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Standard Square-Set Stope in Miniature

SEE STORY ON PAGE 10





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Where Do Our Products Go?

Some Uses of INCONEL

Inconel contains approximately 78% nickel, 14% chromium and 6% iron. It is available in the regular mill forms and as castings. The nine principal fields in which it is used are as follows:

Aircraft: The preferred material for exhaust collector rings, packing, flame arrestors, cabin heaters, air preheating and carburetor de-icing equipment is Inconel.

Chemical Industry: As Inconel is extremely resistant to corrosion by organic chemicals such as fatty acids, coal tar products and alkaline sulphur compounds, it is used for equipment in manufacturing these products.

Dairy Industry: Inconel provides a good combination of resistance to corrosion by dairy products and by refrigerating brines and other cooling media.

Electric Heating Ranges: One of the most suitable materials for covering heating elements in electric ranges is Inconel, since it will withstand repeated heating and cooling without suffering from scaling or other effects of exposure to elevated temperatures.

Food Industry: Inconel is particularly immune to corrosion and tarnishing by all foods. It protects them from undesirable contamination and is well suited for use in contact with alcoholic beverages, such as wines and distilled liquors, and for gelatin drying vats.

Heat Treating Industry: Superior resistance to oxidation accounts for uses for nitriding equipment, pyrometer protection tubes, furnace muffles and hearths, annealing tubes, and salt bath electrodes.

Photography: Inconel is used extensively for photographic processing equipment in both preparation and development of film. It is particularly useful for the handling of acid fixing baths in commercial work.

Power: Inconel springs and Bourdon tubing have superior mechanical properties and the ability to maintain these properties at temperatures above the useful range of most other materials. Inconel valve trim is highly resistant to erosion by wet steam under conditions that induce severe wear.

Textiles: Inconel is an excellent material for equipment used in the dyeing of wool with acid and chrome acid colors, in the application of diazotized and developed colors, and in dyeing with sulphur colors.

THE OLD PERCENTAGE

A Scotchman entered a saddlery shop and asked for a single spur.

"Why only one?" asked the salesman.

"Well," replied Sandy, "If I can get one side of the horse to go, the other side will have to go with it."

Hey Kids! Look Who's Here!



Shades of Barnum & Bailey, Al G. Barnes, and Ringling Bros.! The good old days will be back again from June 24 to 27, when a real honest-to-goodness circus, complete with lions 'n' tigers, 'n' everything, opens a four-day stand in Stanley Stadium at Copper Cliff.

It's the Garden Bros. circus, and it's brought to the Nickel Belt by the Sudbury Shrine Club. Proceeds will go to the notable charity work of the Shriners, including the special hospital treatment of underprivileged crippled children.

Here are some of the attractions: acrobats,

military ponies, Siberian bears, trained dogs, trick bicycle riders, Latin-American high trapeze artists, teeter board performers, lions, tigers, elephants, the Flying Melzoras on the high trapeze, and, of course, the funny funny clowns.

There'll be a performance every night, and a full matinee every afternoon at reduced prices for the children.

Brother, we can hardly wait. Turn backward, turn backward, O time in thy flight... cover that bald spot, just for tonight!

Their Records Explode Mining Myth



There are people at large in this queer world who have the idea that mining, generally speaking, is strictly a young man's game, too tough for the oldsters. What an awakening these souls would get if they took a look at the service records of Inco miners. Pictured here, for example, is a group of veterans picked at random from the ranks at Frood Mine. Every one is still doing a full day's work underground. Their names, and the dates they joined the Company: left to right, front row, Billy Kraznozomyk, timberman, 1914; A. Kallio, pillar leader, 1921; John Suaranta, timberman on construction, 1926; Frank Pagararo, pillar boss, 1926; Jack Lyle, motorman, 1925 (he's 65 years old and due for pension this year); back row, Adelard Roy, pillar boss, 1921; S. Despot, pillar leader, 1926; Emmett Mousseau, raiseman, 1926; Bill Stevens, motorman, 1926; Ed. Cayen, raiseman, 1921. Stevens saw service with the Navy in the Second Great War, and Mousseau was in the Army.



Realism Spiced With Comedy at First Aid Party

A graphic demonstration by a mine rescue team featured the second annual Frood First Aid party at the Inco Club Saturday evening, May 4. Mine Supt. A. E. O'Brien presented First Aid certificates to 43 men who had qualified in St. John Ambulance training.

With Ray Davis at the microphone to give the audience of 100 people a play-by-play explanation of what was going on, the mine rescue team went into action. The stage had been cleverly set to depict a typical level in a mine of the district. A fire warning had gone out to the men in the working places and all had gained the safety of the refuge station except one man, who was presumed to be either injured or overcome by monoxide gas. He was lying unconscious beside the track.

Realistic Exhibition

The rescuers, wearing McCaa breathing apparatus, established a fresh air base, located the victim, and went to his aid with a timber truck carrying First Aid kit, inhalator, blankets and stretcher. Working swiftly and surely, the team treated the unconscious miner and carried out their assignment. Wisps of gas in the air, and the clever setting of the stage, made the display extremely effective.

In the top picture of the accompanying layout the mine rescue team is seen using the inhalator to revive the victim, who has been placed on the timber truck. Left to right, members of the team were Bob Mitchell, Orville Graham, Bill Schneider, Weir Stringer (applying artificial respiration), Fred Wharton, and Jack Watkins. Taking the part of the injured miner was Ole Eden.

Romeo Took The Count

In the middle picture is seen the sad accompaniment to a romantic moment in the life of Master of Ceremonies Ted Dash. Apparently overcome by the happiness of the evening, Crooner Dash planted a chaste caress on the cheek of Songstress Betty Gibson, who promptly swooned. Recovering swiftly, she swung a snappy right to the jaw of the dashing Dash, who went down for the count. The mine rescue team again went into action to revive the ruined Romeo, while the crowd roared its appreciation. Note the complete lack of pain on genial Ted's face as he lies prone. It must have been worth it.

Some of The Dancers

In the bottom picture are some of the merry-makers at the dance which followed the demonstration: standing, left to right, around the table, Bill Regan, Dan O'Connell, Tom Kierans, George Deschene, Jimmy Vettorel, and Jimmy Gordon; seated, Mr. and Mrs. D. L. McKinnon, Ed. O'Callahan, Mrs. Kierans, Mrs. Tom Hogan and Tom, Mr. and Mrs. Ted Godard, Mrs. Gordon, Mrs. Regan, Mrs. Vettorel, Mrs. O'Connell.

Noteworthy was a keynote struck by Supt. O'Brien in his address:

"The knowledge of mine rescue work and First Aid is not a personal matter with the miners. It is a matter jointly shared by their fellow employees, their wives and families. A man who joins the First Aid group shows that he is also interested in the welfare of the other fellow. Then he becomes a credit to the mine and to the community."

HOW IT ALL STARTED

The first woman who started to do driving from the back seat is said to have had a husband who did cooking from the dining room table.





Hot Contest in Inter-Plant Pin Marathon

Paced by Jack Romanow, who spilled the maples for a total of 1295, the Copper Cliff entry copped the Inco inter-plant bowling championship in a rousing tournament at the Sudbury club, nosing out Creighton Mine, last year's titlists, by 116 pins over a five-game route.

The Cliffites proved their win was no flash in the pan when they came back a week later to repeat in the Inco Club's own inter-plant event, although Creighton was not entered in this show.

Final standing of the teams was:

Copper Cliff	5712
Creighton	5596
Frood	5346
Copper Refinery	5236
Murray-Garson	5224
Copper Cliff Club	4813

Excitement was intense throughout the contest, and at times the volume of rooting and coaching threatened to blow out the walls of the alleys. There was some great bowling under pressure, and the winners proved themselves worthy of their laurels when the heat was on.

