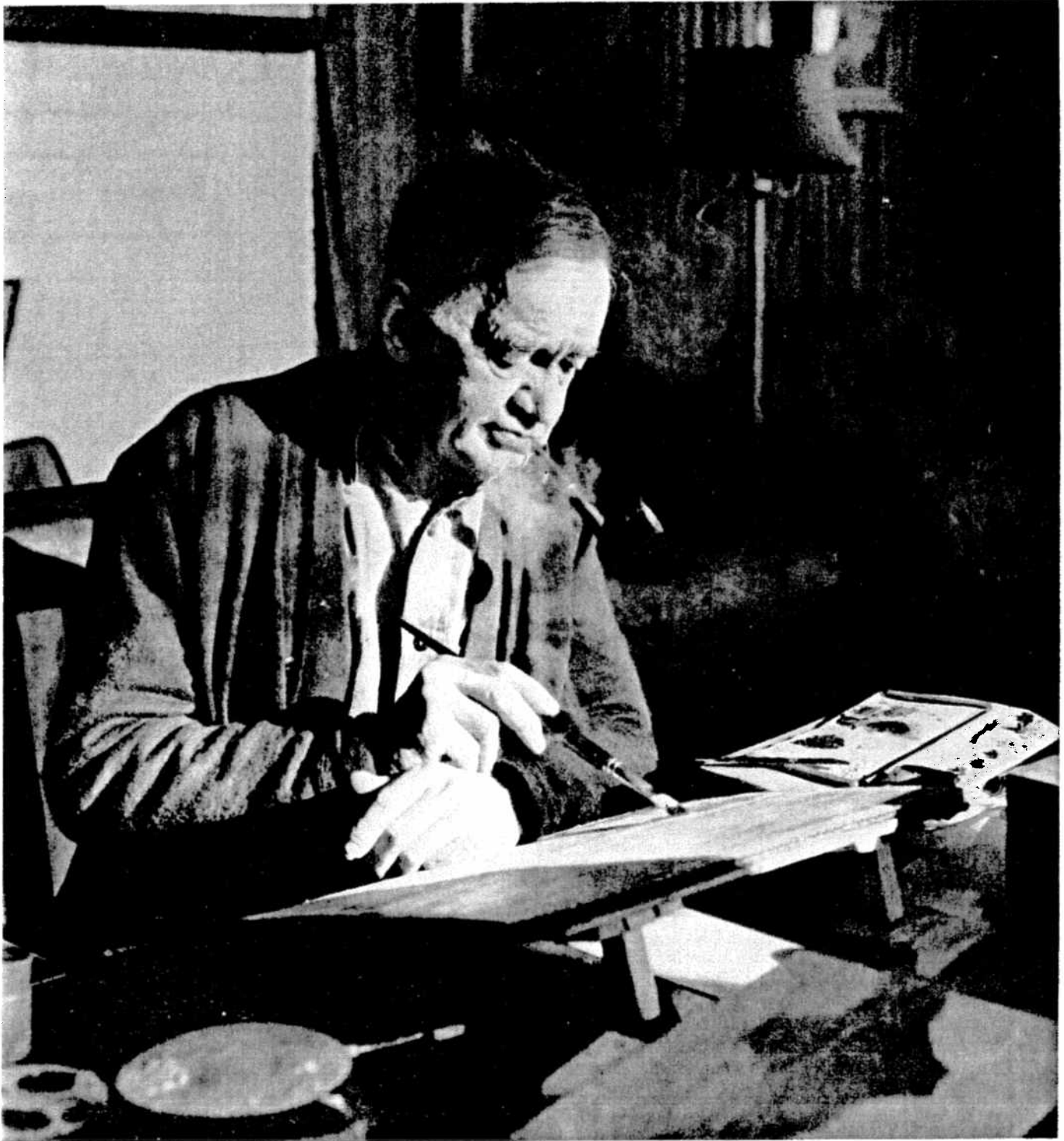


INCO TRIANGLE

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John Brodie of Garson



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Nickel Market's Dramatic Turn Feature of '57

"The year 1957 has brought a turn-about in the supply-demand situation for nickel," Dr. John F. Thompson, chairman of the board of Inco, stated on December 31 in a year-end review of the nickel industry.

"After many years of nickel shortage for civilian purposes, the combined supply of market and premium price nickel came into close balance with demand in nearly all areas of the world during the last part of 1957. In fact, in the largest market, the United States, the supply exceeded the demand. In that market the year started with demand for civilian purposes much greater than supply and will end with stocks in customers' inventories about 25,000,000 pounds greater than a year ago and with an accumulation in the hands of the government of a large supply of unsold government nickel diverted from stockpile.

"This change was brought about by a record high free world production of nickel, sharply reduced defence demands and the United States Government's endeavour to divert to industry during the year all nickel scheduled for stockpile intake," Dr. Thompson continued. "The last two factors had the effect of greatly increasing the civilian supply in the United States. Some nickel was also released from the United Kingdom's stockpiles for distribution in that country. While free world defence requirements were substantially lower than in 1956, civilian consumption increased to the extent of approximately compensating for the reduced defence consumption.

Free World Supplies

"Free world nickel supplies in 1957 are estimated at 490,000,000 pounds, compared with the previous high of approximately 450,000,000 pounds in 1956 and 425,000,000 pounds in 1955," Dr. Thompson stated.

"Deliveries of the metal by the several Canadian producers will reach a new high total of about 360,000,000 pounds, representing approximately 75 per cent of the free world's entire supply. Of the balance available to the free world, Cuba will account for about 9 per cent; United States, 4 per cent, and New Caledonia, Japan and others, 12 per cent.

"International Nickel, the world's largest nickel producer, operated at capacity in 1957 for the eighth consecutive year. The Company's deliveries of nickel in all forms will exceed 290,000,000 pounds, or about

Another Award for Inco's Report



Inco's annual report for 1956 was accorded another honor when Floyd S. Chalmers presented the Financial Post award to Henry S. Wingate and J. Roy Gordon, president and executive vice-president of the Company, in the ceremony at Toronto shown above. The Inco report was judged best in the Canadian mining and oil production industries for "the clear, readable, and concise story it presented of essential features of the Company's operations."

5,000,000 pounds above deliveries in 1956.

Nickel Distribution

"Of the total free world nickel supplies available in 1957, an estimated 60 per cent was delivered to the United States, with about 40 per cent going to Canada, the United Kingdom and other countries of the free world. Whereas there have been recent years in which 40 per cent of the free world's nickel was consumed by defence and stockpiling requirements, only about 20 per cent was wanted for these purposes in 1957, making a greater quantity available for civilian applications.

Applications

"The steel industries of the world continued during 1957 to constitute the largest markets for primary nickel, principally for the production of stainless steels, engineering alloy steels and jet engine alloys.

"Production of nickel-containing stainless steels in the United States occasioned by reduced defence requirements, will be less than the all-time record high established in 1956. However, the nickel-containing types will account for a greater percentage of the total stainless steel output during 1957 than for any year since 1948. In the United Kingdom production of wrought nickel-containing stainless steels showed an increase of almost 10 per cent. The demand for nickel-containing stainless steels continues high in all fields. Greater amounts of these steels are being employed for structural parts in military aircraft and missiles.

"The amount of nickel consumed by the steel industries of the United States in the production of nickel-containing engineering alloy steels in 1957 was approximately the same as in 1956. Total alloy steel production was lower than in the previous year, but there was a

greater demand for steels containing higher percentages of nickel. During the year plans were announced in the United Kingdom and other countries for the expansion of facilities to increase steel production and it is expected, therefore, that nickel alloy steel output will increase proportionately. The major portion of the consumption of engineering nickel alloy steels was for established applications such as in automobiles, trucks, tractors, aircraft, military equipment, farm machinery, road building equipment and com-

ponents for the railroad and petroleum industries. The most important new applications were those involving heat-treated high-strength structural plates and shapes containing up to about 3 per cent nickel for bridges, pressure vessels and hulls for submarines and naval surface vessels.

"Nonferrous alloys containing high percentages of nickel, such as the **Nimonic** nickel-chromium alloys developed by Inco affiliates in the United Kingdom, The Mond Nickel Company, Limited, and its subsidiary Henry Wiggin & Company, Limited, and the **Inconel** nickel-chromium alloys, developed by Inco's United States subsidiary, The International Nickel Company, Inc., maintained their position throughout the world as standard materials for use in aircraft gas turbines for such vital components as combustion chamber linings, stator and rotor blades and for afterburners.

"The **Monel** nickel-copper alloys were again employed throughout industry for a wide variety of corrosion-resisting applications, particularly in the power, chemical and marine fields. Increasing use of these alloys was made during the year for sheathing for protection of the legs of off-shore oil drilling platforms.

"In the atomic field, the plants for the extraction and refining of uranium and the utilization of atomic energy continued to make wide use of the corrosion-resistant properties of nickel-containing stainless steels and Inconel, Monel and pure nickel. These alloys, together with other high nickel alloys produced by International Nickel and its affiliates, provide materials required to meet the precise demands of modern industry.

"Despite increasing competition from aluminum and other metals, **nickel-plating** continued to play its vital role in decorative and engineering applications in all areas of the free world. Its use as

(Continued on Page 14)

Recording Popular Christmas Program



Much favorable comment was received again this year on the Inco broadcast of Christmas music over radio station CKSO, Sudbury, on Christmas Day. The lovely voice of Chrissie Nemis, with Ella Minkkila at the piano and Ray Van Berkel at the organ, provided a delightful hour's interlude of old favorites. Picture shows these three gifted and popular artists as they recorded the program at CKSO.

