

INCO TRIANGLE

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Faces of Christmas

(More Pictures on Pages 8-9-10-11)



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Nickel Demand Zoomed in '66; No Letup Seen

Free World consumption of nickel in 1966 was estimated at approximately 840,000,000 pounds by Henry S. Wingate, chairman of the board of International Nickel, in his year-end review.

This was an increase of 80,000,000 pounds over the 1965 record year, and an increase of 70% over the record rate which prevailed in the years 1960 through 1962.

"Indications are that the demand for nickel in 1967 will continue at present high levels," he stated. The nickel industry will not be able to meet the demand unless production shows a marked increase, he predicted, since the 1966 supply included "virtual depletion" of inventories and large releases from government surplus.

In the long-range view, the recent price increase in nickel has permitted a start on the development of plentiful low-grade ores which promises an eventual significant increase in world production.

U.S. nickel consumption last year jumped from 370,000,000 pounds to an estimated 422,000,000 pounds, while Continental Europe and the United Kingdom rose to 305,000,000 pounds, Canada to 21,000,000, and Japan to 69,000,000.

Stainless steel was the big user at 280,000,000 pounds. Nickel plating took 135,000,000 pounds, and the high nickel alloys 130,000,000 pounds.

A sharp increase in the demand for nickel stainless steel in the U.S. reflected an increasing share of mass transit applications, such as railway coaches, as well as gains in the architectural, consumer products, power and fertilizer fields.

Notable increases in the use of nickel stainless steel in Europe included truck tanks, beer barrels, wine-storage tanks, domestic water systems, and power plants.

The growth of the aircraft industry is the main factor in the increase in demand for high nickel alloys; military requirements in the U.S. are responsible for much of this.

The increase in nickel consumption in plating reflects growth in the U.S. automotive industry and in Europe, particularly in Germany, reflects a trend towards heavier nickel deposits.

Of outstanding interest in Canada has been the specification of

Guatemalan Government Officials See Inco Mine



Distinguished visitors at Frood-Stobie mine were two members of the government of Guatemala, Dr. I. Lemus Dimas, the minister of economy, and his economic counsellor, Dr. Hector Robles Oliva. Their special interest in International Nickel operations stems from the Company's activities in their country designed to establish facilities for mining and processing nickel-containing lateritic ores. Picture shows, from the left, Dominique Chalopin, Copper Refinery metallurgical engineer who served as interpreter for the visitors, Dr. Robles Oliva, mine superintendent S. J. Sheehan, Inco Secretary William F. Kennedy, Dr. Lemus Dimas, and manager of mines J. McCreedy.

a very large tonnage of nickel alloy high strength steel for the construction of a bridge-tunnel complex across the Northumberland Strait, joining Prince Edward Island with New Brunswick.

"I believe we can see a world-wide trend in industry towards nickel containing materials," Mr. Wingate said. "For example, in Germany while the total production of low alloy steel decreased during the year, the consumption of nickel in steels for construction purposes increased by as much as 10 per cent."

Production Expansion Plans

Because of the growing demand for nickel, producers have been steadily expanding production facilities, and these expansion programs were further accelerated in 1966.

International Nickel on November 1 announced plans to bring into production the high cost, low grade ores of the Pipe Lake deposits, some 20 miles south of Thompson, in northern Manitoba. The new \$100,000,000 Pipe Lake project, together with the Birchtree and Soab mines which will begin producing late next year, will progressively increase Inco's overall production capacity in Manitoba to approximately 170,000,000 pounds of nickel per year by late 1969. This contrasts with the 1966 level of approximately 100,000,000 pounds in Manitoba.

In Ontario International Nickel opened in 1966 two new mines, the Totten and the MacLennan underground mine. Four new mines and three new shafts at existing mines will be brought into production in stages over the next 2½ years. Additionally, the sinking of an exploration shaft will start early

in 1967 to determine the feasibility of developing large, low-grade deposits lying north of Garson, Ontario.

Complementing this mine expansion program, Inco brought on stream a new electrolyte purification system at its Thompson refinery which will increase efficiency and make possible increased production. Work has also begun at Thompson to expand the milling and smelting facilities and to further increase refining capacity to handle the increased volume of ore when the new mines in Manitoba are opened. Likewise, in the Sudbury district, surface plant expansion, including new fluid-bed roasters, expanded crushing and milling facilities, and larger smelting capacity, is underway to allow for increased production.

Activities Abroad

Outside of Canada, The International Nickel Company, Inc. signed leases with the U.S. Government covering 5,000 acres of land in Minnesota containing low grade sulphide ores indicated to be less than 1 per cent combined copper and nickel. The necessary technical and legislative considerations are now being studied in connection with the development of this property.

In Guatemala, Exploraciones y Explotaciones Mineras Izabal, S.A., International Nickel's majority-owned subsidiary, is continuing development work at a site near Lake Izabal.

The Company's exploration program continued in many parts of the world. While most of this work is concentrated in Canada, extensive prospecting for nickel is being carried out in Australia, the South Pacific and Africa.

Falconbridge Nickel Mines Limited announced during the year that it expects to increase its production by one third in late 1967 or early 1968 with the opening of its new Strathcona mine in Ontario.

Sheritt Gordon Mines Limited announced the opening of its mint to produce finished coins at its Fort Saskatchewan facility. It also continued its exploration efforts in Guyana.

The French company, Société Le Nickel, has underway an expansion of its production facilities in New Caledonia. The company reported in 1966 that two joint venture companies had previously been formed with Kaiser Aluminum and Chemical Corporation, one for production in New Caledonia, the other to market ferronickel in North America.

It is reported that nickel production will start in 1967 at Société Minière et Métallurgique Larco's new plant at Larymna, Greece. This plant is expected to have a production capability of over 7,000,000 pounds per year.

Australia will become a nickel producer in 1967 according to published reports. Western Mining Limited has announced that it plans to produce by mid-1967 concentrates from the nickel sulphide deposits it discovered last year. Announcements by the company indicate a planned capacity of approximately 10,000,000 pounds per year.

As part of its continuing program of process research, International Nickel has opened a new laboratory at Sheridan Park near Toronto. Named in honor of the Company's retiring president, the J. Roy Gordon Research Laboratory will be concerned with the development of new procedures for ore treatment as well as with improvement of existing processes. Facilities are provided for product research and for geophysical and geological research. It will complement present process research facilities at Copper Cliff, Port Colborne, and Thompson in Canada, as well as Clydach, Wales.

Production Costs Increasing

When the price of nickel was increased in November, International Nickel noted that the labor settlement concluded in September with the United Steelworkers of America would increase 1967 hourly employment costs in Ontario by 17½ per cent and employment costs during the third year of the contract by 25 per cent. Subsequently Falconbridge Nickel Mines Limited concluded a contract with the International Union of Mine, Mill and Smelter Workers resulting in a similar large increase in employment costs.

Mr. Wingate said that the price adjustment would allow the Company to press forward in the development of high cost, low grade ores such as the Pipe Lake deposits. "The moderate adjustment in our prices will partially offset past cost increases and the very considerable newly-increased employment costs. But, of first importance, it will make possible an immediate major step forward in the development of previously uneconomic natural resources in Canada and elsewhere, and thus pave the way for very considerable increases in production to satisfy the rapidly growing world requirements for nickel."

INCO FAMILY ALBUM



Proud head of this king-size family is Frood plateworker Wilfred Tregonning, an Inco employee since he started at Creighton in 1938. He was working at Leveck in 1942 when he made his final move to Frood. Shown behind Wilfred and his wife Marguerite are school teachers Johanne, Larry and Mrs. Yvonne Maillet. On either side of their mother are Wilfred and Francois, 10. Juanita, also a teacher, completes the picture.



Dino Santi has worked for the Company as a clerk at the Coniston smelter warehouse since 1950. His wife Mary is the daughter of Coniston's Bill Curlook, and their family are David, 3, Kathy, 9, Donna, 8, and Jamie, 5. Ardent curlers and campers, the Santi family spend most of their spare time between May and October at their camp on the French River.



Andy Graf and his family live in Lively, where Dad is close to his work as a blaster boss at Creighton 3 shaft. The alert trio in the back row are Richard, 9, Teresa, 11, and Ronny 15. Between Andy and his wife Ruth are Jacalyn, 2, and Darlene, 16. Andy's home town was Bruno, Saskatchewan.

Formerly employed at Creighton mine, in the Sudbury district, John Knezacek came to Thompson four years ago, is a stope leader in the mine. His wife Ruth was a Creighton girl, daughter of Mr. and Mrs. Duncan MacLennan. They're shown with their two pretty little daughters, Valerie, 4½, and Nancy, 3½. John's favorite pastimes are hunting, fishing, and a bit of gardening.



