

INCO TRIANGLE

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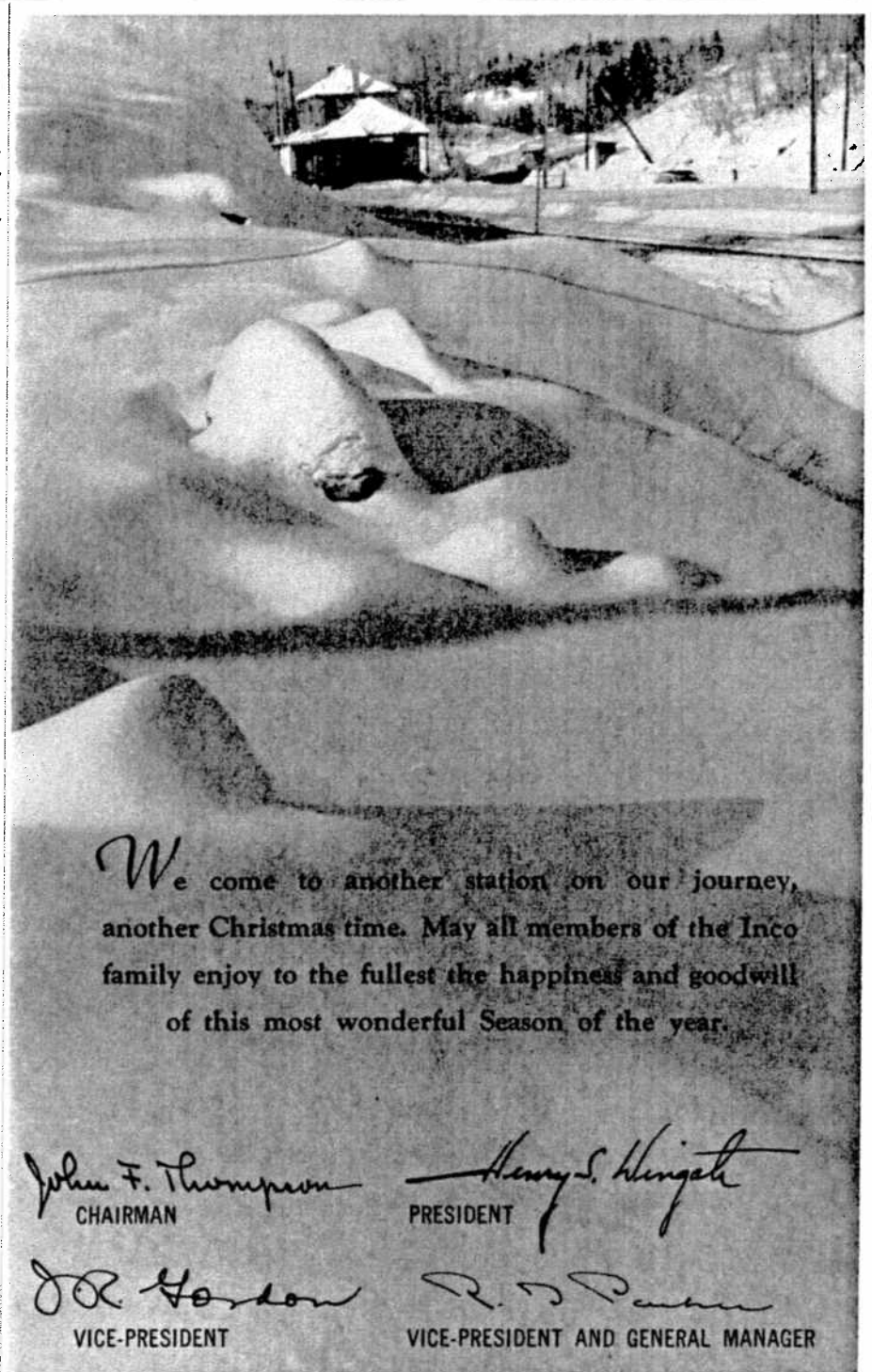
Remember

Christmas . . . and
The lights will burn brightly, and the
bells will ring out;
The streets, and the stores and shops
will be filled;
The gifts will be stacked high under
the tree,
and the festive board heavy under
the Christmas feast;
There will be merriment in homes
throughout the land, and the laughter
of children to infect us all;
The doors of our homes will be open,
and friends will visit and clasp hands.
But more than any of these.
Let each heart become a chapel,
Remembering that on this Day one
thousand, nine hundred and fifty-five
years ago,
God gave to the world the greatest
Gift of all,
His only begotten Son,
Our Lord and Saviour Jesus Christ.
Yes, more than anything else,
Let us remember this, and keep Christ
in Christmas.

—Norfolk and Western Railway

Christmas With Mr. Pickwick

It was a very pleasant thing to see Mr. Pickwick in the centre of the group, now pulled this way, and then that, and first kissed on the chin and then on the nose, and then on the spectacles, and to hear the peals of laughter which were raised on every side; but it was a still more pleasant thing to see Mr. Pickwick blinded shortly afterwards with a silk-handkerchief, falling up against the wall, and scrambling into corners, and going through all the mysteries of blind-man's bluff, with the utmost relish for the game, until at last he caught one of the poor relations; and then had to evade the blind-man himself, which he did with a nimbleness and agility that elicited the admiration and applause of all beholders. The poor relations caught just the people whom they thought would like it; and when the game flagged, got caught themselves. When they were all tired of blind-man's bluff, there was a great game at snap-dragon, and when fingers enough were burned with that, and the raisins gone, they sat down by the huge fire of blazing logs to a substantial supper, and a mighty bowl of wassail, something smaller than an ordinary wash-house copper, in which the hot apples were hissing and bubbling with a rich look, and a jolly sound, that were perfectly irresistible. . . . Up flew the bright sparks in myriads as the logs were stirred, and the



We come to another station on our journey,
another Christmas time. May all members of the Inco
family enjoy to the fullest the happiness and goodwill
of this most wonderful Season of the year.

John F. Thompson
CHAIRMAN

Henry S. Hingath
PRESIDENT

J. R. Gordon
VICE-PRESIDENT

R. D. Parker
VICE-PRESIDENT AND GENERAL MANAGER

deep red blaze sent forth a rich glow, that penetrated into the furthest corner of the room, and cast its cheerful tint on every face.

—Charles Dickens

APPOINTMENTS ANNOUNCED

Vice-President R. D. Parker has announced the appointment of Richard Dow as an administrative assistant at Copper Cliff.

H. J. Mutz, manager of mines, has announced the appointment of William Tilston as superintendent of Lawson Quarry, effective November 15, succeeding Richard Dow.

FIRST TIME

"Where's Jones this morning?"
"He isn't in. His wife phoned him that the baby was asleep. He's gone home to see what it looks like."

Litany for Today

From distrust of ourselves, which
makes us weak
From suspicion of our neighbor, which
makes us intolerant
From hatred of our enemies, which
poisons our bodies and souls
Deliver us, O Lord
And instil in our hearts and in the
hearts of all mankind
Good Will, which alone can bring
peace on earth

Christmas Visitor in These Parts



THAT MAN'S HERE AGAIN!!!! The old lad with the long white whiskers and the big booming laugh has come to make his annual visit, and what a welcome he gets! Here he's seen at the Murray Mine Christmas Tree at the Inco Employees Club, getting some gift hints from Richard and Rachele Barriault, whose dad is a longhole driller on 9 level at Murray. At the very enjoyable entertainment there were presents for all the kiddies as well as hot dogs and pop, while their parents were served cake and coffee. Photographs taken at other Inco Christmas parties will appear in the January issue of the Triangle.