INCO

Family Album



LEFT: Mr. and Mrs. Stan Kotyk of Levack, both of whom were born and raised in the Soo, are shown with Sandra, 3, and Peter, 7. **ABOVE:** Mr. and Mrs. Albert Junor (Copper Cliff smelter) with Patricia, 13, Eva, 12, Judy, who was 11 on January 27, Lola, 9, and Donna, who was 4 on January 25; they live in Lockerby. **RIGHT:** Mr. and Mrs. Ken Brownell of Port Colborne with Jerry, 10, and Ken Jr., who is also a nickel refinery man.



LEFT: Mr. and Mrs. Bill Mayors (copper refinery) with Barbara May, 7, and Billy, 4. Bill is an ice fishing fan. They live in Sudbury's Alexander Park area. **RIGHT:** Mr. and Mrs. M. C. McNichol (open pit) with Douglas, 18, Robert, 16, and Brian, 10. Mrs. McNichol is a member of the Inco Club staff.



BELOW: Mr. and Mrs. Leonard Brosseau (Garson mine) with Billy, 9, Lonnie, 7, and Margaret, 4. Len had the most "lit up" house in town again this Christmas, with over 600 colored lights. **LEFT:** Mr. and Mrs. Larry Delaire (Frood-Stobie mine) of Sudbury with Guy, 15, Mark, 11 on January 16, Gill, 7, Suzie, 4 and the next Margot Fonteyn, and Dan, 2 months.



Civic Spirit and Co-Operation Build Rink at Coniston



Before an admiring gallery of enthusiasts, several of them among the 94 owner-builders of Coniston's new curling rink, Tom Hoare prepares to throw the first stone January 8 to test the newly made ice. Left to right behind Tom are Alex Rivard, Andy McLean, Tommy Taylor, Gino Oliver, George Halverson, Gino Gobbo, John Buchowski, C. Oliver, Jack Angove, Jim Fitzgerald, R. Petryna, Lefty Cleaver, and G. Olivier.

Official Opening On February 1st

A dream comes true in Coniston February 1 with the official opening of the town's new curling rink.

Built by voluntary part-time labor and private subscriptions, it is one of the most ambitious do-it-yourself projects ever completed in the Sudbury district.

On land made available by Inco near the entrance to Coniston at the corner of Concession Street and Fourth Avenue, the sturdy new structure stands as a monument to civic spirit and co-operation.

Interest in building a curling rink was first stirred up by a committee which included Tom Hoare, E. J. Orendorff, John Buchowski and town clerk Prosper Olivier. As a result of their efforts a public meeting was held and 94 citizens subsequently agreed to contribute \$100 each toward financing the project. Then everybody pitched in to help.

Plans were drawn for a rink measuring 182 feet by 60 feet, with four sheets of ice. Starting June 15 volunteer workers dug the excavation for the basement and poured the concrete sub-structure, built the cement block walls and partitions, helped install the laminated arch roof. As many as 40 volunteers turned up of an evening

to lend a hand, although the number usually ran about 20. Highly skilled carpenters, masons and electricians were among them, so very little of the work had to be let out on contract.

A large lounge with excellent accommodation for the "plate-glass" curlers, locker rooms, ladies'

lounge, and ample storage space are some of the features of the big rink. Provision has also been made for the installation of an artificial ice plant, which it is hoped will be obtained next year through another general assessment.

A matched set of 64 brand new



This roofing crew was typical of the squads of volunteers who worked hard to build the fine new Coniston curling rink in just over six months. Left to right are John Buchowski, Ray Parker, Bernard Forestell, Harold Oliver, and Andy McLean. Some evenings as many as 40 part-time volunteers were at work on the big project.

curling stones was imported from Scotland.

With all in readiness by freeze-up except for some finishing work to be done here and there, ice was soon made and the first introductory games were played the evening of January 8. Since that time a bonspiel of sorts has been run off to give the novices, who outnumber the actual curlers in the town about 10 to 1, a chance to get the feel of the rocks, develop their sweeping form, become filled with awe and respect for the skip, and learn how to take part in a post mortem. The first invitation bonspiel gets under way January 31, with 32 rinks.

More than 100 men and almost 50 women have already become members of the Coniston Curling Club. High school and shift league curling will be arranged along with other regular club events as various organization details are ironed out.

The community rightfully looks with pride on its handsome new curling rink, and shares with those who worked together to build it a keenly satisfying feeling of accomplishment.

Other curling clubs of the Nickel Belt will join in heartily welcoming Coniston to the great curling fraternity.

An Extra End



Not all the strategy is used on the ice at Copper Cliff Curling Club. There's a lot of position-playing takes place in cribbage games like this duel between Basil O'Brien and Ralph Boyter, and Lloyd Sleaver and Jack Turnbull.

LOVE AND THE PHONE CO.

The telephone company's study of combinations and permutations shows that this can happen only once in five thousand calls, but the young fellow claims that is too often. Once was enough to cause him a lot of trouble, he says. It seems that he and his girl telephoned each other's apartments at the same time. Each got a busy signal. He mildly wondered "what other jerk is trying to date my girl?" Later, when he got through to her and they both explained, he had a good laugh about it. "Trouble is," the young fellow says, "she doesn't believe me. Thinks I was talking to another girl. The thing is causing me a lot of trouble."

He was upset enough to call the telephone company and tell about it all. That was when he learned of the five-thousand-to-one chance. The telephone man said the company had provided against practically any kind of disaster, except love.—The Printed Word.



The boys of the yard gang at Frood mine gathered at the end of a shift to say farewell to Andy Penna as he retired on service pension. From many friends at Frood, where he had been a steady worker since 1931, Norm Dupuis presented Andy with a well-filled wallet and best wishes for a happy and healthy retirement.

Frood Farewells An Old Friend

Known as Andy to all his friends at Frood — and that includes just about everybody — Antti Penna first worked underground 45 years ago. That was in the copper mines of northern Michigan. Today, after long service at Frood mine, Andy is retired on a comfortable Inco service pension. Belying his years in both looks and outlook Andy is already thoroughly enjoying this new found leisure — with pay.

Born on a farm in Finland in 1893, Andy came to the United States in 1913. He worked in the copper and iron mines until 1927, then went home to Finland intending to resume farming, but soon found himself pining for America. The year 1928 saw him back, this time in Canada. The first year he spent in the bush camps around Port Arthur, after which he headed for Sudbury and a job at the great Frood mine.

Working underground until about five years ago, Andy came to surface at his doctor's suggestion and joined the yard crew. While underground he had helped deepen No. 4 shaft, mined stopes and pillars on several levels and was, for a number of years, one of the better level timbermen.

Andy's first wife, whom he married at Ironwood, Michigan in 1922, died in 1926. He remarried in 1933. His son Tauna is at Little Long Lac and his wife's son Toivo operates a steam bath in the basement of Andy's Antwerp street home. Andy admits that he really has it good with a "sauna" for a neighbour.

DRIVE CAREFULLY

You can see the world in an automobile — the way you drive decides which world.

Bill Lepisto Was Miner 48 Years

One year after he landed in the Sudbury district in 1911 Bill Lepisto was working on the 4th level at Creighton no. 4 shaft. Two weeks before he retired on early service pension last September Bill's work again took him to 4th level of Creighton's no. 4 shaft, now part of the mine ventilation system. He had come the full circle.

"I was a miner for 48 years," Bill said, "and I figure it is a pretty good life."

Bill's introduction to mining was a tragic one. The day he arrived from Finland to join his parents in Michigan his father

was killed in a mine accident. That was in 1909.

Despite this blow Bill went to work at the mines and for the next two years was on a shaft sinking operation which, he recalls, paid him \$35 a month for running the tugger hoist.

Having heard of the Sudbury mines Bill came to Garson in 1911, moving to Creighton the following year. Eventually he worked in almost every mine in the district, with his longest stay a three-year stint at Murray. In 1923 he returned to the Worthington and remained there until the cave-in of 1927. Then along with the rest of the crew he was sent by Mond to Garson, but again moved to Creighton the following year and decided it was time to stop his happy wanderings and settle down.

Marrying Ina Rauhanen in Garson in 1915 helped to strengthen this decision and Bill agrees it was probably the best thing that ever happened to him. They have two children; their daughter Vieno is Mrs. Wiita of Long Lake, and their son Arni who is with the department of transport in Saskatchewan. They have three grandchildren, all in Saskatchewan.



Bill and Mrs. Lepisto

Bill lived in Creighton until last spring, and then purchased a nice home on a large lot at Long Lake. This winter he is taking up skiing again. "Store" ski poles he found too short so he fashioned serviceable shoulder-high maple poles for both himself and his wife, who has agreed to accompany him if he keeps to the lake and stays away from the hills.

Relaxing, reading, watching television, teaching their pet budgie bird to talk, and enjoying each other's company are among this fine couple's favorite pastimes. And of course to make everything just about perfect the basement of the Lepisto home is equipped with the celebrated Finnish gift to complete living, the "sauna". Their steam bath is a source of much pleasure to themselves and their friends who frequently drop by for a visit.

IMMORTALITY

Nothing that was worthy in the past departs; no truth or goodness realized by man ever dies or can die but is all there and, recognized or not, lives and works through endless changes.