Bud Osborne of the Murray-Garson team scored the high single of the meet, a nicely rolled 128. Edna Johnson's 125 was second. Prize for the best average went to Billy Baby of Frood with 254.

Presentation of the trophy and medals took place during a social hour after the contest, G. S. Jarrett doing the honors. After extending hearty congratulations to the champions, he expressed the hope that an inter-plant league might be organized next season, now that wartime restrictions on gas and tires are lifted.

BOX SCORE

Here's how the two leading teams scored in the match:

COPPER CLIFF: 1201-1118-1092-1200-1101-5712.

Romanow: 401-247-218-283-246 -- 1295; Bertuzzi: 253-195-192-182-217 -- 1039; Johnson: 246-265-227-225-172 -- 1235; Bronson: 168-186-258-258-228 -- 1045; Harry: 233-225-197-152-238 -- 1101.

CREIGHTON: 1210-1065-1107-1022-1172-5596.

Bruce: 191-268-258-194-291 -- 1202; Hrel-jac: 286-211-153-274-182 -- 1106; Staples:

243-176, 247-194, 210 — 1062; Narasanki: 311-252, 222-185-186 — 1136; Seawright: 197-178-252, 175-101 — 1090.

THE PICTURES

1—G. S. Jarrett, who presented the trophy: Captain Gordon Harry and the winning Copper Cliff team, Edna Johnston, Ego Bertuzzi, Jack Romanow, and Charlie Bronson.

2—The Creighton entry, runners-up: Milton Bruce, Harry Narasanki, Bob Seawright, Matt Hreljac, and Ev. Staples.

3—The Murray-Garson lineup, finished

6th: Ed. St. Marselle, Don Leduc, Bud Osborne (winner of the high single prize), Eli Simon, and Red McLelland.

4—The squad from the Copper Cliff Club, which had to be satisfied with collar position: Don Ferguson, Tom Crowther, Bill DeSoto, Clarence Beach, and George Sver.

5—Copper Refinery's entry, which finished fourth: Pete Bobinac, Con Smythers, Bert Bernard, Pete Martin, and Charlie Trigg.

6—Frood Mine's representatives, who came third: Mel McNichol, Bill Baby, Ovy Cyr, Bill Stephens, and Angus McDonald.

WELDERS AND BURNERS GIVEN TIPS ON NEW TECHNIQUES



BUT for the magic performed by the welders and burners of the mechanical departments with their oxy-acetylene flames and electric arcs, Inco operating crews would be hard put to dodge the difficulties that beset them daily. Proficient as they are, however, the mechanical men lose no opportunity to keep in touch with the latest wrinkles in their business, and they turned out in large numbers to the two-day instructional clinic recently staged for them at Copper Cliff and Sudbury by Canadian Liquid Air Company.

Besides laying heavy stress on Safety, lecturers at the clinic brought information to Inco welders on the latest techniques used in long-established processes such as braze-welding, pipe-welding, etc., as well as introducing new, or comparatively new, processes. Among the latter, flame conditioning of steel was quite impressive. This method can be used to remove rust, scale, or paint from steel in a matter of seconds. It also dehydrates the surface, leaving an ideal base for painting.

Safety Was Stressed

Safe practices in the use of oxy-acetylene equipment received special attention at the clinic. Among the points stressed was the warning never to use oxygen or acetylene gases for any purposes other than welding and cutting. For example, oxygen should never be used like compressed air for blowing dust out of the clothing. Because of the great affinity of high-pressure oxygen for grease and oil, the clothes are liable to ignite. That is why welders are warned never to use oil or grease on regulators or other oxy-acetylene equipment.

In transporting oxygen and acetylene cylinders it is always safer to turn off the valves and replace the caps. If regulators are connected, the cylinder valve and regulator screw should both be turned off.

Cylinders should never be used as supports or rollers. The lecturer remarked that when a valve gets broken when a cylinder is full of gas, a perfect example of jet propulsion is liable to take place. He cited a case in point where a cylinder was driven through one brick wall and into another.

Impressive Sound Film

Co-incident with the demonstrations were special screenings of Canadian Liquid Air's new sound film in color, which has been shown in many parts of Canada. It records the important part played by oxygen in the industrial life of Canada, and vividly portrays some of the drama behind the scenes in large Canadian plants during the war as the tiny but incredibly powerful oxy-acetylene flame knifed its way through inches of solid steel to perform miracles of vital war production.

The clinic and the special get-together which followed it were thoroughly enjoyed by Inco men.

HOW'S YOUR SKY-HOOK?

Inmate of an asylum approaching a painter, hard at work on the ceiling—"Hey, Mower, have you got a good hold on that brush?"

"I think so, why?"

"Well, hold on tight—I'm gonna move this ladder."

FIRE BRIGADES WILL COMPETE

Competitions in which the "hook and ladder" brigades of Inco plants and towns will vie for championship laurels are announced by W. A. Humphries, Fire Inspector.

The first of these annual contests will be held during Fire Prevention Week, which is the first week in October. Already comment indicates that the event will be sparked with the keen inter-plant rivalry characterizing the First Aid contest for the Parker Shield.

For competitive purposes the fire brigades will be divided into two classes with a winner to be declared in each class:

Pumper Brigades: Copper Cliff Plant (general), Copper Cliff Concentrator and Crushing Plant, Copper Cliff Town, Levack Mine, Levack Town, Creighton Plant and Town, Coniston Town.

Non-Pumper Brigades: Copper Refinery, Coniston Plant, Frood-Stobie Mine, Frood-Stobie Pits, Garson Mine and Town, High Falls, Lawson Quarry and Williamsville, Murray Mine, Stobie Mine.

A trophy and individual awards will be presented to the winner of each class.

Unless otherwise specified in the rules of the competition for certain tests, the standard crew will consist of a captain or leader and six men including driver for pumper brigades, and a captain and six men for non-pumper brigades.

Every man on each brigade must take part in at least one test in the competition.

Tests for pumper brigades will include:

Laying a hose line from hydrant to fire; laying a hose line from open water to fire; rescue, using ladder and fog nozzle and administering First Aid; rescue, using ladder and rope; problem involving extinguishment of an actual fire, in which the brigade may be tested on its knowledge of classes of fires and uses of First Aid extinguishers for each class, use of fog nozzles, fighting fires in sprinklered buildings, ventilation practice, and First Aid.

Tests for non-pumper brigades will include:

Laying a hose line from hydrant to fire using hose cart; laying a hose line from hydrant to fire using doughnut rolls; rescue, using ladder and fog nozzle and administering First Aid; rescue, using ladder and rope; problem involving extinguishment of an actual fire.

Besides the rules of the competition, all brigades have been supplied with illustrated descriptions of standard practice for various tests.

THERE'S A LIMIT

A sailor named Pete returned home on leave recently, bringing with him his most cherished possession—an exceptionally bright parrot, mentally and aurally.

On his second day home, Pete's former school teacher came to visit and as the teacher entered the house he was greeted by the parrot with "Hiya Kid."

After greeting Pete the school teacher asked if the parrot had a large vocabulary.

"Sure," answered Pete. "See those strings on his legs? Pull one and see what happens."

The teacher reached over and pulled one. The parrot immediately sang "The Star Spangled Banner."

The teacher then pulled the other string. The parrot sang "God Bless America."

"What if I pull both strings at the same time?" asked the teacher.

The parrot ruffled up his feathers and screamed: "Don't do that you big lug. I'd fall flat on my tanny."

ON SECOND THOUGHT

Customer: "Give me a shave and a massage."

Barber: "All right . . . and by the way, I understand you've been going out with my wife."

Customer: "Just make it a message."

Inco's Well-Baby Clinic is Doing a Great Job



Since the regular Tuesday Well-Baby Clinic was established at the Inco Medical Centre in Sudbury 10 weeks ago, more than 500 young ones of pre-school age have been registered.