High on the Trestle



and Deep in the Mine



On Christmas Eve Remember Those Keeping the Vigil

On Christmas Eve when the ruddy flame leaps high and loved ones gather close in the family circle, it would be fitting for Incoites to give a grateful thought to the sentinels of security who will be on the job as usual, travelling their appointed rounds to make sure that all is well.

Because they faithfully keep their lonely vigil, thousands of others will be free to give themselves up to the eternal magic of that hallowed night, safe in the knowledge that the means of their livelihood is in good hands and there need be no apprehension of the morrow.

Of these many good guardians the Triangle has selected two to be the targets of good wishes mentally telegraphed on Christmas Eve from all their fellow Incoites who are snug and happy at home.

One is Clarence Spencer, who will put in his regular shift patrolling the tailing line trestle between Creighton and Copper Cliff while his thoughts turn to the welcome awaiting him at home from his wife and their five lovely daughters, Lynne, Verna, Marguerite, Judy and Pat.

The other is Earl Bielhartz, who will be on fire guard duty as usual at Creighton, working his way down the ladders and through the silent drifts of the mine making certain nothing is amiss. He'll be counting

the hours until it will be time for him to enter into the spirit of Christmas with his wife, their 15-year-old twin daughters Ruth and Rhoda, his son Ervine, and married daughters Mrs. Henry Schroeder (Frood-Stobie) and Mrs. Gordon Price (Creighton).

To these two men and their fellow custodians let there go out a barrage of kindly thoughts and goodwill so that Christmas Eve for them will not after all be the loneliest night of the year, but one of warmth and good cheer.

New Niagara Home For Fred Lumleys

Fred Lumley Sr., who has been doctoring electric locomotives of one kind or another for over 35 years, retired on service pension recently with close to 29 years of credited Inco service. In 1926 he was one of three men recommended by the CNR to overhaul and maintain the seven electric locomotives that Inco had purchased as the initial step in the electrification of its transportation system, and he notes with some pride that all seven of these pioneer locos are still in service, four at Coniston, one at Levack and two at Copper Cliff.

Born in Tynedock, England, in 1890, Fred married Matilda Morgan Stobbs in 1911, and in 1914 they embarked for Canada. Going directly to Calgary, where his parents were already located, Fred lost no time in starting to work — he arrived by train on Saturday and worked his first shift in the CPR shops the following Monday. When business slumped in the west in 1915 Fred moved to Sudbury where he worked underground at both Crean Hill and Creighton. He joined the Sudbury street railway in 1916, the year they inaugurated the Sudbury-Copper Cliff run. In 1921 he moved to Niagara Falls as foreman of the car barns



MR. AND MRS. LUMLEY

for the CNR who were then operating the exciting old radial cars. He moved from there to Copper Cliff in 1929 and carried on in his quiet, capable way as a locomotive doctor for 29 years.

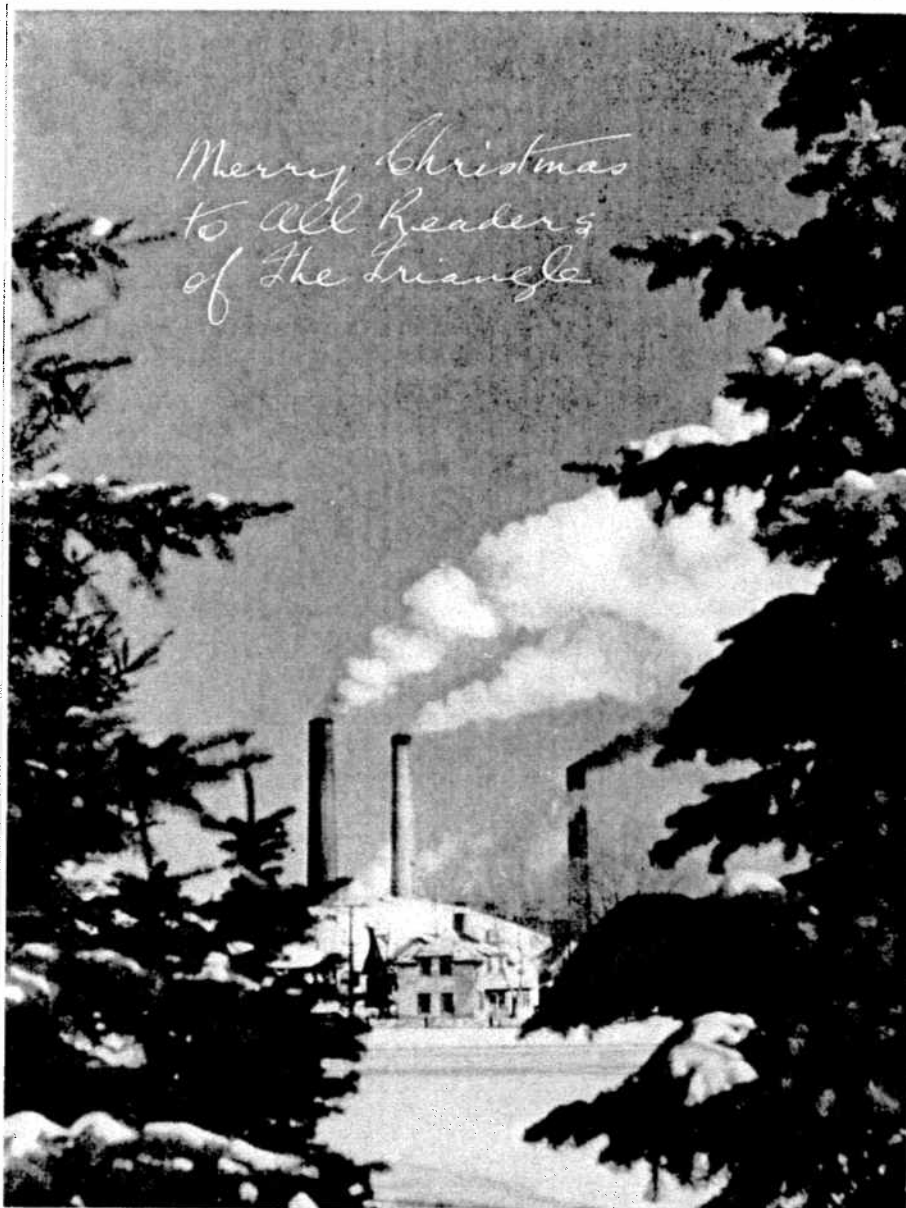
The Lumleys have one son Fred who recently retired on disability pension and now lives in Florida. Another son Chuck died in 1948. They have four grandchildren.

A dream of many years' standing was realized by them recently when they purchased a lovely new bungalow in Niagara Falls, a city they fell in love with almost 30 years ago. There they now happily reside.

NOTHING TO LOSE NOW

Warden — "Is there anything you fancy before the execution?"

Condemned Man — "Yes, mushrooms. I've always been scared to try them in case I'd be poisoned."



Meeting Two Well-Known Nickel Refinery Men



During a visit to the Nickel Refinery at Port Colborne President H. S. Wingate shook hands with Joe Nemes, a head stripper in the electrolytic department, and one of his men, Alex Ritter. Vice-President R. D. Parker and R. C. McQuire, manager of the nickel refining division, are the others in the picture.

