Jap Zeros which were attacking U.S. Navy dive bombers.

The pilot, according to the report, kept diving at the Zeros. His daring acrobatics shattered the nerves of the Jap pilots and they high-tailed in their damaged planes like frightened puppies. The bombers completed their mission and returned safely to base. So did the P-40 and its pilot.

The record does not indicate to what extent the sword-like blades unashed the Zeros, but it did indicate the ability of the alloy blades to take punishment as well as the importance of the modern propellers to present-day aerial combat. They are sharing as great a portion of the drive for victory as the planes themselves, though seldom dramatized in the news as they were by these "buzz saw" tactics, which by the way, are not recommended for normal purposes.

The Curtiss-Wright Propeller Division, one of the largest producers in its field, was one of the pioneers in the development of hollow steel, electrically-controlled, constant-speed, full-feathering propellers which are flying fighting craft over every battle front.

Hollow steel blade production methods used in Curtiss propeller plants have attracted widespread attention throughout the aircraft industry. From the very first operation to final crating for shipment to battle areas, every Curtiss blade and propeller assembly goes through a series of intensive X-ray and magnaflex examinations and balance checks which leaves nothing to chance.

Being hollow, the alloy steel blades are light in weight and do not suffer in comparison with the solid blades of lighter alloys in this respect. They have great strength and high resistance to erosion and thus can withstand sand, dirt and other air-borne impurities especially destructive at high speeds.

Another advantage of steel blades—they can be made larger because of their higher strength.

Curtiss hollow blades are constructed of two plates of S.A.E. 4330, nickel-chromium-molybdenum steel, containing 1.65 to 2 per cent. nickel joined together by atomic-hydrogen welding.

FINE SAFETY RECORD AT FROOD-STOBIE OPEN PIT



The boys out at Frood-Stobie Open Pit do things in a big way.

Foreman Bill Young's shift, pictured above, has built up a nice safety record and is still going strong. To April 11 Bill's shift had gone 476 days without a lost-time accident. This is no flash in the pan for Bill and his men; shift boss Lige Beaver and his boys have chalked up 719 days.

Four of the shift bosses are seen in the front row at the left: Lindsay Hodgins, Lige Beaver, Jack Morrison, and Henry Poitras. At the right in the front row are Foreman Bill Young and Safety Engineer Bob Murray.

The picture was taken during the lunch hour in the classy new blasting shelter at Frood.

Operating an open pit safely in northern climates is a real accomplishment and Supt. Cliff Stewart and his crew are to be commended for their fine showing during 1943 when they lost only by a nose to Frood in the race to have the best mine safety record.

Safe plants are possible only when every man tries hard to keep his own job in order. Don't leave safety to the other fellow. Accidents can happen to any of us, and will happen if we drop our guard. Our motto should be to work safely ourselves and help others to do the same.

RECIPE FOR VICTORY

Walter Winchell said in a recent broadcast:

"In the smoke and shock of battle Hitler's regiments have learned a fearful identification. If a soldier attacks like an Anzac, holds like a Guardsman and fights like a Texan, his regiment is Canadian."



(By The INCO Medical Department)

Summer is at hand. Children and adults require the stimulating and healing effects of sunshine and fresh air.

Growing boys and girls utilize the ultra-violet rays of the sun as an agent in the proper formation of new bone. It replaces the cod liver oil that is so necessary in our winter months. The calcium necessary is provided in that daily quart of milk and other foods but it cannot be properly utilized without the use of sunshine or the vitamins provided artificially. The body has the ability to store sunshine for the months in which we do not get adequate amounts.

Do not become too enthusiastic and try to obtain a summer's ration in one or two days as very serious burns can result from over-exposure.

Your Medical Officer of Health protects your municipal water and milk supply for you.

Many serious diseases are carried by water and milk. If you drink water that has not been checked bacteriologically it may be contaminated by the bacteria that cause typhoid fever. The danger is greatest when the spring rains are washing the surface debris from the winter into wells and rivers. Generally speaking, water from a lake is much safer than the cool, bubbling brook,—the sunshine has had a chance to get in its sterilizing action.

Unless a herd of cows is under constant inspection and regularly "tuberculin tested" the

milk may prove to be the carrier of the organisms of tuberculosis. Far too many cases of bovine tuberculosis are still occurring from infected milk. Clean milk, properly pasteurized, is your protection. Incidentally, pasteurization can be performed at home if only raw milk is available.

What health topics of general interest would you like to have discussed in this column? Send your suggestions in to the editor of *The Triangle*.

