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**A Blessing, Not a Miracle**

(STORY ON PAGE 6)



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Don M. Dunbar, Editor  
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## Chairman Stresses Need of a Healthy Civilian Industry

Government stockpiling and defence requirements accounted for some 40 per cent of the total free world supply of nickel in 1954, Dr. John F. Thompson, chairman of the board of directors of Inco, told shareholders at the Company's annual meeting at Toronto.

With total free world supply at a record 390,000,000 pounds, and less demand upon industry for defence production, Dr. Thompson said, "the supply of nickel for civilian applications was improved, even though complete satisfaction of all civilian requirements was not possible."

Free world production capacity for nickel is expected to increase by 1958 to at least 450,000,000 pounds, Dr. Thompson continued. "The increase in International Nickel's annual productive capacity since the year prior to Korea", he stated, "has amounted to over 40,000,000 pounds. Its deliveries of nickel in all forms in 1954 set a record at 282,000,000 pounds."

### Healthy Civilian Industry Necessary

Noting that stockpiling and defence purposes accounted for some 40 per cent of the total free world supply of nickel, Dr. Thompson said: "While stockpiling is expected to continue, there are indications that the scheduled intake for this purpose may be modified and that after defence requirements have been satisfied more nickel will be available this year for civilian applications than in 1954. This is an encouraging development. The Company's management feels today, as it always has, that adequate defence preparedness is impossible without a healthy nickel-consuming civilian industry. The value of such an industry was clearly demonstrated twice within the last 15 years, during World War II and during the Korean conflict. Today, however, government stockpiling and defence requirements have, of necessity, weakened part of this important market by restricting the amounts of nickel available for civilian purposes. Many manufacturers, in the fear that relief would be long delayed, have been endeavouring to eliminate nickel in new design plans for their products. If this situation continues it can only have consequences detrimental to the security of the free world. In times of national emergency it is necessary not only to possess the required strategic materials, but it is equally necessary to have the trained manpower, technical knowledge and facilities to use them most effectively."

### Distribution

Reviewing the Company's policy of fair and equitable treatment to all customers — large or small — in the distribution of its supply, Dr. Thompson said: "The present enormous and abnormal requirements for defence and stockpile purposes make distribution a difficult task. But however exacting it may be, it is essential to the continuing success of the Company that our customers everywhere believe that we are doing our best and that we are bringing to this task experience gained

## Things Looking Up at New Plant



First commercial shipment from Inco's new iron ore plant near Copper Cliff will be made before the end of this year, Dr. John F. Thompson, chairman, said in his annual address to the Company's shareholders. The wide angle lens has created interesting lines

in the above picture, in which the flue from the roaster-kiln building has been connected to the 637-foot chimney. The workman stands in the connecting opening for a branch flue which will be closed off until the plant is extended.

in years of co-operation with consumers of nickel. We have lived with and supplied many of the principal users for our whole business life, many have been served for long periods and still other users have newly entered the industry. We have many small customers whose needs we are serving and who constitute an important and growing part of the consuming market. These small consumers are essential to a rounded and healthy industry. Not only do they provide special products and services but they hold out the prospect of introducing new developments in the uses of nickel and of becoming in time consumers of a larger portion of the world's nickel supply.

"The Company and its predecessors have been supplying nickel to the trade for nearly 70 years. The insufficiency of the limited supply for civilian purposes remaining under existing conditions not only is a present handicap to many of our customers but is potentially harmful to our long-range business by impairing the development and expansion

of markets for nickel and weakening the nickel-consuming industries in the countries which constitute our markets. Apart, therefore, from our feeling of responsibility, pure self-interest demands that we conduct the distribution of our supplies impartially and with the best skill at our command."

### Principal Nickel Applications

Dr. Thompson said the principal uses of nickel in 1954 were in the production of nickel alloy steels, including stainless steels, which accounted for 36 per cent of total consumption; malleable nickel and nonferrous alloys, 30 per cent; electroplating, 16 per cent; high-temperature and electrical resistance alloys, 7 per cent; cast irons, 4 per cent, and catalysts and magnetic alloys, 1 per cent each. Miscellaneous applications accounted for the remaining 5 per cent.

### Exploration

Dr. Thompson stated that International Nickel began exploration in northern Manitoba, Canada, in 1946. Since then, the initial

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# INCO FAMILY ALBUM

It won't be long until exam time, and then Yippee for the summer holidays— this was a cheering thought advanced by one teen-ager during our round of the Inco family circle this month, when we met: (1) Mr. and Mrs. Gordon Smith (Levack Mine) with Deborah, 21 mos. (2) Mr. and Mrs. Bill Regan (Murray Mine) with Shelagh, 10, Billy, 7 mos., Emmett, 9, Maureen, 12, and Jimmy, 11; (away at school in North Bay, Rosemary, 14). (3) Mr. and Mrs. Marvin Van Horne (Frood-Stobie Mine) with Ivan, 6, and Gregory, 7 mos. (4) Mr. and Mrs. R. Gauthier (Copper Refinery) with Gerald, 3, and Norman, 5. (5) Mr. and Mrs. Murray Walker (Port Colborne) with Susan, 6, Claudia, 3, Catharine, 10, and Laurel Jane, 2. (6) Mr. and Mrs. L. Myhers (Copper Cliff shops) with Joan, 17, Richard, 12, and Donald, 13. (7) Mr. and Mrs. Gar Green (Creighton Mine) with John, 3½, and Bob, 13.





## Ladies' Bowling League Divides Up the Swag



Once again the Caswell Hotel was the setting for the closing dinner of the Copper Cliff ladies' curling league, and once again the event was a delightful success. In the picture on the left Mrs. Betty Kerr presents the Robert Brown trophy to Mrs. Alida Hand, Mrs. Olive O'Brien, Mrs. Helen Godard, and Mrs. Ruth Harkins. On the right the Racicot-Darrach trophy is being presented by Mrs. Muriel Byers to Mrs. D. deSoto, Mrs. Peggy Dimmock, and Mrs. Olga Smith; absent was Mrs. Jerry Pappin.



The slick gent on the right in the first picture is Bill Jessup, just after presenting his trophy to Mrs. Lila Holtby, Mrs. Merle Allan, Mrs. Shirley Burns, and Mrs. Bea Forsythe. And in the other picture Arnold Boyd turns over the Canadian Legion trophy to (right to left) Mrs. Peggy Dimmock, Mrs. Kay McLean, and Mrs. Bea Forsythe; absent was Mrs. Sylvia Fryer.