Inco Window Beautiful Treatment of Christmas Theme



Always the object of study and admiration by passersby, many of who come that way especially to see it each time it is changed, the Inco window at the Sudbury Chamber of Commerce offices reaches new heights of artistry with this year's treatment of the Christmas theme. Beautifully designed figures of angels were made by paper sculpture. A model of the Chelmsford church, a blaze of light for mass on Christmas Eve, stands in the centre of the huge relief map of the Sudbury Basin, and on its rim are miniatures of the headframes of Inco mines, as well as other details of the district. Strikingly decorated Christmas trees, a special Yuletide treatment of the revolving globe, and a handsome greeting from the International Nickel Company are other features of this lovely display, which was created under the supervision of Harry Despard, the Toronto artist. The "littlest angel" lost in admiration of its beauty in the cover picture of this issue is Lively's Susan Hyde, daughter of Howard Hyde of the Iron Ore Plant.

Allan Brock Left Much to Show for His Unique Talents

Methods of mining ore in the Sudbury District have developed along with the growth of the nickel industry. The methods of the early days gave way to techniques by which larger tonnages could be produced as the demand for nickel increased. Deeper mining also had its influence on the methods, as did advances in the metallurgical treatment of the ore.

In intimate touch since 1910 with this steady progress, and personally responsible for much of it was Allan Brock, who recently retired from the post of mines operating engineer at Copper Cliff.

An "operator's engineer" rather than an "engineer's engineer", this quiet friendly man with the whimsical sense of humour and the unerring instinct for human values could always get an engineering project across to the operators without causing a bruise or a wound. Along with this happy talent he had the gift of being able to keep the broad plan for the future always in sight while busying himself with the details of the present. As a result he took part in much of the basic thinking by which the Company's mining department over the years has been able to anticipate and cope with the steadily increasing demand for nickel. These things plus his great memory for what's old and his lively interest in what's new, made his worth unique and admired without reserve throughout the organization.

"I first arrived in the Cliff on May 15 of 1910," he recalled for the Triangle, "with no money and no job, and saw Capt. John Lawson. Just as he was telling me that there was no opening for me, Rupert Macauley, the mine engineer, came in and said he could

use a man for the summer, so I was hired. That was a relief."

Allan Forster Brock had been born at St. Williams, on Long Point Bay of Lake Erie, on July 9, 1889, with the lure of mining in his blood. His father a storekeeper, sold out in 1898 just when his young son had grown enough to reach the gum drop jar, and went off to the Klondike to search for gold. He travelled the overland route from Edmonton through the Yukon with a party led by a visionary named Stewart, who came from Hamilton. They staked some claims which were later sold at a fair return.

His father's letters home made a career as a mining engineer irresistible to Allan, and after a year in Arts at Trinity College he en-



There was a big turnout to the party honoring A. F. Brock on his retirement. The sage of the Mines Department was presented with a watch to tell him the time of day, a statistic with which he has always carried on only a nodding acquaintance, especially before noon.

rolled in 1907 at the University of Toronto in Mining Engineering. He was still a student when he worked at Copper Cliff in 1910, but when he left to return to school that Fall he was promised a job after graduation, and he was back, Johnny-on-the-spot, to claim it on May 11, 1911.

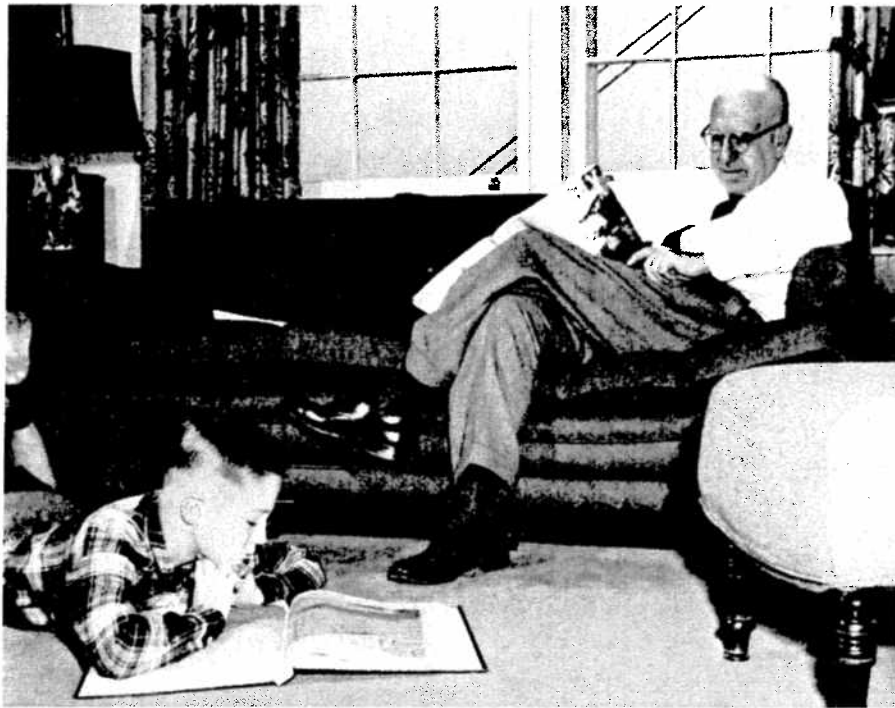
He remembers with amusement his first contact with A. P. Turner, then president of the Canadian Copper Co. "I was alone in the office shortly after I was hired, when he called up asking for a set of smelter construction drawings. I took him some drawings but they didn't happen to be the ones he asked for. That was bad."

Ore was first mined in the district by the open pit method, he says in retrospect. This was a natural development since the ore bodies first discovered were outcrops, usually on ridges where it was only necessary to strip the light covering of overburden and gossan before starting actual production.

The usual procedure was to sink shallow pits by hand-shovelling to a depth of 10 to 15 feet, then bench around the sides of the opening, shovel the broken ore from the bottom of the pit into stone boats or buckets, and hoist it with a derrick. By alternately sinking and benching, the pits were mined to a depth of 20 to 40 feet. To meet the problem of hoisting the ore as the open pits were deepened beyond the reach of the derricks, inclined shafts were sunk adjacent to the pits, and crosscuts were then driven from the shaft to the pit at the level of the pit bottom.

The next step in the development of this method of mining consisted of deepening the shaft, driving crosscuts into the ore body under the pit bottom, and raising from the crosscut to the pit floor. The ore was then blasted into the raise by benching. The broken ore was hand-shovelled into end dump cars on the crosscut level, trammed to the shafts, and dumped directly into skips.

The Evans, No. 2, No. 4, No. 5, No. 6, Frood, Stobie, Crean Hill, Kirkwood, North Star, Victoria, Blezard, Murray, and the Creighton mines were all first brought into production by the open pit method. The open pits on some properties were mined to



Widely informed on a seemingly endless variety of things, Allan Brock is a wonderful companion for a bright boy with one of those travelling minds. He's seen with his grandson Tommy Creet, off on a trip to the moon and other points Up.

a depth of 60 to 80 feet. At the Creighton mine, however, where 3,000,000 tons of ore was produced by the open pit method, the pit was extended to a depth of 200 feet.

During the two years following Allan Brock's arrival, open pit mining was going on at Creighton from the 3rd level to surface; the "heading and bench" method was being used on the 4th level, and shrinkage stoping with dry-wall drifts on the 5th level. The 6th level was laid out for shrinkage stoping with the sill at 25 feet above base of rail. Time was marching on. At Crean Hill there was open pit mining above the 2nd level, and cut-and-fill on the 4th and 5th levels. At No. 3 Mine there was shrinkage stoping.