—Thomas Carlyle

Company's Good Wishes Conveyed to Hospital Patients on Christmas



Following a pleasant custom of many years' standing, patients in the Copper Cliff Hospital were visited on Christmas morning by the vice-president in charge of Inco's Canadian operations, Ralph D. Parker, who joined the staff on their morning rounds and conveyed greetings and good wishes from the Company. Picture shows, left to right, Dr. J. Jones, Nurse Marie Phillipens, Nurse Norma Hashey, Nurse Barbara Smith, Miss Allegra Walker, superintendent of nurses, Dr. J. Sturtridge, Steve Tertysnikoff, a pensioner patient, Nurse Olga Yakichuk, Ralph D. Parker, Dr. H. F. Mowat, chief surgeon.

14 Named in Announcements Made at Year-End of Inco Changes



Ralph D. Parker



Ralph H. Waddington



James C. Parlee



Paul E. Queneau



Richard A. Cabell



Frederic Benard

R. H. Waddington General Manager Ontario Division

Ralph D. Parker, vice-president in charge of Canadian operations of The International Nickel Company of Canada, Limited, will move his headquarters from Copper Cliff, Ontario, to the Company's offices in Toronto early in the year, Henry S. Wingate, president of the Company, announced on December 26.

The Toronto offices have recently been expanded and moved to larger quarters at 55 Yonge Street. Mr. Parker will continue to direct Inco's Canadian operations from these offices.

Simultaneously, Mr. Wingate announced that Ralph H. Waddington, James C. Parlee, Richard A. Cabell and Paul Queneau have been elected assistant vice-presidents of The International Nickel Company of Canada, Limited, effective January 1, 1958.

Mr. Waddington has also been appointed general manager of the parent company Ontario division and Mr. Parlee general manager of the Manitoba division. Messrs. Cabell and Queneau have been elected also as vice-presidents of The International Nickel Company, Inc., the United States subsidiary of the Company.

The following appointments in the Ontario division of the Company were announced by Mr. Parker on December 30:

Frederic Benard, assistant to the vice-president, will assume the additional position of assistant general manager of Ontario division.

Alex Godfrey and G. Alan Harcourt, assistants to the vice-president, will assume the additional positions of assistants to the general manager of Ontario division.

T. M. Gaetz, superintendent of mines, has been promoted to manager of mines, succeeding H. J. Mutz, whose appointment as assistant to the general manager of Ontario division was made recently.

Robert R. Saddington, acting manager of reduction plants, has been promoted to manager of reduction plants.

John A. Pigott, assistant superintendent of mines, has been promoted to superintendent of mines.

Clifford H. Stewart, assistant superintendent of mines, has been promoted to assistant to the manager of mines.



Alex. Godfrey



G. Alan Harcourt



Herman J. Mutz



T. M. Gaetz



Robert R. Saddington



John A. Pigott



Clifford H. Stewart



Harry W. Peterson

Harry W. Peterson, formerly assistant superintendent, Murray Mine, has been promoted to assistant superintendent of mines.

Ralph H. Waddington

Mr. Waddington has been assistant to the vice-president of Inco at Copper Cliff since November, 1952. He joined International Nickel in 1923 at its Port Colborne works as a chemist, becoming assistant superintendent of the electrolytic nickel refining department in December, 1926. In 1935 he was transferred to Copper Cliff as assistant superintendent of the copper refining division, of which he became superintendent in January, 1939. Seven years later he was made general superintendent of refineries, and in 1952 was appointed assistant to the vice-president. Mr. Waddington was born in Leicester, England, and came with his family to Lethbridge, Alberta, in 1907. He is a graduate of Queens University, with the degree of bachelor of science in metallurgical engineering.

James C. Parlee

Mr. Parlee, manager of Inco's Manitoba division since its establishment in January, 1957, is a

native of Edmonton, Alberta. He graduated from the University of Alberta with a B.Sc. degree in mining and metallurgy in 1933, and joined International Nickel that year. After broad experience in the company's mines and reduction plants at Copper Cliff, Ontario, he became mill superintendent in January, 1944. Four years later he was appointed assistant general superintendent of the mining and smelting division, and in January, 1954, was made manager of reduction plants. He became manager of the Company's new Manitoba division in January, 1957.

Richard A. Cabell

Mr. Cabell has been assistant vice-president of The International Nickel Company, Inc., since May, 1952 and assistant to the vice-president of The International Nickel Company of Canada, Limited, since May, 1954. He became associated with the Company in 1944 as assistant secretary, and since then has until recently been in charge of Inco's labor relations in the United States. Mr. Cabell graduated from the University of Virginia in 1935 with a B.A. degree. He attended the University of Virginia Graduate School from

1935 to 1936, and the University of Virginia Law School, receiving a LL.B. degree in 1939. He was an attorney with Sullivan & Cromwell, the Company's general counsel, from 1939 until he joined Inco.

Paul Queneau

Mr. Queneau has served as assistant vice-president of The International Nickel Company, Inc., and assistant to the vice-president of The International Nickel Company of Canada, Limited since May, 1954. He joined Inco in 1934 as a member of the technical staff of the Company's Huntington works in West Virginia. Three years later he was transferred to Copper Cliff, Ontario, as research engineer, and in 1941 was appointed superintendent of research. In July, 1948, he was appointed metallurgical engineer, making his headquarters in New York. A native of Philadelphia, Pennsylvania, Mr. Queneau is a graduate of the Columbia University School of Engineering, where he received B.A., B.Sc. and E.M. degrees. He studied at Cambridge University, England, as an Evans Fellow. In World War II he entered active duty from the Army Reserve as a second lieutenant in the Engineers, served with distinction overseas in five cam-

paings and returned to the reserve a lieutenant colonel.

Frederic Benard

A native of Point Pleasant, New Jersey, Frederic Benard was formerly on the staff of the United States Metals Refining Company at Carteret, New Jersey. He came to Copper Cliff in 1929 to the Ontario Refining Company, which became the copper refining division of International Nickel in 1935. He was manager from 1930 to 1939, when he was transferred to the mining and smelting division as assistant to the general superintendent. In 1947 he was appointed manager of industrial relations, and on May 1, 1955, assistant to the vice-president. He received the Inco platinum medal of the Canadian Institute of Mining and Metallurgy in 1940 for distinguished service to the Canadian mining industry.

Alex Godfrey

Alex Godfrey was born in Edinburgh, Scotland, and came to Port Colborne, Ontario, with his family in 1913. He joined International Nickel there in 1920 as an office boy. Transferred to Copper Cliff in 1928 as a clerk in the accounting department, he became assistant works auditor on February 1, 1935, and works auditor on December 16, 1951. He was elected assistant to the vice-president on October 1, 1953.

G. Alan Harcourt

G. Alan Harcourt, a native of Regina, had spent 12 summers in a variety of vacation employment including survey parties, prospecting, and coal mining before becoming a member of Inco's research department at Copper Cliff in 1937. He was made assistant superintendent of research on December 1, 1945, assistant to the general superintendent in 1947, and assistant superintendent of smelters in 1948. On May 1, 1955 he was elected assistant to the vice-president. A graduate in mining geology of the University of Alberta, he received his master's degree in economic geology from Queen's University and his doctorate from Harvard.

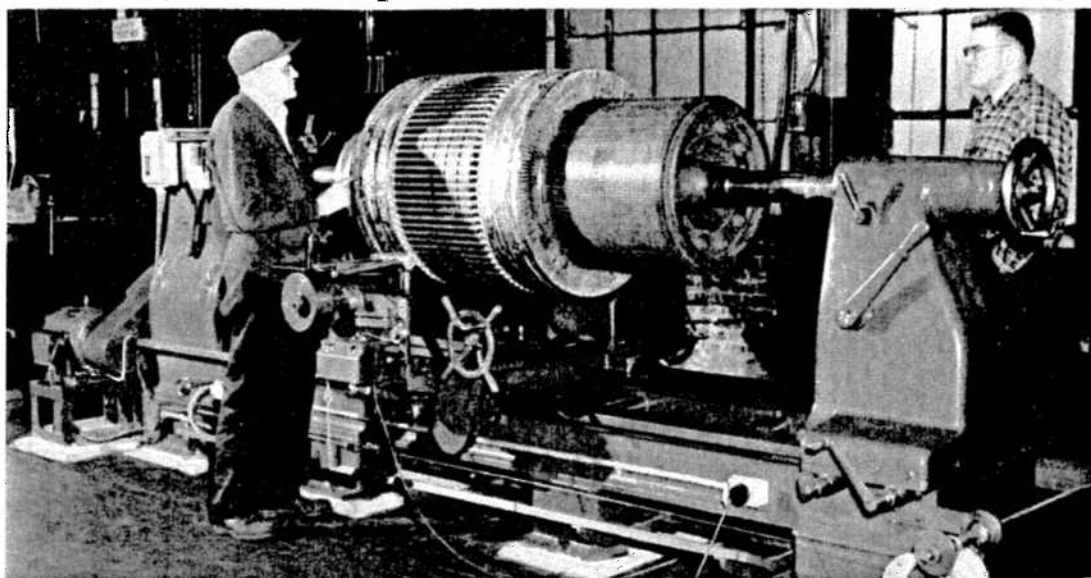
Herman J. Mutz

Herman J. Mutz, who was assistant superintendent of mines for the United Verde Copper Company at Jerome, Arizona, came to International Nickel on August 1, 1929, on loan as consulting engineer on the installation of the fill system of mining at the Froid Mine. He remained to become superintendent of Froid, was appointed general superintendent of mines in 1935, manager of mines on January 1, 1954, and in his most recent appointment, assistant to the general manager of Ontario division. He was born in New Mexico and earned his mining degrees at Missouri School of Mines and Columbia University.

