

# INCO TRIANGLE

VOLUME 7

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NUMBER 11



MINE RESCUE PRACTICE, UNDERGROUND AT FROOD



Published for all employees of The International Nickel Company of Canada, Limited.

Don M. Dunbar, Editor

EDITORIAL OFFICE COPPER CLIFF, ONT.

VOLUME 2 FEBRUARY, 1948 NUMBER 11

## HOW IS YOUR BRAIN-POWER?

Addressing his letter to "Editor, Screwball Column, Inco Triangle," a Levack reader, whose name we mercifully withhold, wrote on January 1: "Your problem is so simple this month you oughter be ashamed. The solution is impossible by using the balance only twice unless you cheat a little, as the enclosed solution shows."

Brother Levack, prepare to eat them thar harsh words. Hearken to the following from E. H. Capstick of the Concentrator: "Take any six of the seven balls and put three on each pan of the balance. If they weigh the same the odd ball is the light one. If they weigh differently take the three balls of the lighter side and put any two of them on the pans. If they weigh the same the odd ball is lightest. If they weigh differently, the lighter one is lighter." See the light?

Ted Dauchy of New York was another reader who opined that January's riddle was kindergarten stuff, but unlike Brother Levack he sent in the right answer. Ted liked the December division problem because it looked impossible but dissolved fast. The problem of the 4's, published in November, he rated as a toughie.

Others who knocked off the January item in short order were R. Pageau of the Orford Department, Bern Irvine of Smelter Research (who says to throw the light ball away because it was just a lot of trouble and worry in the first place, and then make book-ends out of the other six), Phil Flewelling of the Police, Bill Beckett of Copper Cliff Electrical, Jack Anderson of Engineering, Myros Kmetsa of Frood, and Joe Laflair of Levack Carpenter Shop.

Replies to the December problem which came in too late for acknowledgment were from Bob Atherley of Creighton, R. J. Edwards of Frood Mechanical, Harold Scholtes of New York Accounting, J. R. Lewis of Garson (an Australian miner abroad), and Dr. R. B. Harris of Port Perry. Nice to hear from all of you and especially "Doc" Harris.

For the next few issues, just to see how it works, we're going to send our problems out in pairs—one tame one and one tough one each month.

### TAMIE

If a butcher weighs 212 lbs. standing on one foot, what does he weigh standing on two feet?

### TOUGHIE

Scrutinize carefully the five equal squares of matches below:



The problem is to form FOUR equal



## "Home Never Like This" Groan Cliff Wives, After Sweeping Lesson

When it comes to operating a broom, there's a vast difference between whisking off the parlor rug and coaxing a lazy curling stone over the hogline. This fact of life is being learned the hard way by Copper Cliff ladies who are being initiated into the unfathomable vagaries, physical agonies, and emotional ecstasies of the roarin' game.

When 24 gals from Capreol came down on Jan. 21 for a neighborly visit, it was just the second time on the ice for most of the Cliff curlers, and the scoreboard performed accordingly. After the matches some of the Capreol experts demonstrated fine points of the noble art, as in the above picture. Mrs. Mabel McKinnon and her sister, Mrs. John-

son, showed how to react when the skip roars: "Never leave 'er!" and the few males who happened to be on the sidelines gaped in astonished admiration. The ladies taking the sweeping lesson, left to right, were Mrs. A. Brey Wright, a Capreol player, Mrs. A. O. McLean, Mrs. Bob Bell, Mrs. Charlie Byers, and Mrs. Alvin Nickle.

Wednesday afternoons for sure, and any other afternoon when there's free ice, the ladies are welcome at the Cliff Curling Club. The initial group of about 25 which was rounded up by Fern Toppazzini, Lila Brownlee, and Mrs. Bob Bell to get things going will probably be doubled in size within a couple of weeks.

squares, using the same number of matches, by changing the position of only two matches.

## Power Saving Is a "Must" These Days

Inco employees on the job and also in their homes can assist very materially in conserving electric power.

In an inter-department memo Vice-President R. L. Beattie says, "Owing to the overall shortage of hydro-electric power in the province of Ontario, it is most important that this Company's consumption be curtailed to the lowest possible minimum."

"Particular attention should be given to the unnecessary use of air caused by leaking joints, valves, etc., the improper use of high pressure air for ventilating purposes, and the consumption of power for blowers, air compressors, conveyors, heaters, and artificial lighting.

"We are faced with a growing need for electric power, and only by confining its use to bare essentials can we hope to get sufficient to operate plants at desired capacity."

The co-operation of employees, both at work and at home, will give a real boost to this very important conservation program, the success of which should be everyone's concern.

## Mine Rescue Teams In Front Cover Shot

The Triangle camera went underground to get the picture for this month's front cover. It shows two of Frood's eight Mine Rescue teams, listening intently while Supt. George McPhail of the provincial government's Mine Rescue station explains how to operate a fog nozzle.

Following the demonstration the teams donned their McCaa oxygen-breathing apparatus and made short work of an oil fire in a practice session. We tried to get a picture of that too but our flash bulbs got lost in the smoke or something, and so very nearly did we, egad.

The Mine Rescue teams pictured in the cover shot are No. 5 and No. 6, and are captained by George Robinson and Jerry Lemieux. Other members are Andy Salmi, Herman Buhr, Bill Hertlein, T. Tobin, Vic Laporte, Joe Witty, Gordon Burmaster, Orville Graham, Ed. O'Callaghan, and Ray Dennis.

Each Mine Rescue team in the district has a full day's workout with equipment every three months, spending the morning underground on two practical problems of mine rescue work; the afternoon is devoted to a discussion of the problems and a lecture.



## JAKE MacNEILL WINS \$10 WITH YUKON SCENE

To R. J. (Jake) MacNeill of the Geological Department at Copper Cliff goes the \$10.00 award for first place in Triangle's January picture contest.

This ten bucks, Jake tells us, will come in very handy to purchase a pair of skis for his son Donald, who was born on December 22 and has been burning up plenty ever since they brought him home from the hospital, because the other kids in the neighborhood have skis but all he has for exercise are his lungs.

Jake took the prize-winning pic in 1945 while he was spying on the rocks in the Yukon with an Inco geological field party. The scene is just east of Carcross, about 50 miles south of Whitehorse.

"That snap of the two youngsters in the bathtub in the December issue wasn't bad, not bad at all," concedes Ted Dash of Stobie, "but when you get a picture of a 10-month-old baby playing the piano, isn't that really something?"

### We Had To Use Force

Famous for his extreme modesty and his unwillingness to discuss his family, Ted had to have his arm twisted by three strong men before he would admit that he was not only the fellow who took the picture but also the pappy of the lovely child. The young lady with the Iturbide inclinations is his bright young daughter Margery, and into her piggy bank goes a shining silver dollar for first honorable mention in last month's lens derby.

The second \$10.00 award was carried off by Mrs. C. W. Coe of Copper Cliff, who submitted a fine snap taken last summer while on vacation at Banff. There's good photography as well as top-notch subject material in this shot of the two attractive young people and their scenic background. The husky lad is



Bill Coe, 15, who attends Copper Cliff High School, and the good-looking gal is his sister Betty, 19, who is studying physio-therapy at the University of Toronto. Please though, Mrs. Coe, on behalf of our readers may we ask that the next time you look through that view-finder, get less Bill and more Betty.

### In The Good Old Days

Special mention should be made of an entry from Bill Hnidan of the Concentrator. While his picture of two horses didn't quite make the money, his letter will have nostalgic appeal to many. Bill wrote:

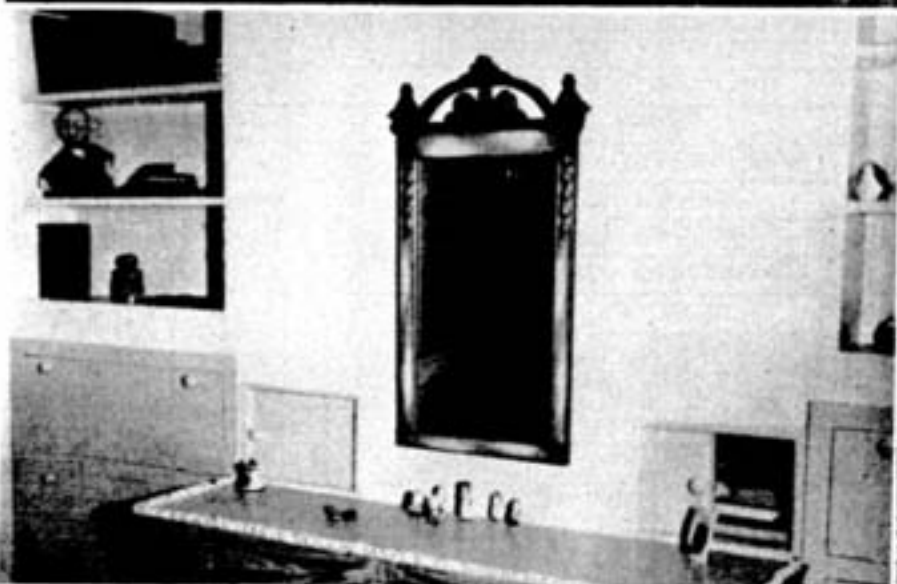
"When I was at home (Alberta) last fall on my holidays, I saw these two old faithful mares in the pasture so I just 'snuk' up on them with the camera. Their names are Nell and Dolly. Nell is the blonde.