Below 6 level at Creighton was started a system of stopes 60 feet wide, pillars 15 feet wide with footwall drifts and crosscuts on the levels, and sub-level drifts in the footwall between levels. This, Mr. Brock says, was the birth of the system of footwall branch raises with pulling stations, later used below 20 level.

After taking his turn as survey helper, draughtsman, and transitman, Allan Brock became head surveyor, working out of the Copper Cliff office. By 1915 he had either supervised or completed himself the survey work required in deepening the Crean Hill shaft, No. 1 and No. 2 shafts at Creighton, No. 1 and No. 2 shafts at Frood, and the Vermillion Mine shaft.

From 1911 to 1913 he lived at the Yellow Club, where the Bank of Toronto now stands in Copper Cliff. He moved to the Engineers Club when it was opened in the Fall of 1913. In 1911 at Crean Hill he had met Doc Harris, Dunc MacKinnon, and Jack Treasure. Ed. Austin, superintendent at Coniston had also arrived at Copper Cliff in 1911. Cards and snowshoeing were recreation in the winter months, and tennis and fishing in the summer.

Inco survey headquarters were moved to Creighton in 1915, so Allan Brock was on the scene at that grand old producer when operations, drastically curtailed following the declaration of war, were greatly expanded as nickel proved its value in armour plate. No. 3 Shaft was started that year and completed to 1600 level. In 1916 the new surface plant

was built.

In July of 1919 Mr. Brock moved back to Copper Cliff as mine engineer, succeeding Lewis Parsons, and there he remained until October of 1928. When all mines were closed down in 1921 and the mine engineering staff dispersed, he was the only one left in the department, but after the resumption of mining in 1922 his staff was gradually recalled. By 1925 expansion plans were again under way and drilling was started at Frood to determine the ore outlines between 1600 and 3000 levels.

No. 3 Shaft at Frood was started in 1926 with the intention of sinking to 2000 level, but drill core from below 2000 was so promising that the plans were changed, the shaft continued to 2800 level, and the lower levels 2000 to 2800 developed. This dramatic discovery of the richer orebody at depth at Frood was, in Mr. Brock's opinion, one of the most fascinating developments in the history of the district, ranking with the finding of the west orebody and the 117 orebody by deep drilling at Creighton just when it was feared the mine was through.

Allan Brock was assistant superintendent at Frood when the 2800 level crosscut finally reached the orebody 2,000 feet from the shaft. It was he who brought up from the mine the first sample of the ore in the early evening of that historic day, and was instructed to take it to Copper Cliff where John L. Agnew, J. C. Nicholls, and Donald MacAskill were eagerly waiting to see it.

In 1938 he was made superintendent of Frood Open Pit, and in 1940 was brought to Copper Cliff to plan the mines expansion program made necessary by the wartime demand for nickel. His close association with the development of mining methods, and his almost stope-by-stope knowledge of the mines of the district, gave him a unique and invaluable background for his work.

He was married at Port Rowan in 1914 to Stella Stearns, who died in 1945 after a lengthy illness. His daughter Betty is the wife of Norman Creet of Murray Mine. His two grandchildren are a constant delight to him. Since retiring he has taken as his wife the charming Helen Thompson of Sudbury, and to them are extended best wishes for a long time of happiness together.

Edmund Wise up the Ladder in D&R Dept.

The appointment of Edmund M. Wise to be assistant to the vice-president-manager of the development and research division of Inco, was announced today by F. L. LaQue, vice-president and manager of the division.

Mr. Wise graduated in metallurgy from the University of Wisconsin in 1919. After service with the Wadsworth Watch Case Company as metallurgist and director of research he joined Inco in 1927 to take charge of platinum metals research at the research laboratory at Bayonne, New Jersey. While there, he became assistant manager and general staff advisor. In 1933 he moved to the New York office of Inco to be head of the development and research activities in the fields of platinum metals and applied physics.

He is a member of several technical societies and has contributed importantly to the technical literature on the age hardening of non-ferrous alloys as well as platinum in its many fields of application, plus numerous papers on the magnetic and other electrical properties of nickel and nickel alloys, especially as used in electronic devices.

He has also been concerned with air-borne geophysical devices and the smelting and refining of metals.

Mr. Wise has made a large number of inventions covered by more than 50 patents.

In his new position, Mr. Wise will continue to devote special attention to platinum metals and applied physics while bringing his extensive knowledge and experience to bear over the broad range of materials and processes with which the development and research division is concerned.

Say, Let's Make That Italian Caviar



One of the tasty dishes for which the ladies of the Italian Club at Copper Cliff are justly famous is Italian Caviar, which Mrs. A. Didone and Mrs. A. Camillucci are busily preparing in the above picture. Here's the recipe for this sure-fire palate pleaser:

ITALIAN CAVIAR

(Serving for 4)

- 6 carrots, sliced thin.
- 6 onions, sliced.
- 1 lb. pork and veal, minced.
- 1 cup tomato juice.
- Olive oil, salt and pepper.

Put oil in saucepan, put meat in and fry until brown, add carrots, and lastly add onions and tomato juice, salt and pepper, then let bake in oven (350 deg.) for 1½ hours. Advise Triangle editorial office when ready to eat, we'll be right over.



MEDICAL STAFF: 1
with his wife and the

INCO



FROOD - STOBIE: Mr. and Mrs. Vern Ritzel with Billy, 6, Kathleen, 15, holding Gary, 7 mos., Judy, 13, holding David, also 7 mos., and Jim, 11.

CONISTON SMELTER: Mr. and Mrs. Michael Small with Rosemary, 3, Ralph, 6 mos., Michele, 5, Ray, 2, Bob, 6, and George, 10.



COPPER REFINERY
Mrs. Stan Mitchell and



GARSON MINE: Mr. and Mrs. Jack Laking with their two fine young sons, Junior, 9, and Allen, 6.

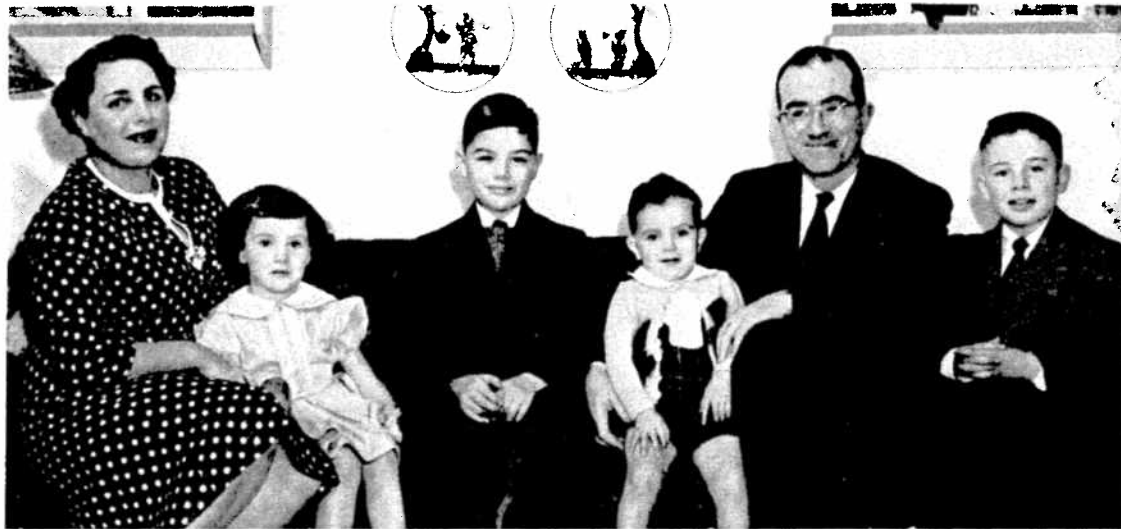
IRON ORE PLANT: Mr. and Mrs. Bill Hurteau, photographed with David, 7, and Patricia, 5.