The well-known family representing the Copper Cliff plant in this month's Family Album are Harvey and Barbara Mellow and sons David, 5, Robert, 2½ months. Harvey came to Inco in 1942 as a maintenance mechanic. Now assistant combustion engineer, he is a familiar figure at most plants and mines. His wife was the nurse at the Inco medical centre in Lively for five years. They live in Lively.

Hector Imbeau started with Inco in the smelter nickel reverb building in 1951 and transferred to Garson, where he works as a driller, in 1964. He is a native of Sturgeon Falls, and his wife Evelyn hails from Noelville. Their family of Ronald, 10, and Daniel, 11, both attend St. Jerome Separate School and are among the Montreal Canadiens most ardent fans.



A computer programmer in the tabulating department at Port Colborne, Lawrence Peyton has been an Inco man since 1953. He is shown with his wife Eleanor and their attractive children, Jannet, 7, and Jeffrey, 5.

Elected to New Executive Positions with Inco



ALBERT P. GAGNEBIN
President



JAMES C. PARLEE
Senior Executive
Vice-President



RICHARD A. CABELL
Executive
Vice-President



F. FOSTER TODD
Executive
Vice-President



THEODORE M. GAETZ
Vice-President



H. FRANKLIN ZURBRIGG
Vice-President



LOUIS S. RENZONI
Vice-President



PAUL QUENEAU
Assistant to the
Chairman and
Consulting Engineer



JOHN A. PIGOTT
Assistant
Vice-President



HARRY W. PETERSON
Assistant
Vice-President



KENNETH H. J. CLARKE
Assistant
Vice-President
— Canadian Sales

A. P. Gagnebin Succeeds J. R. Gordon As President of International Nickel

At the close of a meeting of the Board of Directors of The International Nickel Company of Canada, Limited, at Toronto on January 3, Henry S. Wingate, board chairman and chief officer, made the following announcement:

J. Roy Gordon, who at the request of the board has been serving as president after becoming eligible for retirement, has been elected to retire as president of the Company. As chairman of the executive committee he continues as an active officer as well as a director of the Company. He has been associated with the Company since 1936, becoming a director in 1953 and president in 1960.

Albert P. Gagnebin has been elected president of the Company and James C. Parlee senior executive vice-president. Both have

served the Company for more than 33 years and became executive vice-presidents in 1964 and directors in 1965.

Ralph H. Waddington continues as senior vice-president and member of the advisory committee.

Richard A. Cabell and F. Foster Todd have been elected as the two executive vice-presidents of the Company. Prior to the present election Mr. Cabell was a vice-president and Mr. Todd an assistant vice-president.

Three new vice-presidents, and an assistant to the chairman and consulting engineer, were also elected: Theodore M. Gaetz, H. Franklin Zurbrigg and Louis S. Renzoni, previously assistant vice-presidents, and Paul Queneau, previously technical assistant to

iron, of which he was co-inventor.

In 1954, he was appointed assistant manager of the nickel sales department, becoming manager in 1956. He was elected assistant vice-president of The International Nickel Company Inc. in 1957 and vice-president in 1958. He became vice-president of the parent company in 1960, executive vice-president in 1964, and a director in 1965.

Over a period of years Mr. Gagnebin was associated with others in fundamental studies on the solidification characteristics of iron, which eventually led to the discovery of a process for making ductile iron.

In 1952, Mr. Gagnebin and an International Nickel associate were awarded the Peter L. Simpson Gold Medal award of the American Foundrymen's Society for their "outstanding work and development in the field of spheroidal cast iron." In 1965, he was co-recipient of the annual award of the Ductile Iron Society "for outstanding contribution to the ductile iron industry and its technology in the field of technical contribution and industry leadership."

Born in Torrington, Connecticut, in 1909, Mr. Gagnebin received his Bachelor of Science degree in mechanical engineering from Yale University in 1930 and his Master of Science degree in metallurgy in 1932, also from Yale.

JAMES C. PARLEE

Mr. Parlee has been executive vice-president of The International Nickel Company of Canada, Limited, since April, 1964. He was appointed vice-president in 1960, and was placed in charge of all the Company's operations in Canada in April, 1963.

Mr. Parlee joined International Nickel in 1933. He was appointed mill superintendent in 1944. Four years later he was appointed assistant general superintendent of the mining and smelting division, and in 1954 was promoted to manager of reduction plants.

In 1957 he became manager of International Nickel's Manitoba division when it was established with headquarters at Winnipeg. Mr. Parlee was elected assistant vice-president of The International Nickel Company of Canada, Limited, and became general manager of the Manitoba division at Thompson in 1958. In 1962, he relinquished responsibilities as general manager of the Manitoba division and continued as vice-president, moving his office from Thompson, Manitoba to Toronto, Ontario.

Born in Edmonton, Alberta, in 1911, Mr. Parlee is a graduate of the University of Alberta where he received his Bachelor of Science degree in mining and metallurgy in 1933.

RICHARD A. CABELL

Mr. Cabell has been a vice-president of The International Nickel Company of Canada, Limited, since 1960, and an executive vice-president of The International Nickel Company, Inc., since 1964.

He joined the Company in 1944 as assistant secretary of The International Nickel Company, Inc., and for 13 years was in charge of labor relations in the United

(Continued on Page 5)

the president, has become assistant to the chairman and consulting engineer.

John A. Pigott, general manager of the Ontario division, and Harry W. Peterson, general manager of the Manitoba division, have been elected assistant vice-presidents, and Kenneth H. J. Clarke, manager of Canadian sales and market development, was elected assistant vice-president—Canadian sales.

The offices heretofore held by the several other officers of the Company remain unchanged.

ALBERT P. GAGNEBIN

Mr. Gagnebin's association with International Nickel dates from the summer of 1930, when he held a summer position at the Huntington works in West Virginia. In 1932 he joined the staff of the Company's research laboratory at Bayonne, New Jersey, engaging in ferrous metals research. In 1949 he transferred to the New York office to establish a group for the commercial development of ductile



Jim Gemmell of Chapleau attended the dinner honoring his father and Jack Vickers on their retirement. He's shown above on the left with R. A. Corless, administrative assistant, accounting; Sid Gemmell, J. A. Pigott, assistant vice-president and general manager Ontario division; Jack Vickers, and Don Cowcill, retired division comptroller.

The combined retirement party for paymaster Syd Gemmel and pay office accountant Jack Vickers drew guests from as far away as Blind River, Guelph and Chapleau. Held at the Copper Cliff Legion Hall, the stag was attended by 145 old friends and colleagues who sat down to a hearty roast beef dinner prepared by the Legion Ladies Auxilliary.

Ontario division general manager J. A. Pigott and retired assistant to the comptroller Don Cowcill were present to recall some of the highlights in the careers of Syd and Jack during their long careers with the Company.

During the evening Syd, whose hobby is movie photography, was presented with an 8 mm zoom lens movie camera. Jack's plans to travel were well known in the department, and he received two pieces of luggage.

Syd Gemmell

Retiring on service pension after nearly 43 years with the Company, paymaster Syd Gemmel confessed, "I think my retirement came at just about the right time. I'm going out when the computers are coming in — I'm a little too old to be changing my ways now."

Born in Whitefish in 1901, when the town was a bustling lumber camp supply depot, Syd was raised on his father's farm, boarded out in Sudbury to attend high school,



Mrs. Gemmell

and at 22 started work at the Worthington mine as a trammer for the Mond Nickel Company. The farm boy missed the sunshine, and after three months underground Syd applied for surface work and was sent to Mond's Garson mine as a time clerk. He was transferred to the Frood extension in 1926 to take charge of the warehouse and time office. After two years he returned to Garson to assume charge of the warehouse and time office, and when the mine closed temporarily in 1932 he was one of the seven men chosen to stay on as a maintenance crew. "That was quite an experience," said Syd with a grin. "I was mine clerk, carpenter, compressorman and watchman until 1933, when I was moved back to Frood as a time clerk."

From 1936 to 1949 he was in charge of the Garson warehouse and time office, and was then appointed assistant paymaster at Copper Cliff. He succeeded to paymaster in 1954.

A young Worthington school teacher, Beryl Barker of Chapleau, became Mrs. Gemmell in 1927. Their family of three are Frances,

now Mrs. George Norman of Burlington, Jim in Chapleau, and Alan, a chemical engineer in Vancouver. The couple are grandparents of eight.

Travelling to visit their family, and a camp on Lake Huron at Algoma Mills, will keep Syd busy enough in retirement. What with moving to an apartment on O'Connor Street in Sudbury, Syd has yet to find out what retirement is all about. He may be sure that all his friends and colleagues are wishing him many happy years of leisure.

Jack Vickers

The old saying that "Life begins at 40" should be updated a little. Jack Vickers is proving that life begins somewhere around age 65. Since he retired recently from the Copper Cliff pay office after 37 years with Inco, Jack has taken unto himself a bride, Mrs. Laura Gandola of Cleveland, Ohio, and the happy couple have sailed for the Orient on a three-month cruise. They spent Christmas in Honolulu. On their return they will make their home in Toronto.

