

INCO TRIANGLE

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NUMBER 7



Sharing the Spotlight

(SEE PAGE 10)



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Don M. Dunbar, Editor.
Editorial Office Copper Cliff, Ont.

Toivo Kauppinen Long at Levack

"Strictly for the wolves" was Toivo Kauppinen's first impression of the Sudbury district, and after 45 years in this part of the country he still feels it is for the wolves — the Sudbury Wolves that is.

He wouldn't trade the happiness he has enjoyed at Levack for all the rice in China or coffee in Finland.

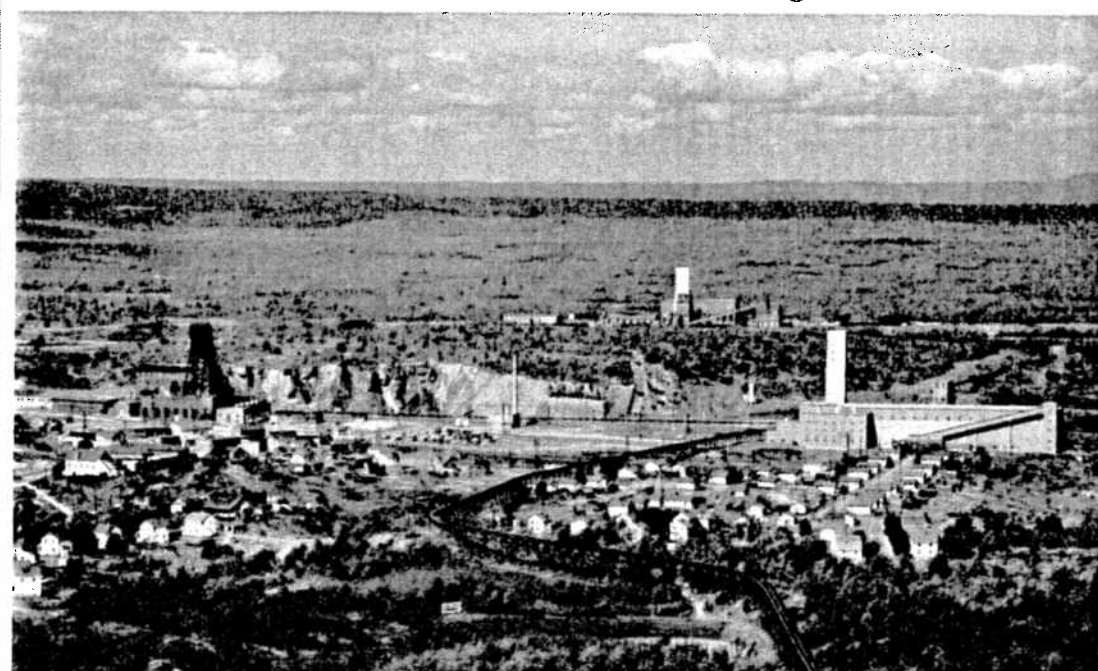
Coming to Canada alone in 1911, knowing not a word of English, a few years and several correspondence courses later saw him Levack's chief electrician with a command of the language envied by many a native-born resident. That all this did not come easily Toivo is ready to admit, but while he studied he also helped sink shafts, repaired drills, and ran hoists and compressors among many other mine jobs, and gradually success smiled on him.



Mr. and Mrs. Toivo Kauppinen

Born in Finland in 1891, Toivo was 20 when he landed in North Bay, although why there he never has been able to determine. Within a matter of days, however, had found his way to Sudbury and was running a drill helping sink Frood No. 4 shaft. The fact that he hadn't even a nodding acquaintance with drills or shafts previously didn't prevent him from drilling the cut helpers in the round on his first shift. The next three years were spent there and at Kirkwood mine where among many other jobs he became a hoistman after roughly one hour of instruction. Twelve-hour shifts were the vogue in those days, with one hoistman doing a 24-hour marathon every Sunday on the change of shifts. Toivo recalled operating the hoist for 48 hours straight on one occasion when his partner failed to show up. No indicators in those days either, he said, just wire marks on the hoisting rope.

Early in 1915 Toivo was told to report to Levack, where the late Frank Eager was superintendent. Operating the compressors there and studying electricity at home, he then took a six month course at a New York electrical school. Shortly after this he was placed in charge of Levack's electrical work, where he remained until his



George Hunter

This striking aerial view shows the surface plants at Creighton mine and part of the town. On the left, is No. 3 shaft, alongside the old open pit which is now part of the mine's caving operation. In the background is No. 5 shaft, serving the lower levels of the mine, and at the right is No. 7 shaft, in which ore mined by the caving method is hoisted directly into the concentrator. The trestle leading into the foreground carries the tailings disposal line and also the pipeline in which the concentrates are pumped 7½ miles to the reduction plants at Copper Cliff.

retirement. He likes to recall that in the early days he was the electrical department himself, with two hoists, two compressors, the rock-house, underground lights and phones in addition to the pole line to maintain. With the installation of new larger hoists and other equipment at Levack additional electricians teamed up with Toivo's influence and eventually a fine electrical department was built up there.

His 35 years in the department saw him supervise the installation of three underground and five surface hoists, four compressors, three substations and five pump stations, along with innumerable routine installations. He was one of the few men retained during Levack's shut-down period and performed a number of varied maintenance jobs in addition to fire guard duties.

Reflecting contentedly on the present pretty town nestling in the deep wooded hills, Toivo recalled that only a few rough boarding houses and a handful of other dwellings made up the town when he arrived. Selma Norrena, whom he married in 1919, was the daughter of one of those pioneer boarding housekeepers, a man who also helped sink old No. 1 shaft at Levack. Mrs. Kauppinen recalled that her mother insisted she give Toivo special care as he was such a nice, quiet studious man, so she made a life occupation of it. They have two sons, Edwin, a machinist at Levack, and Howard. Three grandchildren add much to their happiness.

The caretaking duties at No. 8 men's club in Levack are now handled by Toivo and his wife, so between that, his camp at Windy Lake, and television he feels he will have very little idle time. At

a farewell gathering recently his many friends at the mine and in town indicated the esteem in which he is held by presenting him with a 21-inch TV set. The memory of that event will remain with him for the rest of his days.

Toivo will miss his work at the mine, as it will miss him, but all associated with him hope that he and his wife spend many long, happy years together in retirement.

Kindness is becoming at any age.

Appointments

R. D. Parker, vice-president and general manager, on June 30 announced that R. R. Saddington and E. G. Stoneman had each been appointed assistant manager of reduction plants, to assume their new duties July 1.

J. C. Parlee, manager of reduction plants, announced the appointment of J. N. Lilley as general superintendent of smelters, effective July 1.

Critical Manpower Shortage Discussed



At a conference unique in Canadian history, the country's critical professional manpower shortage was discussed by leading industrialists and educators, and representatives of government, labor, and the professional societies. Initial steps were taken toward encouraging more students to carry on from high school into university, particularly in the science and engineering courses, and expanding facilities for the output of a larger force of skilled technicians. Among those attending were, left to right above, James S. Duncan, Toronto; Dr. W. A. Mudge, special representative on educational programs, Inco; Honorable C. D. Howe, minister of trade and commerce and defence production, Ottawa; Crawford Gordon, Jr., president, A. V. Roe Canada Ltd., Malton.



Mr. and Mrs. Gordon Young (Garson mine) with Patricia, 3½ mos., Timmy, 4, and Rickey, 8.



Mr. and Mrs. Orvil Martin (Port Colborne nickel refinery) with Elinor, 7, Karen, 6 mos., and Margaret Rose, 7.



Mr. and Mrs. Joe Bilecki (copper refinery) with Peter, 1, and Joey, 4.



Mr. and Mrs. Andy Luoma (Creighton mine) with Inga, 16, Julia, 14, Jackie, 8, Elaine, 3 weeks, Malla, 6, Eddy, 18, David, 2, and Martti, 11.

INCO FAMILY ALBUM

Below are Mr. and Mrs. Rod Hill (Copper Cliff smelter) with Jack, 14, and Brian, 11, and Mr. and Mrs. Eugene Brown (Levack mine) with Alan, 4, Gary, 5, and Bobby, 1.



Mr. and Mrs. Roland Brunet (Frood-Stoble mine) with Colette, 3, Diane, 11, Ronald, 8 and Gilles, 12.