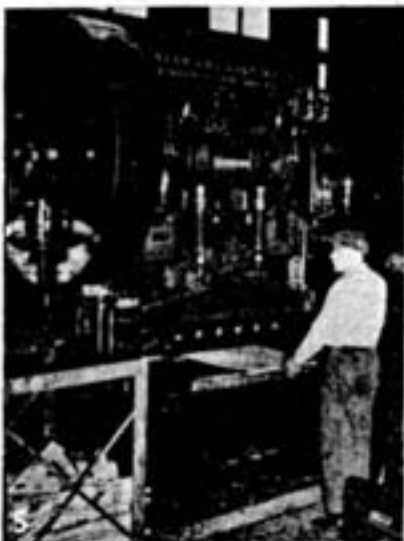
• The mind unlearns with difficulty what has been long impressed on it. —Seneca

ALL FOR ONE, ONE FOR ALL

Three services of Canada's war effort are represented by the Flowers boys of Copper Cliff. Left to right: Frank, a pilot officer in the R.C. A.F., who enlisted in November of 1942 as soon as he was through High School and is now



stationed at Pearce, Alta.; Jack, formerly an apprentice in the INCO electrical department, now a sergeant in the tank corps at Camp Borden, has been in the army for three years; Wally, formerly INCO machine shop apprentice, now petty officer on HMCS Brantford, on convoy duty out of Halifax, who enlisted three years ago. The picture was made last summer when they were all home on leave. Their proud parents are Mr. and Mrs. Art Flowers and their dad is foreman in the electrical shop winding department.



THE FAMILY ALBUM

(Part Colborne)

Spring Dance Winds up Season

1 More than 200 merry-makers got plus value for their ducats at the annual Spring Dance in the Recreation Club on Friday, April 14. Photo shows a section of the happy crowd. Justly famed throughout the countryside for the artistry of its decorative effects on all special occasions, the Club really did itself proud for the Spring party, and the revel of bright color was too big a challenge for Triangle's black and white film.

Have Had Classy Orchestras

2 Bill Thompson and the celebrated Red Jackets, who made such a hit with the Club members at the St. Patrick's Dance on the Sixteenth of Oireland, once again dished up a satisfying musical menu, and are seen here in action. The Spring affair wound up formal dances at the Club until next fall after a most successful season which has been a great credit to Murray Scott and his entertainment committee. Parties, orchestras, and attendances we have enjoyed since November 30 have been: Fall Dance, Whelan of Welland, 126; New Year's Eve, Murray Morton of St. Kits, 605; Victory Parade after the Coca Cola broadcast on Jan. 24, Matt Kenny of Toronto, 555; St. Valentine, Feb. 16, Murray Morton, 298; Old Time, Feb. 28, Abbie Andrews and his Ranch Boys of CKTB, 348; St. Patrick, March 17, Red Jackets, 295; Old Time, March 27, Abbie Andrews of St. Kits, 317.

Bridge Experts Pose for Camera

3 The men's Duplicate Bridge group have completed their fourth successful season, with Elery Neff and Frank Gallinger Jr. repeating for the fourth time on the winning team-of-four (Mr. Culbertson and Mr. Jacoby please note), teamed this year with "Pep" Roe and Cameron Dix. In an interesting race Durbin Nixon and Dennis Green staged a strong spurt at the last session to nose out that crafty pair of finessers, F. H. Lymburner and Wilf Cook, for the pairs championship. Triangle's picture shows, left to right: seated, Frank Gallinger Jr., Cameron Dixon, Elery Neff, Preston Roe Jr.; standing, Dennis Green, Durbin Nixon, Gordon Needham, Gordon Graham, Jess Stickles, George Tilson.

Three Couples Sit One Out

4 Three attractive couples from the big crowd at the Spring Dance were caught by Triangle's flash gun as they sat one out. Left to right they are: LAC and Mrs. Alex Gillespie (formerly with INCO, Alex is now in the air force and is stationed at Aylmer); Mr. and Mrs. Austin Force (Austin works in No. 5 Building); Mr. and Mrs. Allan Johnson (Allan is a former INCO man who still thinks the Recreation Club parties are tops).

Manicuring Nickel Cathodes

5 Andy Stekls presides at the big electric cutter in the new warehouse, slicing up finished nickel cathodes into various sizes for shipment. The cutter, which weighs only 31½ tons, is one of five such machines in use at Port Colborne. Its blade knives through the tough 150-lb. cathodes like cheese. Andy has been on the Company payroll since 1928. Three years after he joined INCO he was married to Miss Julienne Zls of Port Colborne and they have three children of whom the oldest is 12.

Anodes Weigh 500 lbs. Apiece

6 Here's a scene in No. 4 Building. Fred Sader, for 17 years an INCO man and the proud dad of a family of 10, is raising anodes from a casting wheel. An anode weighs about 500 lbs. and can be a very nasty customer unless handled with care. Note the small hand bar which Fred uses when turning the anode around while swinging it over to the truck with his air hoist. One man neglected to use his hand bar and had half his thumb nipped off. Fortunately such accidents are rare, but they happen often enough to emphasize the wisdom of working carefully and safely at all times.