## Chairman Stresses Need of a Healthy Civilian Industry

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small-scale reconnaissance has been expanded into a large exploration program centered in the Mystery Lake region. This program in Manitoba is still being pressed and has reached the stage where it has been decided to carry out exploration underground at the Company's Moak Lake property. At an estimated cost of \$2,000,000, an exploration shaft is being sunk to a depth of 1,300 feet with development scheduled on two levels.

### High-Grade Iron Ore

A fourteenth element will be added to the Company's output in 1955, he said. The first commercial shipment of International Nickel's high-grade iron ore pellets to the steel industry is expected to be made before the end of the current year. Construction of the \$16,000,000 pyrrhotite treatment plant near Copper Cliff, which will employ the Company's atmospheric pressure ammonia leaching process to recover this iron ore, is proceeding on schedule. The other elements recovered from International Nickel's ores are: nickel, copper, platinum, palladium, rhodium, ruthenium, iridium, gold, silver, cobalt, selenium, tellurium, and sulphur in the form of sulphur dioxide and sulphuric acid.

### Outlook

Dr. Thompson said that the Company has been "engaged over the last five years in a constant endeavour to increase and maintain its nickel production at the highest possible level. Along with this effort there has also been activity in preparation for the day when the world will have more nickel available than it will then require and new markets will again become the Company's immediate concern. The task of developing new markets, like the task of increasing the supply of nickel, is not something which can be done overnight but requires sustained activity over a period of years. Fortunately this market development activity does not in any way impede our production of larger amounts of nickel.

"This program for future selling is based on and supported by many years of continuous work in the surveying of markets, the development of technical information and the strengthening of channels of distribution. It is becoming increasingly recognized by our customers that when we supply nickel we also supply, as part of our service to the trade, commercial and technical information which makes the path of the consumer easier and more profitable. Knowing that no metal is commercially valuable unless it can be bought at some readily accessible point of distribution in the forms in which it is to be used, we have been building for more than 45 years a world-wide network of distributors and information centers which render wider and more efficient services than any other metal company.

"It is on this rounded basis of sound ore reserves, large and efficient production, skilled



Winningest person at the banquet was Mrs. Peggy Dimmock of course, with her three prizes. And winning is the word for Peggy, you'll agree.

and experienced distribution supported by ample research and technical services that we expect to contribute, in the future as in the past, our full share toward making available one of the great metal resources of Canada and of the world."

In closing Dr. Thompson said that "the year 1954 was a most successful one and the prospects for the current year are encouraging. The present demand for nickel and its extreme usefulness in many applications augur well for the future of the industry."

## Young and Cull Winning Captains in Garson Bowling



Garson's mixed bowling league, which sailed through another very successful season with Gordie Young as president, Mrs. E. Jouppl as vice-president, and Dolph Teahen as secretary-treasurer, staged its season's finale at the Club Allegri in Coniston with a banquet and dance. The league champions are seen above on the left with their trophy, Mr. and Mrs. Gordon Young, Mr. and Mrs. Tauno Perala, and Mr. and Mrs. Vern Kallio. On the right are

the playoff champs, Mr. and Mrs. Joe Cull, Mr. and Mrs. Pat Levesque, and Mr. and Mrs. Harvey Downey. In a class by himself, as far as the individual trophies were concerned, was Tauno Perala, who rolled high triple of 847, high average of 237, and shared the men's high single score, 345, with B. Spencer. Mrs. A. Young had the best triple and the best average among the ladies, 845 and 235, and Mrs. R. Chokan had the best single, a walloping 363.

## Ralph D. Parker A Vice-President

Ralph D. Parker, of Copper Cliff, Ontario, has been elected a vice-president, and Walter A. McCadden comptroller, of The International Nickel Company of Canada, Limited, Dr. John F. Thompson, chairman of the board, announced following the annual organization meeting of the board of directors.

Frederic Benard and G. Alan Harcourt have been elected assistants to the vice-president and Walter O. Hardacre assistant works auditor.

Mr. Parker continues his existing post of general manager of Canadian operations. He came to International Nickel in 1928 from McIntyre Porcupine Mines, becoming superin-

Company, Limited, exploration and prospecting subsidiary of Inco.

Mr. McCadden, the newly-elected comptroller, succeeds as comptroller Cameron R. Whitehorne, who, having reached retirement age, has retired under the Company's retirement system. Mr. McCadden joined International Nickel in October, 1935, as a tax accountant. He was named assistant to the comptroller in January, 1948, and assistant comptroller in 1949. Prior to his association with International Nickel he had been senior accountant with Price Waterhouse & Co.

Mr. Benard joined the Ontario Refining Company in 1929 and served as plant manager from 1930 until 1939, when he was appointed assistant to the general superintendent of the Mining and Smelting Division of Inco at Copper Cliff. He was appointed manager of industrial relations, Mining and Smelting Division, in 1947, and an assistant to the general manager of the Company's Canadian operations in 1954.

Mr. Harcourt became associated with Inter-

national Nickel in 1937 as a research engineer. He was named physicist in 1941, assistant superintendent of research in 1945, assistant to general superintendent in 1947, assistant superintendent of smelter in 1948, and an assistant to the general manager of Canadian operations in 1952.

Mr. Hardacre came to International Nickel in 1953 after having been with Price Waterhouse and Company in Toronto since 1949. Previously he had been associated for two years with J. Clare Wilcox, C.A., in Toronto.

### QUALITY GUARANTEED

Two distillers of moonshine were discussing their operations.

First—When I take my stuff into town, Ah always drive mighty slow — about 20 miles per hour.

Second — Skeered o' the law?

First—Nope—Gotta age the stuff, hain't ya?



WALTER A. McCADDEN

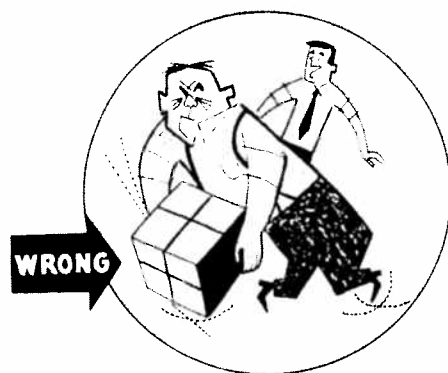
tendent of Inco's Creighton Mine, near Copper Cliff, then superintendent of Frood Mine, and subsequently superintendent of mines. In 1935 he was appointed general superintendent of the Mining and Smelting Division and in December, 1947, to the additional post of assistant vice-president of The International Nickel Company of Canada, Limited. Mr. Parker is president of Canadian Nickel

## Val O'Neill Presents Inco Club Cup



A supper dance at the Caruso Club put the finishing touch to another successful season for the Inco Club ladies' bowling league. Val O'Neill, the club's bowling impresario, is seen presenting the championship trophy to Mrs. Dorothy Bouchard and her team of Mrs. Aline St. Marseille, Mrs. Olive Slater, Mrs. Simone O'Hagan, Mrs. Irene McFadden, and Mrs. Yvonne Horne. Winners of the individual trophies were Mrs. Pat Westfall, high single, 305; Mrs. Mardi Langelle, high triple, 768; Mrs. Gert McLelland, high average, 190. There were eight teams in the league.