The clean-cut surface plant of the Stobie section of Frood-Stobie mine stands about 200 feet from the spot where James Stobie made his discovery of ore in 1885. The property was afterwards purchased by the Canadian Copper Co. It was opened in 1886 and continued in operation until 1901, the workings being mainly open cut. The ore, though not rich, consisted largely of massive sulphides and hence was useful in mixing with more siliceous ores.

Stobie Section Now Biggest Inco Producer

With a daily production of 14,500 tons, the Stobie section of Frood-Stobie mine has swung into the lead as the biggest underground producer in the history of Inco mining. Previous holder of the title was Creighton no. 7 shaft with its daily output from that mine's caving operations of 11,500 tons.

Although the Stobie section has not yet hit the maximum production for which it was designed, development work has reached the stage where all three main producing levels, 600, 1,000, and 1,400, are pulling their share of the load on a firmly stabilized basis. This unit of Inco's mining activities is now capable of its scheduled production for many years to come.

The Stobie plant is viewed with particular pride by the mines department because it incorporates so many of the major developments in Inco mining over the past few years — automatic hoists, bottom dump skips, huge underground transportation equipment, twin shafts for flexibility in hoisting schedules, ice stopes for air conditioning the ventilation system — to name a few, which have all been subjects from time to time of feature stories in the Triangle. Even the 4½-inch longhole carbide drill now in general use throughout the world owes some

of its outstanding features to Inco drill research work for the blasthole mining program at Stobie.

The accompanying picture of the Stobie section of the Frood-Stobie open pits shows how underground mining by the blasthole stoping method has taken over from surface mining in the complete recovery of the orebody.

When surface mining had progressed to the point where it was no longer economical, in August of 1951, the Stobie section was 1,400 feet long and 1,000 feet wide at yard level, and 338 at its deepest point. From it had been taken 12½ million tons of ore, in the safe mining of which it had also been necessary to extract 10 million tons of rock.

The openings now showing in the bottom of the pit are blasthole stopes which have been mined through from the 600 level of the underground operations. The network of supporting pillars left between the stopes will later be drilled, blasted, and removed. The two churn drills are drilling holes for the recovery of ore which had been tied up by the main haulage road out of the pit.

The indentation to be seen along the far side of the fourth stope is what is left of one of the drifts from which drilling was done in the mining of the stope. These drifts run along each side of the stope for its full length, there being several such pairs from the bottom to the top of the stope, one above the other, 100 feet apart. From the safe vantage of the drifts are drilled fans of blastholes varying in length from 30 to 150 feet which, when blasted, will result in a 6-foot slice of ore being



Blasthole stopes are being mined through from underground to the bottom of the Stobie section of the open pits, where surface mining was concluded in 1951.

broken the whole height and width of the slope face, which is 90 feet wide. Falling to the bottom of the slope the ore fills the boxholes feeding the slusher drifts, from which it is scraped directly into cars to be hauled away to the crushers.

There are from 30 to 40 of these huge stopes regularly in production in the mine.

The daddy of all understatements is to say that Inco's mining operations are no hand-to-mouth proposition. And there couldn't be a better example than the Stobie of how true this is.

It was back in 1940 that the Company's executives studied their long-range ore depletion schedules, took a look at the steadily rising curve of nickel's usefulness to mankind, and reached for their geological maps and reports. Development of the Stobie property was quickly decided on, setting in motion a program which would require years of work and the expenditure of millions of dollars before a pound of ore would be produced.

Although an extension in the life of the open pit operations, and the scarcity of manpower available for development work in the new mine during the Second World War, resulted in a revision of the original schedule for the Stobie section, nevertheless it was due to the Company's policy of long range planning that this great mine was ready to swing into production when it was needed to maintain the flow of nickel to the free world.

THESE WILL I REMEMBER

These will I remember

When winter comes again:

Tall grass rolling in the wind

And glistening in the rain;

Wooded slopes and mountain peaks,

And white clouds flying;

River days and ocean ways

And the sad gulls crying.

I will hug my fireside

And draw my shoulders in,

Spread my hands and watch the gold

Of summer leave my skin;

Shake my head and bite my lip,

And fall to dreaming

Of beach days and ocean ways

And the mad gulls screaming.

LEN G. SELLE

(In the Toronto Star)



Stainless Steel At Cliff's Dairy

To make sure that the milk they market is pure, many up-to-date Canadian dairies use milk-handling and processing equipment made from stainless steel containing about 8% nickel.

This stainless steel has a hard, corrosion-resistant surface that is easy to clean.

Logically enough, complete stainless steel equipment has been installed at the Copper Cliff Dairy, which stands within mooring distance of the huge reduction plants where nickel is produced.

"Naturally we're proud of our plant," says Bill Johnson, the dairy manager. "We went all-out to make it an all-stainless operation."

Right from the raw milk dump tank and accumulating tank, through the pumps, pipes, and filter to the 500-gallon refrigerated holding tank and then on to the flash process pasteurizer, the coolers, homogenizer, bottle filler and capper, and all other equipment features stainless steel. The hot milk clarifier and separator contains approximately 150 parts that come in contact with milk, and they're all made of stainless.

Copper Cliff Dairy's herd of purebred Holsteins grazes within sight of Copper Cliff smelter's three stacks and, on the right, the new iron ore recovery plant.



The dairy's gleaming milk-handling and processing equipment features stainless steel containing nickel that was milled and smelted in the reduction plants nearby. Leo Nurmi is seen adjusting the clarifier and separator, and George Hill is operating the bottle filling machine.

PRETTY CARELESS

Mrs. Weisenheimer — Are you the young man who jumped into the river and hauled my son out when he fell through the ice?

Young man — Yes, ma'am.
Mrs. Weisenheimer — Where's his mittens?

QUICK QUIZ

1. The mineral-rich Canadian, or Precambrian, Shield occupies what proportion of Canada's total area?
2. How many cases of measles were there in Canada last year?
3. Ranked by value, name the five leading products of Canada's mining industry.
4. Which of the provinces has the greatest area of fresh water?
5. Ranked by population, what are the five largest cities in Ontario?

ANSWERS: 3. Crude petroleum, copper, nickel, gold, zinc. 1. Nearly half. 5. Toronto, Hamilton, Ottawa, Windsor, London. 2. There were 56,922 cases of measles reported to Canadian medical health officers in 1955, 20,000 more than 1954. 4. Quebec, 71,000 square miles.

(Material prepared by the editors of Quick Canadian Facts.)

Laurie Boulet Pitches Machine Shop to Shift Softball Title



Behind the sensational pitching of evergreen Laurie Boulet, Machine Shop were invincible in the playoff for the Copper Cliff shift softball league championship. They trimmed Nickel Reverbs three straight for the title. In this picture their captain, Owen O'Reilly, receives the Darrach trophy from the league president, Tony Bertrand. Members of the team shown are: front row, Mike Narduzzi, Bill Yeo, Rusty Duberry, Ron Matte, Bill Osterwalker, Leno Antoniazzi, Art Wulff; back row, Harry Belay, Eddie Kotulyk, Lawrence Cavanagh, Joe Sauve, Bernard Leclair, Charlie O'Reilly, Laurie Boulet. Seven teams were in the league.

Inco Club Again Season's Host to Port Colborne Teen-Agers



The Triangle camera "stopped" some fast action in these pictures taken during the opening teen-agers' night of the season. In the first shot the badminton bird was caught by the lens in the split second as it turned after being struck by the racquet. In the second picture the ball seems to have paused for a rest on the bat in the table tennis match, and in the snap on the right another bird is just going to get it — but good.

350 Attended Opening Night

Port Colborne teen-agers are back at the old stand for what shapes up as another rousingly successful season.

No special advertising was needed to drum up a crowd for the opening night's activities at the Inco Recreation Club on October 13. During the week the word spread swiftly over the teen-ager grapevine, and 350 boys and girls were on hand to get things going in a big way.

Every other Saturday through to April, with time off for Christmas, the Inco club will be host to the town's teen-agers, often as many as 500 at a time, inviting them to make full use of its facilities including badminton, bowling, table tennis, and dancing. For the grand finale on April 19 an orchestra will be engaged.

"They're a fine bunch of young people, and we're glad to have them back with us again," said Alex McNay, the club manager.