T. M. Gaetz

Born at Red Deer, Alberta, T. M. Gaetz graduated in mining from Queen's University in 1930. He had worked as a miner, surveyor and prospector for McIntyre-Porcupine Gold Mines during summer vacations. Starting with Inco in 1930 as an efficiency engineer at Creighton mine, he became underground foreman at Froid in 1934, underground superintendent at Creighton in 1936, and operating engineer at Froid in 1938. He re-

Banding Lathe Important Addition to Electrical Shop



Bill Beckett, 1st class winder, and helper, Joe White, apprentice, complete a banding job on the new lathe.

turned to Creighton as assistant superintendent in 1940, and was made superintendent in 1941. On October 1, 1946, he was appointed assistant superintendent of mines at Copper Cliff, and on January 1, 1954, superintendent of mines.

Robert R. Saddington

A native of Winnipeg, Robert R. Saddington attended the University of Manitoba for two years before transferring to Queen's University where he graduated in metallurgical engineering in 1937. That year he joined Inco at Copper Cliff as a smelter worker, then becoming a test engineer. He was made assistant to the smelter superintendent in 1941, assistant smelter superintendent in 1946, and assistant superintendent of smelters in 1948. In October, 1954, he became superintendent of Copper Cliff smelter, and in January, 1955, superintendent of smelters. He was appointed assistant manager of reduction plants on July 1, 1956 and acting manager on January 1, 1957.

Clifford H. Stewart

Clifford H. Stewart had worked for the United Verde Copper Company at Jerome, Arizona, for four years before coming to International Nickel in August, 1929, as underground superintendent at Froid mine. He became assistant superintendent at Froid in October, 1936, superintendent of Levack mine in 1939, and superintendent of Creighton mine in 1940. In 1943 he was appointed superintendent of Froid-Stobie open pit, and superintendent of Froid-Stobie mine in 1950, and his appointment as assistant superintendent of mines was announced on January 1, 1957. He was born in Las Vegas, New Mexico, and attended the Colorado School of Mines.

John A. Pigott

John A. Pigott, who was born at Meaford, Ontario, is a second generation Inco man. His father, H. P. Pigott, worked for Mond Nickel Company and International Nickel for more than 35 years and is now a Company pensioner. John Pigott commenced his Inco career



Rewinding a compressor motor for Thompson, Manitoba, are from the left, Bill Fex, Curly Tomassini, Howie Thompson and Herk Flynn.

A recent important addition that will help the electrical shop at Copper Cliff maintain its reputation for speedy, high class workmanship on major repair jobs is the banding lathe shown above.

It is used for applying bands that hold the coils in place on armatures. It also has attachments for turning and undercutting commutators, the current-collecting part of armatures, and also can be adapted for general lathe work and grinding. In other words it will have few idle moments.

The armature that was being banded when the picture was made is part of a rotary converter for supplying dc power to the standard gauge electric locomotives at Copper Cliff through the pantograph system. This particular armature is the largest that can be accommodated in the machine.

In operation of the lathe for banding, wire from the spool at

lower right passes through a tensioning device and is guided on to the armature. Warning lights indicate when the tension is too slack or too tight.

The new machine reduces the time necessary for banding an armature, and also increases the quality of the work. A lathe in the machine shop that was used for this purpose is now released for other work.

In the other photograph of unusual electrical shop activity a 650-hp compressor motor is being readied for use at the big new Inco nickel project at Thompson, Manitoba, under the expert direction of the winding shop foreman, Arvi Ristimäki. The original voltage of the big motor was 550 60 cycle, but it has been rewound for 4160 and 2300 as well as 550, 60 cycle. An extensive rebuilding project of this sort is taken in stride by the Inco electrical workers.

as a vacation employee in 1932 while attending Sudbury High School. He joined the Company on graduation from Queen's University in 1940. He became underground superintendent at Creighton mine in 1955, assistant superintendent at Froid in December, 1956, and assistant superintendent of mines in September, 1957.

Harry W. Peterson

Born at Grenfell, Saskatchewan,

Harry W. Peterson first worked for International Nickel in 1941 while on vacation from university. On graduating in 1944 from the University of Toronto in mining engineering he started work as a miner at the Murray mine. He became general foreman at Froid in 1951, assistant superintendent at Murray in 1954, and superintendent of the Froid-Stobie open pit in 1957.



Levack



Copper Refinery



Frood-Stobie



Lively

Santa Said a Hearty Hello to Thousands of His Inco Friends

More than 16,500 Inco children in the Sudbury district were treated to a welcome pre-Christmas visit by Santa last month as the result of some high class planning and large scale effort on the part of the athletic associations at Inco mines and plants.

A total of 10 separate groups held Christmas tree parties. These ranged from the huge Frood-Stobie affair down to the little group of starry-eyed youngsters who took in the Lawson Quarry doings at the Willisville schoolhouse.

Entertainment, gifts, excitement and a greeting from cheery old Santa himself was provided at each party, and when the results were all tallied, most everyone

agreed this had been one of the better years.

Following their custom of the past 20 years Frood-Stobie again held their party at the Sudbury Inco Employees Club. Toys, fruit and candy found their way into the hands of some 4,700 youngsters, including those whose fathers work at the Open Pit.

Murray mine and the Copper Refinery also held their parties at the Sudbury club. Bundling the gifts by families, a new wrinkle Murray tried this year, greatly facilitated distribution and will be a regular feature in future. Hot dogs and pop were served to approximately 900 youngsters at this

(Continued on Page 12)



Part of the crowd at the Creighton party.



Wide-eyed with wonder is this Frood-Stobie lad.



In the high school at Lively Santa greeted a stea



Garson



Coniston



Levack



Copper Cliff



Santa chats with Copper Refinery kiddies.



The big Murray mine entertainment was held at the Inco Club.



Santa arrives at Garson.



At the Copper Cliff party.



ream of friends, young and old.



A group of happy faces at the Willisville school.



Now a veteran muffin-tester, Frank Kirkness samples the batter his wife is mixing of the recipe that won his wife Diane a new kitchen range, \$200 in cash, and a four-day all-expense trip to Toronto in Canada Packers' Bakefest contest.

Levack's Diane Kirkness Wins Cross-Canada Baking Award

"Your recipe has been chosen a winner in our cross-Canada Bakefest contest, Mrs. Kirkness. Could you be our guest in Toronto from January 12 to 15 and participate in our bakeoff there for the big cash prizes," said a pleasant voice on the phone one morning shortly before Christmas.

While the voice had earlier identified itself as a Mr. Curtiss of Canada Packers, when he finished speaking Mrs. Kirkness wasn't sure who he was. "I just about fell over," she says.

And so like the fairy godmother waving her magic wand, that phone call spirited away this unassuming young Levack housewife on a four-day Cinderella-like trip to Toronto.

It all started, Mrs. Frank Kirkness said, back in October when she entered her original recipe for Surprise Caramel Muffins in Canada Packers annual Bakefest contest. Realizing there would be entries from all across Canada she never dreamed of winning, and admitted she had long since forgotten about it when the phone call came. Of 200 prize recipes, chosen from some 80,000 submitted, the senders of top 10 were invited to compete in a Bakeoff contest in Toronto with prizes of \$2,500, \$1,500 and \$1,000, plus various valuable appliances, awaiting the three winners. Mrs. Kirkness was one of the top 10, each of whom was awarded a \$200 prize and a handsome new kitchen range. While not clicking on any of the big cash prizes Levack's "cook of

the year" has no regrets. She had a fabulous time.

Local branch manager of Canada Packers, Jack Thornley, escorted Diane Kirkness to the Sudbury airport Sunday night. Her first plane ride "was wonderful and I wasn't scared one bit". From Malton airport at Toronto to the Park Plaza where the contestants spent four luxurious days. Breakfast in bed ("I just loved it"), fancy luncheons, dinner parties, theatre parties, shopping tours all combined to make this an unforgettable experience.

With the bakeoff scheduled for Tuesday, contestants were given an opportunity on Monday to test their recipe under competition conditions. Both trials and contest were held at the Moffat factory in Weston which the group toured on Monday morning, and where model kitchens are available. "Those kitchens had everything," Mr. Kirkness said, "and it was really fun being there. Everybody was so helpful, they knew we were green and nervous so they did everything possible to make us feel at home."

Came the big day, Tuesday, bakeoff day! Ten women displaying varying degrees of nervous tension, enjoyed or at least participated in a quiet luncheon at Moffat's. Then shortly after 12.30 noon, they donned aprons, entered their kitchen cubicles, and with a silent prayer went to work.

Soon came the familiar sounds of flour sifters shaking, electric mixers whirring, pans clattering,



That batch of muffins Frank tested didn't last long after leaving the oven. When neighbors Mrs. Doug Lanktree and Mrs. Joe Piaskoski dropped in to congratulate Mrs. Kirkness, on went the coffee pot and down went muffins.

bowls ringing, and oven doors opening and closing, a symphony of fine kitchen chords that swelled and filled the air and then gradually ceased as the contestants one by one entrusted their culinary masterpieces to oven, refrigerator or deep fryer.