Dr. Jack Stanyon, chief of the Centre, says he and his associates are well pleased with the success of the Clinic to date, but hope there will be no letup in the number of Inco mothers taking advantage of this outstanding opportunity to underwrite the health of their children.

Averaging about 50 each Tuesday, between 1:00 and 1:30 o'clock, the lusty young visitors set up a terrific din which makes a layman long for the comparative peace of a boiler factory but which bothers the doctors and nurses not a whit. Infants up to 1½ years are brought to the Clinic once a month;

children up to school age come every three months.

The Earlier The Better

Dr. Stanyon is particularly eager that Inco kiddies receive their toxoids and vaccination before they are 1½; that is the time, he says, when most fatalities occur.

The Clinic stresses the proper feeding of infants, and the doctors are only too glad to advise young mothers who are having formula worries. Examination of the babies often reveals defects which can be remedied by vitamin supplements but which otherwise might go undiscovered until they have undermined the health of the child. Proper use of cod liver oil, the doctors find, is a subject on which many mothers are vague.

Value of the Inco medical service is revealed in the reports of the Sudbury medical officers

of health. In residential areas where Inco families predominate, he says, 80% of the school children have been immunized.

Dr. Stanyon announces that a special feature of the Clinic next fall will be a series of demonstrations of preparing formulae for new-born children.

In the picture layout above are scenes at the Clinic on a typical Tuesday afternoon. In the top photograph is a group of mothers and their children, with Dr. Stanyon and Nurse Moroney giving the "once over" to young Mary Lazowick, whose father works at Frood Mine. Others in the picture, left to right: Mrs. Walter Wolochniak, whose husband is employed at the Open Pit; Mrs. Vinc Lazowick; Mrs. Lawrence Lalonde (Copper Cliff Smelter); Mrs. Eddie Labelle (Copper Cliff Smelter); Mrs. Vital Aubrey (Copper Cliff

Smelter); Mrs. Leo Chenier (Copper Cliff Smelter); Mrs. Frank Mulligan, whose husband worked in the Smelter but is still overseas with the Army; young John Bradley, whose dad works in the substation at the Cliff.

Gale Files a Protest

Pictures 2 and 3 record the lamentations of Gale Isabel, nine months, daughter of Mr. and Mrs. Bert Chisholm, as she goes through the Clinic routine. "It's not that it hurts so much," wails Gale, "it's the indignity of the thing that burns me up." She probably won't like these pictures a bit, particularly about 15 years from now, but we've just got to print them; she's cute, eh? Her dad is on the police detail at Frood Mine.



COPPER CLIFF

Lloyd D. Adams (R.C.A.F.), Everett J. Blackwell (Army), Walter Buchy (Army), Roland Cormier (Army), Harvey B. Flynn (R.C.N.V.R.), Basil L. Jennings (R.C.A.F.), William Klomp (Army), Andrew G. Miller (Army), John J. McGuire (Army), Bernard T. Scharf (R.C.A.F.), Robert Taylor (R.C.N.V.R.), Arthur C. Wulff (R.C.A.F.), Gordon Grey (Army), Bruce Hughes (Army), John C. Jones (R.C.A.F.), Sylvio Levesque (Army), David R. McGovern (Army), Jerry Sawchuk (Army), Charles J. Young (Army), Steve Ziniuk (R.C.A.F.), Arthur Lalonde (Army).

FROOD

Garnet T. Ansley (Army), Charles F. Deacon (Army), Robert B. Holmberg (Army), Florio Prigione (Army), Herman Buhr (Army), Robert Courville (R.C.N.V.R.), Fred Cyr (Army), Alfred D. Duval (Army), Eldon Laughlin (R.C.N.V.R.), Daniel Parker (Army), Richard Rolka (Army), Lennis Walsh (Army).

OPEN PIT

Franco B. Sheridan (Army), Alfred Vendette (Army), James A. Wignes (Army), Marvin J. Brouse (Army).

CREIGHTON

Norman I. Finsant (Army), Stephen Hallock (Army), Stanley McColeman (Army), Lloyd Smith (Army), Ernie Austio (Army), Albert Beaupre (Army), Michael Danyluk (R.C.A.F.), John E. Grieve (Army), Delbert LeCance (Army), Adelard Plourde (Army).

LEVACK

Avery Boudrey (R.C.A.F.), Goodwin Purcell (Army).

GARSON

Earl K. Wharton (Army), Cecil Ace (Army), Aurele Gagnon (Army), John Makowsky (Army), Reginald Richardson (Army), Walter Tarrant (Army), Aurele Tisser (Army).

HURONIAN

Gillis McLennan (Army).

GENERAL

A. Gordon McLean (R.C.A.F.).

COPPER REFINERY

John Deptuck (R.C.A.F.), Leonard Pakkala (Army), Norman Ripley (R.C.N.V.R.).

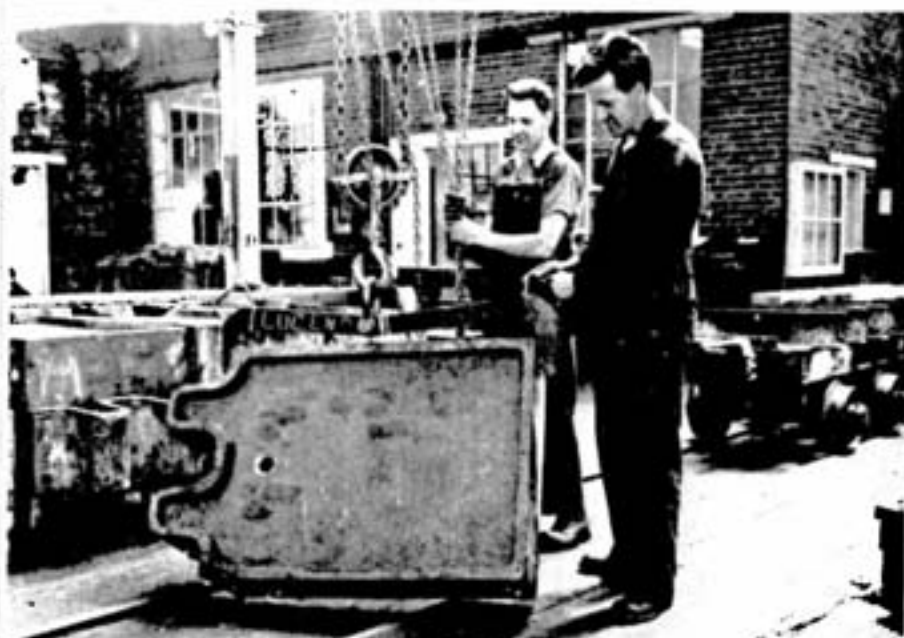
POLICE

Omer Laprairie (Army).

PORT COLBORNE

Zolton Bendes (Army), Edward G. Smyth (Army), W. F. Booker (Army), Eric Minor (Navy), Clifford White (Army), Glenville Doan (Army), James H. Walter (U.S. Navy), Robert Carriere (R.C.A.F.), C. McPhail (Army), K. Williams (R.C.A.F.).

Copper Gives Lift to an Old Pal



Inseparable buddies for uncounted centuries, copper and nickel finally have to part company when they hit the flotation cells in Copper Cliff Concentrator. But as they go their separate ways in this age of metals, one often turns to the assistance of the other when there's a ticklish job to be done. Take for instance the big water-cooled anode moulds for the casting wheels in the Nickel Refinery at Port Colborne. The high conductivity of copper makes it the ideal material from which to make the moulds, even though its melting point is some 670 degrees lower than that of nickel. In the photograph Bill Noble and Felix Benoit of the Copper Refinery display a newly made mould, which weighs about 5,000 lbs. So copper has a hand in the purifying of its old pal nickel, and at the same time the two Inco refineries do a job of co-operation. It's all in the family.