The check room will again be operated by Thos. Lannan chapter, IODE, on teen-ager nights, a service much appreciated by both the young people and the club management. Mrs. Owen Seger and Mrs. Fred Schulze were on duty on opening night.

Members of the Recreation Club committee and their wives take turns helping with the teen-ager programs. Chris McPhail, the chairman, and Mrs. McPhail, were present October 13.

Although most of the young people come from Port Colborne, the Inco teen-ager parties often attract visitors from Dunnville, Welland, Niagara Falls, and other nearby centres. Their presence seems to point up the fine community service which is being accomplished by this popular project.



On the left, two young stags leave their jackets at the check room operated by the I.O.D.E. On the right a quartet enjoys "the pause that refreshes" between dances.



Part of the opening night crowd is seen in this view of the auditorium as the dance session swings into high gear. Both "sweet 'n' slow" and "rock 'n' roll" numbers are popular with Port Colborne's teen-agers.

Special Reception Held for New Quarter Century Club Men



25-Year Club Welcomes 222 New Members

Another fine evening of fellowship went into the records of Inco's Quarter Century Club September 28 when more than 1,200 attended the annual dinner meeting and concert at the Sudbury Arena.

Given a standing ovation were the 222 new men who qualified to enter the select circle of 25-year Inco employees. They had received their club membership buttons in an earlier ceremony at the arena, with Henry S. Wingate, president, and Ralph D. Parker, vice-president and general manager of Canadian operations, doing the honors.

"You are the nucleus of the Nickel Company," the president said in expressing the Company's appreciation to the members of the Quarter Century Club, both old and new, and the pensioners. "You are the central group which has made possible the international good reputation our Company enjoys today."

It was the biggest banquet in the history of Sudbury. The general women's association of St. Andrew's United Church cooked 1,800 pounds of turkey and served it smoothly and smartly with dressing, cranberry sauce, gravy, turnips, potatoes, sliced tomatoes and rolls, topped off by two kinds of pie. There were 80 women waiting on the tables and another 70 busy in the kitchens set up at both ends of the huge auditorium.

A concert party from Toronto headed by Ron Leonard, magician and master of ceremonies, provided thoroughly enjoyed entertainment. Especially popular was the singing of Betty Weir, an eye-soothing soprano.

The 222 new members formed the second-largest group yet welcomed to the Quarter Century Club, exceeded only by last year's 269. They increased the total membership in Canada to 1576, inclusive of those qualifying this year at Port Colborne. Of these Inco employees with 25 or more years of service to their credit, 1,251 are active and 325 are retired. The club also has 706 members in the United States and

At a special ceremony in the arena, preceding the banquet, membership buttons of the Quarter Century Club were presented to the 25-year men of 1956. In the first picture, President Henry S. Wingate congratulates John Antola of the Open Pit on qualifying for membership. The centre picture shows Charlie Byers of Copper Cliff being welcomed by Vice-President Ralph D. Parker; facing the camera is James C. Parlee, manager of reduction plants. Herb Shoveller, copper refinery is greeted by Mr. Wingate in the picture on the right, after being introduced by Russell Hæwgill, centre, manager of the copper refining division.



The new 25-year man exchanging greetings with Mr. Parker in this picture is John Maricjash of the Copper Cliff plant; next in line is Alfonso Bozzer, also of Copper Cliff, and after him is Nelson Bellmore of Murray mine. In the background is Herman J. Mutz, manager of mines.

785 in the United Kingdom and Europe, making a grand total of 3,067.

The incoming members for 1956 did not necessarily join the Company in 1931. R. D. Parker pointed out in his brief address. Most of them had become Inco men earlier but during the depression were on temporary layoff which did not count in their service records. That they returned to their jobs when times picked up again, he said, reflected their good judgment and also spoke well for the Company which attracted them back into the fold.

Along with other developments the past 25 years had seen the Orford process moved from Port Colborne to Copper Cliff and eventually replaced by a new process, the introduction of flash smelting, a new mill built at Creighton, the iron ore recovery plant put into operation, and the

open pit come and practically go. Production from the mines had increased from 1½ million tons in 1931 to 15 million tons annually. Inco's international organization had grown from 6,000 employees in 1931 to 26,000. In 1931 the Company sold 55 million pounds of nickel, in 1955 five times that much.

In countless ways during this eventful period, Mr. Parker said, Inco's products had helped push back the frontiers of richer and fuller living — new and improved household equipment, for example, television, wonder fabrics like nylon and dacron, jet aircraft, or the life-saving miracle drugs.

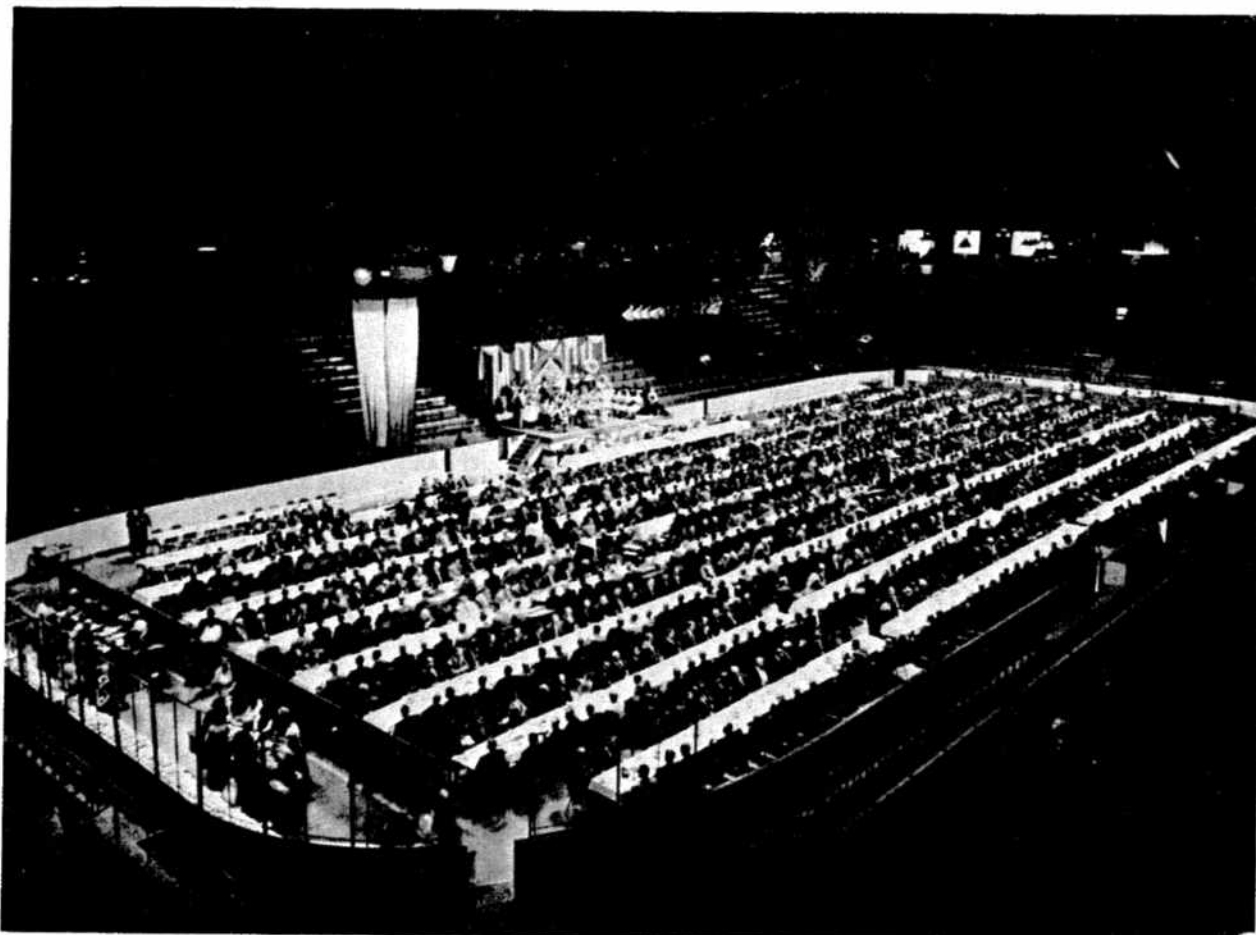
Prospects and problems of the future were discussed by the president, Mr. Wingate. "Unfortunately the demand for nickel doesn't just sit there and wait until we can catch up with it," he said. The producers of several

other metals were looking for every opportunity to take business away from Inco by supplying substitutes for nickel. "That's the reason we have our army of research workers out fighting to hold the ground."