# It's All in Knowing How, the Man Says



Strange as it may sound, it is not uncommon in the "grunt-and-groan industry" — wrestling — for a smaller man to lift up and toss his larger adversary all around the Inco Club ring. Whether you believe it's preplanned or not, you will agree that plenty of "know-how" goes into the feats of strength that you witness.

As with anything else, when it comes to lifting it's all in knowing how. No matter how big you are, or how powerful, a load of one-tenth your weight can toss you for a fall if you don't lift properly. On the other hand, a smaller person using proper lifting techniques may sometimes lift a given weight more easily than his king-sized neighbor.

## Lifting Hints

Part of the secret can be summed up like this: Lift with your legs, not with your back! The trouble is that too many people start wrestling with a heavy object without first thinking about the common-sense rules of safe lifting. You will find some good advice in the following list:

1. Size up the load; do not lift more than you can comfortably handle.
2. Make sure that your footing is secure, and get good balance.
3. Place feet as close as possible to the object to be lifted.
4. Bend knees and keep the back as straight as possible.
5. Get a good grip on the object.
6. Lift with leg and arm muscles, keeping the object close to the body.
7. When raising objects to the top of a pile, especially if over shoulder height, lift until the object is at, or above, waist height. Rest the edge of the object on a ledge or stand and shift the position of the hand to boost the object further. Keep the knees bent when starting to raise the object to the higher level.
8. To put load down, get a good grip, bend the knees and lower the load with the leg and arm muscles, keeping the back as straight as possible.

It is a problem to gauge just how much you should lift. There is no set rule to follow, since physical differences in individuals make it impractical to set up a positive safe-lifting standard. But if, after close inspection, an item appears to be too heavy, don't take a chance! Ask for help before wrestling with it. You can avoid serious injury — and even permanent disability.

## A BIT OF PHILOSOPHY

Your Life is Your Job . . . Nobody else can conduct it for you. Nobody else is responsible for your success or failure. Form good habits and get rid of bad ones. The world doesn't owe you a living, but it will supply you with plenty of opportunities if you keep your mind and hands busy. Whatever you do, do as well as you can. Don't worry about mistakes; everybody makes them; but when you do make them, profit by them, and don't repeat.

## A Blessing Comes To David Stalker And a Million Pals

David Stalker, 8-years-old and the picture of smiling confidence lightly dusted with caution, stood sturdy while Dr. H. F. Mowat "gave him the needle."

The scene was the little schoolhouse at Willisville, near Inco's quartz quarry 60 miles from Sudbury. The Company's chief surgeon and Nurse Lydia MacLean had come to give the employees' children the protection of the new Salk vaccine before the onset of this year's polio season.

Crowded around were David's schoolmates, his sister Linda, Susan Morby, Adrian Carlyle, Georgie Leach, Terry Moorby, Dennis Myles, Glenn Newton, and others. Suddenly they had become his partners in a great new



A BLESSING, NOT A MIRACLE

adventure, full of mystery and promise, part of science's tremendous reaching for the richer and the fuller life.

At all Inco towns the scene had been duplicated, and also of course in the other schools of the area, as the Nickel Belt joined Canada in the campaign to inoculate at least 1,000,000 children before July 1.

Dr. Paul Martin, Canada's health minister, moved to clarify a somewhat confused situation when he stated that the celebrated Salk polio vaccine, acclaimed as one of the most important discoveries ever made for

humanity, is not a total and complete preventive of paralysis from polio. Rather, he said, it should be regarded as a blessing, not a miracle.

All Canadian vaccine is manufactured at the University of Toronto Connaught Laboratories. One lot of vaccine produced in the United States by a commercial firm was cleared for use in Canada after tests. All vaccine used in Canada was subject to careful safety tests both by the manufacturer and by the health department's laboratory of hygiene.

Certain difficulties developed in the supply of vaccine from commercial sources in the United States, forcing a curtailment of the inoculation program. When these are satisfactorily cleared up, and an expected supply of the vaccine becomes available from the Montreal Institute of Microbiology, many of the problems, often heartbreaking, attendant upon the birth of a great scientific discovery, will have been solved.

## Rain

Rain that falls in winter  
Is out of tune and drear —  
Beating at an ice-gray earth  
Too cold to care or hear.  
Autumn rain is gloomy —  
Rattling down the eaves,  
Tapping, whimpering, at the glass  
Rustling in the leaves.  
Summer rain slants softly  
Warm and sweet and slow,  
Or pours with sudden thunderclap  
To cool the parch below.  
But rain that falls in springtime —  
Its silver notes unpenned,  
Is like a first young love song  
Or the handclasp of a friend.

—Helen Baker Adams

Canada's railway companies have an investment of more than four billion dollars in road and equipment.



McMASTER-DIGBY

Virginia Digby of the nursing staff at Copper Cliff Hospital and George McMaster of the tabulating department at Copper Cliff made a charming couple on their wedding day in May. The picture was taken at the Copper Cliff Club, where the reception was held. Virginia's dad, Alfred Digby, is one of the veteran smeltermen at Copper Cliff.

# Thousands Came To See How Their Men Mine Nickel

By the thousands they came — the employees and pensioners of International Nickel in Sudbury and District, with their wives and families—to be the Company's guests at showings of the dramatic motion picture "Mining for Nickel."

At theatres in Sudbury, Creighton, Garson and Levack, specially reserved for the occasion, continuous presentations were made of the 50-minute feature, which is now being heralded as one of the finest industrial motion pictures ever produced.

New understanding of what daddy does at his daily work, and new pride in the size, scope, and progressive outlook of the great organization in which he plays his part, were gained by the hosts of families attending the showings.