Born in Cockermouth in Cumberland County, northern England, Jack was the youngest of a family of eight. After working for five years with an insurance company in his home town, he decided in 1920 to join his eldest brother Tom who was living in Sudbury, and who had found employment for him as a clerk in the CPR freight office.

Jack joined the Ontario Refining Company at Copper Cliff in 1929 as a timekeeper, was paymaster there in 1937, and was transferred to the mining and smelting division of Inco as a senior clerk in the pay office in 1960. He was an assistant chief accountant at the time of his retirement.

In 1935 Jack married a Coniston girl, Margaret Sinns, who died in 1964.

A quiet and gentle man, Jack has a wide circle of friends who wish him a long and happy retirement.

Appointments

(Continued on Page 4)

States. In May, 1952, he was elected assistant vice-president of that company, and in May, 1954, assistant to the vice-president of the parent Canadian company. He was elected a vice-president of the United States subsidiary and an assistant vice-president of the parent company in December, 1957.

He is a director of The Toronto Dominion Bank Trust Company, Heath Steele Mines Limited, and is chairman of the board of the Associated Hospital Service of New York.

Born in 1912 in Big Stone Gap, Virginia, Mr. Cabell was 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 Bachelor of Laws degree in 1939.

F. FOSTER TODD

Mr. Todd has been assistant vice-president of The International Nickel Company of Canada, Limited, since April, 1964.

He joined International Nickel

at Copper Cliff in 1929 as an engineer at the Frood Mine, becoming a safety engineer in 1937 and general foreman of the Levack Mine in 1939. In 1942 he was appointed superintendent of the Murray Mine, and subsequently served as superintendent of the Garson Mine. In 1952, he became assistant superintendent of mines of the Ontario division. Mr. Todd was made assistant manager of the Company's Manitoba division in 1957, and general manager of that division in 1962.

Born in Crisfield, Maryland, in 1907, he received the degrees of Bachelor of Science and Engineer of Mines in 1928 from Michigan College of Mining and Technology, Houghton, Michigan. He became a Canadian citizen in 1941.

THEODORE M. GAETZ

Mr. Gaetz has been assistant vice-president of The International Nickel Company of Canada, Limited, since 1964.

Born at Red Deer, Alberta, Mr. Gaetz graduated in mining from Queen's University, Kingston. During his university vacations he worked as a miner, surveyor and prospector in Northern Ontario gold properties, among them McIntyre Porcupine Gold Mines Limited.

He started with Inco in 1930 as an engineer at Creighton Mine. He held positions of increasing responsibility leading up to his appointment in 1954 as superintendent of mines. He became manager of mines in 1958, and assistant to the general manager of International Nickel's Ontario division in 1959. In 1960 he was made assistant general manager of the Ontario division, and, two years later, general manager.

In 1964, Mr. Gaetz was elected an assistant vice-president of the Company, continuing as general manager of the Ontario division with offices at Copper Cliff. The following year he transferred to the Toronto office as assistant vice-president.

H. FRANKLIN ZURBRIGG

Mr. Zurbrigg has been assistant vice-president of The International Nickel Company of Canada, Limited, since 1964, and chief geologist since 1961.

Joining International Nickel in 1933 as a geologist at Copper Cliff, he was appointed chief geologist of Creighton Mine in 1935, and chief mines geologist at Copper Cliff in 1940. In 1956 he became chief geologist of the Ontario division of International Nickel.

Mr. Zurbrigg is president of The Canadian Nickel Company Limited, the subsidiary which conducts the Company's world-wide exploration activities.

A graduate of Queen's University, Kingston, Mr. Zurbrigg received his Bachelor of Science degree in 1931, and Master of Science degree in 1933. He is a native of St. Mary's, Ontario.

LOUIS S. RENZONI

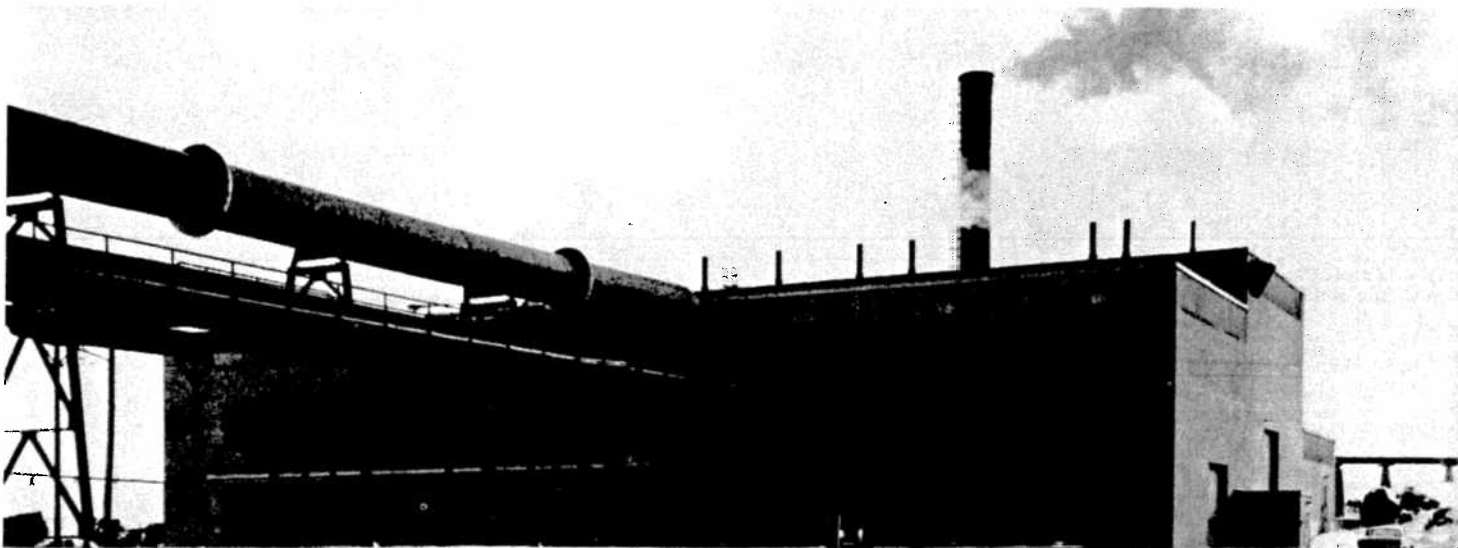
Mr. Renzoni was elected an assistant vice-president of The International Nickel Company of Canada, Limited, in 1964, and has been manager of process research (Canada) since 1960.

He joined International Nickel in 1937 as a research chemist at Port Colborne.

Mr. Renzoni was appointed (Continued on Page 15)

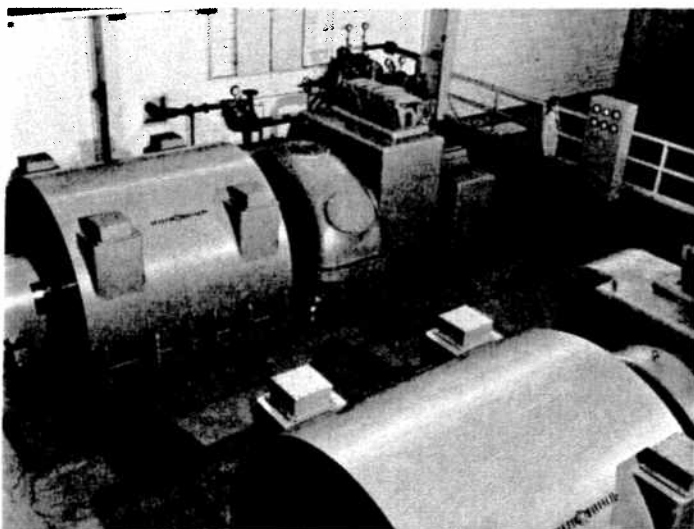


The two popular retirees received best wishes from a large gathering of friends and co-workers at their retirement dinner in the Canadian Legion Hall, Copper Cliff. Jack Vickers is seen above on the left, shaking hands with Jim Oliver, while in the foreground Syd Gemmell is congratulated by Greg Roy.



THE PIPE-LADEN overhead trestle tells the story of the multi-service versatility that makes the powerhouse at the Iron Ore Plant unique in Canada. It's probably the understatement of the year to say that this building has "good connections". The power that runs the powerhouse — steam at 560 pounds square inch generated by waste heat in the roaster-kiln building boilers — is delivered to the building through a 12-inch pipeline. All other lines lead out.

The 7-foot pipe takes low pressure air to the fluid bed roasters, a 10-inch line carries high pressure air wherever it's required, another takes air at 15 psi to the leaching vessels, a 20-inch vacuum line services the leaching, recovery, and pelletizing processes, and another pipe delivers steam at 125 psi to all the plant buildings.