Another serious source of competition, said Mr. Wingate, is seen in the development of the nickel deposits in Cuba, which are bigger than those of all the nickel companies in Canada put together. Although the ore is more difficult to treat than Canadian nickel ores, the project is getting help from the United States government in the form of process research as well as in other forms. This encouragement is being given because the U.S. is anxious for strategic reasons to have an important source of defence-vital nickel other than Canada. The low standard of liv-

(Continued on Page 11)

With the Triangle Camera at the Biggest Inco Quarter Century Club Meeting Ever Held



Although this year's gathering of more than 1,200 was comfortably accommodated with something to spare, it didn't take a crystal gazer to predict that the day will come when even the Sudbury Arena won't be big enough to hold the annual dinner meeting of Inco's Quarter Century Club for the mining, reduction, and copper refining divisions. Above is a photograph of the 1956 party. On the stage is the Coniston band, performing under the baton of Dan Totino, while behind the screens at either end of the rink the busy ladies of St. Andrew's Church get their assembly lines in action to serve the biggest banquet in the history of Sudbury. Colorfully impressive as was this scene, it became one of solemn beauty when the lights were dimmed, and a silver spotlight picked up the big Quarter Century Club crest, and everyone stood up for the moment of remembrance.



Nearest the camera in the snapshot on the left is Barney Hamilton of the electrical department at Copper Cliff. On the right, getting a big kick out of the stage show, are Teddy Moroz of the copper refinery and three Froodians, Steve Nykilezyk, Pete Zelonka, and Joe Martin.



Russell Hewgill, m division, and Norm relations, rigged out trick spectacles, wai roars of laughter w



Above and to the right, a few of the hundreds of Copper Cliff, appeared to have had credited service of he was pensioned in



of the copper refining
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with the gag and drew
antics.



table shots showing a
dance. William Zinkie
bove at bottom right,
rs and 2 months when



"The Other Half of the Team"



The first man to join the Quarter Century Club from the new iron ore recovery plant was Alex Blanchard. In their home at Lively his wife and two of their daughters, Nancy, 7, and Lynn, 12, admire their roses.

Wives of the 222 new members of Inco's Quarter Century Club shared the spotlight with their husbands.

"I would like you to know that we recognize, and deeply appreciate, the part you have played in establishing this very fine record," wrote Vice-President R. D. Parker in a letter accompanying a bouquet of roses sent to the partner of

each of the new 25-year men prior to the big banquet at the Sudbury Arena.

The wife of one of the new members, Mrs. Hjalmar Stavang, appears on the cover of this issue, and others are seen in the accompanying pictures. As the vice-president has said previously, they represent "the other half of the team".



Three sisters whose husbands all became Quarter Century Club men this year were Mrs. Reno Serafino (Copper Cliff carpenter shop), Mrs. Victor Alberton (Coniston smelter), and Mrs. Tony Franceschini (Murray mine). Christened Julia, Angeline and Jean, they are daughters of the late Wm. Chezzi of Coniston, who was an employee of Mond Nickel Co. for several years.



Wife of the storekeeper at Levack mine, Mrs. Ted Lawrence was photographed with her mother, Mrs. May Walker.



Reading Mr. Parker's letter is Mrs. Pete Oleksiuk of Creighton mine.



This is Mrs. Dick Wiinika, whose husband is employed at the Open Pit.



Representing the Copper Refinery in this group is Mrs. Jack Duncan.



Mrs. Danny Parker's husband is a well-known Frood-Stobie man.



Mrs. Fred Desjardins is the wife of a popular topman at Garson mine.

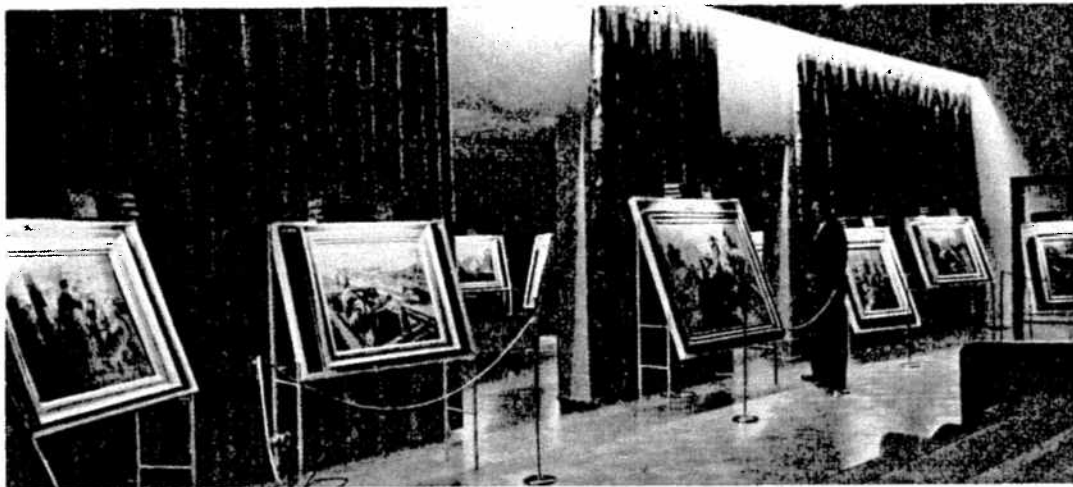


Arranging her bouquet of roses is the charming Mrs. Alex Rivard, Coniston.

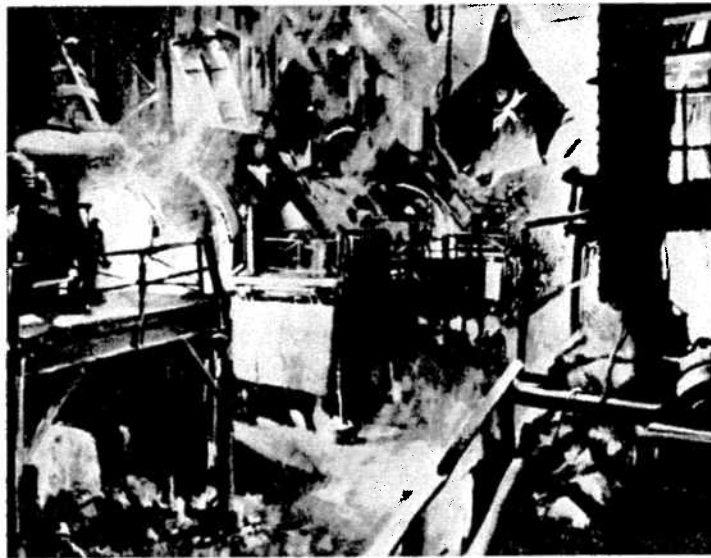
Cuneo's "Portrait of Inco" a Masterly Effort

25-Year Club

(Continued from Page 7)



The Copper Cliff Club (above) and the Inco Employees Club in Sudbury took on an art gallery atmosphere for showings of the Terence Cuneo paintings, which were greatly admired by all.



Triangle readers will remember the above photograph of the distinguished British artist making his preliminary pencil sketch for a painting of the converter aisle in Copper Cliff smelter. At the right is a reproduction of the dramatic finished canvas, which many regarded as the best of his Inco group.

19 Canvases Tell Dramatic Story

A portrait, on 19 separate canvases, of the International Nickel Company at work in Canada, the United Kingdom, and the United States, won unqualified admiration from the hundreds who saw it on exhibition in Sudbury and Copper Cliff this month.

It had long been felt that the importance of the Company's operations warranted a suitable and permanent record—one which would portray the industry but would at the same time be adaptable for other uses. Last year the British artist, Terence Cuneo, was commissioned by Inco to paint the mines and processes in Canada and the United States to supplement the canvases he had already made of the Company's operations in the United Kingdom.

The masterly sense of color and vitality that Cuneo brings to ceremonial and industrial subjects alike is at its glowing best in these paintings that run the full dramatic range of Inco from a drill

scene in a stope 2,000 feet below ground to the massive action of forging hammer and extrusion press in its great end-product works.