"Faithful Nell saw me safely to the little red schoolhouse through many western blizzards, and now she is enjoying a well-deserved rest. Her old side-kick, Dolly, besides having turned many a straight furrow, had a remarkable sense of direction, and I owe her a debt of gratitude for the way she used to head unerringly for home after those good old all-night western hoe-down sessions while I was dead to the world in the driver's seat."



By the way, camera fans, the mail for this department has been powerful light of late. Don't tell us we've got to put on our sulking act again to pry some pix out of you. Come on, send in those snaps and convince us that "Life Can Be Beautiful".

You'll find that if you're too far ahead of the procession you're just as much alone as though you were way behind it.



## Cost Them \$68 to Give Their Home Entire "New Look"

The contractor gave them an estimate of \$500 for doing the place over. You never knew, he pointed out, how much grief you might run into when you tackled a job in an old building like that. So it would be at least \$500, probably a good deal more.

To Al Stoddart and his wife Jean, \$500 seemed like quite a bundle of lettuce, even before lettuce stepped up there alongside orchids. They decided to go solo on the deal — take a crack at it by themselves.

They had done the average bit of puttering and fixing around the house but, once they got up to their knees in the construction business, they made the Babes in the Woods look like a couple of wise old forest rangers.

It was an ancient building all right, like the contractor said. Actually it was one of the first log houses in Copper Cliff, built more than 60 years ago on Charn Belle Road about halfway up the hill.

Al and Jean drew up some plans of what



they thought they wanted. These plans were drawn in pencil so they could be changed from day to day, or from hour to hour, or even from minute to minute. Al and Jean think architects make a great mistake in

drawing plans in pen and ink, leaving no leeway as the job progresses for inspiration, imagination, errors, market fluctuations, or acts of God.

When they decided, nonchalantly enough, to enlarge the sitting room by knocking out a couple of partitions, Al and Jean didn't reckon on the vision of the pioneers who put the place together. Those solid log partitions were built to last, come hell, high water, or atomic bombs, and several times Al thought he might have to use dynamite to get them out of the way. When it came to plastering, he and Jean ran smack-dab into another complication — they discovered that in the course of 60 years the walls had received no less than 21 new coats of wall-paper, each coat applied with an old-fashioned mixture of Triple-Lifetime Cement and Eternity Glue.

But they persevered, taking their time and enjoying a warm glow of pride and satisfaction as skill came to their hands and the project took shape before them. Out of their work grew a gleaming new kitchen with lots of cupboard space and work counters, and a smart serving bar between it and the dining room. In the dining room there's a neat new china cupboard with scalloped trim. Daughter Helen, 15, has a snazzy new bedroom with a Hollywood atmosphere to it. And the new L-shaped sitting room with its recessed shelves and sun corner might have been lifted holus-bolus right out of American Home magazine. New floors and a complete plastering job with spongette finish were the final master touches. It's really a wonderful job.

### Jean Gets The Credit

Al insists that Jean deserves all the credit. He says she did most of the carpentry and all the plastering. Certainly her definite flair for interior decorating is amply in evidence. She's an entire construction firm all by herself.

Al and Jean were just \$68 out of pocket for materials, with no charge for all the fun they had. Magistrate Thomas Stoddart wouldn't know his old place now, but you can bet your bottom farthing he'd like it.

## SACRED HEART TOPS LEAGUE

Sacred Heart College wound up atop the heap in the regular schedule of the Nickel Belt Hockey League, turning back Sudbury Wolves 4-3 in the final game. It was their eighth win in nine starts.

Wolves made a strong bid, tying the tally twice, but the Collegians had the necessary edge to pull out a victory and are favored to take the league title.

Wolves, who had won six straight before bowing to College, will meet the winner of Copper Cliff-Falconbridge in the playoffs, the winner taking on Sacred Heart for the championship and the Swenson Cup.

As far as Northern Ontario senior laurels are concerned, things don't look too bright for the Nickel Belt this year. In an exhibition match Sacred Heart absorbed a lopsided lacing at the Michigan Soo, indicating that local hopes will probably commit suicide in the first round of the northern eliminations.

George Hastie, ace of the Wolves, won the Nickel Belt scoring championship for the season. With Pats Rogers of Sacred Heart breathing right down his neck, Hastie picked up an assist on Al Knapp's goal in the last 40 seconds of the final game, and this single point gave him the title. He had 10 goals and 11 assists for 21 points, and Rogers chased him to the wire with 15 goals and 5 assists. Rogers has been a tower of strength to College all season.

### A GENTLE HINT

Observer: "How old are you, sir?"

Aged Mourner: "I'm 98."

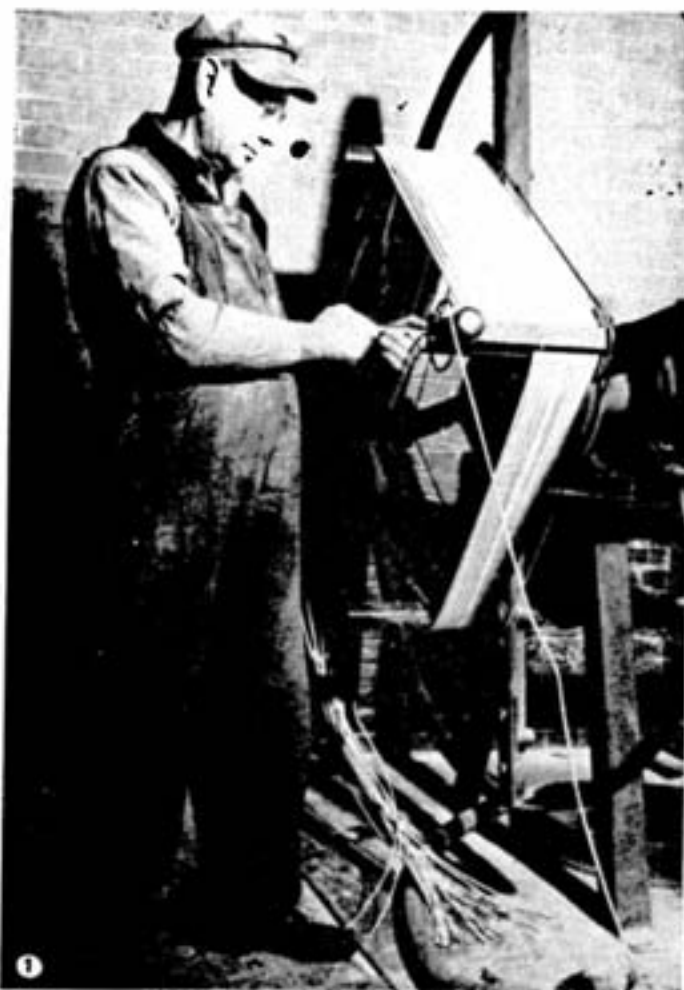
Observer: "Hardly worth going home, is it?"