Attended 9th Anniversary Dance



At the ninth anniversary dance of Inco Employees' Club there was a bumper crowd of members to start the big recreational hub off on another successful year. Among the dancers were these: left to right, R. E. Harper, Copper Cliff mason; Miss Marg Campbell; Mr. and Mrs. Roy Campbell (he of the Open Pit mechanical department); Mr. and Mrs. G. Pittner (the just out of the services and formerly of Frood); C. Shellwell of the Copper Refinery and Miss Hulda Campbell.



Black Nickel Oxide Is Special Inco Product

A special product of the Nickel Refinery at Port Colborne is black nickel oxide, used for the most part by the chemical industry for the production of nickel catalyst and chemical salts, and by the ceramic industry for coloring the finish of pottery.

As the boys who handle it know full well, raw material for the Nickel Refinery comes from Copper Cliff in two grades of sulphide, "high copper" and "regular", the former for making nickel anodes for the electrolytic refinery and the latter for making black nickel oxide.

Unloading Raw Material

In the first picture of the accompanying layout, Lorenzo Lambert (right), millman, is supervising the unloading of a shipment of "regular" sulphide from the Cliff. The two husky workmen who are juggling the raw material are Leon Godbout and Romeo Goudreau. The sulphide contains approximately 72% nickel, 1% copper, 0.15% iron, 3.5% sodium sulphides, and 21% sulphur.

First step of the process for making black nickel oxide is to put the sulphide through a jaw crusher and ball mill to reduce



in size. In the second picture Jimmy Kovacs is drawing nulled sulphide from the ball mill hopper. From there it goes to leaching tanks in which it is first washed with hot water for soda removal and then leached with dilute sulphuric acid for iron removal. It remains in the tank for from 10 to 12 days; a tank holds about 150,000 lbs., or a car and a half of sulphide.

Now ready for roasting, the leached sulphide is removed from the tank and is taken in a steel bucket to a calcining furnace. In Photo No. 3 you see Johnny Morvan directing the dumping of a bucket into the furnace hopper. Operator of the trolley or monorail crane which has brought the bucket from the tank is Murray Cosby. A bucket holds about 1,500 lbs.

The roasting and chloridizing of the sulphide for the elimination of sulphur and copper is accomplished in modified Edwards mechanical hearth furnaces. These consist of a mechanical hearth with 24 water-cooled rubble arms; at the end of the mechanical hearth furnace there is attached a double deck hand-rubbed furnace.

"Seasoned" With Salt

During the eight-hour journey over the mechanical hearth of the furnace the sulphide has its sulphur content reduced from 23% to about 2½%, and has reached a temperature of some 1,800 degrees Fahrenheit. Now it drops from the mechanical hearth to the lower deck of the hand-rubbed furnace, and is mixed with salt which will chloridize the copper it contains. Seen shovelling in the salt in the fourth picture of the layout are Sean Strath and Tom Melinkovic. Every four hours 350 lbs. of salt is fed to each side of the furnace.

With hand paddles the calcines are thoroughly mixed with the salt and then advanced along the lower hearth, which has no flue connection and receives no direct heat, but serves as a low-temperature soaking pit to facilitate the chloridizing of the copper.

At the rate of one door every four hours the calcines are moved forward on the hand-operated hearth, and 32 hours later are drawn into steel dump buckets and transported by trolley to the leaching tanks where they are again washed with hot water and soaked for some hours in sulphuric acid to remove the soluble copper chloride formed by addition of the salt.

The leached material is then mixed with soda ash in a mixing drum, is charged to the top hearth of the hand-operated furnace, and is heated to about 2300 degrees Fahrenheit. The purpose of this step is to remove all but traces of the sulphur. In 16 hours it is advanced by hand paddles to the hot end of the furnace, where it is drawn into steel buckets. Photo No. 5 shows Tony Yemchuk performing this final furnace operation.

Back to the leaching tanks for still another hot water bath goes the material, by now probably convinced that life is just one dunking after another. This time soda and soluble sulphates are removed, and the product, known as "black nickel oxide," goes to steam coils where it is dried for from three to four days and is then screened and packed in paper-lined 1,000-lb. barrels for shipment. It contains approximately 77.5% nickel, 0.1% copper, 0.25% iron, and .008% sulphur.

Use High Volatile Soft Coal

The furnaces making this reduction possible are coal fired, a high volatile soft coal being used to produce a long flame which passes over the upper deck of the hand furnace and the mechanical hearth and returns underneath the furnace to a main flue. The fireman in action in the sixth photograph is Louis Fabian.

The metals values contained in the liquors resulting from the acid leaching of the sulphide and from the leaching of the chloridized material are recovered by precipitation with sodium sulphide liquor from the water leach of the sulphide. The precipitate is

filter pressed, dried, and shipped as revert to the smelter at Copper Cliff.

Now that's the way they make black nickel oxide. Or at least we should say that's the way Finlay Lymburner told us they make it, as we sat on his lawn one evening and gazed out over the lovely waters of Lake Erie. If there's any point not clear to you, take it up with Finlay or with the lovely waters; we couldn't say just which one would be to blame.

Pension is Reward of Varied Career for Charlie Dorian

Partly through good fortune and partly through good foresight, Charlie Dorian has an idyllic retreat to which to retire when he takes his pension at the end of June after some 28 years of Inco service. His all-year home on the north shore of Lake Ramsay, surrounded by lovely lawns and gardens, commands a beautiful view and could be the goal of any man's dreams. There he and Mrs. Dorian look



MR. AND MRS. C. E. DORIAN

forward to many more years of happiness and contentment.

Charles Edward Dorian was born on June 10, 1881, beside the aqueduct of the Welland canal then under construction at Thorold. His father was a bookkeeper from Belfast, Ireland; his mother a lass from Chinguacousy. At the age of 10, with his father permanently bedridden, he helped his mother on a milk route, leaving school for a year to embrace this phase of higher education. He was able to graduate from common school at 14, and from the first form of high school at 15, winning a silver medal for general proficiency.

Got Plenty of Experience

The family fortunes were at a low ebb, and going lower. Charlie ran a newspaper route, delivered hand-washed laundry, sifted the neighbors' ashes, made shirts, joined the junior staff of a multiple-member law firm, was fired, worked a day in a newspaper office and another day as a waiter in a chop house, started writing short stories, worked a week in Eaton's, ran a sewing machine in a clothing factory, fell in love, wrote poetry, fell out of love again, tried barnstorming on the stage,

took a fancy to advertising writing, and generally kept up a hit-and-run schedule until the year 1900.

He joined the Queen's Own Rifles and then the Canadian Mounted Rifles for service in South Africa. The war stopped before he fired a shot but the regiment became heroes.

He went to Manitoba to pitch hay and stack wheat, joined a railway construction gang on the way to Prince Albert, shifted to a Red Deer lumber camp, then to the Duluth lumber camps, up the Iron Range and down to Chicago, to Detroit and a brief whirl at pants-pressing, and finally back to Toronto.

It was time to settle down. Charlie joined the C.P.R. as locomotive office clerk at Chapleau in 1904 and it was there that he met a school teacher, Miss Christina Boyd McPhee, of Pembroke, who later became his wife. He saw C.P.R. service at Jackfish, Algoma, and North Bay before coming to Sudbury in 1912 as chief clerk to the superintendent. In 1913 he built his home on Ramsay Lake and defied the sulphur fumes by raising a garden. Perhaps it was his cheerful persistence as a horticulturist that inspired Inco to boost the height of its smelter stacks.

In Charge of Inventory

In 1917 he hooked up with Inco as transportation clerk, and was soon assistant in charge of transportation at Creighton. During the layoff in 1921 he secured a contract to load ice for the C.P.R. and wrote more short stories on the side. In 1922 he was back with the Company and became editor of that book of mysteries, the property inventory. Both exasperating and fascinating, the inventory absorbed his complete attention as the Company gradually expanded to six times its 1917 proportions and the days grew into years. In 1943 he listened to the doctor's warning to switch to less artery-hardening duties.