MURRAY MINE: M
McCorriston and son,



Phillip Cullen of Sudbury,
daughter Barbara, almost 3.



COPPER CLIFF SMELTER: Mr. and Mrs. Russ Chambers and their fine young family, Carol, 5, Brent, 9½, Rodney, 2, and Gordon, 11. (One skimmer and three punchers).

MILLY ALBUM



Mr. and Mrs. Green, 5.
LAWSON QUARRY: Mr. and Mrs. Lloyd Kitler and Ralph, 9 mos.



CREIGHTON MINE: Mr. and Mrs. Charlie McFarlane who reside in Lively with Barney 3, Nancy, 5, Bobby, 11, Patsy, 12, Gerry, 13, and Peggy, 16.



and Mrs. Howard
y, 2 mos.



FROOD-STOBIE OPEN PIT: Mr. and Mrs. Hubert Bouchard with Carol, 10, Judy, 7, Sandra, 6, Nancy, 3.



LEVACK MINE: Mr. and Mrs. Ken Belter with Wayne, 5, and Valerie, 2.



An event to which all concerned look forward with pleasant anticipation is the annual Yuletide visit by representatives of the Company to the pensioners residing in the Port Colborne and Sudbury areas. The visitors bring news of recent developments in Inco's operations and of former workmates and cronies, as well as the very welcome Christmas bonus cheque which is issued to pensioners as well as to employees on active service. On the left above Jack Cullen, now of West Ferris, brings the Company's greetings to another former Froodian, Bill Petheram of Sudbury, and Mrs. Petheram. On the right Duncan Finlayson, former smelters superintendent, extends compliments of the Christmas season to Mr. and Mrs. Andy Walker of Coniston.

Inco to Make Supplemental Payments To Pensioners Retiring Prior to 1951

A fine Christmas box for International Nickel Company pensioners who retired before 1951 is the news that the Company will make supplemental monthly payments to them commencing in January.

In a letter to the pensioners dated December 22 President Henry S. Wingate said the Company has been concerned for some

time with the difficulties facing many of its pensioners retiring before 1951 whose pensions were affected by the abnormal economic conditions brought about by World War 2. Accordingly on the instructions of the board of directors the problem was surveyed most carefully at each of the plant communities.



At Port Colborne W. J. Freeman on behalf of the Company wishes the compliments of the season to a well-known Nickel Refinery pensioner, Dominic Conecssi, and his wife.

Although it was evident from this study that Inco's retirement system continues to be one of the most liberal plans in Canada and is based on a formula which is fair and reasonable, the board of directors decided to grant supplemental payments to regular pensioners who retired before or during World War 2 or within the period of five calendar years immediately following the end of the war.

In determining what supplemental payments should be made at the plants in the Sudbury and Port Colborne areas, each individual pension was considered, and as a result the Company has in general adopted the objective of raising the existing pensions of the pensioners to approximately what they would have been if the pensioners in their last five years of service had been receiving the wages or salaries which prevailed in the Company's plants during the five years prior to 1951.

Pensioners who retired during 1951 or afterwards have already received in their pension calculation the benefits of the wage or salary levels prevailing in the five post-war years, and consequently are not among those who will receive supplemental monthly payments. Those who retired during the war or earlier did not enjoy any of the benefits of the post-war wage and salary levels and will therefore be receiving the largest supplemental payments. However, those who retired during the five post-war years have already received some of the benefits of the wage and salary levels of this period and accordingly their supplemental payments will not be as large.

Commencing with January the pensioners affected by this change will receive separate monthly cheques for their supplemental payments directly from the Company, as well as receiving their regular monthly pension cheques from the trust fund of the retirement system.

The misfortunes hardest to bear are those which never happen.



Safety glasses have saved many an eye from flying chips of rock. Driller L. Dalcourt (left) of Garson Mine has worn prescription safety glasses continuously in shaft sinking and in the stopes. The old story that a raise driller can't wear safety glasses is disproved by Leonard Perreault (right) of Creighton Mine, who has been driving raises for three years and has worn



prescription safety glasses collar to collar. Driller L. Dalcourt (left) of Garson Mine has worn prescription safety glasses continuously in shaft sinking and in the stopes. The old story that a raise driller can't wear safety glasses is disproved by Leonard Perreault (right) of Creighton Mine, who has been driving raises for three years and has worn

Eye Protection Is Indispensable Says Safety Supt.

An eye protection program has been introduced at Inco mines and reduction plants. Since it can be expected that some questions may arise and certain objections be offered regarding the wearing of safety glasses, cup goggles, monogoggles, cover-all glasses and other forms of eye protective equipment, the Triangle interviewed Safety Superintendent A. E. O'Brien on the subject.

"No man can afford the luxury of risking the loss of his eyes," Mr. O'Brien said. "You may eat with false teeth, walk with an arti-

ficial leg or even legs but you cannot see with an artificial eye. Try closing your eyes for thirty seconds and thinking what it would be like to be permanently blind. And yet there are men who have lost an eye or even two eyes because they did not wear eye protection that was available. Of the injuries reported at our First Aid stations, one out of every six or seven at the mines and one out of every five at the smelters, was an eye injury."

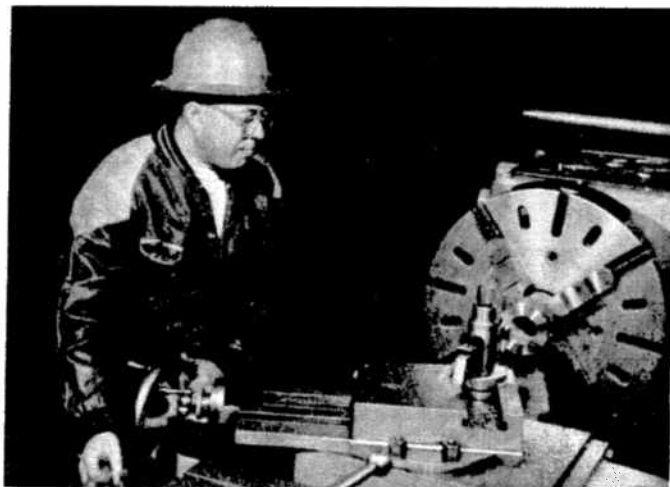
"An out-of-date alibi for not wearing eye protection is frequently offered," Mr. O'Brien said. "Previously it was considered that eye protection could not be worn in many occupations. It was said that drillers, mechanics, trackmen and others could not wear eye protection for various reasons that now have been proved to be wrong."