# INCO FAMILY ALBUM

The informal family photos in our Christmas issue were such a popular feature that we've decided to run a page of new ones each month for a while to help Inco people get acquainted with one another. Here's the group for February: (1) Mr. and Mrs. George Morris (Garson) and their happy tribe of Ronnie, 10, and Raymond, 12, standing, and Harold, 8, Elaine, 5, George Jr., 18, and Jean, 17. (2) Christmas gifts were demonstrated for us at the home of Mr. and Mrs. James Wilson (Copper Refinery) seen here with Joan, 14, Karen, 5, Cecil, 10, and Wayne, 15. (3) Mr. and Mrs. Clair McGowan of Creighton, who are to reside in Levack, are seen with Marilyn, 7, Terry, 6, Catherine Elizabeth, 5 weeks, Richard, 16 mos., and Sherrill, 11. (4) Mr. and Mrs. Carol Kanold (Port Colborne) with Paul, 6, and David, 3. (5) Mr. and Mrs. Harold Borland (Copper Cliff) with Andrea, 2 in May, and Walter, 7½, complete with brand new wrist watch. (6) Mr. and Mrs. Harry Haddow (Open Pit) with Jim, 5, Rochelle, 4, Harriett, 3, and Beverly, 7. (7) Mr. and Mrs. Bill Hertlein (Frood) with Karen, 6, Martin, 9, and Diane, 14 months. A bunch of good-looking families, forsooth!



## *Preparing Fuse For Use in Inco Operations*



## 3000 Fuse Per Day Produced In Froid Plant

(PICTURES ON OPPOSITE PAGE)

Ever pause to wonder, when you're busy loading a round for the next blast in your stope, where the fuse comes from?

The pictures on the opposite page show the careful procedure followed in preparing fuse for use in Inco mines and plants.

These pictures were taken in the Froid fusehouse, which supplies Froid, Stobie, and Murray mines, and also the smelters at Copper Cliff and Coniston. Other fusehouses are located at Levack, Garson, and Creighton mines.

Fuse arrives from the manufacturer wound on large spools, 3,000 feet to a spool, and the first step is to transfer it to a cutting reel which was built in the Froid machine shop. This operation has been completed in the first photo, and John Burmaster is cutting the fuse on the reel into 10-ft. lengths after first painting on the "3-ft. mark" beyond which no fuse may be cut when it is being trimmed for blasting. Fuse is also cut into 15 and 5-ft. lengths, although the 10-footers are the "best seller".

### Caps Are Crimped On

Next operation, seen in No. 2, is to crimp a detonating cap on the end of each fuse. The tip of the cap is filled with explosive. George Dikcyh says he can cap about 300 fuse an hour on a steady run at his crimping machine.

Cut and capped, the fuse are then dipped in dye for identification purposes. Ends of 10-ft. fuse are dyed red, 15-ft. fuse orange, and 5-ft. fuse green. This detail attended to in No. 3, George stacks the fuse on storage racks to dry.

In No. 4 John Burmaster packs fuse in one of the special wooden kegs for transport either underground or to one of the other plants served by the Froid fusehouse. A keg holds 150 10-ft. fuse. About 3,000 fuse of all sizes are shipped out during an average day.

Safety precautions are rigidly observed in the fusehouse. Smoking is not allowed, nor are hob-nailed shoes.

John Burmaster, who started with Inco at Froid in 1928, has worked in the present fusehouse ever since it was built in 1930. His buddy George joined him on this job three years ago, after working underground since 1930.

## Ryan Club Strong Basketball Contender

Working on the fairly safe basis that it doesn't matter how many points your opponents score, as long as you score more than they do, Ryan Athletic Club has racked up 10 straight victories in the City Basketball League and has a four-point lead over Melody Music for top position.

Mr. Big of the Ryan scoring machine is Steve Borovich, who works hand-in-glove with Leo Roininen and Walt Shelby. They concentrate on a driving razzle-dazzle attack, don't worry too much about defence, and get fine support from their mates, including Carbone, Woznow, Gasdic, D'Aloisio, and Wilcox.

Sudbury basketball is enjoying one of its best seasons in years. Other teams in the league, in the order of standing on January 27: Melody Music, C.Y.O., Y.M.C.A., C-M Heaters, Tech, Phalanx Club, Inco.

The history of the world is but the biography of great men.  
—Carlyle.



## MORRISON AND DUNCAN SKIP WINNERS IN SUDBURY 'SPIEL

Copper Cliff rinks wore the victory grins after two of the three events in the third annual Sudbury Motors bonspiel, blue-ribbon mid-season feature at the Sudbury Curling Club, which was played the week-end of January 18. Jess Morrison skipped his quartet to triumph in the Buick, main event, and Jack Duncan came down in front with his team in the Pontiac.

The two winning Cliff rinks are pictured above. In the top photo, receiving their trophy from Jim Ruddy, are Jess Morrison, Bill Byers, Johnny Cechetto, and Lud Ryski. The lower shot shows the Jack Duncan crew: H. Hyland, J. Duncan, Gordon McLean, and Basil O'Brien.

The final match in the Buick event was a hair-raiser. Morrison was four up coming home and seemed to have the jewelry in the bag when Hal Roseborough, his opponent, fought back with a sensational four points to tie the score. The 11th was a maiden. On the 12th end Roseborough came through a narrow port with his last rock to tie shot. Morrison, cool and steady, followed the same path and took out his opponent's stone to win the exciting match 10-9. That Buick event is getting to be a habit with him — he won it last year too.

Jack Duncan also had his anxious moments in the final of the Pontiac event. His opponent, Charlie Roffey, pulled away to an early 6-0 lead, but Duncan and his men settled down to business and came back with a great big 5 in the third end, followed it up with 2 in the fourth, and won 10-6.

Dick Demorest of Sudbury captured the third event, the G.M.C., defeating George Von Zuban in the final 8-7. They were tied coming home.

Rinks from Capreol and Little Current, usually in the jewelry, went home empty-handed.

The smoothly run Sudbury Motors 'spiel

with its nifty bag of booty always produces some fine curling and is regarded as a good "warmer-upper" for the annual NOCCA bonspiel, which will be played in Sudbury and Copper Cliff later in the season.



## Hunch Paid Off

His hunch to improve operations at the Copper Refinery by eliminating the screening of nitre slag paid off handsomely for Dominic Scagnetti, who was awarded \$41 by the Suggestion Plan Committee for the idea. Married for nine years, during the last five of which he has worked at the Copper Refinery, Dominic has two sons, Joseph, 8, and Louis, 6. "It certainly came in handy for Christmas," he said with a grin.



## New World Looks at Sudbury And Says It Likes the View

A 1947 crew to a close. New World magazine of Toronto took a long look at Sudbury, liked what it saw, and said so in a five-page picture story that got Canada-wide circulation.

"City where nobody's bored" was the title New World gave to the Sudbury story. "Taking life easy isn't Sudbury's style," it said. "At the end of an eight-hour shift 3,200 feet below the rocky surface of Ontario's Nickel Range, a man might be tempted to slide into his deepest armchair and refuse to budge until his next underground session begins. But as the typical Sudbury worker comes off the job he dumps his empty lunch pail on the kitchen table and eagerly starts an eight-hour 'recreation' shift."

However accurately that may represent the normal life of the race of supermen New World's reporters decided they had discovered in the Nickel Belt, the magazine was much impressed by the broad range of pursuits and zest for living it found on every hand. It surveyed the scene from all angles—cultural, educational, social, religious, recreational, and economic—and came to the conclusion that Sudbury District is a very good place to live.

### Competent Reporting Team

Editorial work on the New World assignment was well done by Betty Towill. Photography was handled by Herb Nott of Nott and Merrill, Toronto, with the skill and style for which he is building an enviable reputation in the professional field. On these pages are some of the pictures he took:

1. A case-load of miners arrives at surface at the end of a shift underground at Frood Mine.

2. Ray Abrams, driller at Frood Mine, is caught by the camera as he drills off a round preparatory to blasting. Ray was having a tough time to keep his mind strictly on his work that morning—he'd just become a father.

3. Students listen to a lecture in one of the mining classes at the Sudbury Mining and Technical school, which steadily feeds back into the nickel industry highly trained young second-generation workers.

4. At the Well-Baby Clinic conducted regularly at the Inco Medical Centre in Sudbury, Nurse Moroney "weighs in" a scrappy little customer.

### Churches Well Attended

5. Mass is being celebrated on Sunday morning at St. Anne's Roman Catholic Church in Sudbury, which was crowded to the doors while others waited outside.

6. R. L. Beattie, vice-president and general manager of Inco, attended the swing annual dinner of the graduating class at Creighton Mine School and presented the certificates. Here he chats during the student-serve banquet with Jerry Gotro, the class president.

7. To show how people of European origin have become thoroughly established in the Sudbury District and are enjoying an interesting life of comfort and security, the New World camera looked into the activities of the Zaitz family. In this picture Tommy Zaitz, a second-generation Inco man, pauses with his wife to chat with orchestra-leader Johnny Jurzyak during a dance at the Inco Employees' Club.