THE IORP POWERHOUSE performs so many services that its primary function is almost overshadowed. These two turbo-generators, with a combined capacity of 25,000 hp, can supply 80% of the plant's power requirements. This amount of electrical energy would satisfy the demand of the entire City of North Bay with a population of 22,600 people.

Iron Ore Plant Powerhouse Is Unique Utility

The powerhouse at Inco's Iron Ore Recovery Plant at Copper Cliff is one of the most unique power and utility service installations in Canada, due to its operating flexibility and versatility.

In addition to producing a large portion of the plant's power requirements, the powerhouse contains all the machinery necessary to supply:

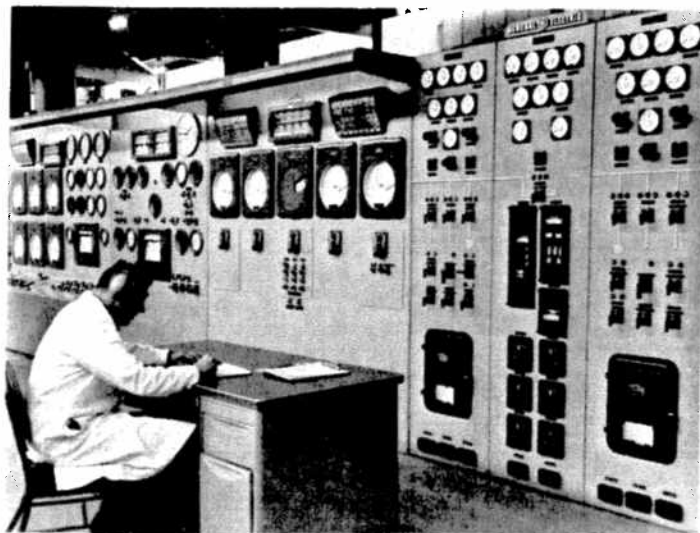
- 205,000 cfm of air at 5 psi for the operation of the fluid bed roasters,
- 15,000 cfm of air at 15 psi for the ammonia leaching aeration vessels,
- 12,000 cfm of high pressure air at 100 psi for all building services,
- 1,000 cfm of oil-free air at 100 psi for the operation of the complex instrumentation and controls required in this modern reduction process,
- A vacuum of 25 inches of mercury to service the filters in the leaching, recovery, and pelletizing buildings.

Two Turbo-Generators

The 25,000-hp generating capacity of the powerhouse's two turbo-generators will supply 80% of the Iron Ore Plant's total electrical demand.

Steam generated from waste process heat is the power that runs the powerhouse. Produced in the high pressure forced circulation boilers in the roaster-kiln building, the steam is transmitted at 560 psi to the powerhouse, where it is superheated to a temperature of 625 degrees F in a superheater furnace fired by natural gas.

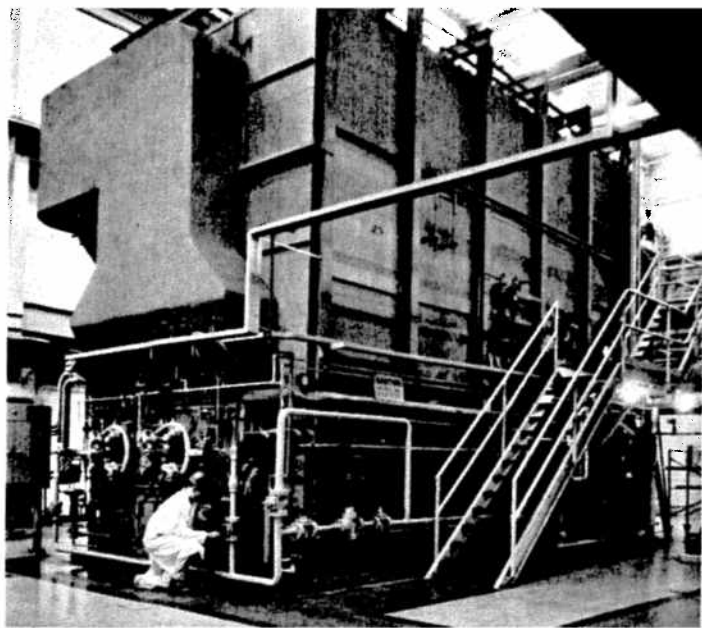
This highly heated steam is then expanded through a turbine, reducing the pressure to 125 psi and the temperature to 380 degrees F.



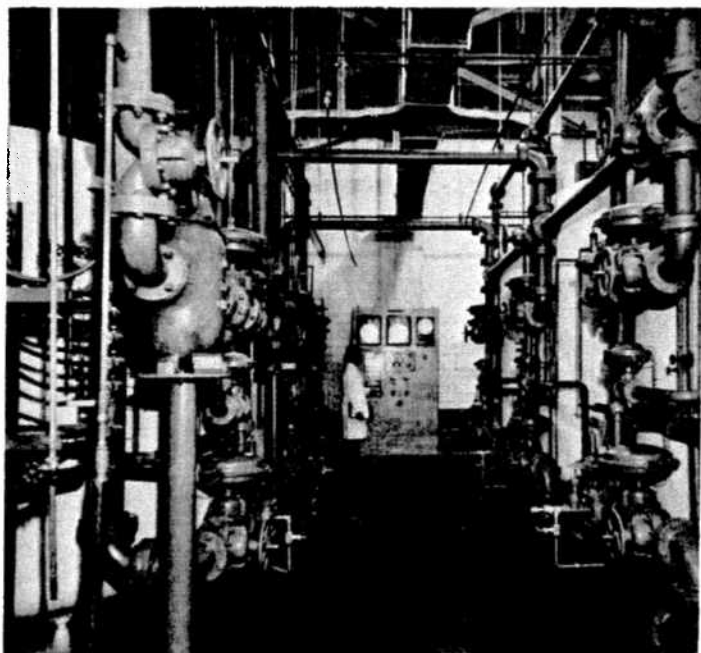
ALL UTILITIES servicing the Iron Ore Plant are automatically controlled from this main panel in the powerhouse, a uniquely efficient arrangement for an industrial set-up. Sections of the panel control superheater combustion, steam distribution, turbines and generators. The operator shown is Karl Puiras.



GERRY CULLAIN, chief power engineer (left) confers with assistant plant superintendent George Nowlan.



SIMILAR TO an installation required in a nuclear power plant, this gas-fired furnace superheats the steam received from the roaster-kiln building boilers, boosting its temperature to 625 degrees F before delivering it to one of the powerhouse's two turbines. Don McLellan is the operator in the picture.



THE BOILERS in the roaster-kiln building require an extremely high quality treated water. This is a view of the powerhouse where water from the Vermillion River is demineralized to a purity equivalent to triple-distilled water. Bud Meaden is the water treatment technician shown.

The expended heat and velocity are converted to electrical energy in a direct-connected 3600 rpm generator, where a total of 12,500 hp is generated and fed into the Iron Ore Plant's electrical distribution system.

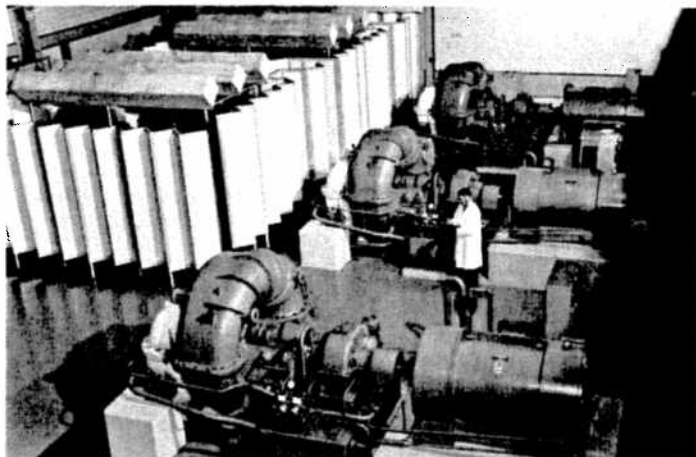
The steam at the reduced pressure of 125 psi supplies the plant's requirements, with all steam in excess of process demand being expanded through a second turbo-generator of 12,500 hp capacity. This excess steam after expansion through the turbine is condensed in a large surface condenser containing 2,420 tubes 1 inch in diameter and 20 feet long, constructed of 70/30 copper-nickel alloy.