Particularly impressive is the versatile Cuneo's ability to indulge his almost photographic gift for detail without sacrificing the atmosphere or stature of his subject.

The Froid-Stobie open pit, miners drilling in a square-set stope at Froid-Stobie No. 3 shaft, miners leaving the cage in the collarhouse at Creighton No. 5 shaft, casting horizontal wire bars at the copper refinery, the decomposer aisle at the nickel refinery at Clydach, Wales, the chemicals department at Clydach, and the wet process section of the precious metals refinery at Acton, England, all respond to the magic of Cuneo's brush in this portrait of an industry.

Other scenes in the United Kingdom are the extrusion press at the Hereford works, the melting shop, universal mill, and rod mill at Birmingham, and the extrusion press at Glasgow. At Huntington, West Virginia, Cuneo chose the forging hammer and the rolling mill, and at Bayonne,

New Jersey, the ramming mould. Testing of magnetic alloys in an Inco development and research laboratory, the atmospheric corrosion testing station at Kure Beach, North Carolina, and the sea water corrosion testing station at nearby Harbor Island, complete this powerful portrait of an industry.

Ten other paintings by Cuneo, loaned for the Inco exhibition, included the visit by Queen Elizabeth to lay the foundation stone of Lloyd's new building in London in 1952, and a reproduction of his canvas of the coronation ceremony, personally autographed for him by the Queen.

Those who knew of Cuneo's habit of hiding an extra "signature" in most of his paintings in the form of a very mischievous-looking little mouse, enjoyed the game of discovering it in its carefully camouflaged positions. They also noted with amusement the full dress portraits of Brigadier-General Sir Terence Vole-Souris, hero of the 'traps' and commander-in-chief of the 43rd Rodent Light Foot, and his lady, Catherine Vole-Souris, 16th Duchess of Roquefort and Brle.

ing in Cuba, where rates of pay are greatly inferior to those at Inco, would also strengthen the competitive position of the Cuban nickel industry, Mr. Wingate pointed out.

"Our job is to keep the demand for nickel so big that no matter what happens in Cuba we will have a market for all we produce," the president declared, adding that he was confident this could be done through selling plus research.

Speaking briefly of the Company's never-ceasing activities to maintain its ore reserves, Mr. Wingate said he was very optimistic of important nickel production being obtained from another location in Canada other than Sudbury. This was apparently a reference to the Company's exploration program at Moak Lake in northern Manitoba, where a large deposit of low-grade ore has been located.

"We have had a wonderful 25 years," the president said. He hoped that there would be reasonably comparable growth during the next 25 so that men, management and shareholders of the Company would all be that much better off.

Congratulating Mr. Wingate on his vigorous address, R. H. Waddington, assistant to the vice-president, spoke for the entire gathering when he said it was both gratifying and reassuring to know that the Company's future was being approached "with such foresight, optimism, courage and confidence."

"Instead of losing touch with one another because our Company has grown so large, we have in a sense been brought even closer together over the years through sharing the job of building the International Nickel into the great enterprise it is today," said H. J. Mutz, manager of mines. "In a very personal way our Company represents our life work, our hopes, our ideals, the happiness and security of those we love, and our faith in our fellow men. We stand for it and it stands for us." He proposed a toast to the pensioners of Inco who, he said, "led the way and blazed the trails we now follow." "To them we owe to a large degree the comradeship and mutual understanding that embodies the spirit of our Quarter Century Club."

C. O. Maddock, formerly of the mechanical engineering department at Copper Cliff, replied to the toast and expressed the pensioners' sincere appreciation of the Company's solicitude for their welfare. He praised the Inco retirement plan as being "away out in front."

The arena lights were dimmed while a moment of remembrance was observed for deceased members of the Quarter Century Club.

The Coniston Band, augmented by some members of the Sudbury Band, played a pleasant selection of numbers during the dinner under the baton of Dan Totino.

All who assisted in handling the multitude of details in connection with the big event were fully entitled to the satisfaction of a job well done. It was a very successful party.

Four Straight For Creighton

As Don Mackintosh quoth in his column next day, "Revenge is sweet, despite what they say."

When big Bill Kasepchuk's mighty blow sent the ball sailing over the left field fence in the bottom half of the 11th, Creighton Indians evened an old score with Copper Cliff Redmen.

In 1954 the Redmen licked the Indians in four straight games for the Nickel Belt senior baseball championship and the Monel trophy. Kasepchuk's clout the night of September 25 gave the Indians their fourth straight victory over the Redmen in the 1956 championship series.

So lightning sometimes strikes twice in the same place, but it doesn't necessarily hit the same people.

The win was doubly sweet for Creighton because, like Coniston Red Sox, last year's champs, they were a fourth place club at the start of the playoffs. They suddenly caught fire and won eight consecutive games.

A life member of the Nickel Belt baseball league, Harry Towns of Murray mine, presented the championship trophy to the Creighton coach, Earl Brandy.

Proud of His 27 Years of Service

With a sincere "thank you" to both the Company and all his supervision, Jack Semeniuk retired recently on service pension, proud of his more than 27 years of happy and profitable association with



Inco. His one regret is that he didn't join when he first came to this country.

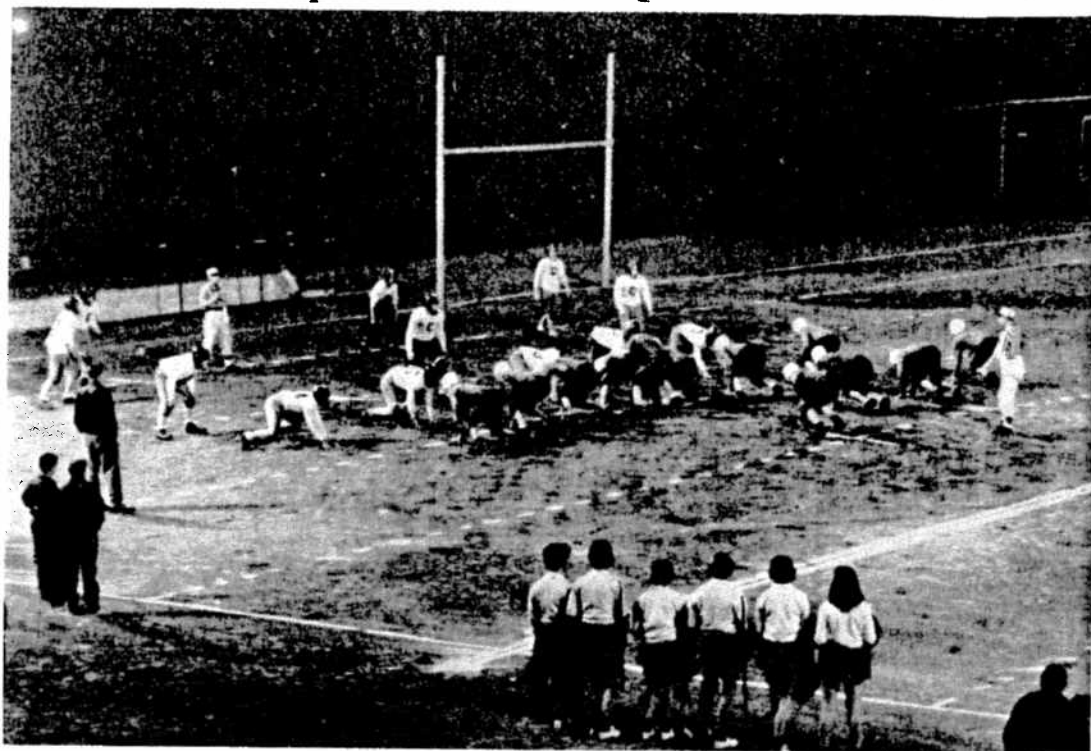
From a farm in the Ukraine to a friend in Montreal came Jack in 1914, seeking his fortune.

In Toronto and Hamilton he spent the next six years at various jobs. Then, tiring of city life, he took up farming near Dill and remained there until early in 1929 when he was hired by Inco at Copper Cliff. All of his 27 years with the Company were spent in the transportation department, and a more dependable trackman would be hard to find.

Jack was married in 1918 but his wife died in 1932. Of their five children Michael and Olga are in London, Bill is employed at the iron ore plant, Fred at Frood-Stobie no. 3 shaft, and Nick in the converter department at Copper Cliff. Jack lives with his son Fred in Sudbury. He has nine grandchildren who are the joy of his life.