Members of the personnel department under Alex Crossgrove, director of personnel, assisted in the arrangements for the mammoth theatre party. Each new audience was greeted from the stage by a member of the safety department, the assignment being led off by the superintendent of safety, A. E. O'Brien. The following was the substance of the welcoming remarks:

"We are glad to welcome you here today to an unusual film experience. We think you will agree with us that "Mining for Nickel" is a remarkable photographic achievement, particularly when you consider the difficulties of taking coloured pictures in the various working places underground. Much time and effort has been expended by skilled technicians working with the mines department to achieve these results.

"The film describes all phases of Inco's mining and underground operations, and, by skillful combination of animation with on-the-spot movies, takes us on a guided tour of high educational value, showing the equipment and methods used to mine the nickel ores. Animation is particularly in making it



This picture was caught by the Triangle camera when the film "Mining for Nickel" was being made. The two husky miners standing a set of timber in a square-set stope at Frood-Stobie No. 3 Shaft are Stan Hall and Roy Anderson. Silhouetted in the foreground are the heads of Joe Kohn, the director, and Dave Quaid, the cameraman, as well as the top of the motion picture camera.

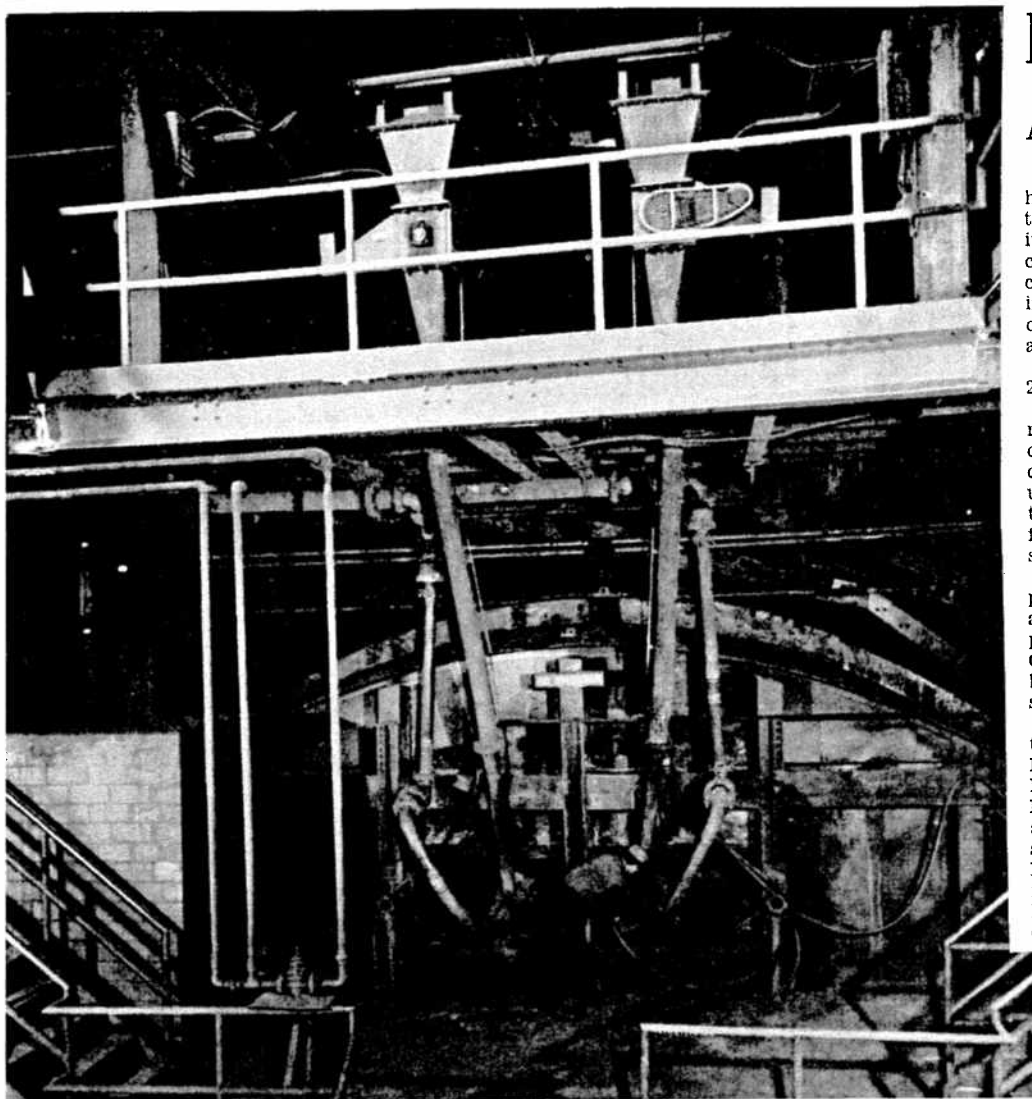
easy to understand the story of the search for new ore bodies, of mine development, and of mining methods. The stars in this picture are all Inco men and some of you will recognize yourselves or your fellow miners. Even those of you who see no familiar faces can be

assured that your contribution is as important as that of the men portrayed on the screen. It is hoped that through this film everyone connected with this Company will have a better insight into the modern mechanized methods used in our mines."