Special Water Treatment

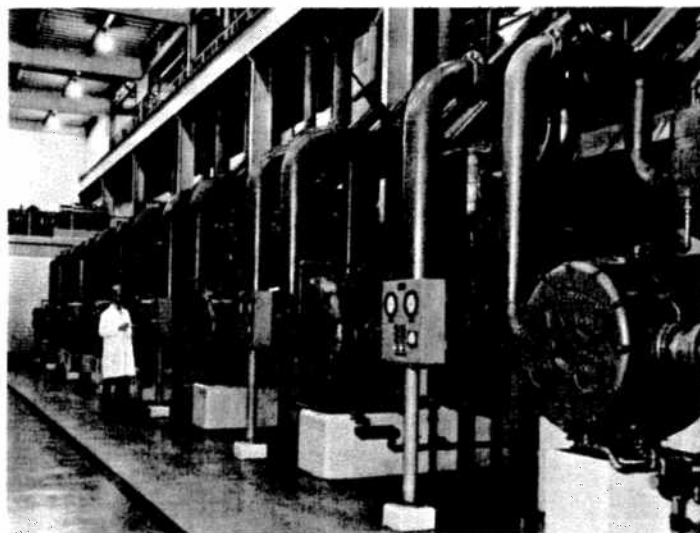
Another highly interesting feature of the Iron Ore Plant's steam and power facility is the treatment process for boiler feed water. The Lamont type boilers in the roaster-kiln building require an extremely

high quality treated water. Piped from the Vermillion River 11 miles distant, water for this purpose is clarified, filtered, and finally pumped through an ion exchange unit where it is demineralized to a purity equivalent to triple-distilled water. It is delivered from the powerhouse to the boilers through an 8-inch stainless steel pipeline 1400 feet long.

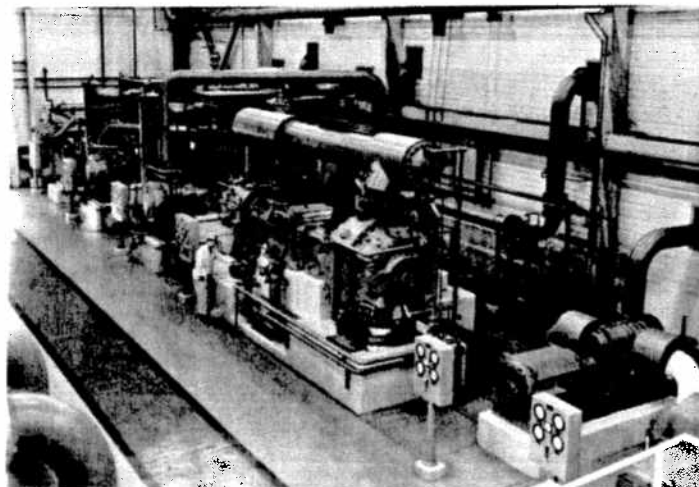
The exchanger units after exhaustion are regenerated with solutions of sulphuric acid and liquid caustic soda, thus requiring close observation and control of the regenerant effluent removed to sewer. To control this variable pH effluent and to satisfy the requirements of the Ontario Water Resources Commission, an ion exchange neutralizer maintains the regenerant effluent pH at an acceptable level, thereby eliminating potential stream pollution in the area.



BILL BECHARD checks the performance of the powerhouse blowers which produce 205,000 cubic feet per minute of air at 5 pounds square inch for the operation of the fluid bed roasters. Two of the five blowers are enclosed by styrofoam noise baffles.



THIS IMPRESSIVE LINEUP of eight vacuum pumps, with a total displacement of 36,000 cubic feet per minute, maintains a vacuum of 25 inches of mercury to service the filters in the leaching, recovery, and pelletizing buildings. Operator Morris Taylor is making a performance check.



A BATTERY of compressors lines one wall of the powerhouse. The four big machines supply high pressure air at 100 psi to operate the plant's complex instrumentation and controls, as well as for general service use. One of three small blowers producing air at 15 psi is also shown. The operator in the picture is Gord Hughson.



Faces of Christmas





TO WRECKERS

Inco





Faces of Christmas at Inco



Thousands of Inco Kiddies Greeted Santa

The weekend before Christmas was a busy one for the jolly old gent from the North Pole, but he managed to personally greet some 14,000 International Nickel children who attended the 10 parties cheerfully organized by his many helpers at the various mines and plants. The younger set were treated to cartoon movies, presented with gifts, fed with doughnuts, potato chips, crackerjack and pop, and loaded up with more than three and a half tons of candy.

Ranging in age from tiny bright-eyed tots just a few months old to wary veterans of 12, the kiddies' reactions were reward enough for the faithful groups of volunteers whose untiring efforts helped make the Yuletide season a memorable time for Company youngsters.

COPPER CLIFF

With the success of last year's experiment in mind, the Copper Cliff Athletic Association once again hired the Sudbury Arena to hold their Christmas party for 3,300 children of employees of the smelter and mill, the Iron Ore Plant, Police and Creighton personnel living in Sudbury.

The younger set and the many accompanying parents were welcomed by master of ceremonies Norm McGilvary. He turned the mike over to popular Inco pensioner Ted Dash who soon had the huge crowd carolling their heads off.

A dazzling line-up of entertainment followed including talented six-year-old Donny Reed and his violin, a breathtaking display with flaming batons by the attractive Kennedy sisters, Marg and Marj, a clever acrobatic dance by Ida Sauve, the hilarious antics of a pair of clowns, and skits by the emcee and his son Lennie. The lively rhythm of the Laurentian Combo provided musical background throughout the show. The strains of "Here comes Santa Claus" drew a roof-raising welcome for old St. Nick himself, who, enthroned on the ice making machine, circled the arena several times to greet his faithful followers. After a short speech Santa Jack Latreille took off on his busy rounds, while the crowd sang "There goes Santa Claus".

More than 50 members of the Association were on hand to help with the arrangements and distribute candies to the kiddies as they left the arena. Among the stalwarts who assisted committee chairman Roy Maud were Gordon McLean, Hugh Allen, John Taylor and Johnny Spec. The attendance of the St. John's Ambulance Brigade and several nurses was much appreciated by the association.

CONISTON

There's a clown out Coniston way — the circus type — who recommends that a fellow should never underestimate the power packed behind the upper-cut of a four-year-old bent on getting to Santa Claus — no matter what. Said clown was hearing Christmas bells and counting stars long after the determined tyke had toddled



Christmas Rounds

A custom thoroughly enjoyed by visitors, patients and staff alike is the round of the wards at Copper Cliff Hospital on Christmas morning. General manager Jack Pigott and assistant to the general manager Gordon Machum were present this year to extend Season's greetings and good wishes from the Company. One of the patients, Inco pensioner Bill Alder, is shown as he proposed a cheery Yuletide toast to the visiting group, Dr. John Sturtridge, G. O. Machum, Dr. Roberto Grosso, nurse Virginia MacMaster, matron Barbara Truskoski, J. A. Pigott, head surgical nurse Eileen Tobin, chief surgeon Dr. B. F. Hazlewood, nurse Simone Lauzon, Dr. John Jones.



Personnel People Gather

On the Friday before Christmas several of the office departments broke off work to enjoy informal gatherings at which Season's greetings were exchanged and tasty refreshments served by the distaff members. The personnel officers and staff from the plants in the Sudbury district held their gathering at the Inco Club, where they're shown above: left to right, Della Evans, Helen Hall, Paul Gawalko, Lyman Cranston, Gary Foy, Jean Parri, Dan Toppo, Tom Scanlon, Dave Chapman, Garnet Milks, Bob Watton, Jim Martel, Howard Caldwell, George Low, Alton Browne, Greg Roy, Harvey Nadeau, Wanda Mintz, Georgina Ferguson, John Spec, Peggy Kozu, and Neil MacDonald.



Carols at the Office

In the tabulating department at Copper Cliff many gathered to sing traditional Christmas carols, with the fine tenor voice of George Betancourt (right) to lead them.

homeward loaded with Christmas loot from the Coniston Athletic Association Christmas party held at the Club Allegri.

Resplendent in his Santa costume, "Tippy" Caverson handed

out gifts and candy to more than 400 good little boys and girls, while his four grease-painted clowns frolicked to the amusement of all. They were 'Sliver' Marcon, Romeo Boulay, 'Broken Jaw' Gino Gobbo

and Jack Angove.

Jovial master of ceremonies Ugo Comacchio was in charge of the entertainment which included the amazing magic of Copper Cliff's

(Continued on Page 14)

Popular Retiree



Alice Smiley had almost 38 years of service to her credit when she retired as executive secretary at the nickel refinery, Port Colborne. The executives and office building social group presented the popular and highly efficient lady with a portable typewriter as an expression of their esteem. Her husband, Ron Smiley, is a powerhouse engineer at the Port Colborne plant.

Mike Petroff

A young-looking 65, with hardly a grey hair on his head, genial Mike Petroff has retired from his job as pillar leader at Frood mine



Mr. and Mrs. Petroff

after more than 31 years with the Company.