For most of the cooks the next half hour or so was a tense, finger-biting vigil while the elements, hot or cold, did their share. Finally, at exactly the right moment, the bake offerings were reverently taken out carefully arranged on plates, and sent in to the judges, who were in a separate room and do not know who made what.

As the last pie departed the kitchen huge sighs of relief were heard and ten happy housewives excitedly exchanged experiences and compared notes. Then it was back to the hotel for a short rest before the formal dinner and presentation of prizes that evening.

"We were all nervous and jittery that day," Mrs. Kirkness explained.



Muffin queen Diane Kirkness has always liked baking and cooking, but never dishwashing.

ed, "and I know my muffins didn't turn out quite as good as they really should. Nothing really happened but I just couldn't think straight. I wouldn't have won anyway," she added, "and most of the others were as mixed up as I was."

Much impressed with the manner in which the whole affair was handled she said "Everything was run very fairly and the people just couldn't do enough to help us." The judges, nationally known food experts, were most helpful, she said in discussing their decisions and baking problems.

The 10 entries were two pies, two cakes, bread, frozen dessert, doughnuts, fritters, muffins and cookies. First prize went to the cookies, second for a pie and third to the only unmarried contestant in the group for her frozen dessert.

Mrs. Kirkness explained that in judging certain standards of colour, texture, taste and appearance are the basis on which the recipes are rated. How it is made has no bearing on the judging.

On Wednesday the contestants visited the Canada Packers plant and had luncheon there. A chartered flight over Niagara Falls was cancelled on account of bad weather. In the evening dinner and a theatre party were laid on; the afternoon was left free for shopping. On Thursday Mrs. Kirkness flew home to a champion's welcome from her family and friends.

Born and raised in a family of 11 at Sturgeon Falls she has long enjoyed cooking and baking, but never dishwashing. She met Frank at Levack in 1950 and they were married the following year. They have one son Robert, aged 6. Frank, a drift driller at Levack, hails from Selkirk, Manitoba and started with Inco in 1948.

Frank admits he's glad it's all over. For a time following that first phone call he was faced with a fresh batch of muffins almost daily as his wife tested her recipe. But she reminds him, "Look what we got from just one 5 cent post-

(Continued on Page 15)



This photograph illustrates the mobility of the Hydro changeover. In the big van is a 100 kw. frequency changer which temporarily supplies 60-cycle power to an area while workmen switch the lines from 25 to 60 cycle.

Hydro Readies Communities For Changeover to 60 Cycle

As a result of arrangements completed by Ontario Hydro and a number of northern Ontario municipalities and mining companies at present using 25-cycle power, plans are now being implemented to standardize at 60 cycles the power supply of approximately 18,800 domestic and commercial customers.

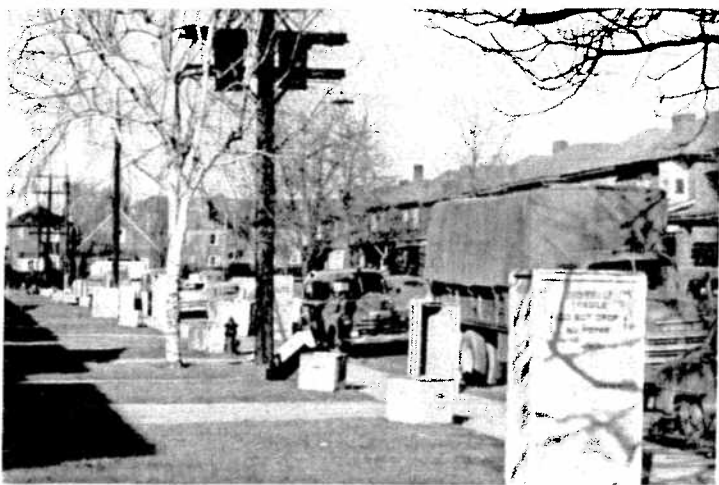
The area involved includes Copper Cliff, Creighton, Levack, Murray Mine, Frood Mine, High Falls, Timmins, a small section of Kirkland Lake, Schumacher, South Porcupine, Matheson, Swastika, King Kirkland, Kearns Townsite, Elk Lake, Matachewan, Gowganda, Gogama and Kirkland Lake, Matheson and Kapuskasing Rural Operating Areas.

Availability of 60-cycle power in the northern Ontario areas will mean, among other things, that the customers affected will not be faced with the possible inconvenience caused by a diminishing supply of 25-cycle electrical appliances and equipment. Such a possibility is pointed up by the fact that On-

tario Hydro's program to standardize frequency at 60 cycles has been progressing steadily for more than seven-and-a-half years in a large area of the Commission's southern Ontario system. As this program continues towards its scheduled conclusion in the summer of 1959, the market for 25-cycle appliances and equipment will steadily decrease.

The inventory carried out in the northern Ontario 25-cycle areas, involved listing the make, model and other details of every appliance that will have to be converted, with the exception of clocks and fans, which are handled under a special arrangement.

From the details of equipment provided by customers, and checked during calls by Hydro inventory personnel, the necessary 60-cycle replacement parts are ordered and obtained. Commencing February 10 actual changeover will take place in the Copper Cliff area, where the varied "cutover day" operations will cause them very little inconvenience.



Here's an actual scene on changeover day. New 60-cycle equipment to replace 25-cycle appliances has been delivered to the homes on the street, awaiting installation by the men from the Hydro.

The routine proceeds in this fashion:

Shortly after 8 a.m. technicians call at the homes and business premises scheduled for conversion that day and make sure that every frequency-sensitive appliance is disconnected, placing on such appliances a red warning tag that they must not be used until converted for 60-cycle operation. The 25-cycle power is cut off and in a short time—usually within minutes—60-cycle frequency is switched on for the first time. This permits immediate use to be made of non-frequency-sensitive items, such as incandescent lights, stoves without timing devices, irons, toasters and kettles. Technicians then get to work on washing machines, hobby equipment, refrigerators, fluorescent lights and other appliances and equipment requiring changeover.

Such equipment is converted right in the home and, generally speaking, all frequency-sensitive appliances are ready for use by 5 p.m. on "cutover day." Assuming that the man of the house left home before 8 a.m. and did not return until after 5 p.m., he would hardly be aware that conversion had taken place, unless he noticed that lights had ceased to flicker.

Inevitably, some appliances will need adjustment after changeover, and arrangements will be made to provide prompt service. A telephone call will bring a Hydro technician to do whatever may be necessary.

Clocks and fans are not changed over in the home, as customers take these items to special depots, which will be located in Copper Cliff and elsewhere during changeover time. At these depots, a wide variety of 60-cycle clocks and fans is on display for customers' inspection. Some of these 60-cycle clocks and fans may be obtained on a straight exchange, no-charge basis for 25-cycle models. More expensive models may be secured by paying a small price differential. Customers have a third choice: if they prefer to retain their present clocks and fans, these will be converted for 60-cycle operation if the necessary replacement parts are obtainable.

To the task in the north, Ontario Hydro will be able to bring the extensive experience gained in southern Ontario. An indication of the immensity of the operations completed in the south to the end of April, 1957, is provided by statistics showing that over 5,400,000 appliances had been standardized for some 825,000 customers. With the exception of Toronto, it is anticipated that all 25-cycle areas in southern Ontario will have been converted by early 1958, and that, as already pointed out, the entire program is expected to be completed by the summer of 1959.

As the work of standardization moves into its final phase, Ontario Hydro's facilities for generating power at 25 cycles must be converted to meet the additional 60-cycle demand. In 1956, two units at the Sir Adam Beck-Niagara Generating Station No. 1 were changed to the higher frequency, and plans were made to standardize the equipment of Quebec utilities supplying Ontario Hydro with power under long-term contract.

The original physical area of the southern Ontario 25-cycle system extended over some 12,000 square miles, while that in northern Ontario embraces approximately 1,400 square miles. In the north, however, the consumers are far more widely scattered with the result that the rate of progress will not be as rapid as it has been in the more densely populated south.

However, as already stated, before the summer of 1958 is over, the standardization program in northern Ontario will have been completed and customers in the areas involved will be enjoying the benefits of 60-cycle frequency.

Worked 35 Years in Coniston Sinter Plant

When Coniston's Rene Lemieux starts on a job he believes in sticking to it. In 1921 he started working for the Mond Nickel Company at Coniston in the sinter plant, and was still employed there when a heart condition sidelined him on disability pension this year. For 22 years he was a foreman.

Born on a farm near Ottawa in 1893 Rene moved with his family to a farm at St. Charles around the turn of the century. From an early age he spent his winters in the bush and summers on the farm. His first venture in other work was in 1921 when he hired at Coniston and since he found things there very much to his liking he could see no point in seeking elsewhere. His only time away from Coniston was in 1933 when the plant was down and he worked at Copper Cliff.



Relaxing is now a full-time job with Rene, and he takes to it kindly.

In his 35 years at the sinter plant Rene says they had their ups and down, especially when the feed belts went on a breaking spree. He proudly added however that they always managed to keep the charge floor supplied.

Rose Gosselin, whom Rene married in 1920, died in 1952. He has two sons, Aurele with the R.C.A.F. at Ottawa, and Armand of the carpenter shop at Coniston, who is famous as a hockey player. Five grandchildren help things from getting dull for him.