8. Carefree retirement following years of steady service with Inco is symbolized in this photo of John Gribble, former cashier at Copper Cliff and now a pensioner, whose favorite relaxation is to slip into the peace and quiet of St. Andrew's United Church or an afternoon to spend an hour at the console of the organ.

9. Chicken and spaghetti, a favorite dish in Sudbury District, is being enjoyed here at one of the night spots by Mr. and Mrs. Tommy Zaitz and Mr. and Mrs. Mike Yakowchuk, the latter Tommy's sister.

10. In the kitchen of his cosy home Nick Zaitz, head of the clan, watches while his wife prepares "holubtsi", succulent dish of rice, salt pork and onion baked in cabbage leaves.

11. Like hundreds of Nickel Belters, Tommy and his wife like bowling, do a lot of it. Here they're having a game with friends at Inco Employees' Club.

### Kids Get Special Attention

12. Organized sport for the youngsters is conducted on a big scale in Sudbury and District. This goal-scoring play is in the midget hockey league at Stanley Stadium, Copper Cliff, where 150 kids of ages 9 to 15 get coaching and training, won the all-Ontario championship last year.

13. At the Ukrainian National Federation clubrooms Paul Shulha leads his Dnipro choir in a full-dress rehearsal for a concert.

14. A group of young Canadian girls in costume perform the kolomyjka, a favorite dance of their Ukrainian-born parents.

15. Ladies' champion of the thriving Copper Cliff Skating Club is Dorothy Digby McCarthy, pictured here. The club is well into preparations for its annual Figure Skating Carnival to be held in April.



# Sweeten Kitty For First Aid Championships

A revised program for deciding Inco First Aid championships will be given a tryout this year, it has been announced by R. H. Cleland, general safety engineer. New trophies and prize awards, in addition to those previously offered, will add incentive for those taking part in the schedule, which is now well underway.

First round, or Section A, in the series of eliminations culminating in the Inter-Plant championship will be sub-department competitions at each plant. A team organized and directed by each shift boss in the Mining, Smelting, and Copper Refining Divisions started training "on the job" on a basis of two 30-minute periods per week commencing January 21 and ending February 17. Training follows an approved card, "Elements of First Aid," issued by the Safety Department.

## Expect 130 Teams

At the end of this training period all teams will be judged on the job by their plant's Safety Engineer and a neutral party named by the plant or department superintendent. The number of winners to be declared in Section A for each plant is as follows: Mines: Creighton, 4; Frood, 4; Garson, 4; Levack, 4; Murray, 3; Stobie, 2; Surface Plants: Copper Cliff, 7; Open Pit, 4; Coniston, 3; Refinery, 4. More than 130 teams are expected to take part in the Section A tests, a "take-your-choice" series of which will be set by Tom Crowther of the General Safety Department.

Winners of Section A will be determined by February 29. Then, from March 1 to 6, these teams will each have four one-hour practices at their plant, after which, during the week of March 7-13, the teams at each mine or surface plant will compete to decide a champion for their particular plant. These competitions will be held at the local community halls and employees' clubs before public audiences. This concludes Section B of the new program. Members and coach of each winning team in this section will receive a white sweater with crest.

After a training period from March 14 to March 20, during which each team will have three two-hour practices, the champion team from each mine and surface plant will proceed to the third round. The mines teams will compete for a shield and individual prizes donated by H. J. Mutz, general superintendent of mines, and the surface plant teams for a shield and prizes donated by D. Finlayson, general superintendent of smelters. These are the semi-final events of the schedule, and will be held before the public in the Inco Employees' Club at Sudbury, the Finlayson Shield contest about March 22 and the Mutz Shield event soon after.

## \$300 To The Winner

The two winning teams will train from March 25 to March 31, two two-hour periods per team, and then at the Inco Club on April 1, they will lock horns in the final showdown for the R. D. Parker Shield, emblematic of the inter-plant First Aid championship. For the 1948 contest Mr. Parker is offering a \$50.00 cash prize to each of the winning team members and their coach. It is suggested that this money could be used to cover the team's expenses on a trip to Toronto to see a professional hockey game, as a victory celebration, but of course each man may use his prize money as he wishes.

Following are rules announced by the Safety Department for the 1948 First Aid competitions:

1. Teams in Section A shall be made up of five team members, only one of which shall be a spare man. No official team coach shall

## "That's Our Dish" Say First-Aiders



That all-expense trip to Toronto to see a pro hockey game looks good to the First Aid team from Bert Wood's shift up at the Mill, seen here in a huddle over the revised rules for the annual competitions. Seated are Albert Charron, Bert Wood, and "Happy" Clark; the others, left to right, are Maurice Beauchamp, Buster Martel, Ervin Tubman, and Sulo Hill. New trophies and individual awards have sent interest in the 1948 Inco First Aid championships zooming to the boiling point.

be appointed until the winners in Section A have been announced. The shift boss shall be responsible for the coaching of the team up to this point.

2. The appointment of the team members in Section A will be the responsibility of the shift boss concerned and will consist of men under his supervision. Team members should be so chosen as to avoid any dislocation or disruption of work at the time of practices and competitions.

3. Team members, throughout the entire series of competitions, will not include more than one person who has previously competed in the R. D. Parker semi-final or final events. However, no limitation will be made on the competition experience of the team coach appointed for teams taking part in Section B, Mutz, Finlayson and R. D. Parker competitions.

4. Following the completion of Section A, the team coach for Section B and subsequent competitions will be appointed by the team's shift boss in consultation with the plant Safety Engineer and the department or plant Superintendent.

5. For Section B and subsequent competitions, a team coach may be responsible for coaching one team only.

6. The time approved for practices on Company time as outlined in the schedule shall not be exceeded under any circumstances. This does not mean, however, that a team cannot practice as much as it desires off the job on non-Company time.

7. At any time following the competitions in Section A, changes or replacements in the personnel of any team required by accident, sickness, vacations, transfers or for any other reason, including what may be considered to be an improvement in team performance, should be recommended in writing, describing the reason for such a change or replacement, by the shift boss, team coach and plant Safety Engineer to the plant or department Superintendent and shall be initiated by the latter before the change is approved. A copy of such approved recommendation shall be forwarded to the General Safety office for record purposes. In the case of replacement, as above, the spare man will be used as first replacement, unless he is the one being replaced.

8. No person who is shown on the payroll

as a First Aid man or helper will be permitted as a team member. However, he may hold the position of team coach.

9. Team members do not need to be holders of St. John Ambulance certificates.

10. The judging of all competitions in Section A will be carried out by the plant Safety Engineer or his assistant and a competent person appointed by the plant or department Superintendent. The winning team will be the team with the highest average points as scored by the two judges conforming to the points allotted in the problems. The judges' decision will be final. In the case of a tie, another problem will be set for the tying teams.

11. The preparation and carrying out of the competition in Section B will be the responsibility of the plant Safety Engineer. However, assistance will be given by the General Safety Department upon request. Appointment of judges in Section B will be referred to Dr. H. F. Mowat in all cases.

12. The preparation and carrying out of the competitions for the Mutz, Finlayson and Parker trophies will be in the hands of the General Safety Department. Judging will be as in the past, in the hands of Dr. H. F. Mowat.

## Fellow Could Afford an Appetite in Those Days

Somebody has sent the editor of bright, new CIL "Contact" a copy of a menu from the Clipper Restaurant, Virginia City, Nevada, dated 1871-1884. When it came to "clipping" their customers those old sordidness had a lot to learn.

Pork chops, mutton chops, tripe in batter, etc., were 10 cents, but you had to spread yourself for 20 cents if you wanted a porterhouse or a tenderloin steak. A snack of three eggs, any style, was 15 cents. Hot cakes or flannel cakes, with corn batter, were a nickel. All the roasts were a dime but the brigands were charging 20 cents for chicken.

A bottle of claret cost the playboys 20 cents, and a glass of beer was a nickel.

Single rooms to rent above the restaurant went for \$1.00 a week.

They didn't have any atom bombs in those days, though.