In 1907, at the age of 26, he learned to swim and play tennis; at 40 he learned to ski, and to figure skate at 54. He tried golf with clubs but found he could play it better with hoe and rake. So his spare-time program became gardening in the summer and skating in the winter, with writing as a hobby. He was president of Copper Cliff Skating Club last season.

Charlie isn't worrying about what he'll do with his time now; his record indicates that he's never had much trouble finding something to do. We at Inco all hope that the years ahead are as useful and enjoyable as he wants them to be.

LYNCH HIM!

Not so very long ago a city's bakeries were being bothered by a gentleman who insisted on having a cake baked in the shape of the letter "S".

Over a dozen bakeries were approached before he could find one willing to take on the job. He had to wait ten days, however, before the bakery could have a special baking pan made in the letter "S" so you can imagine the customer's chagrin when, on calling in for his cake, he found it was baked in a pan made as an italic "s" when he particularly wanted it baked in the form of a capital "S".

It took another ten days before a new pan could be made up and then there started between the baker and the customer a long wrangle on what type of icing should be used. Finally all the details were settled fairly amicably and lo and behold the great day finally dawned when the cake was ready for delivery.

The baker, his assistants, and the customer gathered around it and gazed admiringly at it for some minutes and then the baker asked where it should be delivered to.

"Nowhere," replied the customer. "I'll eat it here."

This is the type of story that when told at a party is practically guaranteed to take the pleasure out of life.

Safety Spotlight Stope a Real Salesman



AN unusual method of bringing home to miners the necessity of safe workmanship at all times has been adopted at Frood Mine. In the warm-room, where the men get their lamps and await the cage which will take them underground for another shift, has been erected a model stope, complete in every detail. A general view of the model occupies the front page of this issue of the Triangle.

The full height of the warm-room, the Safety Spotlight Stope is a standard 5-set stope, erected on one-quarter scale, with a section through the second set from the south pillar. A close-up of this section is shown in the first picture of the above layout. Parts of the mucking and mining floors are clearly on display.

Really True to Life

Bill the Stope Boss is busy drilling off a round, while on the floor below him Mike the Slusherman is breaking ore to permit it to pass through the grizzly rails over the chute. Air slusher, brooms, plunger, bar, axe, pick, powder box, oil bottle and his ring, and loading stick are part of the regular equipment

seen in the exhibit, all faithfully modelled to scale. The timbering is standard; framed square sets are piled in the stope at the right, and there is also a pile of timber broken in a blast.

In Pictures No. 2 and 3 is evidence of the interest which the model is arousing among the men. Groups are studying it carefully, using their cap lamps to peer into the corners and check on construction details with which they have become so familiar in their daily work.

Picture No. 4 gives an idea of how Safety Engineer Tom Kierans will use the model to put across his safety messages. Mike the

Slusherman has failed to make use of the standard grizzly covering, and instead has attempted to break a chunk while standing on the grizzly rails. He has slipped and fallen, suffering painful injuries which will probably keep him laid up for several weeks. It's an object lesson a man won't easily forget, and the next time he's breaking ore he'll be doubly certain to remember that grizzly covering.

With the readily moveable models and equipments in the Safety Spotlight Stope Tom can demonstrate almost any type of careless workmanship and the dire results. Changing the display once a week, he intends to take his audience through the various steps in loading the breast, scaling for a new set, booming out and blocking up the back, and timbering the new set. Scope of the model in selling safety is almost unlimited, and Tom can be counted upon to make the most of it.

Broom Has Brädes, Even

Another of the model setups is seen in the

fifth picture, where Steve the Fillman is loading a fill car from the fill chute. The intricate detail in which the model is executed is exciting open admiration among the Frood men. Even the gloves, belts, battery cases and lamps, shoes and spats, and safety hats of the midge miners are real in every respect. The brooms have real bristles; the slusher looks as if it might start operating any minute.

A "brain wave" of Tom Kierans, the model was designed and constructed with the enthusiastic assistance of the mine supervision. Workmen on the painstaking job were N. T. Niemi, the leading spirit; Jack Rantanen, M. Frenz, M. Krivokuca, and J. Surovic. Invaluable aid was given by Mrs. N. T. Niemi on details where only a woman's touch could succeed.

MORE THAN 50 NEW MEMBERS JOIN COPPER CLIFF LEGION



In a solemn ceremony the evening of May 7, more than 50 new members were sworn into Copper Cliff Branch 224 of the Canadian Legion at Memorial Community Hall. Picture shows some of the initiates as they were addressed by Harry Fee, of Sault Ste. Marie, vice-president of the provincial command, who was introduced by Duncan Finlayson.

"There has been a tremendous increase in the personnel of the Canadian Legion during the past few months," Mr. Fee told his audience. By the end of this year it was expected that the membership in Ontario alone would reach the 100,000 mark.

An eloquent speaker, Mr. Fee voiced the determination of the Legion to be of service to veterans, as it was following the last war when it brought pressure on influential sources and gained concessions for its members. "The Legion must keep to the middle of the road, deviating neither to right nor to left. All efforts must be directed at winning the peace," he declared.

The speaker was thanked by the honorary president of the Copper Cliff branch, Mayor E. A. Collins. Greetings to the new members from the Sudbury branch were conveyed by F. Carmichael.

Another speaker was Rev. Fr. J. J. O'Leary, pastor of St. Stanislaus Roman Catholic Church, Copper Cliff, who served as a padre with the Canadian forces overseas, enlisting in January of 1941 and returning to Canada in November, 1945.

Music was furnished by the Coniston Band.

OLD STUFF TO HER

Salesman: "These are especially strong shirts, madam. They simply laugh at the laundry."

Customer: "I know that kind; I had some which came back with their sides split."

HOW IS YOUR BRAIN-POWER?

Just like you figured it, Mrs. Jones is Mary's mother in the problem we published last month. First person to phone in the right answer was Mrs. Wm. Gibson, whose husband is a shovel operator at Stobie. This was her solution:

Mrs. Jones bought	20 yards for \$4.00
Mary bought	10 yards for \$1.00
Mrs. White bought	18 yards for \$3.24
Nora bought	9 yards for .81
Mrs. Smith bought	8 yards for .61
Hilda bought	4 yards for .16
Mrs. Brown bought	12 yards for \$1.44
Gladys bought	6 yards for .36

And now here's this month's brain-buster. Four minutes are allowed for solving it, so without further ado you may get out your pencil and paper and start going crazy!

Jones meets a boyhood friend whom he hasn't seen for more than ten years. Exchanging warm greetings, Jones' friend says to him:

"I haven't seen you in ten years so I guess you don't know I'm married. I'm even a proud parent—this is my little daughter."

"Whom did you marry?" asks Jones.

"You wouldn't know," answers the friend. "It's someone I met on a trip South."

Jones then asks the little girl her name. "I'm named after my mother," she says.

"So your name is Ellen, too," said Jones.

"That's right," says the child. "But how did you know?"

How did Jones know the little girl's mother's name was Ellen?

(By the way, it would be appreciated if anyone with problems of a similar nature would send them in. You might include the answer, and how it was arrived at, although of course the editor doesn't really need it as he works them all out in a few minutes at the most. Don't forget to include the answer.)

IMPRESSIVE DISPLAY

An impressive display by 1st Copper Cliff Boy Scout Troop, in Memorial Community Hall on April 30, drew much comment from the large audience of the boys' friends and relatives.

Following an investiture of three new Scouts, the Troop staged demonstrations of various phases of Scouting. Work of the First Aid team was especially good; as the boys went through their paces old hands at First Aid could be heard muttering that it was "a good thing these kids can't take part in the inter-plant competitions."