In excellent health, he is thinking of taking a part-time job to fill in the time. He's not even considering a holiday trip back to the land of his birth because, as he sees it, Canada is the best Country in the world — so why leave?

An Autumn Sports Scene at Queen's Athletic Field



Under the lights at Queen's Athletic Field the Sudbury and Copper Cliff high school juniors are seen here in an interscholastic football match which Sudbury won 16-5. On the play following the one in the picture they went over for their third touchdown, to the delight of their cheerleaders, who are poised for action in the foreground. St. Charles looms as the likely winner of the junior league, while Tech seems sure to cop the senior title.



Mrs. Hartwigen points out a picture of a familiar scene in Bergen to her brother and his wife. It was their first meeting in 30 years.

Happy Reunion for the Nelsons

Ben Nelson of the engineering staff at Copper Cliff never quite got around to taking a trip back to his old stamping ground in Norway, so he hadn't seen his sister, Mrs. Erna Hartwigen, in 30 years when she came to visit him last summer. It was quite a reunion.

Ben and his wife and sister were all born in Bergen, a Norwegian city of about 130,000 people. A branch of his family was one of the original families founding Durban, in South Africa, and Mrs.

Hartwigen had visited there before coming to Canada, giving her an extra budget of news to bring to the Nelsons.

A gift Ben will long treasure, and one that helped bring him up-to-date on doings in the old home town, was a pictorial souvenir brought to him by his sister entitled "Det Gamle Bergen" (The Old Bergen). A tatted table centre piece made by Mrs. Nelson's brother almost 30 years ago was another prized memento Mrs.

Hartwigen carried with her. Tattling gets its name from the Icelandic word "tata", meaning "to pick", she explained in conversation with the Triangle; it is a fine art in Norway, where it is very popular among the women.

If every Norwegian is as great a booster for his country as Mrs. Hartwigen, Norway has no need of a travel bureau. "My country is the best in the world today for a vacation at any time of the year," was her opinion. The mountains are a mecca both winter and summer, she said, and the hospitality is unexcelled anywhere. She found northern Ontario much to her liking because scenically it reminded her a good deal of home. Both Canada and the United States (which she visited briefly), were much as she expected — with one exception. The discovery that everyone here doesn't own two cars rather surprised her; in European countries it is a common impression that nearly every house in America is adorned with a double garage — loaded.

Ben and Mrs. Nelson spent much of their vacation showing Mrs. Hartwigen some of the beauty spots of Ontario, in which they take pride like hers for Norway, and they think she went home convinced it is a pretty nice place too.

ALL ABOARD

Five Scotsmen decided to go horse back riding, so Sandy went to bargain with the stable owner. Sandy inquired the price of a horse, and the stable owner, before answering, asked:

Stable owner: "How long?"

Sandy: "The longest ye've got. There'll be five of us going."



Undisputed champions of Nickel Belt pee wee baseball this year were Levack Shamrocks, seen here as they received the T. M. Gaetz trophy after defeating Garson Bluebirds in a double-header at Queen's Athletic Field. Frank McAteer, superintendent of Levack mine, presents the trophy to the team captain, Richard Cucksey; on the right is the coach, Frank Doyle.

Levack Shamrocks Undefeated In 32 Games During Summer

Winning their 24 regular league games, six exhibition games, and a doubleheader playoff with Garson without a single loss made Levack Shamrocks feel there was little left to conquer in their class as they proudly accepted the T. M. Gaetz trophy, emblematic of supremacy in Nickel District pee wee baseball. It was whispered, however, that such a winning streak would be all but impossible without the help and favour of those mighty, mysterious sprites, the leprechauns, and the two sons of Erin, Marty Callaghan and Frank Doyle, who managed and masterminded the team, are certain that their exemplary living was solely responsible for such favours.

This past summer, Levack was as usual a hotbed of baseball and softball with three playing fields being taxed to the limit. In softball a league was operated for almost every age group, and in several cases for both boys and girls. Baseball was confined largely to pee wee and midget with the local winner entering the district playoffs. Capreol, Larchwood, Chelmsford and Garson also had

pee wee teams, and home and home games were played throughout the season.

Garson had fine midget and juvenile entries, and both these teams won Nickel District and Northern Ontario championships.

In the pee wee playoffs at Queen's Athletic Field the strong right arm of Levack's Sanford McFarlane proved a little too much for the Garson Bluebirds. McFarlane pitched a 2 hit, 12 to 1 victory in the first encounter and then in a relief role in the second game blanked the Bluebirds in the final two frames. Doyle, Piccalo, Callaghan and Bishop long with McFarlane were Levack's power hitters, giving Garson's Jerry Presniak and Jack McLeod quite a shelling on the mound. Richards, Pietz, McRae, Thompson and McLeod hit well for Garson, with McLeod poling the only circuit clout of the two games.

Lineups were as follows:

LEVACK: R. Frolich, catcher; S. McFarlane, pitcher; D. MacCoy, outfield; E. Bishop, outfield; J. Doyle, shortstop; J. Quesnel, outfield; M. Callaghan, pitcher; M. White, outfield; B. Piccalo, 3rd

base; R. Nadon, 1st base; R. Storey, outfield; R. Cucksey, 2nd base; Martin Callaghan, manager; Frank Doyle, coach; Nick and Steve Doyle, batboys.

GARSON: A. Purala, outfield; R. Rivers, shortstop; B. Thompson, pitcher; J. Presniak, pitcher; R. Noonan, 3rd base; D. Richard, outfield; D. McRae, 1st base; J. McLeod, pitcher; B. Jones, 2nd base; R. Pietz, catcher; A. Dore, manager; A. Noon, coach.

Arctic Doctor Club Speaker

A speaker of unusual interest at Copper Cliff Rod & Gun Club's smoker this month was Dr. J. P. Moody of the Dominion department of Indian affairs, who showed a color film he made in the eastern Arctic while on one of his regular trips as medical doctor to the Indians and Eskimos. Called "Arctic Wonderland", the motion picture is an impressive record of life in the far north.

Dr. Moody, who makes his home at Manitowaning, Manitoulin Island, last year published a book, "Arctic Doctor", which was the

Book-of-the-Month Club selection last October.

Last year he and two companions had to set adrift in Hudson's Bay in a freight canoe after their large boat broke down and was swamped. He has commissioned the building of a new boat at Goderich made entirely of steel, about 60 feet long and weighing close to 60 tons, and powered by twin screw diesels developing a total of 200 h.p. The keel is a deep one, specially designed for Arctic conditions. Other special equipment is an ingenious hoist that will lift the ship off icebergs when it runs aground, which according to the doctor usually happens about twice during his five-month voyage.

Dr. Moody has organized a series of Arctic safaris which have proved to be very popular with scientists, and to a smaller extent with the casual tourist. Bookings for next year's trip have already been made, and will include a fish and bird specialist on the staff of the American Museum of Natural History.

Starting from Little Current the boat will travel via the St. Lawrence, around Labrador, where Dr. Moody expects to board her, and then proceed to the Arctic.



About 150 attended the Copper Cliff Rod & Gun Club's smoker to hear Dr. J. P. Moody. At one of the tables the Triangle camera snapped, from left to right, Garnet Gould, Garson mine; Fred Patterson, Copper Cliff reverbs; Ray Ashick, Garson mine; Lloyd Gould, CNR, Sudbury; Keith Acheson, regional forester, department of lands and forests, Sudbury.