The Safety Superintendent recalled previous issues of the Triangle in which were published pictures of men whose eyes were saved by the wearing of safety glasses. He urged all readers to note. The accompanying-

(Continued on Page 14)

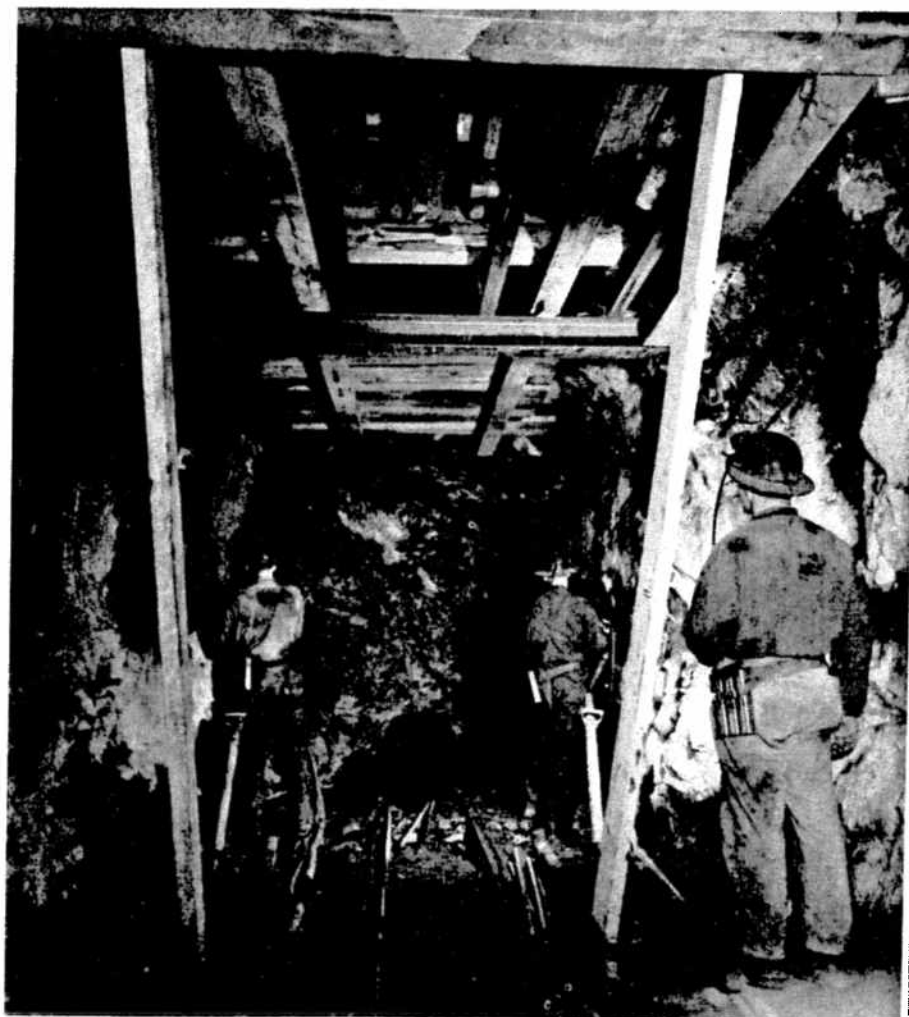
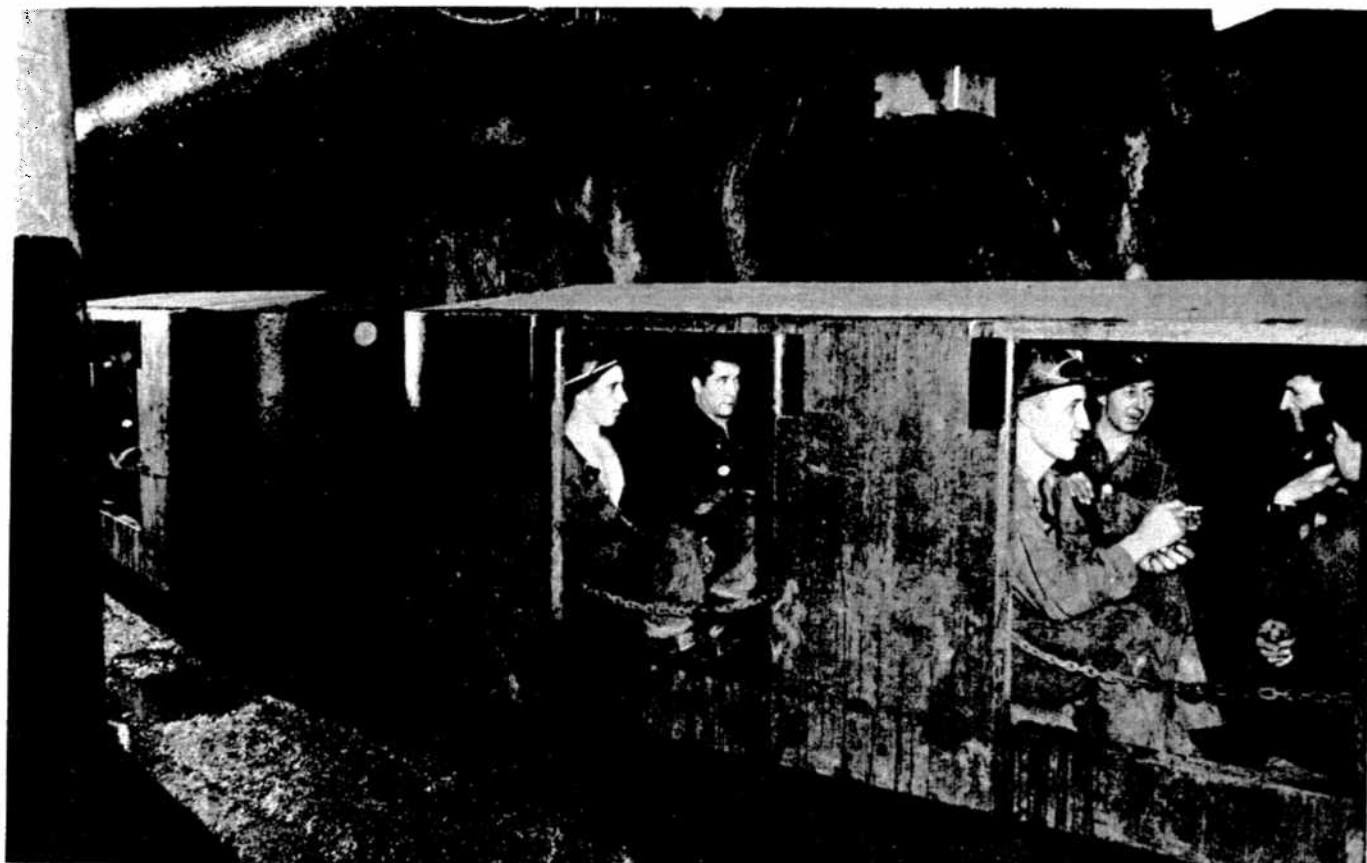


Motorman Stanley Clements has worn prescription safety glasses collar to collar for the past seven years at Garson Mine.



Safety glasses are important to machinist 1st class Art Roy (left) of the Copper Refinery as protection from metal cuttings possibly flying from his own or a neighboring lathe. Guards are installed on saws to prevent injuries to the operators but eye protection is also necessary. Eugene Lalancette and Oiva Kaatari of Garson Mine are among the many shops men who wear safety glasses throughout the shift.





Creighton Subway More than a Mile Below the Surface

Winner of many an Oscar during its long and colorful history, the grand old Creighton has come up with still another claim to fame — one of the deepest subways in the world.

On Creighton Mine's 68 level, more than a mile below the surface, a small train is in daily operation transporting men from the shaft station to their work in a development heading more than two miles away.

Similar service with larger cars is provided by the Company for men on 1600 and 2650 levels at Levack who have an unusually long distance to travel to reach their working places, and will also be installed later at other mines, but at none will the subway come anywhere near challenging Creighton's for depth.