Special speakers were K. S. Clarke and District Commissioner P. I. Ward. Much credit goes to Scoutmaster Savage and his Troop for their efforts.

HEADS SKATING CLUB

Bill Armstrong was elected president of the Copper Cliff Skating Club for the 1946-47 season. Other officers appointed were: O. A. Lauzon, first vice-president; Miss Marguerite Boyle, secretary-treasurer; Mrs. W. B. Thomson, assistant secretary-treasurer. Reports at the annual meeting reviewed a very successful season.

OFF TO SAUDI ARABIA

Cy Baker, for seven years of mechanical department at Frood Mine, left Sudbury April 27, off for Saudi Arabia where he will become master mechanic at an American-owned gold mine, once worked by ancient Egyptian miners.



"PEACHES" LAWTON

When this snap was taken last March, the attractive young miss who faced the lens was just 18 months old. Her name is Sidnie Jean but everybody calls her "Peaches," and she's the daughter of Mr. and Mrs. Bill Lawton of Levack. Her sister Beverly is 7 years old.



1—Serbs Celebrate

Sunday, May 26, was a gala day at the Serbian Hall in Sudbury, when a celebration marked the second anniversary of the Serbian Club.

Photo shows some of the pretty young ladies who assisted in serving a sumptuous dinner to the large gathering. At left is Mrs. Pete Borovich, wife of the president of the Club, who was in charge of the banquet. Copious quantities of Serbian national dishes, as well as fried chicken and roast pork, went the way of all good food as the members and their guests laid to with a will.

Addressees by visiting Serbian dignitaries and prominent local citizens occupied the remainder of the afternoon as the flourishing Serbian organization observed its birthday.

Secretary and "godfather" of the Club is Dan Tepich, well-known Freed miner.



2—Levack Champs

Another successful bowling season has been wound up at Levack Employees' Club, with trophies and prizes distributed to the winners.

Photographed here are the champs of the men's 20-team 5-pin league, left to right, Toivo Kauppinen, Harry Koski, Joe Lafleur, and Tony Mihajic (captain). Other member of the squad, Lauri Tulku, is now located in Sudbury.

Winners of the men's 10-pin loop were Matti Hawryluk, Bill Shaw, Henning Bergstrom, and Joe Lafleur.

In the 5-pin department the high single of 352 was rolled by Alex Lefebvre, and high triple of 812 by W. Kulyk. In 10 pins D. Lehto had the high single of 225, and D. McDonald had the high triple of 569.

Honors in the ladies' 5-pin loop, in which there were 10 teams, went to Betty Morin (captain), Gerrie Fay, Helen Boboy, Helen Sul, Velma Mallette, and Hilda Mosier. The league's best single, 270 pins, was rolled by Gerrie Fay, and the best triple, 674 pins, by Mrs. Vern Ritzel.



3—Held Shower

Honoring Miss Edna Thomas, popular Copper Refinery hello-girl, a shower was held at the Inco Club in Sudbury on May 17.

Refreshments were served following a hectic session in the bowling alleys. The guests, left to right in the photograph, were: front row, Mona Millson, Marion Stedman, Edna Thomas, Jean Winters, and Jessie Ray; back row, Irene Ranta, Hattie McCrea, Hilda Hytinen, Velma Van Allen, Eileen Van Allen, and Helen Ledingham.

Edna's marriage to Bill Van Allen took place on Saturday, June 1.



4—Bell Presented

The ship's bell from the doughty corvette Copper Cliff, which saw plenty of action on the perilous seas of the Atlantic on convoy duty during the Second Great War, was presented to the mayor of the town, E. A. Collins, in a ceremony on May 22.

Lt. Peter G. Chance of Ottawa, staff officer at H.M.C.S. Carleton, made the presentation at Queen's Athletic Field in Sudbury prior to inspection of Admiral Mountbatten Sea Cadet Corps. The ship's bell from H.M.C.S. Sudbury was also presented to Mayor W. S. Barton.

Lt. Chance paid warm tribute to the record of the Copper Cliff and her men. Mayor Collins, in accepting the bell, said it would be

placed in a position prominent in the community, that future generations might know what a great job the corvette did during the war. He read letters of appreciation from men of the Copper Cliff for the many comforts sent to them by the people of the community, and recalled a visit received from the commanding officer of the corvette, Lt. Comdr. Hutchings, who dropped in to express personal thanks.

Seen in Picture No. 4 of the accompanying layout, at the microphone during the presentation, is Lt. Chance. On his right is Mayor Collins, and next is Lt. David F. Olive, who accompanied Lt. Chance from Ottawa on the official visit. Seated is Mrs. W. S. Beaton, who accepted the bell of H.M.C.S. Sudbury. Behind Lt. Olive is Alderman T. George Thompson, chairman of the Sudbury Branch of the Navy League of Canada.

for 34 games; high triple, J. Arnsden, 836; high single, P. Hill, 185.

Presentations took place at a lounge party at the Crystal Palace, and were made by A. E. O'Brien, E. Dickie, H. Smith, and A. Stone. Refreshments and dancing completed the evening. League secretary Stone was much in demand and was elected Man of the Year.

Took The Lambert Cup

Picture No. 1 shows the winners of the coveted Lambert Trophy at the Copper Cliff Club. Holding the trophy is Bill Armstrong, entertainment chairman at the Club, and the champs are, left to right, Charlie Seemp, Jimmy McGuire, Mrs. Seemp and Mrs. McGuire. They emerged triumphant from a playoff between the winning teams of the four groups which took part in the tournament. Captains of the other group-winning lineups were Bert Flynn, George Syer, and Bill Armstrong. Play for the Lambert Trophy is one of the keenest contests in the Cliff Club bowling season.

Staged Uphill Fight

Although they finished third from the basement in the 20-team schedule of the ladies' 5-pin league at the Inco Club, the group of young ladies seen in Picture No. 4 were nothing daunted. They were just beginning to hit their stride, they said, and was that ever the truth. Into the playoffs they went, and one by one they eliminated lineups which had been trimming them all season. When the smoke finally cleared away they had won the championship after a hot final match against the Wilda Kanuth team, which had copped the trophy two years in a row. Left to right: Marj Pawsen, Geet Walmsley, Lois White, Ethel Walmsley, and Ev Dewey. Holding the trophy is well-liked Henry Dunn, bowling impresario at the Club.

Another for Casting

Sensational bowling by Pete Bobinac, who struck out from away back, catapulted the Casting Dept. team into the championship of the Major Section of the Copper Refinery league at the Inco Club, with which goes the A. C. Kerr trophy. Left to right in Picture No. 5 are the champs, Roger Doon, Murrel Wang, Pete Bobinac, John Jansulich, Art Nault, and Dausese Sauve; seventh member of the lineup was Ed. Stephenson. Championship laurels in the Minor Section went to the Stores team of Cec Keegan, C. Metayko, Walter Day, Pete Boluk, Walter Neilson, Jack Gordon, and Jerry Mahon. Their pin total was 208 better than the Major aggregate. High single in the league was scored by Leo Deslers with the whacking tally of 420; best triple was Johnny Sorgini's 859, and best average was Warren Koth's 219. It was the second big win of the year for Casting Dept., which also took the plant First Aid championship.

Long Shots Come Through

And in No. 6 of the layout is the scene just after the playoff in the Copper Cliff league at the Inco Club. Chuck Bronson, right, is congratulating Gord Zinkse, pilot of the title winners. Well might Gord flash a broad victory smile. His team were conceded only an outside chance of beating Bronson for the verdict in the second half of the regular league play, but they knuckled down to business and turned the trick. Then, in the sudden-death final for the title, they did it again. Seated in the front row are Earl Nolan, Jim Oliver (scorekeeper), Mrs. Margaret Zinkse, and Ignatius Hickey; in the back row are Alfred Fiorento, Joe Kaiganich, and Eric Beales. Other standouts of the season's play in the Cliff league: Charlie Bronson's 386 for high single and 868 for high triple; Edna Johnston's 216 for high average; Ginny Beaulieu's team total of 1360 pins.