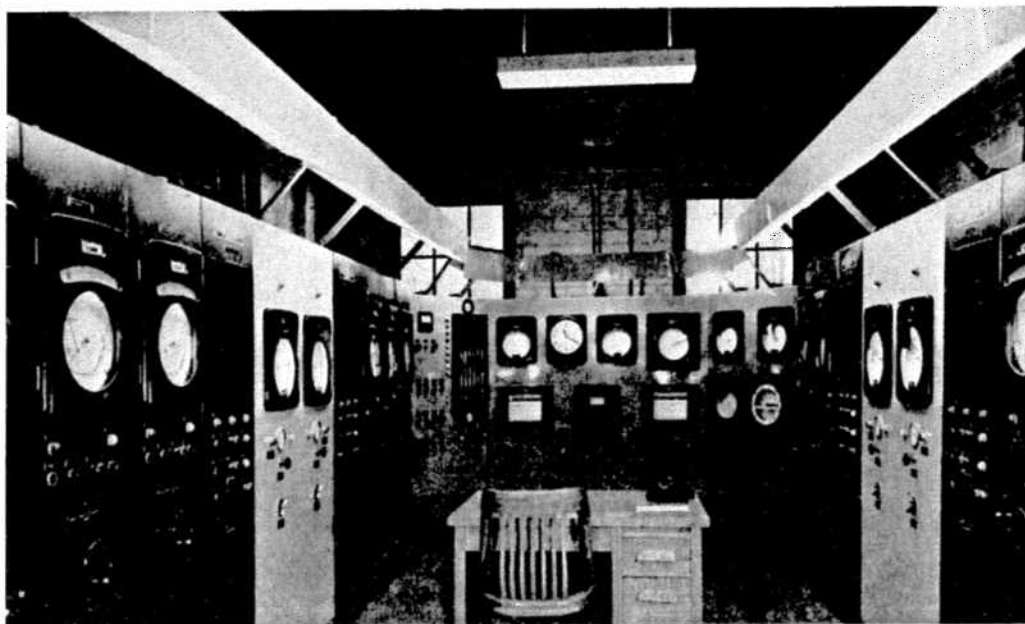


When "Mining for Nickel" was screened by Inco for all its employees at continuous showings in district theatres, both the Hall and Anderson families were spotted by the Triangle lens at the Empire Theatre, getting a special kick out of "the movie with daddy in it." On the left, above, are Mr. and Mrs. Roy Anderson with their fine-looking children, Charles, 15 months, Janet, 5, and Ronald, 7, and on the right are Mr. and Mrs. Stan Hall with their handsome brood Sharon (a camera dodger), 6, Elaine, 14, Bob, 12, and Charles, 15.





At the south end of the 1000-ton flash furnace at Copper Cliff smelter the feed pipes are seen extending from the burners up to the rotary air locks on the platform above, from which they reach to the gravimetric feeders (not shown) on the floor above the air locks. The oxygen lines with their swivel joints are shown connected to the burners, one of which is being checked by Johnny Taus.



This is the nerve centre of Inco's latest smelting development, the control room for the 1000-ton flash furnace. Controls for the four burners are on the sides of the room, and on the end are controls and recorders for gas cleaning, temperature, total oxygen consumption, sulphur dioxide flow and analysis, and other phases of the furnace's operation.

## International Nickel Advance in Extra

The International Nickel Company, which has pioneered many notable advances in extractive metallurgy, has revealed details of its oxygen flash smelting process for treating copper concentrates. One of the world's first commercially successful processes for smelting fine sulphides in suspension, the method developed by Inco is now being used to treat all of its copper sulphide concentrates.

The company in 1954 delivered more than 250,000,000 pounds of refined copper.

Under development since 1945, the process recently completed its first full year of successful operation. It has reduced Inco's copper smelting costs and, in addition, the use of oxygen for smelting has resulted in the production of a high quality furnace gas from which liquid sulphur dioxide and sulphuric acid are made.

Details of the process were outlined in a paper prepared by the staff of Inco's Mining and Smelting Division at Copper Cliff, and presented at the annual meeting of the Canadian Institute of Mining and Metallurgy by C. E. Young, of the smelter operating staff.

Development of the new process involved the co-operative efforts of the International Nickel Company, Canadian Industries (1954) Limited and the Canadian Liquid Air Company Ltd. The process eliminates the fuel normally required for smelting and permits large scale output by Canadian Industries (1954) Limited of liquid sulphur dioxide produced from the flash smelting furnace gases. The low-cost oxygen which makes Inco's process economically possible is produced by a



Bill Peever is cleaning the chimney in which it will be transferred.



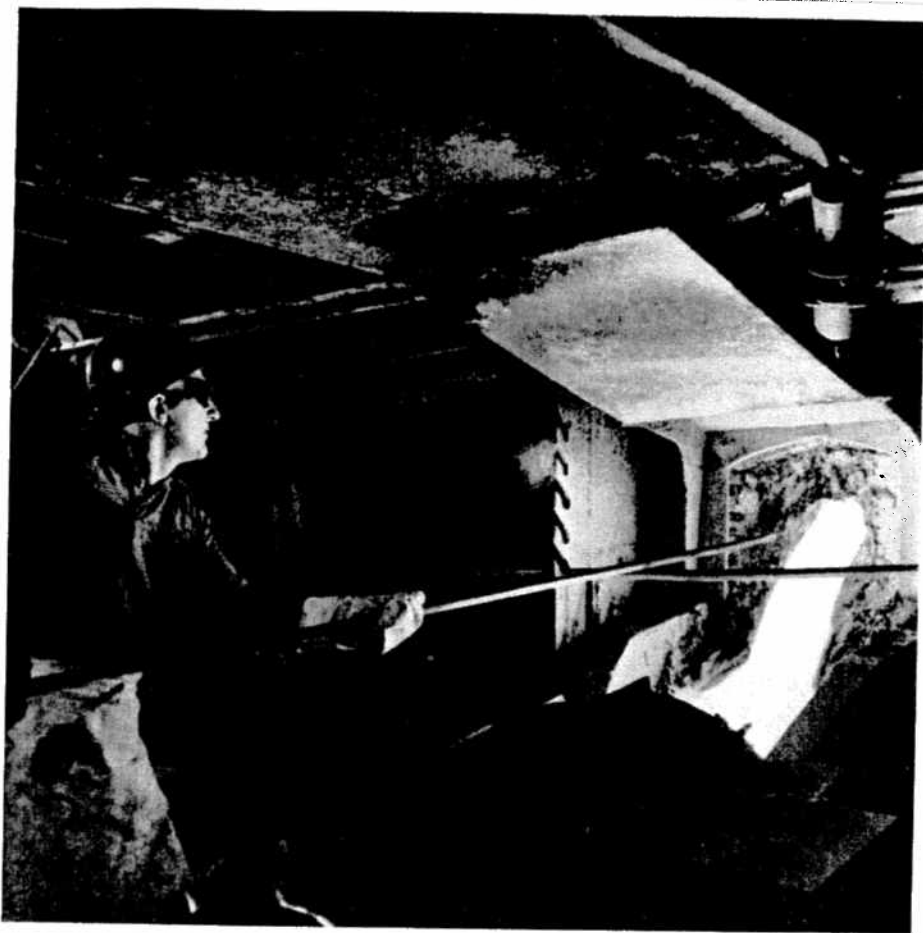
## el Pioneers Another tive Metallurgy

nage oxygen unit known as an Oxyton, which was built for Inco by Canadian Liquid Air Co. This unit produces 325 tons of 95 per cent pure oxygen every 24 hours, corresponding to 2-2/3 billion cubic feet of oxygen per year, or three times the production of all the cylinder oxygen plants in Canada.

The conventional treatment of copper sulphide concentrate involves smelting in reverberatory furnaces with pulverized coal or other fuel, with or without prior roasting. The matte formed contains a large proportion of iron sulphide, which is subsequently removed by oxidation and slagging in Bessemer converters. The converter slag thus formed is returned to the copper reverberatory furnaces. The copper sulphide remaining is "blown" to blister copper, which is then refined for commercial use. At Inco, the former practice was to wet charge the copper concentrates with flux to reverberatory furnaces, and smelt with pulverized coal.