## Banquet Tops Off Season for Legion League

Copper Cliff Legion's baseball incubator sprouted these chicks in 1947: front row, left to right, Sleaver, Crouse, Strong, Johnson, Wainman, Sleaver, Lapierre, Podedworny; second row, Morrison, Livingston, Sutherland, Johnson, Barinette, James, Ross, Zanetti, Cavanaugh, Flynn, Duncan; third row, Casagrande, Luciw, Meaden, Frost, Biondi, Pernu, Baldehl, Weber, Merrifield, Rogers, Topazzini; fourth row, Valentini, Kania, Doherty, McGhee, Phillips, Morrison, Taylor, Williams, Signoretti, Rossi; fifth row, LeBorgne, Brannigan, Martin, Phillips, O'Connor, Hall, Lugil, Martyn, Sanchioni, Disalle.



Attended by all but five of the 55 boys who played out the schedule during the summer months, a banquet was staged by Copper Cliff Branch of the Canadian Legion in Memorial Community hall to wind up in big-time style their first boys' baseball league.

Pictured above are the budding geniuses of the diamond just before they piled into a delicious dinner served by a group of their mothers, and on the right are some of the guests at the head-table: P. Carmichael, O. Racicot, Joe McDonald, G. Telford, D. Finlayson, Clarence Sinclair, I. J. Simcox, Rev. Fr. O'Leary, and Len Turner.

Duncan Finlayson, president of the Legion, presented his championship trophy to Walter Podedworny, captain of Team No. 3, which won the league title. Speakers were Joe McDonald, Rev. Fr. O'Leary, and Ralph McCabe. Chairman was G. Telford.



## 1876 Paris Journal Interesting Souvenir

Jack Wulff of Copper Cliff has loaned to the Triangle, for a once-over-lightly, an interesting souvenir which he picked up near St. Quentin, France, in February of 1917 when he was serving in the First Great War.

It's a copy of a French newspaper, the Paris Journal, published on March 17, 1876, which was a Friday in case anybody cares. Apparently the paper was preserved for its

six-column report of the great floods and storms which France was suffering at the time. All the factories at Limoges and Aix, for example, were inundated. Floods were also causing disaster in Hungary, and a landslide had destroyed the German village of Caub, killing or injuring most of the townspeople. A Norwegian vessel was wrecked off Boulogne-sur-mer, with the loss of all hands and passengers and a cargo of wines and liquors.

Joan of Arc was being played at the Paris Opera House. A firm advertised a sure-fire cancer cure "without medicine, operation, or blood-letting," at a cost of about 50 cents. Another firm said it could make a set of false teeth in six hours, satisfaction guaranteed. A "fine house" was for sale on St. Georges St. in Paris for \$2,500 (the line forms to the right, gentlemen).

The daily Journal was in its ninth year of

publication at 9 D'Aboukir St., and its subscription price was about \$8.00 per year in Paris, \$9.00 in the provinces, and \$11.00 abroad. It was a four-page paper, six columns to the page, the column width the same as the Triangle's, 15 ems.

"Please excuse the footprints on the back page," Jack Wulff said in his note. "The cat made a detour to see if 'Int Nick' was listed in the stock market quotations." Which it wasn't, of course.

### IT WAS CATCHING

The guest had just signed the hotel register and the clerk was looking at the name in some astonishment. "C C C Carl C C C Carter," he read. "That certainly is an unusual name; must be a story back of it!" "There is," agreed the guest. "It's my real name. The clergyman who christened me stuttered a bit."

## Xmas Parties Scored Bullseye With Kiddies

More than 8,000 children from Inco families were entertained at Christmas parties sponsored during the Yuletide season by the Athletic Associations at the various plants.

A lot of organizing genius and hard work went into preparations for the big annual treat, and the committees in charge did a bang-up job on every front.

At several plants prize draws were staged to raise funds toward the expense of the parties, and in each case the ticket sales reflected the whole-hearted interest and support of the employees.

### LEVACK

At the Levack entertainment, held in the Employees Club, more than 400 kiddies received gifts from Santa, whose voice and laugh sounded just like Bill Neal's. Treats were nuts and fruit. The Levack Junior Band, under Bandmaster Fred Dolci and his assistant, W. MacCoy, played a fine program of Christmas music. Six Boy Scouts, directed by Scoutmasters W. Bushnell and S. Williams, did an excellent job of ushering. Committee in charge of the very successful event was: Lloyd Davis, chairman; Fred Spencer, secretary; A. E. Armstrong, treasurer; members of the Athletic Association gave valuable assistance.

### CONISTON

At the Nickel Club in Coniston 550 children ranging in ages up to 12 years had a high old time at a party staged by the Athletic Association. Santa handed out some really snazzy gifts along with candies, oranges and apples. A singsong was held prior to Santa's arrival under the leadership of Harold Sutton, the peppy new president of the Coniston A.A. Those serving on the committee which staged the happy event were: A. "Slim" Glibbery, chairman; A. Gobbo, B. Taylor, D. Kidd, A. Eastwood, T. Zannutti, J. Houle, M. La-Prairie, and R. Boulay.

### FROOD

The 10th annual Christmas Entertainment of Frood Mine Athletic Association drew 2,500 children to Inco Employees Club in Sudbury. Kiddies whose dads work at Murray and Stobie Mines were guests of the Frood A.A.

Each child received a toy and a bag of popcorn, candy and fruit. Lunch was served to the parents in the club lounge. A motion picture was shown by Vern Tupling.

Hustling Eldred Dickie turned in his 10th successful effort as chairman of the committee, which was composed as follows: toys, Mr. and Mrs. Baseden, Mrs. Northwood, A. Cook; treats, A. Northwood, V. Leroux; lunch, H. Towns, Mrs. E. Dickie; traffic, J. Bell, B. Meredith, B. Peal, D. Dixon, J. Deacon, W. Ross, H. Dunn, H. McGinn. The visit of Santa was personally supervised by Ed. Chateauvert.

### CREIGHTON

Sponsored jointly by the Athletic Association and the Employees Club committee, the Creighton entertainment provided a big thrill to about 600 kiddies of ages up to 10 years. Ev Staples and Stan Dobson were in charge of all arrangements, assisted by the following: Norm Silverson, Ted Whiting, Mel Davis, W. Wellington, Jack Connors, Gord Luck, and John Krystia, with G. Gonnella entertaining Santa. Valuable assistance was also given by Supt. Earl Mumford, Miss U. Black, and Club Steward George Rymer.

### OPEN PIT

More than 1,500 children came early and stayed late to have a whale of a time at the Frood-Stobie Open Pit party at Inco Employees Club. Toys, candy and fruit were distributed by Santa and his No. 1 helper,

## Waiting to Talk to Mr. Whiskers



"Mob scenes" like this were familiar during the Yuletide Season when kiddies of Inco employees got that super thrill, a good close look at Santa, as well as gifts and treats. Although more than 8,000 children were entertained at parties sponsored by the plant Athletic Associations, the affairs were so well organized that there was little or no confusion. The picture above was taken at the Frood Mine party in the Employees Club, Sudbury.

Dave Gilbert, assisted by gnomes of various shapes and sizes. An Open Pit quartet, under the direction and management of Dick Waide, sang Christmas carols in the best barber-shop tradition; the artists were Dyke Parker, Jack Garrett, Johnny Jurczyk, and N. Raspberry. Another entertainment feature was the movie shown by Vern Tupling. Refreshments were served to the children and their parents, the total issue being 125 lbs. of hot dogs and 68 cases of pop.

Committees in charge, with Wally McIntosh in the control tower, were: receptionists, W. H. Poulson, J. D. Garrett, J. MacAlpine, L. Morden, P. Stewart, L. Munro, G. Fleming; entertainment, J. S. Jurczyk, L. G. Thornton, J. C. McAllister, R. Bryson, C. Nesbitt, R. Holub, F. Graham; refreshments, J. Keast, M. Opaleychuk, A. Dockrell, T. Zaitz, G. Marcotte, R. J. Waide, C. Phillips; toys and treats, J. L. Lemieux, Dyke Parker, J. I. McNeil, G. Holmes, G. Bulmer, J. Stanley, R. Dow.

### GARSON

The Christmas Tree party at Garson, which is sponsored by the Garson Mine Athletic Association, was handled this year by the following committee: chairman, A. Massey; treasurer, J. Donnelly; gifts, V. Stone, A. Bowen, H. McKinnon; raffle, C. Dunsmore, M. Fluvian, G. Secker, J. McIvor, E. Mills, R. Besch; entertainment, G. Quilty, G. Sullivan, F. Desjardins; property, R. Jack, E. Simons, H. Carr.