WE'LL BITE

"Do you know what good clean fun it is?"
"No. What good is it?"

CHAMPS NAMED IN FIVE LOOPS AS BOWLING SEASON ENDED



Bowling takes the spotlight this month with leagues finishing up all over the place and the "jewelry" being passed around like pop at a picnic. In the four loops at Inco Employees Club, Sudbury, and in the Lambert event at the Copper Cliff Club, the victorious trundlers have all received due recognition and the vanquished have retired to lick their wounds, determined to be "in there" next year. Good bowling and good sportsmanship distinguished the season's play.

Now for the pictures:

In 1 and 2 of the above layout are winning teams of the Froid Mine league: in No. 1, holding the George Leach Cup for the championship of the B Section, is E. Branning, and behind him are F. Wharton, Bert Hagerly, and G. Robinson; other members of his team were E. Dubrille and W. Cushing. In 2 are the winners of the A Section, with the Froid Athletic Cup: front row, Leo St.

Marselle, Jack Watkins (captain), and L. Depater; back row, B. Cross, Ned Leone, Bob Elliott, and B. Gillies.

Individual awards in the Froid league were made as follows:

A Section: high average, W. Baby, 227 for 43 games; high triple, W. Eby, 945; high single, B. Cross, 391; special prize, S. Boal, average of 216 for 50 games.

B Section: high average, A. Toffoli, 220

As Ryan Award Was Presented to Garson Mine



In the top picture Vice-President R. L. Beattie extends his congratulations to the people of Garson and to the other three Inco mines which made such a splendid showing in the 1945 Ryan Award contest. Specially made for the occasion was the backdrop showing Garson mine; it was painted by Jack Rantanen of Frood. At lower left Supt. Foster Todd of Garson receives the Ryan trophy from Angus Campbell, representing the C.I.M.M.; at lower right Supt. Todd officially turns over the trophy to the men of Garson, represented by Archie Bowen, Fred Dim, A. Bontinen, and Arthur Lye.

Angus Campbell Delivers Stirring Presentation Address

Long to be remembered by the people of Mines Supt. H. J. Muttz opened the presentation ceremony with an explanation of what made Garson the safest mine in the Dominion last year. Co-operation and constant attention to safe practices were the secret, he said. Examples of the type of workman who won safety awards for a mine were the four Garson veterans whom he called to the stage, Archie Bowen, Fred Dim, Arvo Bontinen, and Arthur Lye. Each spoke briefly, giving his idea of how the Ryan Award was won; all stressed the importance of observing safety rules every day in the year and every hour of the day.

Led Omega To Title

Mr. Muttz introduced Angus Campbell of Timmins, chairman of the Safety Award committee of the Canadian Institute of Mining and Metallurgy, who delivered an eloquent and stirring presentation address which is reproduced verbatim below. A famous apostle of safety, Mr. Campbell was superintendent of the

Omega mine when it won the Ryan Award.

The coveted trophy occupied a spotlight position on the stage throughout the evening. Mr. Campbell presented it to Supt. Foster Todd of Garson, who turned it over to the men of the mine. Until next year (and possibly longer than that) it will rest in a special case in the "dry" at Garson, where it can be seen every day by the safety champions who won it.

Reviewing the championship record of the Sudbury district, Vice President R. L. Beattie recalled the many distinctions which have been won in various fields of activity. Now it was in mining that Sudbury district held a Canadian championship. "The district of Sudbury is world-famous for its mining," he said, in paying tribute to the record of Inco workers in 1945. "Visitors come from every known country of the world to see how we do things here, and most of them learn something from their visit."

General Supt. R. D. Parker also spoke briefly, congratulating Garsonites on their triumph but warning that Creighton, Frood and Levack would be hot on their trail for 1946 Ryan laurels. He thought the 1945 safety record at all Inco mines was particularly notable in view of the inexperienced help which came to them during the war.

Romane Was Terrific

Unanimously described as "tops" was the variety show from Toronto which kept the capacity audience of 1,500 people fully entertained for more than an hour and a half. Doug Romane, the master of ceremonies, literally "laid 'em in the aisles" with his comedy, as did Mildred Morey with her boisterous vocal antics. Lou Skuce, internationally famous cartoonist, tuned his performance to the Garson safety victory and drew great applause. Russ Titus, well-known radio singer, enhanced his popularity in a personal appearance, and the Lester, brother and sister, proved a very smooth dance combination. Musical background for the acts was provided by a quintet led by Cliff McKay of the Happy Gang.

The Coniston band played several selections during the evening. Men of Garson acted as ushers and stage assistants.

Mr. Campbell said:

"It is a pleasure to be here tonight to celebrate with you a great achievement in safe mining. I bring you greetings from the gold mines and, as chairman of the Safety Award Committee of the Canadian Institute of Mining and Metallurgy, I bring you greetings from the Institute's president and officers, and from the whole Canadian mining fraternity."

Mighty Deeds of Mining

"Safety is the most precious thing for which we mine. Too often in the past accidents have taken their grim toll of broken bodies and of life itself. We still have too many accidents in industry, on our highways, and in our homes. Yet you at Inco have been doing something about this. You have done mighty deeds of mining with larger tonnages and fewer accidents."

"In the grim picture of mining accidents the growing safety at International Nickel has been a shining light of hope to you and to all miners throughout Canada and throughout the world."

"You will not be satisfied as long as a single disabling accident occurs, yet you realize the change from the days when accidents were considered as a part of mining about which nothing could be done. Today you are preventing accidents."

"Many people still think we miners are a wild undisciplined lot, working in the dark and not caring for our safety or that of others. You who mine, and you women whose men go down the shafts, know that mining here is highly skilled, orderly, carefully planned, supervised, and, considering the great tonnages and number of men, it is here a compar-

atively safe job, done under the safest known conditions."

"Here men through co-operation work more safely than in any deep hard-rock mines in the world."

"We of the other Canadian mines are also interested in mining safely although not always getting the results that you do."

The Canadian Institute of Mining and Metallurgy, representing every part of Canada, shows its interest in accident prevention by making annual awards to the safest coal and metal mines in Canada. The mines are judged by the number of accidents of over six days' lost time which occur per 1,000 men at work.

"All Canadian mines are in the contest and all records are searched in every province and checked with the official compensation boards, after which the results are compared by our Committee."

"The awards are the John T. Ryan safety trophies. For the provincial winners there are bronze plaques. For the Dominion winner there is this trophy you see here this evening. Plaques and trophies were presented to the Institute by the Mines Safety Appliances Co. in memory of their late President John T. Ryan, to whose efforts for mine safety we are all indebted."

Always in The Running

"For the first four years of the contest for the trophies the records of Inco mines have been improving and outstanding. For each year one or other of your mines have been runners-up, but each year a small mine has had its name on the trophy."

"In 1944 Frood won the Ontario trophy but was nosed out of the big win by Scadacoma of Quebec."

"It really began to be like the old expression of 'Often a bridesmaid but never a bride.'"

"But in 1945 International Nickel's mines really went to town on accident prevention. In the run for the Ryan trophy your four producing mines finished first, second, third and fifth—well ahead of all other Canadian mines large or small except the smaller Omega gold mine, which finished fourth. Levack finished fifth, Frood was third, Creighton was second, and after Frood's 1944 record was cut in half, first place and the John T. Ryan trophy was won by Garson Mine."

"Tonight then we greet, congratulate, and honor the Garson. In the name of Canadian mining people I would ask Superintendent Foster Todd of Garson to come forward to receive the John T. Ryan trophy."