Was Bravery Medal Winner

7 Lance Martin, who has been seven years with INCO, is seen at work in the leaching department where he is a crusherman. The wheel barrow is loaded with nickel matte which has arrived from the smelter at Copper Cliff and is about to start its long journey through the refinery from which it will emerge in considerably reduced form as pure nickel. First it goes through the crushers, into which Lance is about to dump it, and then it is ground to a powder in the ball mills. The barrow of matte weighs about 1,200 lbs. Lance, who has been married for 25 years, has a family of seven. Two of his sons are in the army, one overseas and one at St. John, N.B. Back in December of 1937 Lance was one of seven INCO employees at Port Colborne who won the Mining Institute's coveted Medal for Bravery by rescuing fellow workers who were overcome by gas in the pump pit. The bravery medals were presented at the annual meeting of the Institute in Toronto the following April. Others who received the award, which is known as the "Victoria Cross of Mining" were Charles Start, Ed. Rogers, Harold Beck, Walter Salach, Joseph Frankow, and Donald Randall.

Mixed Bowling League Success

8 The Mixed Bowling League finished another very successful year's activities when they held their playoff on April 12. The winning team was composed of Mr. and Mrs. W. Wincoff and Mr. and Mrs. H. Haun, (seated) and the runners up were Mr. and Mrs. J. Emburgh and Mr. and Mrs. J. Stickles (standing). The members of this league are all enthusiastic bowlers and they also keep up a friendly social side to their organization. During the past season they held two dinner dances at Rathfon Inn which were well attended and thoroughly enjoyed by everyone.

The teams all consist of husbands and wives and the great majority of the ladies are holding down jobs at the Nickel Plant, in many cases working alongside their husbands. As well as taking part in the bowling and working their shifts, quite a few of them are regular members of the Blood Clinic. The enthusiasm of this group of bowlers can be judged by the fact that during the whole winter only two games were not played as scheduled; they had to be postponed due to sickness. All other games were played on schedule and on time. This league has operated ever since the opening of the Recreation Club seven years ago under the capable leadership of James Emburgh whose only complaint is that there are not more people taking part.

The 5 Pin League wound up this year's tournament on April 27 with the following teams

taking part in the playoffs: Electro, Basement, No. 4 Bldg. and Pipe Shop. During the winter this League has operated under the supervision of Percy Kettle, who is one of the most enthusiastic five-pin bowlers on the Plant. He complains a little about the reduced number of bowlers taking part this year, but thinks the gasoline shortage is the main reason. The competition between those who have taken part has been as keen as ever, and he looks for better and larger entries next-winter.

Popular Carpenter Shop Worker

9 Holding down a wartime job in the INCO carpenter shop since November of 1942, Mrs. Vera Welch is an efficient and popular worker. She has been married since 1926 and her husband is employed at the Maple Leaf Milling Co. The Triangle camera here shows her grooving the wooden strips which are fastened to the edges of the starting blanks in the electrolytic department. The strips make it easier to peel off the thin sheets of nickel which are plated on the blanks. It is these thin nickel sheets which are placed in the electrolytic tanks to be built up into cathodes.

Happy INCO Family at Home

10 Many INCO workers own their own homes but none is prouder of his little private castle than John Koszyo, seen here with his wife and their two bright young daughters, Elizabeth, 12, who is in first year at High School, and Margaret, 4, in their very attractive house at 360 Sugarloaf St. Except for a couple of months in 1932 when the plant was working with a reduced force, John has worked steadily for INCO since July 22, 1926. He started as a mechanical laborer and in December of 1926 was transferred to No. 4 Building where he is now in charge of an anode furnace.



NOW IN SAN FRANCISCO

Dan Ryan, foreman in the calcining department at Port Colborne, is the dad of this handsome young U. S. army man, Lieut. Bill Ryan, now stationed at San Francisco, formerly an INCO employee, who enlisted in April of 1942. Bill came to Port Colborne with his parents in 1922 and grew up to be a keen devotee of hockey and baseball. His father has been with INCO for more than 30 years, starting at Bayonne, N.J. One of Bill's chums was Archie Ferguson, whose picture appears elsewhere in this issue.

• Joy can be real only if people look upon their life as a service and have a definite object in life outside themselves and their personal happiness. —Talsani

Jack Clark is Now on Pension

John Reekie Clark came out from his native Scotland in 1913 to spend six months in Canada and see what the New World was like. Except for a couple of holidays trips back to the auld sod he's been here ever since.