Advised by his doctor to take things easy, Rene is doing just that. He plans on spending some time with his brother, who still has a farm at St. Charles. While he will be missed at the plant, everyone wishes him the best in square miles, while that in north-

Speed Construction of Manitoba Hydro Plant to Supply New Inco Operations



Construction work on the Manitoba Hydro's Nelson River power project by the team of McNamara-Brown & Root 400 air miles north of Winnipeg and 14 miles in from the Hudson Bay Railway is progressing steadily as the pictures above indicate. Shown at left is the camp site where the 300 men presently working on the various construction phases for the Kelsey Generating Station live, and the various shops, warehouses, etc., are located. The Nelson River can be seen both in the foreground and background. At right is pictured the bridge which the

crews have just completed to give better access from the camp on the south side of the river to the powerhouse and tailrace cofferdam work on the north side. Earth and rock excavation work is now going forward on the sluiceway while earth excavation is being carried out on the powerhouse site, and the men are also putting in the tailrace cofferdam. This is the plant that will supply power to Inco's great new operations at Thompson and Moak Lake. It is 50 miles west of Thompson. (Photos courtesy McNamara News).

Santa Said

(Continued from Page 8)

affair, while the adults enjoyed coffee and cake as they did at most parties. The Copper Refinery followed their own very personalized system of calling each child up by name. Close to 900 kiddies answered the call to meet Santa and receive a gift.

Copper Cliff's athletic association held another of their successful theatre parties with some 4,000 youngsters in attendance. These included the Iron Ore Plant and Creighton kiddies living in Sudbury, the latter group by arrangement with the Creighton mine athletic association. Four Sudbury theatres were reserved for this Saturday morning carnival of cartoons, to which bus transportation was provided from all parts of the city. Candies and fruit were distributed at the end of the show.

Coniston this year switched from a theatre party to a gift-giving at the community hall. About 650 children kept Santa busy during the scheduled afternoon and evening hours.

Parties were also held at Creighton, Garson and Levack. At the former the usual theatre party was held, this year at the Creighton employees club, which was filled to capacity. In addition to movies, fruit and candy were also on the menu. Garson provided a happy half hour of entertainment prior to Santa's arrival in the afternoon while at Levack the entertainment was enjoyed at the evening session. Gifts, fruit, and candy were distributed to 1,500 at Garson and 1,600 kiddies at Levack.

Lively's athletic association held

their party in the high school auditorium after Santa made an impressive arrival aboard the fire engine. Toys, candy and fruit were issued to approximately 1,200 kiddies. Committee members said that distribution indoors was a big improvement over the outdoors style, even if not so suggestive of the rugged north.

Up at picturesque Lawson Quarry

the school children presented a concert in the Willisville schoolhouse and the school board provided a Christmas tree party complete with Santa and gifts. About 75 children were present plus a goodly number of adults.

Fancy gift wrapping was noted at several parties this year adding yet another touch to the gaiety, fun and excitement of Christmas.

To all those unnamed workers who helped Santa bring smiles to so many young faces at Christmas time a special vote of thanks is due, although they have already had their reward in that wonderful inner glow which comes from doing something for others.

50 Years Married



A handsome couple who recently celebrated their golden wedding anniversary are Mr. and Mrs. Joe Denomme of Copper Cliff. They were married at Hull on December 9, 1907, and have a family of 10. An Inco pensioner, Mr. Denomme had over 26 years' credited service at the Copper Cliff works. He is 78 and his wife is 70.

Christmas Safety Display Much Admired



Safety engineer Tom Parris says many favorable comments were made to him about the illuminated Christmas display that stood just inside the main gate at Frood-Stobie No. 3 shaft. The slogan, "Let's put Safety in Santa's bag," caught on well with the men.

A man can cash in good resolutions if he keeps them long enough to earn dividends.



Still showing top form in his delivery as well as on the score sheet, Pat Storie gets one away in the Froid-Stobie bowling league at Sudbury's Inco Club. Waiting for the pin boy to set 'em up on the next alley is another redoubtable Froid bowler, Spike Boal. Both men have belonged to this league for over 20 years. Watching the action are Eddie Fortier, Gord Willis, John Kennedy, Clarence Swift, Johnny Killah, Zinny Wowk, and Albert Stone.



Another of Froid's 20-year bowlers, Lew Midgley, is at the scoreboard in this shot taken during regular league action. Other Froid-Stobie keggers shown are Maurice Martin, Wally Cresswell, Eddie Belfry, Keith Harris, Herb Radey, Johnny Kruk, and league secretary Albert Stone. The Froid-Stobie league reigns over the alleys at the Inco Club Tuesday and Friday evenings and Sunday afternoons.

Froid-Stobie League Will Have Its Own Quarter Century Club

The day is not too far off when the Froid-Stobie bowling league, lustiest of all Inco bowling groups, will form a bowlers' quarter century club. Now enjoying its 21st consecutive year at the Inco employees club in Sudbury, the league was organized in 1937. That year games were played at a local bowling alley. Then with the opening of the Inco club in March of 1938 the Froid-Stobie boys (it was just plain Froid then) took squatters' rights on the club's six alleys and have been by far its best customers ever since. Every Tuesday and Friday night and on Sunday afternoon the Froid boys reign over the alleys.

Prominent among the more ardent Froid keggers of 20 years ago are 11 maple splitters who are

still among the loop's top bowlers. The list includes such familiar names as Marlow Allen, Spike Boal, George Deschene, Erle Dunn, Bob Faulkner, Jim Kilby, Lew Midgley, Ed. Moore, Gord Quinn, Pat Storie and Albert Stone. Some of these men were members of the original league back in 1937. Records kept by that demon statistician Albert Stone (league secretary since 1939) show that in the 1938 season at the Inco club there were 26 teams in action in the Froid league while the latest schedule, for the last half of this season, has 22 teams. Between those years entries have varied from 20 to 34 teams, indicating consistently high interest. Unlike many other sports which suffer from "cycles", the Froid-Stobie

bowling league, like Old Man River, just keeps rollin' along.

Most of the oldtimers agree that competition is really no keener now than it was 20 years ago but in most cases individual averages are higher. In the first half of the season just completed the high average was scored by Tommy Kane who chalked up an impressive 247 in 41 games. Complete records for 1938 are not available but in 1939 the high average was 228 rolled by George Lepage.

In 1938 all 26 teams played in the same group. Today there are three sections, A, B and C, with a player's previous season average deciding which group he joins. This group system was introduced about 15 years ago, and Mr. Stone says they find this a more satisfactory equalizer than individual handicapping.

The first league schedule at Inco club called for 24 games. Over the years both longer and shorter schedules have been tested, but the 24-game setup has proved most satisfactory and that's what it is now.

The statistically inclined might be interested in noting that in Froid league competition the 11 20-year bowlers have thrown strikes, spares and splits for something in the neighbourhood of 2,500 games, or 25,000 frames each! In addition, of course, have been between-season tournaments, inter-plant leagues, outside leagues and practise bowling. Some bowlers are active in two, three and even more leagues that keep them busy four or five nights a week.

Secretary Stone reports that to date no one has managed to roll a perfect 450 game in league play, although several of the boys have broken the 400 barrier.

While the core of the league is comprised of veteran bowlers, each season brings out a goodly number of newcomers, some of them accomplished bowlers, many novices.

All are made welcome and assigned to a suitable group.

A committee consisting of secretary Stone, league chairman Eldred Dickie, and a representative from each group is empowered to deal with complaints, protests or gripes but Albert says this committee happily has less to do than any other he has served on. In the rare event of a team defaulting the committee meets to decide its fate but otherwise no formal complaint has been received in years.

While known officially as the Froid-Stobie bowling league, it also takes in the boys from the Open Pit and Murray Mine as well as Garson Mine men living in Sudbury. A cracking good league is this, with good bowling, keen competition and good fun, plus a wind-up banquet at the end of the season that has been a standout for years.

DEFENCE STATISTICS

Does your wife insist that other men are more helpful about the house than you are?

If she does, invite her to contemplate the facts and figures uncovered by University of Michigan researchers in a survey of 450 middle-class Detroit homes.

The investigation disclosed that six out of 10 married men — a clear majority — neither helped with the dishes nor got their own breakfasts even occasionally.

Only 15 per cent were found to lend a hand with the house-cleaning. Mother was also primarily responsible, according to the survey, for such tasks as awakening the children, buying the groceries, cooking and writing the family correspondence.

WELLSPRING

Georgie Starbuck Galbraith

Not that I am strong,
But that you think me so;
From need to justify your faith
May strength and courage flow.



This group of veteran trundlers, all active in the Froid-Stobie league this season, were members of that league back in 1938 when its first games were played at the brand new Inco Club. The league had been organized the previous year. Back row left to right are, Lew Midgley, Erle Dunn, Marlow Allen, Jim Kilby and Ed Moore; front row, Gord Quinn, Pat Storie, Spike Boal, Bob Faulkner and Albert Stone. Another Froid 20-year bowler who was out of town when this picture was taken is George Deschene.



Young Bob Sabourin came out of his nets to smother this scoring threat by Garson's dangerous Bob Mentis. The rebounding puck can be seen just back of defenceman Larry Laberge's right foot. On the right Blake Davis blocks Ray Mentis, and in the background Bill Kyryluk is untangling himself from John Komar. This was a fast wide-open attacking play, typical of the action that makes Levack-Garson games in the Inter-Mines and Plants league real drawing cards.

Levack and Garson Continue Their Non-Stop Inter-Mines Hockey Feud

Enjoying its third successful season the Inter-Mines and Plants hockey league is dishing up some of the most exciting hockey action in the district.