Santa, who proved to be much the same build as Marko Fluvian, distributed gifts and chuckles to 400 children. Fred Desjardins supplied the musical background with local talent, and movies were shown by Vern Tupling.

### COPPER REFINERY

Gifts ranging from rattles to chemistry sets were handed out by Santa at the Copper Refinery's entertainment in the Inco Employees Club. When Jack Latreille's three kiddies came up to see Santa, young Jimmy was heard confiding to Mr. Whiskers that his dad thinks Santa is an old billy-goat. This scurrilous suggestion received scant attention from Jimmy or any of the other 500 children attending. Gloria Calandra did a swell job of assisting in distributing the gifts and treats.

The committee which looked after selecting the toys was headed by Jim Bryson. Those on hand to assist at the Tree were Bob Rodger, George Smith, George Purchner, Mike 'Shadow' Shambley, Hugh McPhail, Jeff Aurie, Gar Fallon, Bill McBain, Pete Boluk, and Mel Luck, the live-wire president of the Athletic Association.

### WILLISVILLE

Willisville School Board sponsored the Christmas entertainment, which took the form of a very enjoyable concert followed by Santa's arrival and the distribution of gifts to all kiddies. H. Searle, the school teacher, organized the concert and Mrs. Searle at-

## Talented Choir at Coniston Continuation School



Highly favorable reports reach us of the Coniston Continuation School choir, pictured here, which sang at the Coniston Band concert in December and also at the school's commencement exercises.

Organized some years ago, the choir is adding to its reputation as a good-looking,

talented and well-knit musical ensemble, under the popular leadership of Miss Margaret Ferguson.

From left to right the singers are: back row, Dorothy Shreeve, Laurette Mayhew, Mary Geoffrey, Patricia Murphy, Janet Rogerson, Olga Hryczak, Betty Gibbons, Therese Poirier;

centre row, Olga Drill, Aline Martin, Nora Falcioni, Margaret Ladurante, Miss M. J. Ferguson, Jane Macdonald, Evelyn Lalonde, Joyce McLean, Florence Rivals; front row, Carmella Sottile, Shirley Gagnon, Vera Gentile, Edith Squires, Mary Werstik, Geraldine Squires, Claire Rivals, Viola Steele.

tended to purchasing the gifts. Music for the concert was provided by Mrs. Stevens, pianist. Supt. Jack McAndrew of the Quarry says it was a very nice party.

### COPPER CLIFF

It took three Sudbury theatres, the Regent, Grand, and Century, to handle the Christmas movie treat provided for all kiddies between 4 and 10 years of employees at the Copper Cliff plants.

For children not residing in Sudbury, transportation by street car or bus was provided from Copper Cliff, Gatchell, Coniston, Minnow Lake and Lockerby. Fruit and candy were distributed at the theatres, and Santa managed to put in a welcome appearance at each party.

The smoothly handled entertainment was sponsored by Copper Cliff Athletic Association with A. G. McLean as chairman and the following leading a helping hand, Alvin Nickle, Bill DeSoto, Bob Boudignon, Earl McMullen, R. Doucet, S. McBeth, A. Busby, R. Eadie, R. Dixon, L. Jennings, P. Hannah, R. Brown, A. Carroll, E. Romagna, J. Maltby, M. Pushkarenko, A. McGibbon, B. Stemp, J. O'Riordan, A. McGhee, A. Gullen, K. Boucher, and others.

### GRANNY IS HEP

The home reminded you of those photos of homes in the Gay 90's. Grandma was rocking as she did her knitting. At her feet sat her four-year-old grandson. It was a picture Whistler could paint. Suddenly the little boy looked up and said: "Grandma, why are you knitting?"

Granny paused, smiled and replied: "Oh, just for the hell of it."

## LEVACK BEST OF INCO MINES IN RYAN RACE

Repeating their brilliant 1946 achievement, the men of Levack led all other Inco mines to the wire in the 1947 competition for the Ryan Award.

Whether or not Levack's performance will enable it to retain the Ryan Trophy, emblematic of the Canadian safety championship, which it won in 1946, will remain in doubt until all returns have been received from mines across the Dominion. Reports to date indicate, however, that Levack is "in" once more. What a feather in the cap of Supt. Charlie Liveley and his super-crew!

On the basis of lost-time accidents per 1,000 men employed, which is the system on which the Ryan contest is scored, here's how Inco mines stacked up in 1947:

Levack	1.14
Garson	10.59
Stobie	10.60
Creighton	12.68
Murray	15.39
Frond	15.47

Up until Oct. 14 it was Murray, in its first year of production, which led the Ryan race among Inco mines, but then accidents dealt a body-blow to the Murray hopes and Levack pulled into top spot, never to be headed. The Liveley organization was charged with only

two lost-time accidents during the year on the Ryan score-sheet.

Even more impressive than Levack's excellent prospects for Dominion honors is the very strong possibility that most, if not all, Inco mines will rate better than any other Canadian mine in the final scoring.

## Rod and Gun Club Reviews Successful Year

Planting in district waters of 44,000 speckled trout as well as pickerel and bass, completion of a skeet range, arrangements for an indoor rifle range, and an interesting program of education and entertainment for the membership, were among the activities of the past year reviewed at the annual meeting of Copper Cliff Rod and Gun Club.

A large group of school students attended the meeting at the Club's invitation, part of its plan for spreading the gospel of conservation and good sportsmanship.

Reports were given by Hugh O'Connor, fish committee; Norman Temple, rifle; James Lee, sket; Jack Livingstone, game; Clair Young, education; Charlie Michener, entertainment. The 1947 slate of officers was re-elected: president, Paul Queneau; vice-president, W. J. Ripley; secretary, Adam Watson; treasurer, Clarence Buck.

Modestly omitted from the reports was the heroic spirit of self-sacrifice shown by executives in the line of duty. After moving a shack into position on the skeet range, they were all laid up with wrenched backs.

A winner never quits and a quitter never wins.

## PRESIDENT STANLEY REVIEWS NICKEL INDUSTRY'S PROGRESS

In a recent letter to the shareholders of the Company, Robert C. Stanley, chairman and president of Inco, reviewed the current progress of the world nickel industry, revealing many new uses which have been developed by research for alloys of nickel.

Text of Mr. Stanley's letter, of vital interest to every Inco employee, was as follows:

World deliveries of Canadian nickel in all forms for the year 1947 will be in excess of those of 1946, although considerably under the peak war-time high reached in the year 1943.

Canadian nickel deliveries this year in all markets will approximate those of the industry's greatest peace-time year of 1937, and shipments in the United States and Canada will show an increase of about 50% over 1937.

Operations of International Nickel at Copper Cliff, its mining and smelting center, were substantially higher than in 1946, despite a continuing labor shortage.

Nickel prices in the United States and the United Kingdom remained unchanged during the year. On November 21, The International Nickel Company, Inc., announced a reduction of 1½¢ per pound in its price for refined nickel in the United States. The reduction becomes effective January 1, 1948, simultaneously with a like reduction in the United States import duty on refined nickel provided for in the recently signed reciprocal trade agreement between the United States and Canada. The prices of nickel outside the United States are not affected by the duty and remain unchanged.

### Stainless Steels

The largest consumer of nickel during 1947 continued to be the steel industry. Produc-

tion of nickel-chromium stainless steels in the United States accounted for a major portion of this consumption. The applications of nickel-containing stainless steels in the various industries continue to be numerous and diversified. The chemical, petroleum and transportation industries remain important users of stainless steels. Popular and well-known uses are in such home appliances as sinks, refrigerators and deep freezers, as well as cooking utensils. Likewise, stainless steels serve in industrial and restaurant equipment for the processing and handling of foods and beverages.

### Nickel Alloy Steels

The so-called triple alloy steels, containing nickel, chromium and molybdenum, continued to be extensively employed this year, particularly in the automotive, construction, railroad, tractor and machine tool industries. Their tonnages, as in 1946, were again the largest of any single class of engineering alloy steels. Two notable applications of comparatively recent origin for these alloy steels have been for structural aircraft tubing, and for hot coiled and leaf springs by the railroad, automobile and tractor fields. Nickel-chromium and nickel-molybdenum steels of the pre-war standard types have also re-established salient positions in industry.