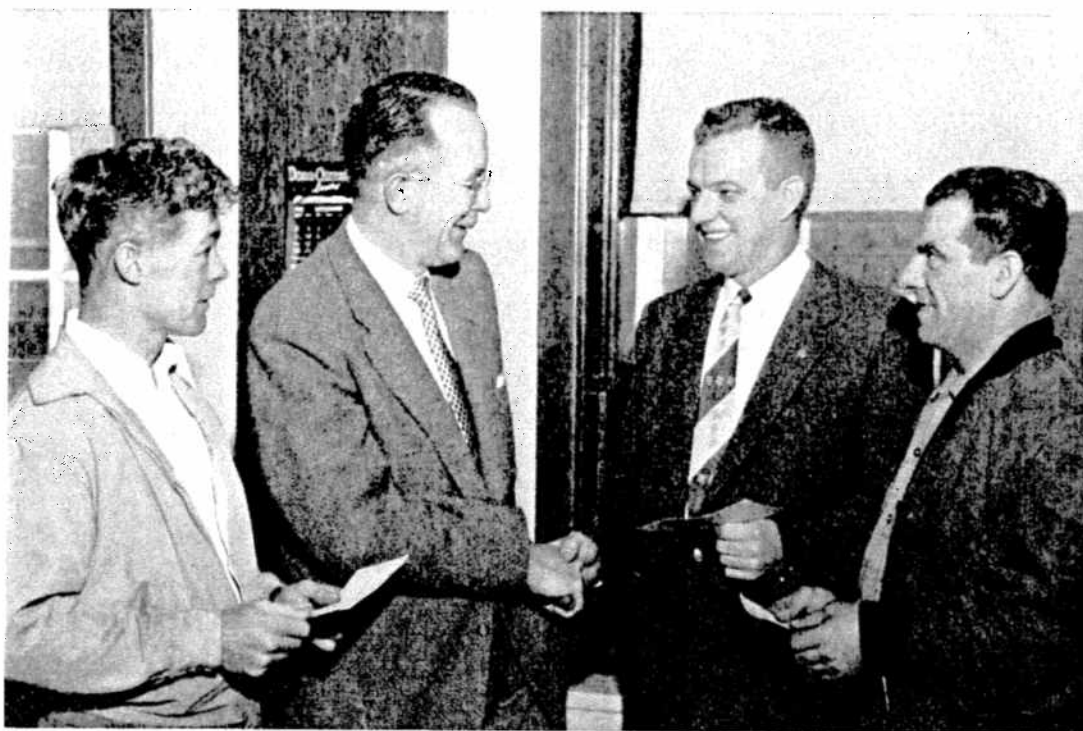


Meanwhile, back in the kitchen, members of the Italian Club ladies' auxiliary were busy preparing the "lunch"—barbecued chicken and pork, smoked oysters, cold cuts, onions, radishes, celery, etc., etc. From the left are seen Mrs. A. Camilucci, Mrs. T. Bertulli, Mrs. A. Didone, and Mrs. T. Rupoli.



"I'll let that one go," said Butch Jones of Garson, and sure enough it was one of the very few balls thrown by Levack's ace chucker, Sanford McFarlane, in the championship playoff at QAF. The catcher is B. Piccalo and the umpire T. Atkinson.

Handing Out \$1,615 in Suggestion Plan Awards



James C. Parlee, manager of reduction plants, congratulates Johnny Akkanen on his \$1,000 suggestion plan award. On the left is Curly Kydd, who received \$441, and on the right, Gitardo Roberti, whose cheque at this three-way presentation was for \$174.

Johnny Akkanen Is \$1,000 Winner

A record distribution of Inco employees' suggestion plan awards was made when James C. Parlee, manager of reduction plants, called three Copper Cliff men into his office and presented them with cheques totalling \$1,615.

Lion's share of this juicy melon was the slice cut for Johnny Akkanen, blacksmith helper. For his idea for an iron bending device, he received the top suggestion plan prize, \$1,000.

A second-generation Incoite whose father, Pete Akkanen, is

retired on service pension, Johnny is married and has two children, Sharon, 7, and Robert, 5. His sister Shirley is on the staff of the paymaster's office at Copper Cliff.

His wife reports that he arrived home from the presentation with the \$1,000 intact, which she thought was a pretty impressive effort for a fellow with a million dollar excuse for celebrating. The money went into the bank, bringing the Akkanen's dream of a home of their own a long stride closer to reality.

"Now I know how a fellow feels when he wins a sweepstake," he said.

A \$441 smile of satisfaction spread over Curly Kydd's face as he took a fast glance at the cheque handed him by Mr. Parlee. Also a family man, he is the father of three, Linda, 8, Diane, 2, and Grant, 2½ months.

His suggestion was for an improvement in the system of installing cyclones in the flash furnace. He had previously received awards of \$25, \$5, and \$41 for submitting ideas to improve the efficiency of operations, clicking for the first time away back in 1943. He is now a fitter sub-foreman in the electric furnace department.

The third award of this unusual "triple header" was for \$174, and went to Gitardo Roberti, utility man, for suggesting a saving in the cost of roaster wedges and pins. He was also a repeat winner under the suggestion plan, having collected \$42 and \$117 for previous "brain waves". Like Johnny and Curly, when he arrived home with that nice tax-free cheque Gitardo got a rousing reception from his wife and their family of three, Bob, 19, Mary, 14, and Roxanne, 7.

Including these three major awards, the total amount which has been distributed to employees in the Inco reduction plants for the 1,479 ideas accepted to date under the suggestion plan is \$36,620.

Refinery's Izzy Carrey Retires

The site of an old Sudbury landmark that recently burned down, the North cafe on Lisgar Street, was the birth place back in 1891 of Izzy Carrey, 26-year copper refinery veteran who has joined the ranks of Inco pensioners.

Since his family moved to Massey when he was just a little shaver, however, Izzy's role as an observer of the passing scene in early Sudbury was nipped in the bud.

When he finished his schooling in 1907 Cobalt was the mining camp, so Izzy headed there and spent four interesting years as a miner. Then he went with Algoma Central Railway and was fireman on the locomotive that laid the first track on Lacloche Island, en route to Little Current, and engi-



Mr. and Mrs. Izzy Carrey

neer of the first train to take supplies into Hearst.

He went back to mining again for a while, then worked in the paper mill at Espanola for nine years. In 1929 he hired on with Fraser Brace and helped build the copper refinery into such a fine plant he decided to stay there. He became pipefitter foreman and handled the job to everyone's satisfaction right up until his retirement. Piping a mould change became so familiar to him he agrees he could do most of it blindfolded.

In 1915 Florida Lauzon of Blezard became his bride and to their happy home came 11 children: Edna (Mrs. Hitchcock), Irene (Mrs. Lacourciere) and Janet (Mrs. Prieur) are all of Sudbury, Rose is Mrs. Olien of Winnipeg, Dolly is Mrs. Pidgeon of Kingston, Eva is Mrs. Leon Thompson of Froid-Stobie, Rita is the wife of Len Andrews of the copper refinery, where Tommy also works, Lionel is at Tilsonburg, and Pauline and Patsy are still at home.

Odd jobs around his two houses on Dell Street in Sudbury, a little gardening, enjoying the family camp at Bass lake, and visiting with his children and his 18 grandchildren, will be some of the pleasures of retirement for Izzy. All his old friends at the refinery hope he will long be spared to delight in them.

TOO MUCH TELEVISION

During the drawing lesson, little Billy made a sketch of a stage-coach. When he brought it up to the teacher she looked at it and then, puzzled, asked: "But this stage coach hasn't any wheels on it. What holds it up?"

"Bandits," said Billy.

Most Valuable



Jan "Tarzan" Malik, all-round star of the league-leading Polish White Eagles, became the first annual winner of the Musico trophy for the player judged most valuable to his team in the Sudbury District senior soccer association.

The popular Froid-Stobie miner led the poll after voting by members of the association executive. The trophy was presented this year by Frank Musico.

Lou Zizek, goalie of the Adria Rockets, won the Barlow trophy, awarded each year to the player combining the most ability with sportsmanlike play.

Inco Couple Wed



Ross Weber of the transportation department and Kathleen Hodgins of the mines department secretarial staff, Copper Cliff, were married on October 6. Ross is the son of Jack Weber, also of the transportation department, and Kay is the daughter of Wm. Hodgins, a mechanical department pensioner. Here's wishing them a long and happy life together.



Standing on the cross-arm of one set of poles of the new line that will soon deliver high voltage power directly to the copper refinery instead of via the Copper Cliff substation, lineman Peter Stos connects the wires to the insulators.

New Line Will Give Better Power Service to Refinery

Another major improvement in its service to the Company's operations is being undertaken by the Inco electrical department in arranging to bring high voltage power directly from the main distribution line to the copper refinery.

At present high voltage power is transmitted from High Falls to Copper Cliff substation and then relayed to the refinery and the tailings line. The new setup will go into use in November and will assure a steadier source of power for the refinery operations, in addition to eliminating certain power lines and poles that do nothing in an artistic way for the landscape thereabouts.