In the Inco flash smelting process, finely divided copper concentrates and flux are dried and injected with oxygen into the pre-heated smelting furnace to produce matte, slag and a gas containing about 75 per cent sulphur dioxide. In the furnace, the oxygen combines with some of the sulphur and iron of the chalcopryite (copper-iron-sulphide) to form sulphur dioxide and iron oxide. The heat of the reaction is sufficient to melt the residual copper-iron sulphide to form a matte, and the iron oxide combines with the siliceous flux to form a slag. An important feature of the Inco

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Eric Blais is skimming slag from the flash furnace. In the top right-hand corner of the picture is a radiomatic pyrometer for recording the temperature of the slag.



opper matte flows from the flash furnace into a e of the converters.



In this picture, discussing the regular 24-hour report on the operation of the flash furnace, are shift bosses Bill Trotter and Charlie Young.

## Electric Barriers Put the Whammy On Sea Lamprey

Installation of electric barriers, using line voltage or power from portable generators, in fighting the sea lamprey invasion of the Sault and Montreal Rivers north of Sault Ste. Marie, was described to the annual smoker of Copper Cliff Rod & Gun Club by Ken Loftus of the Department of Lands and Forests. The barriers set up an electric field in the stream which lures the lamprey to their death but is shunned by other fish. Some 20 of these barriers have now been established, he said, and it is hoped eventu-



Standing are Ken Loftus, Sault Ste. Marie biologist with the Department of Lands and Forests, and Dan Salhani, president of Copper Cliff Rod & Gun Club; seated are the department's Sudbury district biologist, Bill Morris, and Lionel Roy, vice-president of the club.

ally to ring Lake Superior with barriers in streams where there are lamprey spawning grounds.

Presentation of the F. Benard shield and a Coleman lantern to George Moore, who caught the fish with the highest Cochrane Dunlop rating in the club's annual contest, was made by Alex Crossgrove. George's speckled trout, weighing 5 pounds 12 ounces,



Alex Crossgrove, director of personnel, with the Rod & Gun Club's major trophy, the Frederic Benard shield.

## Had Happy Time at Plate Shop Ball.



The annual Plate Shop Ball, held at the Caruso Club in Sudbury, drew the usual large attendance and proved to be even more successful than last year's very enjoyable party. Nearest the Triangle camera in this group at one of the dinner tables were Mr. and Mrs. T. Tomassini, Mr. and Mrs. C. Digale, and Mr. and Mrs. J. McNamara; opposite them are Mr. and Mrs. D. Tomassini, Mr. and Mrs. A. Tonelli, Norm Oglestone and Miss Betty Dickinson.

rated 69.7%. Other entries which deserved honorable mention were H. Hunter, small mouth bass, 4 pounds 6 ounces, 56.5%; A. Balselli, northern pike, 11 pounds 12 ounces, 46.6%; Harry Franssi, pickerel, 7 pounds 1 ounce, 46%; Basil O'Brien, lake trout, 14 pounds 8 ounces, 36.8%; Basil O'Brien, speckled trout, 5 pounds 8 ounces, 66.8%.

There was a large turn-out to the stag, at which the usual tasty vittles were served.

## Flash Smelting

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process is a novel method of cleaning the copper-rich slag by flash smelting pyrrhotite at the skimming end of the furnace. The slag is showered with iron sulphide droplets which, in settling into the matte beneath, extract copper from the slag.

The flash smelting furnace gas is water-scrubbed and treated by a wet Cottrell before it is converted into liquid sulphur dioxide by Canadian Industries (1954) Limited. The production of liquid sulphur dioxide involves drying the cleaned gas with sulphuric acid, then compressing and cooling the gas to condense the sulphur dioxide. Using gas from this furnace and other smelter units, Canadian Industries (1954) Limited last year produced approximately 70,000 tons of liquid sulphur dioxide for use by the Canadian sulphite pulp industry as well as about 65,000 tons of 100 per cent sulphuric acid.

Inco's flash smelting furnace is 68 feet long, 24 feet wide and 17 feet high at the ends, outside its steel casing. It has a smelting capacity of approximately 1,000 tons of dry solid charge daily.

### BETTER PART OF VALOR

Sergeant — When I say "Fire" I want all of you to fire at will.

Just then a recruit leaped to his feet and disappeared like a scared rabbit.

Sarge — Who was that?

Another recruit — That was Will.



Mr. and Mrs. Benny Dorigo were another couple thoroughly enjoying the annual get-together arranged by the boys of the plate shop at Copper Cliff.

### WRONG TEMPER

A howling baby sat in his perambulator while his father pushed him along.

"Now, James, control yourself," the father said in quiet tones. "Keep calm."

A woman who had been watching said, "I congratulate you, young man. You know just how to speak to babies, calmly and gently. So much better than shouting at them." Then, leaning over, she said to the child in the pram, "So you are James?"

"No," corrected the father. "His name's Peter. I'm James."

### A CRACKERJACK

The traveller in the railway carriage had eaten a large pastry with gusto. A few moments later he was doubled up with pain and a sympathetic fellow-traveller asked if he could help.

"No, thanks," came the reply. "My wife put some nuts in that pastry and forgot to shell them!"

"Great Scott!" exclaimed the fellow-passenger. "And you can crack them by just bending your body?"



George Collins (left) presents the Collins Cup to Skip Gordon Harry and Dave Duncan, Doug Thom, George Fleming and Ed Chyc.

## Strong Executive Named at Annual Curling Club Stag

T. M. Gaetz will guide the destiny of Copper Cliff Curling Club next season, taking over as president from Jack Lilley following the election of new officers at the club's annual stag. Other members of the strong executive are: honorary presidents, J. R. Gordon, R. D. Parker; honorary vice-president, W. T. Waterbury, D. Finlayson, G. Hudson; vice-president, A. E. O'Brien; secretary-treasurer, A. Nickle; asst. secretary-treasurer, G. E. Burns; committee chairmen, house, E. Stoneman; competition, A. D. Crossgrove; shift curling, R. Sheridan; executive members, mines, W. J. Taylor, E. Godard; mechanical, W. Flowers; safety, T. M. Crowther; refinery, L. Kitchener; medical, C. R. Ferguson; town, J. L. Spaulding; electrical, V. McGauley; smelter, A. D. Harrison; general office, T. Meeham; mill, A. Pinaud, teachers, B. McClelland.