Highlight of the league again this year is that non-stop feud between the two top teams, Garson Combines and Levack Huskies. Last season these same two clubs literally battled through the regular schedule and a scorching seven-game playoff series before Levack finally came out a winner. This season is shaping up as another ding dong affair with tension and interest at high pitch.

Coach Tom Armstrong's Garson boys are trailing Levack by a few points at this writing but come schedule end, they vow, the Huskies will be panting behind them. The Combines' top line of Ray and Bob Mentis and Bill Kyryluk are a real hot scoring threat and together with the line sparked by classy left winger Don Cull, are a goalie's nightmare. Ray Parker and Andy Paquette complete the line with Cull. The third line of Kelly Campbell, that old reliable Oscar Cole, and Stan Smith, perform yeoman service both offensively and defensively.

On defence Garson goalie Ed Bailey is well bulwarked by such bone-jolters as Bill Mills, Phil Bonhomme, Calvin Price, Pentti Hiironen and Myrie MacMillan. This gang present an amazing selection of hip and shoulder angles to opposing forwards. Another valuable player, Morris Kyryluk, has been out of the lineup since December with a shoulder separation.

Don McKiegin is the Garson manager and Walter Benn is the trainer.

Levack Huskies appear determined to make it three straight for the F. J. Eager trophy, the Stanley Cup of Inter-Mine hockey.

Some seasoned observers figure it is Levack all the way, an opinion shared by several hundred Levack

fans. The Huskies do have the advantage of being a young team, with an average age of about 23 years, according to Coach Harry Knight. A good example of the calibre of young Huskie players is 19-year-old Bob Sabourin, who has turned in several outstanding netminding jobs. Ex-Sudbury Wolves' player Bill McDonagh is another reason Levack ranks high. He spearheads a fast moving line with Chuck Regan and Yvon Goudreau.

Rumour has it that opposing defenders are petitioning to have Levack team captain Blake Davis either banished or traded to the Siberian Sealskins. League scoring champ last year, Blake is again hot after that honor, running neck and neck with teammate Garry Moore, last season's MVP award winner and currently top goal getter. With Laddy "Swivel Hips" Kavaluk this is the Huskies' hottest line. Their third line has Vic Malleau, Paul Thomson and Don Fife turning in consistently good efforts.

Bolstering Sabourin back of the blue line are John Komar, Bill Gordon, Martin Blimkie and Larry Laberge, and in reserve is spare goalie Ted Atkinson. On the injured list is Bill Shauer with a chipped knee cap. Barney Forest is trainer.

It's a four-team affair this year with both Sudbury and Capreol sporting brand new entries in the league. The Lumber Kings are in the league cellar but several hundred loyal fans attend their home games at Capreol. They are coached by Marsh Edwards. The Sudbury Junior Co-Op Flyers, a junior B team, will not be eligible for playoff competition in this league but are playing through the season for lack of competition in their own group. George DeFelice organized this club, which is coached by the Copper Refinery's Frank McKinnon.

Refereeing is sometimes quite a

chore in this wide-open type of hockey where a dozen or more penalties a game is quite normal. Referee-in-chief Lou Prete has a good staff of arbiters including Berk Keaney, Merv McGibbon and Wilf Digby, and they call the plays and byplays as they see them.

Instigator of the league and president during its first two seasons, Jim Dewey this year turned over the mantle to popular Nick Evanshen of Sudbury. Wally Woolacott of Frood is secretary-treasurer, league statistician and what have you. Regarding statistics Wally is not too happy the way facts and figures are turned in to him, and takes this means of asking for better co-operation.

Wally says the 21-game league schedule will wind up February 11, all being well, and then the two top teams will play off. The winner will enter the NOHA intermediate B playdowns.

Nickel Market's

(Continued from Page 2)

decorative trim, especially by the automotive and home appliance industries, continued to grow. Notable advancements have been made in the use of electro-formed nickel for intricately shaped corrosion and heat resistant components of missiles and jet aircraft. Increased interest is being shown in the use of relatively thick nickel deposits on industrial processing and transportation equipment to prevent product contamination.

"The nickel silvers, a group of copper-nickel-zinc alloys containing up to 18 per cent nickel, remained as the preferred base metal for silver-plated articles such as tableware.

"Principal applications for cupro-nickel alloys with from 10 to 30 per cent nickel were in the marine, petroleum and power industries for heat exchanger tubes operating under severe conditions.

"Industry continued to recognize the advantages gained through the use of nickel as an alloying agent to improve the properties of cast irons. Production of **Ni-Hard** abrasion-resisting nickel-chromium

cast irons showed an increase during 1957. The mining and cement industries continued to be the principal users of these alloys in grinding balls and mill liners for grinding ores and cement in North America, the United Kingdom, Europe and elsewhere. **Ni-Resist** corrosion-resisting nickel cast irons have become important in heat resistant applications involving turbocharger and other diesel engine components. A large use of these alloys continues in castings for corrosive service, although increasing interest is being shown in their application for high temperature service.

"The development of new and improved nickel alloys having special magnetic properties continues to meet the constantly expanding scope of the **electronic and instrument industries** in the production of automation, computation and communication equipment. Although the development of devices such as transistors supplements these nickel alloys in many fields of applications, the general expansion made possible by all of these materials provides an enlarging market in this field.

"There has been a further expansion in the application of **nickel - containing high - tensile aluminum-bronze** for large marine propellers. This development is attracting attention from all leading shipyards and ship operators in the United States and Europe.

"Requirements of nickel for **catalytic and chemical applications** increased during the year. In Europe, the demand for greater sources of power and heating, coupled with the shortage of indigenous oil, is leading to many developments in gas production in which nickel catalysts are playing an important role.

Inco's Manitoba Project

"The year 1957 marked the first full year of development at International Nickel's new nickel project in northern Manitoba. Plans for development of this project were announced December 5, 1956. In the Thompson-Moak Lake area 400 air miles north of Winnipeg, the Company is opening a new nickel mining operation and building a smelter, mill, a modern town, and ultimately a refinery. A recent major development was the completion on October 20 of a 30-mile railway spur started in January of this year. This spur, linking the project's plant site area at Thompson with the Canadian National Railways' Hudson Bay line, now provides year-round transportation for men, equipment and supplies.

"Initial production is scheduled to start in 1960 at Inco's Manitoba project, which will have an annual nickel capacity of 75,000,000 pounds. The program involves an initial investment of \$175,000,000, of which International Nickel's capital investment will approximate \$115,000,000. In combination with the progress under way at its operations in the Sudbury District of Ontario, the Manitoba development will increase the Company's annual nickel-producing capacity to 385,000,000 pounds in 1961.

Other Important Expansion

"The past year saw the announcement of two other important projects which are aimed at increasing nickel production

capacity in future years. Freeport Sulphur Company announced that it will produce 50,000,000 pounds of nickel annually from its deposits at Moa Bay, Cuba, and the French nickel company, Le Nickel, with mines on the island of New Caledonia, disclosed plans to increase its output to 50,000,000 pounds or more per year.

"Based on these programs and the announced expansion plans of other producers, it is expected the annual total free world nickel-producing capacity in 1961 will approximate between 650,000,000 and 675,000,000 pounds, with much of the increase government-stimulated or sponsored. Included in the estimated 1961 total production capacity is the nickel output of the United States government-owned plant at Nicaro, Cuba, which is understood to have increased its production facilities to 50,000,000 pounds annually, and also that of such Canadian producers as Falconbridge Nickel Mines Limited and Sherritt Gordon Mines Limited which have announced that they will increase their respective productions to 55,000,000 and 25,000,000 pounds annually."

Nickel Outlook

In conclusion, Dr. Thompson said: "Barring any presently unforeseen large increases in defence demands, it is expected that there will be more nickel available to the industries of the free world in the coming year than was the case in 1957. Consequently, the supply-demand situation throughout the world in 1958 should be in close balance, although some supplies offered during the year will continue at premium prices. In view of the announcement of the United States government that it desires to divert to industry all nickel scheduled for stockpiling, it is expected that the supply in that country will exceed the demand."

"Creating larger markets in preparation for the time the above-mentioned nickel production capacity goal is realized in 1961 is a major task confronting all producers in the industry."

"Defence and stockpile requirements in past years have kept total demand well ahead of the available supply, despite the fact that nickel production doubled in the period from 1946 to 1956. Much time and effort have been spent by industry and governmental agencies in replacing nickel-containing alloys with substitutes which used less nickel, or none at all. Although some of these substitutes are likely to continue in general use, the vast majority of cases in which specifications were thus downgraded represented a compromise, or an acceptance of conditions which, while far from ideal, were considered necessary at the time. As a result, there are today many specifications in use which, as a conservation measure, limit nickel percentages, and which should be revised to take advantage of the increased new nickel supply."

"The correction which has now occurred in the supply-demand position together with the outlook for much larger quantities of market price nickel a few years hence should give confidence both to those who wish to restore old nickel uses and to those who will benefit by including nickel in their long-range plans."

Casey Caul Skips Winners in First Creighton 'Spiel



Archie Massey (right) assistant mine superintendent congratulates the winners of the first event in Creighton mine's first bonspiel, Casey Caul (skip), Jim Taylor, and Bill Lockman. Norm Silverson (left) stands in for the fourth member of the lineup, Art Hough.

Levack's Diane

(Continued from Page 10)

age stamp," and Frank has to admit the return was good.