On April 29 he retired on the pension which an INCO trust fund provided as a reward for



faithful and conscientious service. He owns his own home on Poplar St. and enjoys tinkering around it, he has three grandchildren to keep him hopping, he likes growing gladioli, and he'll take the odd trip on the Great Lakes. Further than that, being a canny Scot, he'll give no hint of the future, but that he will be happy and comfortable with his good wife in the evening years of their lives there is no doubt.

Born in Fifeshire on August 9, 1876, Jack Clark was the son of a railwayman who helped build both the big bridges over the River Tay, saw one of them destroyed in 1879 by an electric storm while a train from Edinburgh was crossing over it, and was killed in a railroad accident in 1885. Young Jack, nine years old, took part time work on a farm while he was going to school and then went farming steadily until he was 14 when he started serving his trade as a carpenter at St. Andrews. At 20 he had finished his apprenticeship, went to Dundee to work at his trade.

When he came to Canada in 1913 he went straight west to Saskatoon, found no work there and returned to Sudbury. He arrived in the nickel city at 7.30 in the evening and was at work next morning. These Scots lose no time. His first employer was Bill Tanner, a contractor. In 1916 he signed on as a carpenter with the Canadian Copper Co., although he had already had considerable experience in Copper Cliff, helping to build the present general office, the hospital, and houses on School and Park streets, as an employee of Henderson and Angus.

After serving 18 months in 1919-1920 with British America Nickel Co. at Murray Mine,

Jack returned to Copper Cliff when the B. A. closed down, and has been on the carpenter shop staff since that time.

He was married in 1900 in Glasgow to Miss Margaret Hunter and they have four sons: Robert, a sergeant major in the tank corps at Camp Borden; Francis, owner of a meat market in Copper Cliff; Jack, fitter foreman on the copper converters in the smelter; Richard, for the past two years in the Canadian navy, who recently had seven days' leave in Scotland and visited the family's relatives.

Mr. and Mrs. Clark have made a couple of trips back to Scotland. They were in the auld land when Germany invaded Poland. It's nice to go back for a visit, they think, but they prefer Canada as a home.

Until football seemed to die a natural death in the district five or six years ago, Jack was an inveterate soccer fan and rarely missed a game. He used to like his winter seasons w' besom an' stane, too, but in recent years has retired from the roarin' game.

In 1928 he lost a thumb in a shop accident and four years ago a 16 ft. 2 x 2 dropped 85 feet in the converter building and nipped off three of his toes, but apart from that he's almost as good as new.

May he enjoy many years of slipped ease and contentment in his retirement.

Creighton Boy Writes Editor

Halifax, N.S.,
April 21, 1944.

Dear Editor:

I had a very pleasant surprise yesterday when I received a copy of "Triangle" sent to me by my father. I have read the paper over thoroughly and found every article of great interest to me, and I am sure that all ex-INCO employees who have read your April issue will agree with me, especially the boys overseas.

I spent two years as an INCO employee previous to my enlistment, working as an apprentice at the Creighton Machine Shop.

I found the article on the new Creighton hoist of most interest as I spent the odd day helping to install it.

I am hoping that I will receive more of your issues in future months. You may like to know that I deposited your April issue in the Naval Library, where I am sure it will be greatly appreciated by all who read it.

Yours truly,
A. C. Blackwell (E.R.A.)

When you have finished reading your issue of the "Triangle" mail it to a relative or a friend in the Service.

MORE ABOUT Hoistrooms

(Continued from Page 4)

not required for fill was loaded into cars from temporary chutes and hauled out.

Installing Steel

With the excavation completed, concrete piers to support the 12 heavy steel arches were then poured and steel work erected. Forms were then built for the concrete walls and pouring commenced. The concrete for the walls was handled as shown in the drawing where pouring has reached the last stage. The roof and walls above the last floor were filled by means of a

concrete blower which uses compressed air to blow the concrete into place. Concrete for all this work was mixed on 52 level, loaded into carts, wheeled through open travelways to elevators, hoisted to any elevation and dumped wherever required.

Installing Crane

Before removing the timber and fill, the crane for lifting heavy hoist parts was also installed. The timber and fill were then removed, floor, hoist pit and foundations poured and the hoistroom ready for the mechanics to erect the hoist which was described in the April issue of the Triangle.

* To be patient in little things, to be tolerant in large affairs, to be happy in the midst of petty cares and monotony—that is wisdom.

—Joseph Fort Newton

* The mass of men worry themselves into nameless graves, while here and there a great unselfish hero forgets himself into immortality.

—Ralph Waldo Emerson



AT LEVACK DANCE

Pte. James France was home on leave and he and Mrs. France (top) were among the happy crowd at the Easter Monday dance at Levack Employees Club, as were Mr. and Mrs. Casey Jones (bottom).