In the above photograph part of the 68 level train is seen. The cars are made of steel and seat eight men comfortably. They are pulled by a battery locomotive which is also used for taking in supplies and bringing out broken rock from the drifting operation.

The picture at the left shows the 68 level development heading at the start of a day's shift. The previous shift has boomed out, mucked out the face, installed track, extended the ventilation line, and rock-bolted the walls. The two drillers just tuning up their airleg machines are Karl Stelzenmueller and Isadore Lavigne, and the man standing at the right is their shift boss, Bill Bangerter. The braced ladders provide anchorage for the air legs of the drills.

It will be noted that steel beams are being used, the latest style at Inco in this



Here men emerge from the cage on 68 level at Creighton Mine and go to board their subway train to ride to their working place. At the left is the shift boss, Bill Bangerter. The cager, Abe Heppner, is the man standing in the background beneath the safety sign, and that handsome hombre with the signal light fastened to his belt is the switchman, Alex Bzialowski.

type of mining operation. They are made of two 5-inch I-beams welded into a box beam, are much more convenient to handle than the big wooden timbers, and will be more economical in the long run.

It would be difficult to find a better example of the effectiveness of rock bolting than in this deep level drifting project, where progress would be considerably reduced if it were necessary to stand bulky timber sets for ground support. As will be noticed in the picture, rock bolts are being installed beneath the beams in the pin sets and also between them, to prevent slabbing.

And that's the "lowdown" on this efficient little operation that goes on day in and day out 5,425 feet below ground at Creighton — served by one of the deepest subways in the world.

'Am I Ever Lucky' Says Frank Revais Now a Pensioner

As he sat in his cosy little Coniston home and thought of the security guaranteed by his pension, Frank Revais said "It was kind of tough going at times but am I ever lucky to have stayed in one place for 31 years, especially with a company like Inco," ... "and you can quote me on that," he added with a grin.

Born in Joliette, P.Q., but raised and educated in Vermont and New Hampshire until 1909 when the family moved to St. Charles, Frank was a cheesemaker for many years before starting work in the sinter plant at Coniston smelter in 1924.

He was married in 1920 at St. Charles to pretty Louise Dupuis. With the exception of Maurice, who is a bus driver, all their family are associated with Inco: Leonard and Alphe, and Clare's husband Harold Smith, all work in the mechanical department at Coniston and Aline's husband, Emelio Corelli, is a crane-man at Copper Cliff. They have 11 grandchildren.



MR. AND MRS. FRANK REVAIS

Frank has a well-equipped workshop at the rear of his home where he expects to while away many a contented hour at his wood-working hobby. That's fine, teases his wife, just so long as he isn't tormenting me with square dance music on that old fiddle of his.

So all is well with the Revais family, and everyone hopes it will stay that way.

FAME COMES TO BILL HUDGINS

The Canadian sporting spotlight this month singled out Bill Hudgins of Inco's research department at Copper Cliff. He and his Labrador Retriever, Paddy, are the featured stars in a duck-hunting story entitled "Blacks at Copper Cliff" which appears in *Forest and Outdoors* for November.

"A well-trained dog is a joy to watch and this retriever knows his job and loves his work," says the caption under a picture of Paddy delivering a duck to his master.

The picture story originally appeared in the *Triangle* of November 1953.

His Reputation as Skimmer Excellent

Tony Moroso, who retired recently with almost 40 years of credited service, has a reputation as one of the best skimmers ever to pull a blast lever or wield a test bar in the converter aisle at Copper Cliff. Already he is missed by all his workmates, and they can rest assured the feeling is mutual — Tony is even lonesome for some of the more cantankerous converter shells.

Born in Northern Italy in 1890, Tony married Gema Floriani and they set out for Canada in 1913, finding employment and a home in Copper Cliff. Tony worked up through several different jobs achieving the thrill of a skimmer's rating in 1923. He took pride in making not just good matte but the best matte. He gives part of the credit for his success to his tuyere punchers



MR. AND MRS. TONY MOROSO

down through the years — Frank Matte, Harry Gilbert, Andy Ballantyne and the others were all "good boys" he recalls with a grin.

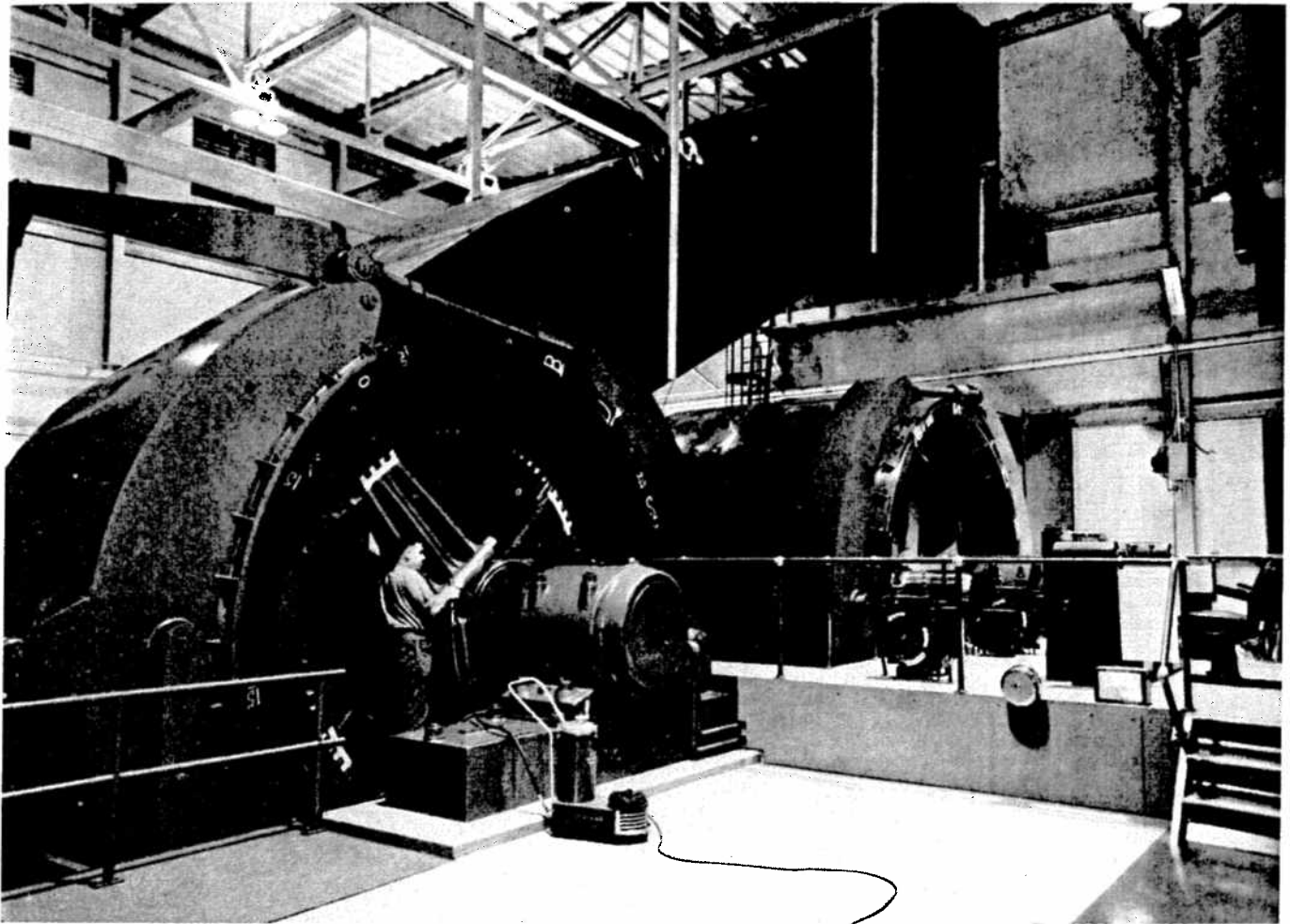
Tony and his good wife are considering paying a visit to their homeland, a project which is being given every encouragement by the three members of their family, Jack, who lives in Hamilton, Valli, Mrs. Norman Ceppetelli of Copper Cliff, and Derma, Mrs. George Case of Sudbury.