Mrs. Kirkness stressed the fact that this group were not chosen for their cooking skill but because of the originality and appeal of their recipe. "There are lots of better cooks than we are," she insisted, but after looking at her rugged, healthy hubby, and tasting the prize muffins, a visitor is inclined to accept that statement with definite reservations.

Here is Mrs. Kirkness' original recipe for Surprise Caramel Muffins:

6 caramels, 3 tps. water; heat caramels and water until melted. 1/3 cup melted Domestic shortening, 1/2 cup granulated sugar, 1 egg, 1/2 cup mashed bananas, 1 1/4 cups sifted cake flour, 3/4 tsp. salt, 2 tps baking powder, 1/4 tsp. baking soda.

Cool creamed shortening. Beat egg, stir in sugar and shortening. Beat mashed bananas and add to egg mixture, stir well. Sift flour, baking powder, salt and baking soda. Add to first mixture, stir until just mixed. Quickly dip batter into greased 2-inch muffin pans, filling them 2/3 full. Drop 1/2 tsp. of caramel into each muffin. Bake in moderate oven (375°) for 20 minutes or until done.

OLD PRAYER FOR A NEW YEAR

Give me a good digestion, Lord
and also something to digest.
Give me a healthy body, Lord, with
sense to keep it at its best.
Give me a healthy mind, Good
Lord, to keep the good and pure
in sight;
Which seeing sin, is not appalled
but finds a way to set it right.
Give me a mind that is not bored;
that does not whimper, whine
or sigh.
Don't let me worry overmuch about
the fussy thing called I.
Give me a sense of humour, Lord.
Give me the grace to see a joke.
To get some happiness from life
and pass it on to other folk.

(Found in Chester Cathedral, 1770)



This was the quartet that copped the second event, Bert Behenna Jr., Elio Flora, Art Carbone, and Ralph Brown (skip).



Honors in the third event went to Harry Kehler, John Kozak, Ed Hawkey, and (giving the call of the wild) Mike Sharko (skip).

A surprising entry of 28 rinks, just about double what was expected, put Creighton mine's first annual curling bonspiel away over the top.

Copper Cliff curling rink was the scene of Creighton's highly successful initiation into the besom an' stane fraternity. Next year's event will probably draw at least 40 rinks, judging by the enthusiasm and enjoyment of all hands.

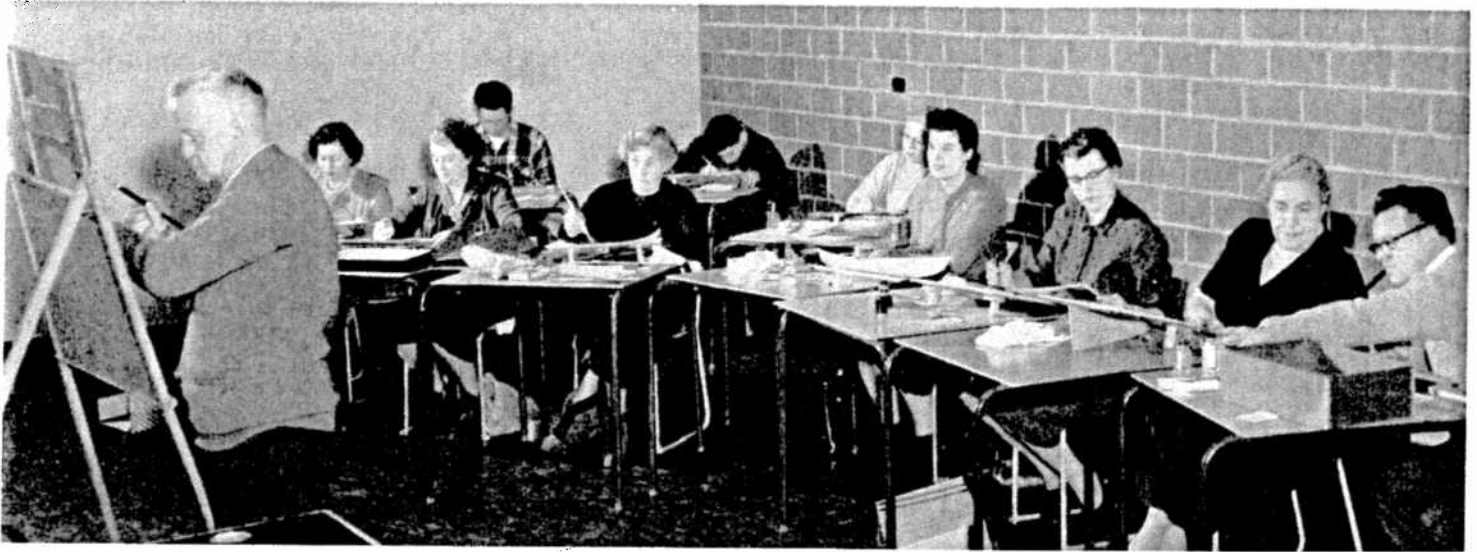
John Woznow, Wes McNeice, and

Norm Silverson were the hustling committee in charge of arrangements.

It turned out that by a happy coincidence each rink had two non-curlers. When the 'spiel was over many of these tyros pledged life-long allegiance to the game.

Of all the entries, none had more fun than the winners of the consolation prize for amassing the lowest total score in the bonspiel. Harvey Bangle, Doug McGhee, Ernie Emblin, and J. Stachnick.

Flourishing Art Class One of the Activities At Garson Employees Club



Members of the Garson art group seen in this picture are, from the left, John Brodie, instructor, Mrs. Bill Lake, Mrs. E. Plouffe, Gerald Ritchie, Mrs. L. Pletzer, Scott McLennan, Mrs. A. R. McLennan, Mrs. Archie Baxter, Mrs. Arnold King, Mrs. Larry Kirk, and Eric Denston. Other active members not shown include Mrs. Jack MacIver, Miss Lil Scagnetti, and Mrs. Ray Bonneville.

John Brodie Keen Enthusiast At 75

It was 9:00 o'clock in the morning when the visitor arrived at the John Brodie home at Garson and asked for the master of the house.

"Well, he's sleeping in a bit today," said Mrs. Brodie with her pleasant smile. "He got a new book on art last night and stayed up until after 2:00 reading it."

This kind of interest in his hobbies is one of the reasons why John Brodie is so keen and active as he prepares to celebrate his 75th birthday in March.

When a group of Garson people interested in art decided last fall to organize their own class rather than travel to and from Sudbury, they asked Mr. Brodie if he would be interested in acting as their instructor. He enthusiastically said yes, and has filled his role of "professor" with such vigor and interest that the Garson class is one of the most successful in the district.

A self-taught amateur, John Brodie has been enjoying painting in both oils and water colors for more than 30 years. The pictorial calendar of the Edinburgh Scotsman is one of his favorite sources of subject material, and he is seldom happier than when reproducing such lovely scenes as the falls at Dochart, Killin, near Loch Tay, or the castle of Eilean Donan near Dornie in Wester Ross.

Mr. Brodie was born at Silloth in the north of England, on the border of Scotland. His parents were Scottish. When he first came to Garson from Toronto in 1907 to work for Mond Nickel Co., it was chiefly on account of stories he had heard of the fine fishing in northern Ontario. He was assistant master mechanic at Garson mine when he retired on Inco service pension in 1948.

"I have another vice besides painting, you know," Mr. Brodie confided to the Triangle with a chuckle, and brought forth a neat little concertina. He bought it in London 40 years ago, and it's as

good now as the day he purchased it. Many a social gathering in Garson's early days was enlivened

by gay tunes from John Brodie's concertina.

"To John there's no place like

Garson, and there are no people like Garson people," Mrs. Brodie said of her husband's loyalty to the community where he has made his home since 1912.

The cover picture on this issue of the Triangle shows Mr. Brodie engrossed in his favorite hobby, his head wreathed in fragrant pipe smoke, and the morning sunshine falling pleasantly on him and his work.

Romeo Comes Up With Some Very Good Ideas



Romeo Gagnon, of the Copper Cliff sinter plant maintenance mechanics, came up with an original idea for decorating the family Christmas tree. He brought home a cheque for \$945.00 that he had picked up at work, and placed it on a branch just about at the centre of the tree. It made a nice effect, as his wife Jeanne, and his children Huguette (12) and Raymond (9), happily and proudly agreed. A suggestion for cooling sinter plant return fines earned Romeo the handsome award, which was presented to him by reduction plants manager Robert R. Saddington. He has been an Inco man since 1948.

Pensioners Proud Of Inco Progress

"It sure gives an old employee a warm feeling to be remembered by the directors each year," H. C. Sinclair of Sudbury said in a letter to R. H. Waddington acknowledging Inco's Christmas greetings to the pensioners. "I take great interest in all the activities of our Company."

Mrs. Florence Clarke of Kingston referred to the enclosure of the Christmas cheque, "That this gift should be extended to include pensioners is certainly a most gracious gesture, and is warmly appreciated."

"It is always a pleasure to get news from the Company. They have been good to me in keeping me posted about the improvements they are making. I thank you all for your very kind remembrance," wrote John O'Donnell of Stirling in his firm, clear hand.

"I appreciate very much the Company's continued interest in the welfare of retired employees, and wish to thank you sincerely for this attitude," was the message from A. V. Shute of Midhurst.

A. A. Richardson wrote from Florida to R. C. McQuire at Port Colborne: "It was nice to get the Triangle showing the pictures of the crowd at the annual dinner of the Quarter Century Club, which has grown to such a large number. I well remember the first one at Port Colborne. It is with pride that I follow the activities of the Company."