M. Austin (left) presents the Colts trophy to Skip G. Canapini and P. Camilucci, B. Volpini, and F. Pilatzke.



J. R. Gordon (right) presents the Gordon trophy to Skip S. Kuzmaski and V. Trembley and D. Thom. (Absent, V. Ritzel.)



A. Godfrey (right) presents the Inter Rink trophy to Skip R. Canapini and A. Conte, P. Stephenson, and B. Leclair.



T. M. Gaetz (right) presents the Special Event prizes to Skip A. Godfrey and J. Twiss, E. Moxam, C. Robertson. (Absent, F. Pawson.)



B. M. Forsythe (right) presents the W. T. Waterbury trophy to Skip K. Harkins and R. Sheridan, R. McGhee. (Absent T. W. King.)



E. Stoneman (right) presents the Single Rink trophy to Skip R. Taylor and L. Sauve, T. R. Box and D. Taylor.



## Big Shipment of Plantings Received for Inco Towns



Part of the annual shipment of trees and shrubs from a Southern Ontario nursery is shown being heeled in at the agricultural department's greenhouse in Copper Cliff for holding until delivery to Inco towns. The furry little fellows in the left foreground are Koster's blue spruce. Included in the shipment, one of the largest ever, were elm, poplar, and maple trees for street line plantings. Tom Peters, checking on the right, says the number of Inco householders interested in improving their home surroundings is very gratifying again this year. Members of the horticultural crew in the picture are George Vinasoja, Dullio Orazietti, Pasquale Delmas-tro, Carmelo Zanotti, and Luigi Mei.

## A Foursome of Badminton Boosters



Upwards of 100 attended the very enjoyable party ringing down the curtain for the Nickel Belt Badminton Association. Active in arranging the affair, as they have been in badminton doings throughout the season, were John Hartman (president), Colette Potvin, Gerry Myers, and Ev Staples.

## GOLD CORD GUIDE



Jean Stevens, daughter of Mr. and Mrs. Jim Stevens of Willisville, was one of the large assembly of Girl Guides who stepped proudly forward in a recent ceremony at Convocation Hall, University of Toronto, to receive the highest award in Guiding, the gold cord. She has a total of 20 proficiency badges.



# Mining Men Applaud Inco Salute to Research

Canada's top mining men applauded a salute from the president of the world's largest nickel mining enterprise to the development of a new Canadian producer, Sherritt Gordon Mines Limited.

Occasion was the presentation of the Inco Platinum Medal for outstanding achievements in the treatment of metalliferous ores by Henry S. Wingate, president of The International Nickel Company of Canada, Limited, at the annual dinner of the Canadian Institute of Mining and Metallurgy. Recipient was Professor Frank A. Forward, of the University of British Columbia and a consultant to Sherritt Gordon.

Inco had pioneered in process research and had combed the universities of the world for technicians and consultants of the highest calibre, Mr. Wingate said.

"In spite of the fact we thought we had the cream of the crop we found that brains were very widely dispersed and we missed one of the best," he added.

Noting that the Institute had held a symposium on the development of Sherritt Gordon, Mr. Wingate congratulated that company on its progress.

Professor Forward's work in the development of a leaching process for the extraction of sulphides and the recovery of nickel, copper and cobalt at Sherritt Gordon was recognized by the Institute in the awarding of the Inco Medal.



PRESIDENT WINGATE PRESENTS MEDAL TO PROFESSOR FORWARD

## Prize-Winners at Lively Mixed Bowling League Party



With Jerry Mahon sparking the proceedings as emcee, and 80 of the league's 84 players present, the second annual dinner dance of the Lively mixed bowling loop went into the books as a complete success. A fun-making feature was the presentation of special "bowling oscars" to one member of each team.

In the first of the above pictures are the winners of the J. C.



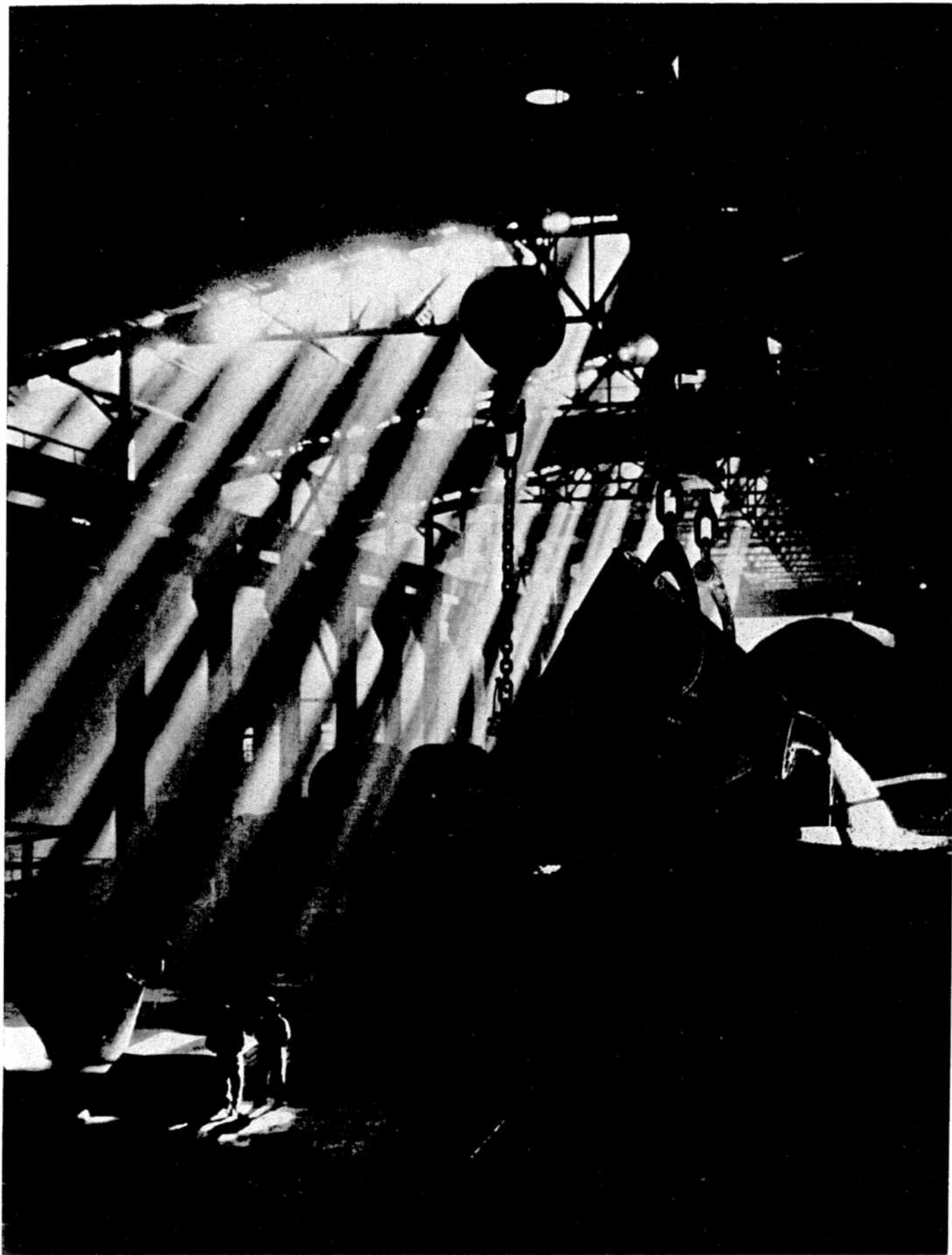
Parlee trophy, emblematic of the playoff championship: Mr. and Mrs. Harry Levac, Mr. and Mrs. Peter Dumencu, Bill Wellington, and Mrs. Lucy Sime. The other picture is of the president's shield winners, top team in the regular schedule, Mr. and Mrs. Ray Forth, "Robbie" Robertson, Mrs. Neila Nolan, and Mr. and Mrs. Bob McCleary; the team captain, Earl Nolan, was absent.