THE FAMOUS CAKE

Mrs. Blackmore, "cover cook" on the November issue of the *Triangle*, received almost 100 telephone calls from women thanking her for the recipe of her Rich Christmas Cake. Her lucky husband George is seen above on the left, making his chief, Stuart McKenzie of Frood-Stobie electrical department, drool with envy as he nibbles a piece of the famous cake during lunch hour.

New Murray Mine Ore Hoist a Striking Sight



Its tandem drums measuring 14 feet in diameter, the huge new hoist at Murray Mine makes a handsome sight in its spotless surroundings. The hoistman, Harry Harrower, is taking advantage of a lull in his schedule to give it some attention with the electrical greasing machine. Similar to those recently installed at Frood-Stobie and Levack, it is one of the largest in the world, and the hoist can be controlled automatically from the loading pockets on 1650 and 3000 levels. It is driven by two 3,000 h.p. d.c. motors and hoists 15-ton loads of ore in bottom-dump skips at 3,000 feet per minute.



CHRISTMAS SURPRISE

For doing a little brainwork above and beyond the call of duty that resulted in a smart improvement to the equipment in the separation building, Gordon Bruce received a classy Christmas box in the form of a Suggestion Plan cheque for \$340.00. Here Alf Simmons, maintenance mechanic foreman, enthuses with Gordon over his good fortune.

Eye Protection

(Continued from Page 11)

ing photographs of a few examples at the mines and plants where drillers, mechanics and others have been wearing safety glasses 100% of the time they are at work. Many of these men, he said, wear prescription safety glasses. "If you have any doubt as to their personal opinion on eye protective equipment, ask these men. They will be glad to give you the information."

"In blasting accidents, handling hot metal, acids and caustics, working on lathes, saws and other machinery, records at Inco and many other companies are continually showing instances where eyes were saved by the wearing of eye protective equipment," Mr. O'Brien stated. Practically every eye injury is a careless accident and has to be classed as such because it can be avoided. The earnest effort and co-operation of all employees are requested in making our eye protection program a success. Don't forget, the eyes you save may be your own."

CURTAIN!

The young lover was trying hard, but the sweet young thing was unimpressed.

He (sighing) — Those lovely soft hands. Your warm lips. And those beautiful eyes! Where did you get those eyes?

She — They came with my head.



RAPID CITY RENDEZVOUS

Making their way home to California via Quebec and Nova Scotia after spending the summer at their camp on Lake Penage, Mr. and Mrs. S. A. Crandall kept a long-arranged rendezvous with their family at Rapid City, S.D. Within an hour of their arrival their son John with his wife Zona and their 10-mos.-old son drove in from California, and two hours later their son Arnold landed in from Mystery Lake, Man., on a vacation trip with his wife Sheilagh, their son and twin daughters. Above is a snap of the happy reunion.

Everything Dandy at the Circle 8 Square Dance Club



Checking back to find how things have been going with the Circle 8 Square Dance Club at Memorial Hall, Sudbury, since it was written up in the Christmas issue last year, the Triangle found this group healthy and happy as a pack of young coyotes.

Their ranks have grown from 100 to 250 members, representing all points in the district, and they have so effectively spread the gospel of their cult that branches are thriving in Garson, Lively, and Lockerby with upwards of 100 members so far enrolled there.

Rickey Holden, an ex-Texan who is making a Canada-wide tour visiting square dance clubs, was the guest caller the evening the above photograph was made. He had some fine things to say about the calibre of Circle 8 dancing, which he found compared with the best he'd seen in some of the old-established clubs out West.

Bill Castner of Alameda, California, will be the caller at the Circle 8's New Year's Eve party, which will be held in the hall of the Church of the Epiphany. The 140 available tickets were snapped up like uranium shares.

Professor Les McDougall, the Westerner with the inborn smile and the outgoing personality who got modern square dancing on the go in Sudbury a year or so ago, continues as the spiritual leader and head teacher of the movement. He and Clyde Dunsmore, Russ Alexander and the others who have

sparked it to its steadily growing popularity, think it's just about the most enjoyable social activity in town because it's good fun, it's interesting, it's a wonderful way to get to know people, it's easy on the pocketbook and easier still on the aspirin bottle. They've got something there.

Coterino, Giovanni New Pensioners

When brother Luigi wrote home to Italy singing the praises of Canada in general and Coniston in particular, 18-year-old Giacomo Antoniazzi said, "That's for me," and soon was Westward Ho. In 1915, after

doing construction work in the district for a year, he signed on with Mond Nickel Co. at the Coniston smelter, where he was a skimmer during the last seven years of his employment.

Now a quietly happy Inco pensioner, residing at the comfortable Nickel Club in Coniston, Giovanni likes nothing better than a good go at trecet, the popular card game that combines certain features of 500 and bridge plus a generous serving of sign language.

Another well-known recent addition to the ranks of the pensioners was Coterino Condotta of the concentrator at Copper Cliff, who has been sidelined by a disability after 21 years' service. Born in Trevisa, Italy, in 1902, Coterino came to Canada in 1923 and has won fame by foiling the wildest efforts of some of the most beautiful women in the Nickel Belt to ensnare him in matrimony.

Coterino lives with his sister, Mrs. Pietro Bettio, in Copper Cliff. He made a trip to Italy in 1945 and now plans another visit to the old land to see his mother.



Coterino Condotta



Giacomo Antoniazzi

A TOUGH SPOT

Small boy — I just knocked over the ladder in the garden, mama.

Mama — Well, you better tell your daddy.

Small boy — He knows. He's hanging from the bedroom window.

SNAPSHOTS OF LIFE WITH INCO



Now here's a surprise for Christmas morning — four stockings bulging with four adorable floppy-eared little dachshund puppies. What a thrill that would be! Posing as Little Miss Santa Claus is Leslie, 5-year-old daughter of Mr. and Mrs. Bill Lawton of Levack.



A big thrill for Joanne and Sandra Grimaldi while Christmas shopping with their parents at Woolworth's in Port Colborne was a ride on Jumbo and Donald Duck. Their dad Benny Grimaldi works in No. 5 Building at the Nickel Refinery.



Cammie and Brenda, 17-mos.-old twins of Mr. and Mrs. Roy Longfellow, Copper Cliff, very obviously enjoy their "cookie break" almost as much as the Mother Goose rhymes their mother has been reading to them.



Bad aim was all that saved the Triangle camera man from some snow in the snoot as he snapped a shutter at these frolicsome Levack youngsters, Jimmy Conley, Vicki Young, and Brian Young.



Never before has toyland held such a breath-taking variety of wonderful gifts for Christmas, and never before have people been so able or willing to buy them. Merchants say all records will be broken. With a helping hand from service clubs and other good people who make a habit of kindness, as well as from loving parents and friends, Santa will have the time of his life, God bless him.