Of great interest is the growing utilization of high strength low alloy steels. The majority of these steels contain nickel and now contribute materially to the over-all consumption of nickel by the steel industry. They are used principally for engineering applications to permit appreciable reductions in deadweight. Industries which have found their use of advantage include transportation, materials handling, earth moving and heavy

equipment. It is expected that as more consumers become familiar with the savings accruing from constructions with these steels, their use as a replacement for the carbon structural steels will increase.

Increases in the use of heat and corrosion resistant cast steels for industrial applications have continued to expand these markets for nickel.

Post-war activities both in the United Kingdom and on the Continent of Europe point to a continuance or an extension of the use of nickel alloy steels. A point of interest in this connection is the extensive use of nickel steels in the British Railton Mobil Special racing car, which exceeded a speed of 400 miles an hour at Bonneville Salt Flats, Utah, in September.

Nickel steels are being employed in lightweight tractors which are particularly important to United Kingdom agriculture. The new Rolls Royce piston type engine, one of the most powerful aircraft engines of its kind, makes extensive use of nickel steels and other nickel-containing materials. On the Continent, where war-time controls resulted in the employment of "ersatz" alloy steels, nickel alloy steels are once more taking a prominent part in the new steel specifications.

Lightweight nickel alloy steel mine cages in coal mines have proved very successful in Belgium and further cages are being constructed in Belgium and France.

### Mill and Foundry Nickel Alloys

The past year saw a further broadening of the use of "Monel," "Inconel," and other nickel alloys, as well as rolled nickel, for special duty purposes involving resistance to heat, corrosion, wear and other difficult conditions for which their versatile properties are important. As in the past, the chemical and associated industries took the major share of the tonnage, but increased use was noted in other fields, such as power and electronics.

Important applications were found in the production of modern drugs, such as streptomycin and penicillin, in the manufacture of synthetic detergents, and in the handling of fluorine, a highly corrosive agent which is being used on a constantly increasing scale for many new industrial processes.

The rapid advances in jet engines accounted for an increase in the use of "Inconel" because of the ability of this high nickel-chromium alloy to withstand the high temperatures and corrosive gases. The same alloy has also assumed further importance for heat-treating equipment. A potentially large market for high nickel heat resistant alloy steels for jet engines and rocket developments is indicated by the continuing search for materials to withstand higher temperatures.

The "Nimonic" alloys, particularly "Nimonic 80," continued to be the standard turbine blading material for all British jet-propulsion engines. These alloys, developed by Mond Nickel's Development and Research Department, are employed for this application because of their high creep-strength properties at red-heat temperatures. In the United States International Nickel has developed another high temperature alloy, "Inconel X," which is being used experimentally for gas turbine wheels, forged turbine blades and general sheet metal applications for jet engines.

There was an increase in the applications of rolled nickel, "Monel," "Inconel" and nickel-chromium stainless steels as a cladding for ordinary steel. Included were applications in such diversified industries as brewing and the production of pulp and paper.

One of the standard uses for "Monel" for more than a quarter of a century has been on board ship for applications ranging from pump parts to boiler equipment. Despite the fact that new construction in American shipyards was considerably curtailed during the year, the conversion of war-time vessels to peace-time use continued to provide an outlet for this nickel-copper alloy produced by International Nickel.

Chemical and food industries in Great Bri-



## Murray Miner 1948's First Pappy

At 12:16 o'clock a.m. on January 1 a Murray miner, Henry Paquette, was the "newest" and proudest father in Sudbury. His wife had just presented him with a daughter, the first child to be born in the city in the New Year.

Baby Jeannine Paquette, who weighed 8 lbs. 2½ ozs. when Dr. K. J. Bromley of the Inco Medical Centre ushered her into the world at St. Joseph's Hospital, was hands-down winner of the 17th annual Baby Contest conducted by the Sudbury Daily Star in co-operation with Sudbury and District merchants. She received 37 handsome gifts from

the sponsors of the Stork Derby, including one each for her father and the doctor.

Picture shows the Paquette family at their home, 319 Frood Road. Nestled in her mother's arms, Jeannine is wearing some of the finery which her beautifully-timed arrival won for her. Her brothers, all tickled stiff to have a baby sister, are Giles, 3½, Claude, 2½, and Robert, 5.

Henry Paquette operates a mucking machine on 15 Level at Murray, has been an Inco man since 1939. He is a member of the Mine Rescue team.

tain, France and Belgium have placed substantial orders for pure nickel, "Monel," "Inconel" and nickel silver. Applications include caustic soda equipment and large salt driers. Further developments have taken place with nickel-clad steel, particularly in connection with the soap industry.

The expanding field of electronics has brought many new uses of nickel and nickel alloys, such as in television.

There has been a continuing use of "Monel" for hot water storage tanks. For the sheathing of heating elements in electric cooking ranges, "Inconel" continues its commanding position.

The use of "Ni-Rod", a welding rod for making machinable welds in cast iron, was expanded remarkably throughout industry.

#### Electrical Resistance Alloys

There has been an important growth in the use of nickel-chromium electrical resistance materials. The increasing utilization of electrical energy in the home for domestic appliances, water heaters and ranges has been largely responsible for this growth.

#### Cupro-Nickel Alloys

The high post-war demand for nickel by wrought copper base alloy manufacturers has continued. It is estimated that 1947 purchases will compare favorably with last year. The nickel silver alloys are expanding their markets as base metals in the silver-plated tableware field; for springs in electrical and communications equipment such as the dial telephone system; and in slide fasteners. The 70-30 cupro-nickel alloy has proved its position as a superior alloy for heat exchangers and is now being more widely employed in marine and coastal installations, power stations, and the petroleum industry. Cupro-nickel for condenser tubes and other nickel alloys for various purposes continue to be employed in the large shipbuilding program now in hand in the United Kingdom.

#### Coinage

Throughout the world the general trend has been toward further use of nickel and nickel alloys for coinage purposes. Many of the countries which employed emergency alloys during the war have already returned to the minting of nickel-containing coins, while others contemplate an early resumption of the use of nickel and nickel alloys for their coinage.

India and the United Kingdom are replacing silver with pure nickel and cupro-nickel, respectively, as the standard coinage of those countries. Spain recently adopted pure nickel for the 5 and 2½ peseta coins. New Zealand is replacing silver coinage with that of cupro-nickel. Ecuador has returned to the use of pure nickel for the one-sucro coin, and monetary reforms now under consideration by a number of Latin American countries contemplate the introduction of pure nickel for their standard coins as well as for various minor denominations.

#### Nickel Alloy Cast Irons

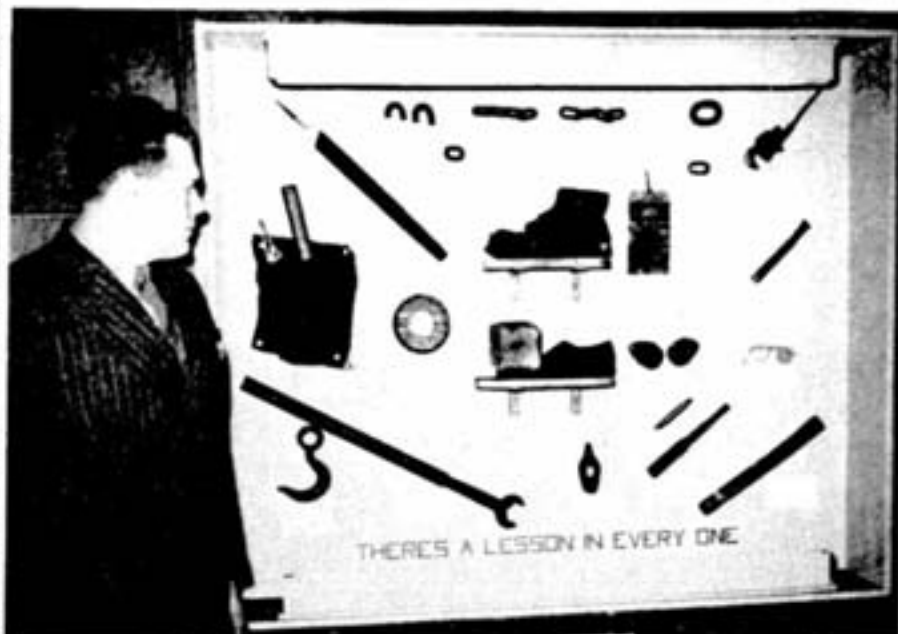
Progress in the field of nickel alloyed cast irons has been well maintained during 1947. Such specialty nickel-containing alloys as "Ni-Resist" and "Ni-Hard" have advanced at a sharper rate than that of the over-all development. Sales of nickel this year for the production of "Ni-Resist" are expected to be 45% greater than the best prior peace-time year and "Ni-Hard" production, exclusive of rolls, will use almost 90% more nickel than has been consumed in any preceding year.