On the left here are the winners of the consolation series in the Lively mixed bowling league, Bill Morrison (captain), Mrs. Iris Hunter, Mr. and Mrs. Nels Crowder, and Mr. and Mrs. John Stout. To the right we have the people who picked off the league's individual prizes: Mrs. Dolly Shoveller, ladies' high triple, 827; John



Dingwall, men's high single and high triple, 376 and 936; Mrs. Carrie Davey, high playoff single, 371; Peter Dumencu, men's high average, 228; Mrs. Liisa Dumencu, ladies' high single and high average, 339 and 196.



*Sunlight in the Smelter*

## Levack Guys and Gals Have Curling Party Together



Whatever the project or activity, if it's taking place in Levack it seems guaranteed to get both barrels as far as enthusiasm is concerned. The annual party for awarding the curling prizes was certainly no exception, a most enjoyable time being had by all, as the saying goes. In the accompanying pictures are seen some of the presentations, everybody obviously in a happy frame of mind. Above left, President Frank Palumbo presents his trophy and prizes



to Skip A. Bell, S. Piaskoski, R. Thompson, and Nick Ribic. Runners-up were R. Holm-Anderson, Bud Rodd, B. Londeau, O. Purvis. Above right, Dr. H. F. Mowat is presenting the Mowat trophy to Skip E. Hilton, E. Drake, F. Leach, J. O'Shaughnessy. Runners-up in this Colts event were C. Brown, T. Kauppinen, R. Mitchell, D. Simpson.



Sam Rothschild of Sudbury, an executive of the Dominion Curling Association, was on hand to present the Fera Memorial trophy, left above, to Skip A. Hutchinson, H. Kulmala, and M. Delorme; absent was L. Lejambe. Runners-up in this event were J. O'Shaughnessy, B. Cameron, J. Gaydos, and N. Mailhot. In the



picture on the right, Doug Wright does the honors with the Rolmac trophy to Skip A. Bell, F. Dolci, and H. Young; absent was Father Wells. Runners-up were D. Cameron, A. Cecchetto, T. Kauppinen, and A. Spare.



In the first picture here one of the ladies' trophies, the Matilda, is being presented by Evo Piccolo to the winning skip, Mrs. C. P. Jessup, and Mrs. E. Hilton, and Mrs. F. Palumbo; absent, Mrs. S. Holmes. On the left is Mrs. W. Bushnell, president of the ladies' section of the curling club. In the second picture Sam Rothschild



looks like Sergeant York as he presents the Cochrane Dunlop trophy and prizes to Skip R. Ludgate, E. Piaskoski, and K. Belter; absent, L. Lejambe. Runners-up here were F. McAteer, A. Cecchetto, R. Pearson, S. Zamojski.



On the left the H. J. Mutz trophy is again presented by Supt. Frank McAteer to Skip R. Diebel, other members of whose team were J. Gaydos, R. Thompson, R. Priddle. In the centre E. Piaskoski awards the Piaskoski Consols trophy to Skip Johnny McCreedy, D. Storey, and K. MacLeod; absent, V. Larsen. Runners-



up in the Consol playoff were D. Wright, E. Kauppinen, H. Goodspeed, T. Kauppinen. On the right Don Endelman presents the Endelman Memorial trophy to Mrs. D. Storey, who had on her winning rink Mrs. R. Diebel, Mrs. A. Cecchetto, and Mrs. R. Davidson.

# SNAPSHOTS OF LIFE WITH INCO



Hearty congratulations on his good fortune, and the keys to a sparkling new Chevrolet sport coupe, are received by Walter Pinette (left), a timberman on 3100 level at Frood-Stobie, from the mine superintendent, C. H. Stewart. The Frood-Stobie Athletic Association held a mammoth party at the Inco Employees Club, and Walter's name popped out of the hat when it came time to award the car to the best dancer or something.



Fred Buchy, Holly Duncan and Ed O'Brien, three Creighton stalwarts living in Lively, manage to appear only modestly proud of the lovely catch they got on the opening week-end of the speckled trout season. From 2½ to 4 pounds was the weight of these beauts which Ed told us without batting an eye were caught in Walking Squaw Lake, Moccasin Township.



The strikingly beautiful girl is Miss Canada 1954, Barbara Markham of Cornwall and Toronto, who went to Port Colborne to enhance a couple of community projects with her presence. Fencing her in are Don Horne of the Nickel Refinery's accounting department and Charlie Toth of the electrolytic department. "Life can be a lovely thing" breathed Charlie, and debonair Don beamed in agreement.



Dinah Lee, Kathleen, and other famous ladies receive a sentimental serenade when this quartet gets its sweet harmony going. All spruced up with hard hats and extra hair for a curling club stag were Ed. Romney, Jack Holloway, Gord Colgrove, Ted Evans.



Inco fellows who helped carry home the prizes from the Sudbury Granite Club's curling finale are seen here: Toby Armitage (Frood-Stobie), Joe Harrison and Fred Sheridan (Copper Refinery), Jack Holtby (Copper Cliff purchasing), George Smith (Copper Refinery), Bob McInnes (Copper Cliff pay office) and Vern Johnston (Copper Cliff bit shop). Master of ceremonies for the presentation was Bill Duncan.