Born in West Ukraine, Mike left there in 1927 and travelled to Winnipeg. Seeking adventure and

willing to turn his hand to any job, he worked in the fields for the farmers, in the bush with the lumberjacks, on railroad construction, and became a coal miner at the Bienfait mine near Estevan, Saskatchewan, in 1930.

He left the coal face in 1932 and moved to Winnipeg where he met Lena Charko, who later the same year became his wife. The Petroffs are hoping to make a trip to the Ukraine where Mike will visit his three brothers and a sister he hasn't seen since 1927.

A neat kitchen garden and a camp on Trout Lake will keep Mike and Lena as busy as they want to be during their retirement years.

Great Start for '67

The Copper Cliff Plant ended 1966 and started 1967 with the completion of 1,000,000 hours without a lost-time injury. This run of safe hours started on November 19, 1966 and as of January 1, 1967, 1,017,284 safe hours had been recorded.

"It is appreciated that it requires the full co-operation and help of each and every man and supervisor in this very large and complex plant to reach such a record. A mistake by any one of the 5,065 personnel could have marred this record," safety superintendent M. E. Young said in congratulating the Copper Cliff plant on its safe workmanship.

A safety award will be made to all personnel contributing to this fine achievement.

JUST CAN'T WIN

A golfing parson was badly beaten by a parishioner some thirty years his senior. The parson, as they returned to the clubhouse, was decidedly depressed.

"Cheer up," said the opponent. "Remember, you win eventually. You'll probably be burying me some day."

"Even then," said the parson despondently, "it'll be your hole."

"You Should Have Seen the One That Got Away!"



It was not one of the best fishing seasons on record, but the boys at Frood-Stobie as usual managed to pull in some good-sized ones to brag about through the winter. When the mine's annual fishing contest prizes were awarded four lucky lads walked off with trophies and high quality leather travelling bags to back up their yarns. It's hard to tell from the picture whether the look in assistant superintendent Gordie Strasser's eye is one of admiration or doubt as driller Earl Lewis indicates the size of the one that got away before he caught his winning fish, a 32-pound lake trout, in Lake Manitou. Behind Earl are driller John Boyle, who claimed his trophy with an 11-pound muskie out of the West Arm of Lake Nipissing, construction leader Bill Demkiw whose winner was a 23-pound, 42-inch pike from the Pickerel River, and Stobie switchman Al Durette who won his prize with a 6-pound speckled trout "some place west of Capreol."

Safety and Medical Departments Had Party



No place is a good place to break a leg or twist an ankle, but if such an injury had occurred at the Copper Cliff Legion Hall the night of December 3, there would have been plenty of expert help available. The safety and medical departments held their annual Christmas party that evening, but happily no display of professional talents was required, and the 75 attending couples danced merrily to the music of the Melody Kings, paused to enjoy a sumptuous buffet supper, and then continued the dance until the small hours. Brilliant reds and green of poinsettias and pine added a festive touch to the buffet table. Seen above passing down the line are Norbert Mareck, Florence Hussion, superintendent of safety M. E. Young and his wife Marie, Walter Benn and his wife Anne, Mrs. Mildred Hazlewood and chief surgeon Dr. B. F. Hazlewood.

Relaxing between dances are Jim Blanchard, Elaine Liske, Carol Bouchard, Ken Braumberger, Jack Young and Eldine Schriml. Pretty Eldine, receptionist at the Copper Cliff Hospital, got quite a shock when she opened her door prize — a pair of safety shoes.



Appointment

Appointment of Dr. Richard H. Lloyd as acting superintendent of research at Copper Cliff was announced in December by L. S. Renzoni, assistant vice-president and manager of process research (Canada).



Dr. Lloyd

and his Doctorate from Columbia University.

Prior to joining International Nickel in 1964 he was assistant superintendent of the American Smelting and Refining Company smelter at Tacoma, Washington, for seven years.

He taught extractive metallurgy at the university level for three years, and has been engaged in



Admiring the Expo theme party decorations are Barbara and Hans Zapell. Hans is a first aid man at the Copper Refinery.

extensive industrial research. During the Korean conflict he served two years at the Army Chemical Centre in Maryland.

Dr. Lloyd spent almost two years at Inco's research stations at Port Colborne.

He is a devotee of flower photography, hi-fi recordings, and non-fiction reading, especially Byzantine history.

He is unmarried.

Museum and Fine Arts Centre for Centennial



CKSO Television

A community Centennial project initiated by the Sudbury and District Chamber of Commerce, the refurbishing of the Bell Rock Estate as a museum and fine arts centre has aroused great interest and enthusiasm. The fine old mansion, coach house and garage would provide some 5,000 square feet of floor space for museum and fine arts activities. The refurbished buildings and grounds would be turned over to Laurentian University, which has agreed to install a curator and maintain and operate the centre for the benefit of the community. A \$125,000 fund-raising campaign is now under way. The above picture, shows the Bell home, coach house and part of the grounds in the city's Lake section.

New Labor Contract Signed at Thompson

Following earlier than normal negotiations initiated by the Company, The International Nickel Company of Canada, Limited reached agreement with the United Steelworkers of America Local 6166 at Thompson, Manitoba, on a new labor contract, covering its hourly paid employees in the Company's Manitoba facilities. The agreement is for three years and was ratified by the union membership by secret ballot December 6.

The new contract provides a base labor rate of \$2.525 per hour which will be increased to \$2.621 on March 1, 1968 and to \$2.737 on March 1, 1969. The new miner's rate is \$2.945, going to \$3.065 on March 1, 1968 and to \$3.205 on March 1, 1969. The wage rates for all other classifications including trades, are increased relatively.

Although the new three-year contract becomes effective when the present agreement expires on March 1, 1967, the new wage schedule and improved shift and Sunday premiums were effective December 1, 1966.

In addition to substantially increased vacations with pay and increased shift and Sunday premiums, the contract provides for greater pension benefits, a prepaid prescription drug plan, and increased Company payments to life, medical, hospital and sickness insurance.

James C. Parlee, executive vice-president of The International Nickel Company of Canada, Limited said: "The early signing of this agreement ensures labor stability during the next 39 months. This is a period in which the Company is proceeding with its new mines development program and an expansion of production facilities which will progressively increase production capability in Manitoba

from 1966 levels of approximately 100,000,000 pounds to approximately 170,000,000 pounds of nickel per year by late 1969."

Ralph James

A heart condition has forced Frood driller Ralph James to retire on disability pension after nearly 13 years with Inco.

Ralph was born in Alfred, near Ottawa, in 1901, and began travelling at the age of 19 when he left the family farm for the Britannia mine in British Columbia. A move to Sioux Lookout and shaft sinking at the Central Patricia gold mine followed in 1929. One



Mr. and Mrs. James

year there was followed by prospecting in Alberta, shaft sinking at Yellowknife. In 1946 he first joined Inco as a shaft driller at Stobie mine. After two years on construction for the City of Sudbury, he returned to the Company in 1950 as a shaft driller at Creighton, was transferred to Stobie in 1951, and after completion of shaft sinking operations there in 1953 was moved to Frood where he worked as a driller until retirement.

Ralph married Margaret Tuck in 1941; they have a family of three and one grandchild. Ralph Jr. lives in Montreal, Garfield in Ottawa, and Hannah attends school in Sudbury.

With a comfortable home on the shores of Whitson Lake, Ralph plans to spend his retirement years cultivating a garden on his acre of peaceful countryside.

John Haggart Repeats in Jingle Contest



The budding poets at Frood-Stobie were at it again this Christmas, composing all sorts of fine verse for the annual Yuletide safety jingle contest and competing for the \$100 in cash prizes offered by the Athletic Association.

The mine's incumbent poet laureate, John Haggart, did it again by winning the first prize of \$25 for the second year in a row with the catchy ditty seen above. There were 137 entries. Assistant

superintendent of the Stobie section, Milt Jowsey, and Frood underground superintendent Ted Flanagan were there to present checks to John and the \$15 second prize winner Cliff Bennett.

Third prize of \$10 went to Karl Krzyzyk, and \$5 awards to Moss Taylor, Frank Starlinger, Renato Cacciotti, Gerald Laframboise, Gordon Milne, John Nault, Fred Healy, Stu Dickson, Len Webster and Arnold Schultz.

At General Engineering's Yule Festivities



If the boys from the general engineering department were using their slide rules at their annual Christmas party, then it was strictly to stir their drinks. Some of the 39 attending couples could have used a blueprint to locate the well-hidden Lively Legion Hall, where the dinner dance was held, but once there enjoyed themselves in their usual hearty manner. In the above group are Mrs. Jean Quance, Richard Lanz, Irma Roininen, Leo Poirier, Simone Bryan and Lucille Poirier "on stage" Leo Roininen, Doug Bryan, Eleanor Lanz and chief engineer John Quance.