"Mr. Todd, Garson had in 1945 the safest year yet enjoyed by any of your nickel mines. In the all-Canada contest you had only four over-6-day accidents for your 600 men."

"Miners are alive and at work with sound bodies who but for accident prevention at Garson might be broken men."

"May your safety efforts continue to get results."

No Matter of Mere Luck

"Safety is its own greatest reward. In 1945 Garson miners and their families were rewarded by a remarkable share of the blessings and security of safety. Your record is no matter of luck. Garson has worked for it."

"You have been backed by the resources and executives of the greatest hard-rock mining company in the world. You have been supported by competent, interested engineers and mine bosses, and aided by an active safety department."

"You must have had the co-operation and lively self-interest of 600 of the best hard-rock miners to be found anywhere. You produced urgently needed nickel to win the war and have shown the way to peace."

"The way in which Garson has prevented disabling accidents to miners will long continue to inspire Canada and the mining world."

"Because of Garson, miners and their families will hereafter have greater hope and a greater measure of the security of safety."

"On behalf of the Canadian Institute of Mining and Metallurgy I present the John T. Ryan Safety Trophy to International Nickel's Garson Mine."

WAR HEROES GET OFFICIAL WELCOME



Presentation of scrolls and wallets to 60 returned service personnel of Coniston who had not previously been so honored took place Tuesday evening, May 28. In the above pictures two of the war heroes are seen receiving their gifts from Mrs. A. Walker, member of the committee. Mayor E. T. Austin presided. Similar ceremonies took place at Garson on Saturday night, May 25, when 160 sons and daughters of the united townships of Neelon and Garson were officially welcomed home and presented with illuminated scrolls and pen and pencil sets. George Secker was chairman of the program which followed a banquet. One of the speakers who paid sincere tribute to the deeds of the guests of honor was Reeve Dan Jodouin.

JUVENILE BASEBALL LOOP

Great things are expected, not only this season but also in the way of future stars, from the juvenile baseball league which has been organized for 1946. Entered are Falconbridge, Creighton, three teams from Sudbury, Copper Cliff, Shriners, West Ends, and C.Y.O. Trophies have been donated for the winning team, the league's leading batter, and the most valuable player.

HANDSOME DONATION

A cheque for \$50,000 from the International Nickel Company of Canada, Ltd., swelled the building fund of the new memorial hall now under construction for the Sudbury Branch of the Canadian Legion. W. A. McMichael, organizer of the Legion's campaign, called the donation "a fine gesture" and said it indicated how interested the firm is in the returned men of the Sudbury district.

To the victories belong the responsibilities.
—The Sphinx.

Bridge and 500 Continue in Popularity at Inco Club



A little publicized but steadily popular activity at the Inco Employees' Club in Sudbury is the regular session of the bridge and 500 fans. Several new players have been in evidence lately, recruited from both younger and older sets of members. In the first of the above pictures is a bridge quartet, Mrs. Jack Latreille, Mrs. G. Bourdeau, Mrs. Norman Porter and Mrs. I. Collier. A game of 500 is in progress in the second picture: Mrs. G. Duboulet, W. Hickey, Eddie Mulcare, and Mrs. C. Kirwin.

Anti-Trust Charge Draws Statement from R. L. Beattie

THE United States government filed in federal court on May 16 a civil complaint charging a Canadian nickel company, its New York City subsidiary, and three officers of the firms with violation of anti-trust laws in connection with the importation, manufacture, distribution and sale of nickel ores, nickel and nickel products.

Firms Involved

The firms, described by the government as the world's largest producers of nickel, are the International Nickel Company of Canada, Ltd., and its subsidiary, the International Nickel Company, Inc. Individuals named were Robert C. Stanley, John F. Thompson and Paul D. Merica — president, executive vice-president and vice-president, respectively, of both companies.

The anti-trust division of the department of justice, which filed the suit, charged the firms preserved a monopoly position by cartel agreements with French and German competitors, including the I. G. Farbenindustrie of Germany.

Attorney-General Tom C. Clark said in a statement released in New York:

"This case is among the most important in our anti-trust program for eliminating restraints and monopolies in basic industries. The complaint charges that the defendants conspired to restrain trade in and monopolize the nickel industry in violation of the Sherman Act.

"It alleges that they have monopolized the business of importing commercial nickel and nickel ores into the United States; have monopolized the manufacture, distribution and sale of nickel and nickel products in this country, and have preserved their monopoly position by cartel agreements with French and German competitors."

Seek Separation

The suit seeks complete separation of the business of the Canadian corporation and its American subsidiary, and asks a plan be formulated by the court for redistributing the assets of the firms to destroy their alleged monopoly, to prevent a continuation of the alleged trade restraints, and to open the nickel industry in the United States to competition.

Woodell Borge, assistant attorney-general in charge of the anti-trust division, said in a statement:

"Because nickel alloys are used in so many

products, the restraints charged in this suit directly affect governmental operations and the business and home life of the average American citizen.

"The international nickel companies involved in this action have combined assets of approximately \$300,000,000; they are the largest producers of nickel in the world; they control more than 90 per cent of the business in nickel ores, nickel and nickel products in the United States; and they have produced, shipped and sold a major part of the nickel-bearing materials, commercial nickel and nickel products consumed in markets outside of this country."

The complaint said the United States, while the largest manufacturer of industrial products containing nickel and the world's largest consumer of commercial nickel and nickel products, was almost entirely dependent upon imports for its nickel, the greatest source being Canada.

The suit charged the Canadian company owned the principal known deposits of nickel-bearing materials in Canada.

Statement Issued by Company Head

The New York offices of the International Nickel Company of Canada, Ltd., said the following statement was issued at Copper Cliff, Ont., by R. L. Beattie, vice-president and general manager, in connection with civil anti-trust proceedings in New York City against the company announced by the United States department of justice:

"We have not been served with a complaint in the proceedings against the company, but from the reports we have it appears that the United States department of justice is attempting to deprive the International Nickel Company of Canada, Limited, of its United States subsidiary.

"The complaint seems to be that because the nickel we mine in the Dominion is purchased by a large percentage of United States nickel users, our company is to be classed as a monopoly (illegal under United States law).

"Our nickel is in active competition with the

production of other producers, including that of the United States government itself from the Cuban deposits, and also it is in competition with many other alloying elements. The prices we have charged in the United States have been so low as to require the United States government to give during the war subsidies to our competitors. Our nickel all comes from a small area in Ontario, next door to the United States market; but there are vast nickel deposits owned by others in many parts of the world.

No Agreements

The company has no agreement with any of its competitors which prevents their competing with it in the sale of nickel in the United States market or elsewhere. The facts are simply that we have produced better nickel and have better served United States users. The company's position in the industry is the result of engineering and metallurgical leadership and of unceasing research over more than half a century to create new alloys of nickel and expand uses for them.

Our plant property in the United States consists almost entirely of our rolling mill at Huntington, W. Va., and represents barely four per cent of the company's total plant property. Although it accounts for only a small percentage of world nickel sales, it has promoted the production, export and usefulness of Canadian nickel by serving over the past quarter-century as the mainspring in the development of high nickel alloys.

This is a service to industry and to the United States government which only a producer of the raw material could have the incentive to render. This pioneering has helped American industry to make better products for many thousands of industrial and household applications.

We are confident that, upon our record, the United States courts will vindicate us completely.

SAMPLE CONVINCED THEM

A resourceful missionary fell into the hands of a band of cannibals.

"Going to eat me, I take it," said the missionary.

"Yes," replied the chief.

"Don't you do it," advised the missionary, "you wouldn't like me."

He took out his pocketknife, sliced a piece from the calf of his leg, and handed it to the chief. "Try it and see for yourself," he urged.

The chief took one bite, grunted and spat. The missionary remained for 50 years. He had a cork leg.