In addition to very satisfactory progress in the development of "Ni-Hard" in the mining fields of the United States and Canada, this abrasion resisting alloy is being applied in South America, Mexico, South Africa and India, for grinding, milling and other mining applications.

In Great Britain, as in the United States, most of the rolls in rolling mills now contain nickel.

International Nickel in its constant search for new mineral deposits has employed the airborne magnetometer which is revolutionizing prospecting methods. The heart of this device is a magnetic detector utilizing a high

## Safety Display Is Daily Reminder



As they file through the clock alley on their way to work, Copper Refinery employees get a practical daily reminder of the value of safe workmanship and equipment from this display board, beside which Safety Engineer Lionel Roy is standing. Underneath an old shoe, cut away to show how a nail has gone through, is the caption, "You can't expect your sole to save you in a case like this." A dirty switch tag is labelled, "The

tag that no one can read — the print in your obituary will be clearer."

Other safety "quickies" from the Refinery board:

"Hooks that spread won't save your head."  
"Broken glass is hard to remove; Use safety lenses and get in the groove."

"Emery wheel pieces may fly, and the chip is quicker than the eye."

permeability nickel alloy core that is periodically saturated. The changes in the intensity of the earth's magnetic field alter the output from this device and are continuously recorded, making possible the detection of magnetic anomalies in the earth's surface.

#### Nickel-Plating

Although the record high 1946 volume of nickel for plating purposes in the United States included purchases for re-equipping the facilities of the plating industry, 1947 sales will be still higher and are a truer indication of the increased consumption of nickel for plating. However, consumption in all fields has been limited by the scarcity of other base metals for fabrication.

The automotive industry with increased plated area and specifications for heavier deposits is still the largest consumer, although demands from all other fields have increased.

Considerable interest has been aroused in steel pipe lined with electro-deposited nickel, which was a result of a war-time development. More attention has been given to the salvage of worn and mismatched parts by building up to size with nickel-plating, thus saving on replacement parts.

There has been continued research during the year on methods for nickel-plating on aluminum to simplify and improve prevailing practices. This will expand and diversify uses, which at present are largely in domestic appliances and plumbing fixtures.

Plastic and other non-metallic units with a nickel deposit possess increased rigidity and strength, yet retain lightness of construction. In addition, the nickel provides resistance to abrasion and moisture absorption.

Nickel anode consumption is still maintaining a steady high level in the United Kingdom, being some 100% greater than pre-war.

#### Outlook

The encouraging outlook for business in the

many industries which nickel serves indicates a continuance of the favorable showing made by the nickel industry in 1947.



#### FAREWELL APPEARANCE

Each year at the annual banquet of the Mechanical Dept. at the Copper Refinery, Matt Bell has rounded up an orchestra to put the finishing touches to the program. Last year was no exception, although it was Matt's farewell appearance prior to retiring on pension. He's seen above with his violin, leading a melodious four-piece ensemble of which the other members were Paul Daoust, guitar, Len Bedard, mandolin, and Bill Yeo, piano.

## Garson Footballers Collect Swag; Cliff Bowlers Dine Before the Battle



Three of the four trophies offered for annual competition in the Sudbury District Football Association, and classy new windbreakers, were presented to the members of the Garson football team during a dance given in their honor by the Athletic Association on Dec. 12. In the first of the above pictures some of the Garson players are being "measured" for windbreakers by their wives prior to the presentations. Left to right are seen Taffy Davis, Vic Stone, Mr. and Mrs. Tauno Perala, Mr. and Mrs. Sammy Grassam, Mr. and Mrs. Ollie Matson, Mr. and Mrs. Hughie Rolison, Mr. and Mrs. Tommy Armstrong, and Mr. and Mrs. Andy Muir.

It was "Just before the battle, Mother," in the second of the above pictures, as the two finalist teams in the annual 10-pin tournament at the Copper Cliff Club vied with knife and fork before taking to the alleys to decide the championship. Looking up the table on the left are the Winders from the Electrical Dept., Howard Thompson, Tommy Acheson, Bill Beckett Jr., and Bill Beckett, while on the right are the Research team of Art Wittenberg, Danny Kelly, Alex Ellis, and Gordon Harry (get a load of that nifty new biscuit-duster, lads). Host and peacemaker at the head of the table was Arn Ross, chairman of the Club's entertainment committee. The two crack lineups fought an exciting battle for the P. F. McDonald Trophy, the Research boys winning by a margin of 14 pins.

### MISTAKEN IDENTITY

"Look, dear, how picturesque! The Smiths are bringing in a Yule log."  
"Yule log, my eye. That's Smith."

## Parker and Gordon Become Assistant Vice Presidents



J. R. GORDON

R. D. PARKER

Vice-President R. L. Beattie announced in December that R. D. Parker and J. R. Gordon had been elected assistant vice-presidents of the International Nickel Company of Canada, Limited.

Coming to Inco in 1928 from McIntyre Porcupine Mines, R. D. Parker became superintendent of Creighton Mine and in 1930 was

appointed to his present position of general superintendent of the Mining and Smelting Division. He graduated from the University of California, Berkeley, in 1921.

Associated with the Ontario Research Foundation at Toronto from 1929 to 1936, J. R. Gordon joined Inco as director of the Research Department created at Copper Cliff in 1936, and became technical assistant to the vice-president in 1946. In 1943 Premier Drew appointed him a member of the Ontario Mining Commission. He graduated from Queens University, Kingston, in 1920.

### Other Recent Appointments

Other recent changes and promotions among Inco personnel include:

J. B. Fyfe, formerly superintendent of both Stobie and Murray Mines, is now devoting his full attention to the Murray as it swings from the development to the production column.

A. E. O'Brien, superintendent at Frood, is now Stobie superintendent also.

E. P. Reed, formerly assistant superintendent at the Open Pit, is now in charge at Stobie as assistant superintendent under A. E. O'Brien.

W. Vannan and C. C. Jones, who were general foremen at Murray and Levack respectively, are now general foremen at Stobie.

Al Olive, who was a general foreman at Creighton, is now a general foreman at Murray. Ralph Gomoll, who was foreman at No. 2 Shaft Garson, is a general foreman at Levack. Bruce King has been promoted from foreman to general foreman at Creighton. Bill Armstrong, who was foreman at Murray, is now foreman at Creighton. E. Conroy, foreman at Stobie, is now a general foreman at Murray. Norman Wudge, who was an assistant foreman at Frood, is now a general foreman.

At the Open Pit George Fleming, formerly blasting engineer, and Dick Dow, formerly safety engineer, have joined R. Britton as foremen. C. Phillips is the new safety engineer.

R. Burford is now mine engineer at Murray.

John Gregg, who resigned as master mechanic at Garson to enter private business in Sudbury, has been succeeded by Ray Beach, who was assistant master mechanic at Creighton. The latter post has been taken by Roy Serpel, who was a first class machinist at Frood.

In the Geological Department F. P. Zurbrigg has been appointed chief mines geologist and C. E. Michener chief exploration geologist.

In Accounting, Mills Austin of Copper Cliff has been promoted to assistant works auditor at Port Colborne, replacing C. R. Howard, who succeeds J. R. O'Donnell as works auditor. Mr. O'Donnell goes to the New York office as assistant comptroller. O. E. Penman has been transferred from Levack to Frood as mine clerk, replacing Howard Ringer who is on sick leave of absence. Clair McGowan of Creighton has taken over as mine clerk at Levack.

### GRATEFUL STUDENTS

From Derek J. Ottley and W. F. Scriminger, students at the Royal School of Mines, London, England, came a letter last month asking the Triangle to extend their appreciation to Inco personnel for hospitality and co-operation shown to them during their three-month stay in the Mill and Smelter at Copper Cliff last summer.

"We are deeply indebted to those who imparted to us some of their knowledge of the works operations and controls, making our stay of tremendous technical value," the students wrote. "It will all be of immense value to us in the near future in our careers as metallurgical engineers."

### JEKVIL & HYDE

Alice and Ellen were discussing the Sunday School lesson. "Do you really believe there is a devil?" asked Ellen.

"Oh, I don't," answered Alice. "I guess it's like Santa Claus—it's really your father."