Jack and Jeannette Anderson did a top-notch job of chairing the organizing committee: Jeannette is seen welcoming and tagging late arrivals Cecile and 'Doc' Thachuk, and Merle and Ray Caverson. After enjoying dancing until midnight the party sat down to delicious pork pies prepared by the Legion ladies.





Creighton mine superintendent Earl Mumford congratulates Bill Oja on his retirement after presenting him with a rod and reel from 53 of his workmates. Looking on are Leo MacDonald, Nels Crowder, Jim Byrnes, Wilf Rochefort, Eric Ashick, Doug Reynolds and Erin Holmes.

Bill Oja

During his 24 years as a tool fitter and saw doctor at Creighton mine, Bill Oja estimates that he sharpened 110,000 crosscut saws. "That adds up to a lot of squeaking," said he with a wry grin.

When he retired recently on service pension after 28 years with Inco, Bill was presented with a well-wishers' ribbon containing 53 names, and a beautiful spinning rod and reel which will feel as much at home in Bill's hand as his familiar file.

Born in Kurikka, Finland, Bill came to Canada with his family when he was nine years old. His father settled in Garson, and by 1916 Bill was working in the rock-house there.



Mrs. Oja

During the following years he worked in Timmins and Sudbury as a butcher, as a feed-erman at Garson, and was a driller at Creighton 3 shaft in 1942 when he was given the job of assistant topman and brought to the surface to sharpen saws. He was reclassified as a tool fitter and sawfiler in 1952.

Bill was married to Lyyli Rantalaihi in 1926. Their son Voitto and their three grandchildren live in Hamilton. Bill got the surprise of his life one night recently when some 145 couples sprang a party on him and presented him with a lazy-boy chair and a pole lamp. "I didn't know I had so many friends," said Bill modestly. An ardent hunter and fisherman, he is usually up and away on his snowshoes as soon as the snow flies, and uses his Penage Lake camp the year 'round.

Hardworking and green-thumbed gardeners Bill and his wife have won many annual awards for the beautiful flower garden among the rocks around their home at the end of George Street in Creighton.

Bill may be sure that all his friends and workmates wish him good hunting, good fishing, and many happy retirement years.

Pro football is like nuclear warfare.

There are no winners, only survivors. — Frank Gifford.

Inco Kiddies

(Continued from Page 11)

Dennis Thyne, selections by Coniston's own musical group, the five Poloras, and lots of singing with nimble fingered "Pit" Leblanc at the piano. The very successful afternoon was organized by Reg MacNeil, and among the many willing volunteers who made it all possible were Leo Boyer, John Tegel, Art Gobbo, Tony Zanutto, Ernie Barbe, Hector Gervais and many others.

COPPER REFINERY

The Copper Refinery party was held in the Inco Employees Club in Sudbury, where manager Vern Tupling had done his usual fine job of adding the Christmas touch with gay decorations and a beautifully dressed tree.

Retirement from Inco and the Refinery had by no means released Santa Jack Latreille and his right hand man George Furchner from their dedicated duties, and the pair entertained some 850 excited young tads who came to bend Mr. Claus's ear with requests for the morning of the 25th and to receive a gift, candy and cracker-jack. Attending parents were served coffee and doughnuts. Both young and old were entertained with a first-class movie cartoon show.

Hard-working Knox Monahan was chairman of the group that organized the affair, ably assisted by Buddy Eles, Bill McBain, Howard Caldwell, Leo Pavato and many other willing hands.

LIVELY

If anyone was entitled to a gripe about the cold weather that prevailed on the Sunday before Christmas, it was Santa Claus (Con Walker) who endured the bone-chilling and eye-watering north wind during his annual tour of the town perched high on the fire truck.

Teeth chattering, nose glowing, and fingers frozen to the ladder, the bewiskered gent was finally pried loose, assisted into the High School, where he was relieved of several suits of woollies, and propped up to thaw out beneath the glittering Christmas tree that had been provided for the occasion by Bill Fortin and his town crew.

There's no shortage of young fry in Lively, and 900 of them turned out to chat with Santa and receive gifts and candy from peppy party organizer Harold Haas and his

committee of Bert Squirell, Mason Logan, Al Maskell, Alan Este, Gary Foy, Harold Guse and many others of the lively Lively Athletic Association.

MURRAY MINE

At the Murray mine Christmas tree party at the Sudbury Inco Employees Club, Santa Claus obviously enjoyed himself every bit as much as the excited and breathless youngsters who climbed on his knee to give him those last minute instructions — in either French or English — because it was once again versatile Maurice Lavoie behind the bushy eyebrows.

Close to 700 youngsters attended the party, and before seeing Santa, enjoyed half an hour of cartoon movies while guzzling hotdogs and pop. Fathers and mothers were treated to coffee and doughnuts.

"A perfect party — better than ever before," was the comment of organizing committee member Tony Basso. Walter Sokoloski was the chairman of the committee that included Bill Lang, Bill Stevenson, Clarence Weist, Carl Clubbe and had the help of a host of others.

GARSON

Mine superintendent and Christmas party committee chairman Bruce King was first to welcome both young and old to the Garson Employees Club to spend a happy half hour watching movie cartoons before the gang of 800 starry-eyed youngsters lined up to receive potato chips and a gift, and to sit on the scarlet knee of jolly old St. Nick in the person of John MacKinnon. Members of mine supervision were on hand to distribute the goodies.

The chairman was ably assisted by perennial stalwarts Harvey Bangle, Tom Scanlon, Vic Stone, Ollie Matson and many more Athletic Association volunteers.

CREIGHTON MINE

The Creighton Athletic Association Christmas party was held at the Creighton Employees Club, and some 500 kiddies from infants to 12-year-olds were treated to two showings of a feature film entitled "The Lonesome Trail", in full color and with a Lassie type dog in the starring role. The show was followed by distribution of candy, nuts and fruits, and a mass rally around jovial Santa substitute Ed Cayen, who is to be congratulated on his usual masterful control of the situation.

Association chairman Munroe Smith, Bill Dumencu, and mine superintendent Earl Mumford were responsible for organizing the party, and the fine bunch of willing workers on hand to keep things rolling included Dorothy Smith, Muriel Roy, Louise Roy, Catherine Menard, Frank Blum, George Lynn and Billy Peacock.

LEVACK

There were two sessions to the Levack Christmas tree party at the Employees Club, one in the afternoon for the under-fives, and the other in the evening for the six-to-10-year-olds. Mine superintendent Dave Lennie was on hand to welcome both children and parents on both occasions and took the opportunity to suggest that a good Centennial year present for all would be "A whole twelve months of diligent safety consciousness, to ensure a Merry Christmas for the children this time next year."

All told, 2,500 kiddies paraded past Santa Sam Williams, who handled the throng in his usual, calm, cool and efficient manner. A surplus of some 500 gifts was donated to various local churches and the Retarded Children's Association. Mine supervision took a leading part in raising the funds for purchases, and the local Boy Scouts also pitched in as helpers at the party. Chairman Harvey Nadeau's enthusiastic committee from the Athletic Association included Gordon French, Hank Derks, Ray Abrahams, Ron Corelli and many others too numerous to list.

FROOD-STOBIE

The very successful Frood-Stobie Christmas tree party was held at the Sudbury Employees Club, starting at 11 o'clock and ending 4,000 youngsters and five hours later. Dave Gilbert donned the Santa suit for the occasion and did a wonderful job. He was able to take time out once in a while during the showing of movie cartoons. The inner man and child was not ignored, and mounds of sandwiches, cartons of potato chips and gallons of coffee were consumed by parents and excited Santa seekers.

Eldred Dickie was in his usual place at the helm, and the party committee included willing workers Charlie Cranston, Garnet Milks and Bill Prince. Grace Dickie was in charge of toy purchases, and prominent among the many volunteer helpers at the party were Wes Johnson, Bob Brown, Bob Christie, Joe Witty, Findlay McLeod, Vic Leroux and Ingrid Dobson.

LAWSON QUARRY

The school board of Whitefish Falls and Willisville played host to 75 youngsters from grades one to eight at the St. Augustine School at an evening Christmas tree party. Parents and pupils alike were entertained by a program performed by the children and prepared by principal Robert Outram and teacher Edo Deweert. A very successful Santa, Donny MacDonald, not only provided the ho-ho-ho, but also took time out to cut the tree that he presided over.

Candy and fruit for the kiddies were given by the ladies auxiliary of St. Augustine Church, the school and the tree were expertly decorated by Bill Gibson, Herb Burley and Lloyd Spry, and the ladies who helped Santa with the distribution of toys provided by the school board were Betty Silver, Rhea Williamson and Marion Stump.

PORT COLBORNE

More than 1,100 of Santa's enthusiastic admirers turned out to the big annual Christmas tree party at the Inco Recreation Hall, where they were warmly welcomed by the chairman, Charles Ott. A singsong of carols and popular songs was led by Michael Thompson with Reg. Steeves at the piano, and was followed by a hugely enjoyed performance by Hugo the Magician.

Santa (Wesley Pierce) and his helpers, Norm Hillier, Jim Walter, Bob Duke, Charles Ott, Elmer Somers, Don Wilson, Elmer Anger, Jerry Doan, George Liddon, Paul Radzikoski, Joe Dulaj and Rick Castle, gave out candy to all the children.

Appointments

(Continued from Page 5)

superintendent of research at the nickel refining division in 1944 and four years later was made assistant superintendent of research at Copper Cliff. In 1956 he became superintendent of research. He was transferred to the Company's offices in Toronto in 1960, as manager of process research (Canada).

Born in Copper Cliff in 1913, he received his Bachelor of Science degree in 1935 and a Master of Science degree in 1936 from Queen's University, Kingston.

PAUL E. QUENEAU

Mr. Queneau has been technical assistant to the President of The International Nickel Company of Canada, Limited, since 1960. He became vice-president of The International Nickel Company, Inc., in 1958.

He joined International Nickel in 1934 as a member of the technical staff at Huntington, West Virginia. Three years later he was transferred to Copper Cliff as a research engineer and in 1941 was placed in charge of research there.

In 1948 Mr. Queneau was appointed metallurgical engineer, and in 1958 was elected assistant vice-president of The International Nickel Company of Canada, Limited.

Born in Philadelphia, Pennsylvania, in 1911, Mr. Queneau graduated in engineering from Columbia University, holding three degrees from that institution. He also took advanced studies at Cambridge University, England, in 1934, as an Evans Fellow.

In his new position Mr. Queneau will be concerned, in the present period of rapid technological progress, with the development and application of new processes capable of assuring the highest order of economic utility for the Company's extractive metallurgical operations. He will keep the chairman directly advised.

JOHN A. PIGOTT

Mr. Pigott has been general manager of the Ontario division since April, 1965.

He joined the mines engineering department of International Nickel at Copper Cliff in 1940, and became mines production engineer in 1946.

He was made divisional foreman of Creighton Mine in 1950, became general foreman of the mine one year later and underground superintendent of Creighton Mine in 1954.

He was appointed assistant superintendent of mines at the Ontario Division of the Company in 1957, after having served for a short time as assistant superintendent of Frood-Stobie Mine. In 1958 he was appointed superintendent of mines of the Ontario Division, and in 1962 was appointed assistant general manager of the Ontario division.

Born in Meaford, Ontario, in 1917, Mr. Pigott attended Sudbury High School and received his Bachelor of Science degree in mining engineering from Queen's University, Kingston, in 1940.

HARRY W. PETERSON

Mr. Peterson has been general manager of the Manitoba division since April, 1965.

Research Department Enjoyed Christmas Party at the Sheraton-Caswell



The Regency Room at the Sheraton-Caswell Hotel was the scene of a merry Christmas party for members of the Copper Cliff research department staff and their wives. Following a gourmet dinner the guests enjoyed dancing to the music of Leo Miemi's orchestra. In the table group shown above are Mrs. Nadia El Shazly, Mrs. Irene Pigott, Mounir El Shazly, Dr. Michael Sopko, Lillian and John Weloski, and J. A. Pigott.



At another table were Mrs. Jarka Opratko, Julie and Alec Illis of Toronto, Betty and Ken Kay, Stan Wolynsky, Dr. Richard Lloyd, and Val Opratko.



Also enjoying the research department's Yule festivity were Ruth and Hugh Ross, Madeline and Archie Frame, Rose and Konrad Schiika, and Jean and Cec Baxter.

He joined International Nickel in 1944 at the Murray Mine. In 1951 he was appointed general foreman of the Frood Mine and became assistant superintendent of the Murray Mine three years later. He was appointed superintendent of the Frood-Stobie Open Pit Mine in 1957 and in 1958 was promoted to assistant superintendent of mines at Copper Cliff.

Mr. Peterson was transferred to Thompson in 1959 as superintendent of mines of the Manitoba division. In 1962 he was appointed assistant general manager of the Manitoba division.

Born in Grenfell, Saskatchewan, he graduated from the University of Toronto with a Bachelor of Science degree in mining engineering in 1944.

KENNETH H. J. CLARKE

Mr. Clarke has been manager of Canadian sales and market development since 1957.

He joined International Nickel in 1936 as a metallurgical engineer in the Copper Refining Division at Copper Cliff. In 1938, he became assistant manager, Canadian sales, with headquarters in Toronto.

During World War II, Mr. Clarke

served as deputy administrator of non-ferrous metals (primary), for the Wartime Prices and Trade Board in Ottawa. During the Korean conflict he also served in Ottawa, directing non-ferrous me-

tals allocations and conservation.

Born in Toronto in 1911, he was graduated from the University of Toronto in 1936 with a Bachelor of Applied Science degree in metallurgical engineering.

Vic Hillen's Greeting

A unique Christmas greeting was received by the boys in the metals section of the accounting department at Copper Cliff.

The Della Robbia wreath being admired by the section's chief accountant, J. W. 'Manny' Haines, assistant chief George Syer

and the youngest member of the department, Dick Beaver, was sent by a retired member of the section, Vic Hillen, who has lived in California for the past six years. Vic is currently working as accountant for the Boys' Republic, a self-supporting farm school in the town of Chino for boys with adjustment problems. The wreaths are made for sale by the boys and are decorated with a variety of dried fruits and flowers that are collected from the valleys and the mountains of their sun-drenched state.

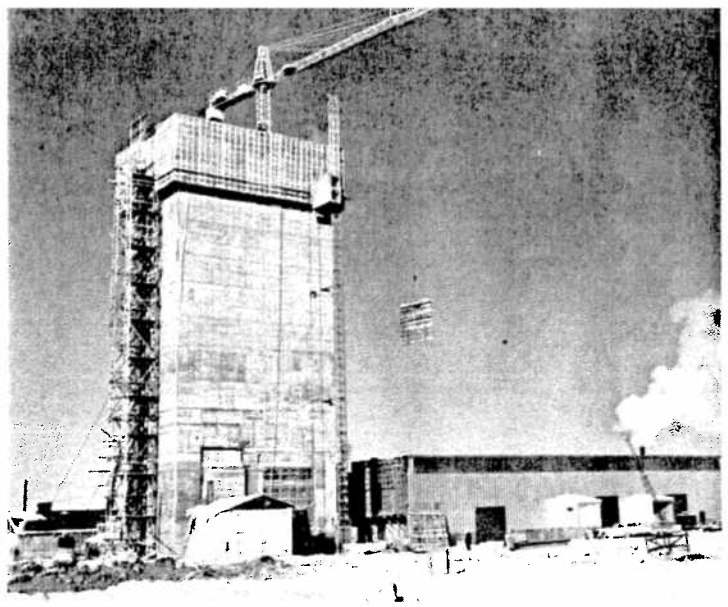


MORE GREAT GROWTH AT THOMPSON



New Mines

Taken in March, 1961, the above picture shows the temporary buildings erected by Inco at Pipe Lake, near Thompson, for exploration of a newly discovered orebody. Found too low-grade for economic development at nickel prices heretofore prevailing, the Pipe Lake ores are now part of a huge Inco project involving related costs of \$100,000,000. Other new mines under development by Inco in the Thompson



district of northern Manitoba are the Birchtree and the Soab. Picture at the right shows the 200-foot concrete headframe going up at Birchtree no. 1 shaft. A Helde climbing crane and a 12-passenger Alimak elevator are part of the construction equipment. Koepple hoists will be installed at the top of the headframe.

New Air Terminal

Thompson's new air terminal is one of the most modern in western Canada. When installations are complete it will provide not only 24-hour ground-to-air radio and meteorological service for all aircraft in the area, but also the most up-to-date directional landing facilities for instrument landings in bad weather.

Also shown on the right are those taking part in the official opening of the new facility. Speaking is Carl Nesbitt, local government district administrator, and behind him are H. W. Peterson, general manager of Inco's Manitoba division; T. M. Gaetz, Inco assistant vice-president; Hon. Sidney Spivak, Manitoba minister of industry and commerce; Rev. Donald Duff; W. E. Fen, representing the federal minister of transport, Mr. Pickersgill; C. W. Burgess and E. Thornhill, executives of Trans-Air Limited, which provides daily air service to Winnipeg.

The original airport facilities at Thompson were established by Inco, which transferred them to the Department of Transport for development, with operation by the Local Government District.



Full Facilities

Thompson's solidly established business and commercial section has kept pace with the rapid growth of the town and offers fully modern urban facilities. The handsome new federal building, the recreation complex, the model hospital, schools, and municipal utilities, and many other auxiliary facilities, round out the amenities of life in this thriving young metropolis of the North. Picture shows part of the Safeway store, located in Thompson's second large shopping plaza.