Plans and specifications for the new line, which called for towers as high as 60 feet, got a setback when it was found that no suitable poles were available in Canada for immediate delivery. This situation was soon remedied when a local contractor was hired to scout some cloud-reaching red pine trees in the Penage area from which the required 10 poles were quickly produced ready for creosoting.

Piles had to be driven in some quicksand areas to support the concrete bases on which the poles were erected in pairs at 300-foot intervals leading from the High Falls main line on the north side of No. 17 highway to the refinery.

Six heavy copper lines carry the power at more than 30,000 volts to the refinery transformer station where additional circuit breakers have been installed. These lines are 1½-inch in diameter and weigh 653 pounds per 1,000 feet. Another three lighter lines carry power back from the refinery to the tailings line. To protect the nine

power lines two ground wires are strung atop the poles on steel pins, their duty being to foil the elements during electrical storms. Another feature of the installation is the use of a compressed glass insulator which disintegrates when line trouble occurs, thus simplifying the task of the troubleshooter.

Stringing these 11 lines the 1,650 feet to the refinery presented about as ticklish a problem as veteran line foremen George Robb and Bill Taylor care to have served up. Leaving the main High Falls line the new hookup crosses six circuits of 44,000 and six of 34,000 volts, the new and old no. 17 highways, the CPR tracks, the Bell Telephone lines, the CPR telegraph lines, a 600-volt trolley circuit and finally a 2,200-volt circuit, before reaching the refinery. That the job was done in a minimum of time without a mishap was a credit to the Inco line crews.

Is Still Cheerful Despite Disability

Sidelined with a case of chronic rheumatism, but still cheerful as a cricket, Urho Punkari reflected back over 20 years at Inco with a good deal of pleasure and pride. Taking his ease at his own comfortable little home in Sudbury he recalled his early years in Canada when, in the bush and on the farm, a man worked from dawn to dusk for plenty of food but not much money. In contrast to this was his introduction to Inco in 1935 at Frood where he worked only an 8-hour day and received plenty of hard cash for his efforts. Born and raised on a farm in



Mr. and Mrs. Urho Punkari

Finland at the beginning of the century, Urho in 1926 came to Sudbury where his brother was already employed. The following nine years he spent in the many bush camps and on farms of the area, also was learning to speak the language. In 1935 he hired to Frood and shortly after trans-

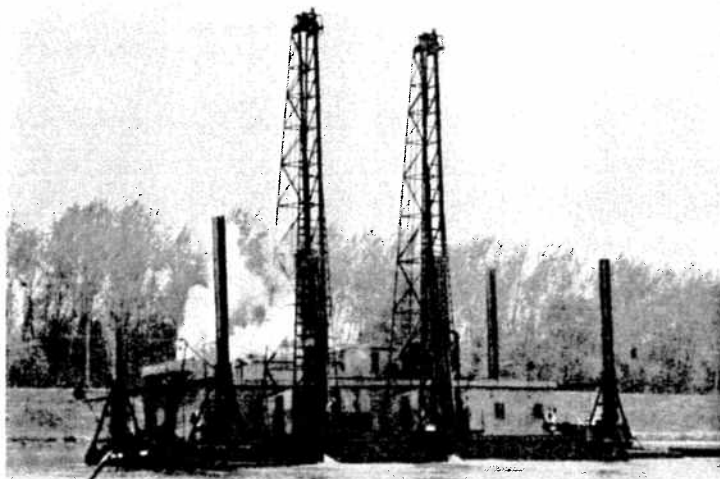
ferred to the Orford department at Copper Cliff. The past seven years he worked in the loading gang in the sinter plant.

Not given to rushing things Urho did not marry until 1938 when he took Salma Rintala as his bride. They have no children of their own but a fondness for all children is evident in both of them.

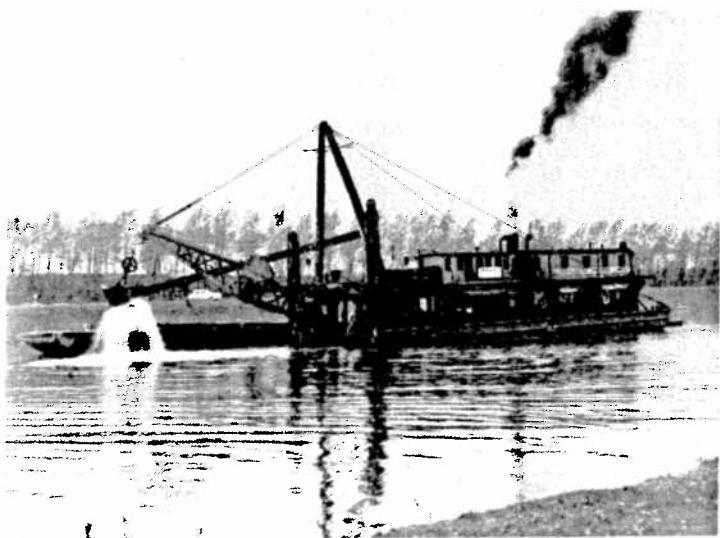
With Urho and the Inco medical department both working to keep his rheumatism under control he is looking forward to many years of happy, if somewhat restricted, retirement.

Who gets credit so often seems of great importance when in the long run it seldom is. How much the individual gives has the important effect.—Wm. B. Given, Jr.

Deepening Canal for Seaway



Of unusual interest to Inco workers at Port Colborne's nickel refinery these days is activity for deepening the Welland canal about 3 feet as part of the St. Lawrence seaway project. One of the two floating drill rigs in action is seen in the above picture, drilling holes in the limestone canal bottom. The work is on a 24-hour basis.



After the holes have been loaded with explosives and blasted, this steam shovel with its 8-yard bucket scoops up the broken rock and loads it into scows with a capacity of 700 yards each. The scows are towed out into Lake Erie and dumped. It is expected that the deepening of the 27½-mile canal will take from two to three years.

36 Qualify for Quarter Century Club at Port Colborne



Frank Balogh



Louis Bartok



Steve Birkas



Patrick Clements



Steve Czerlau



Matt Crnkovich



Joseph Durica



Edoardo Foresti



Paul Gottfried



Andrew Ivan



Anton Kaduc



Otto Kramer



Kazimiera Krukowski



Gerard Kuipers



Sam Kuzenko



Harold Lambert



John Lee



Howard Martindale



Alex McNay



Roy Marr



George Mustard



Frank Paluszkiewicz



Giacomo Pinelli



Bronislaw Rajczak



Francis Reuter



Robert Roy



Almeri St. Louis



Harry Sawchuk



Robert Shields



Tony Shatkosky



Thomas Skinner



Endy Stekli

In this fine collection of photographs by Modern Studio of Port Colborne are the faces of the 36 nickel refinery employees who will be welcomed into membership in Inco's Quarter Century Club at a banquet at the Recreation Club on Tuesday evening, November 6.

J. Roy Gordon of New York and Ralph D. Parker of Copper Cliff, both vice-presidents of the Company, will present membership buttons to the new 25-year men and address the club.

James Walter will be chairman. The program will include a variety concert given by a group of Toronto artists, among them Ted Rush, a clever ventriloquist, and Doug Romaine, master of pantomime.



Vasil Super



Joseph Toth



Louis Toth



Coleman Varga

Retiring Postmaster Is Honored



Members of the Copper Cliff post office staff, past and present, held a dinner at Cassio's restaurant for James L. Spalding, the

retiring postmaster, and Mrs. Spalding. In the photo here, standing behind the guests of honor, are Mrs. Virginia Hurtubise, Mrs. Isabelle Cherry, Dennis Leclair, Mrs. Marje Van Exan, Lino Visentin, Mrs. Kay Mutch, Miss Damaris Ballantyne, Miss Betty Shields, and Mrs. Mabel Dopson, a daughter of Mr. and Mrs. Spalding.

When the Orford process of nickel-copper separation was moved from Inco's Port Colborne plant to Copper Cliff in 1931, Jim Spalding was one of the key men who came along with it. Five years later he was appointed the town's postmaster, a position he has filled faithfully and efficiently.

Apart from his charter membership in the Copper Cliff branch of the Canadian Legion, Jim's chief interest outside his job was curling, at which he was long recognized as one of the canniest skips in the district.

Gardening, which was his work as a young man in Scotland, will

now be Jim's hobby and joy in retirement. He and his good wife have returned to Port Colborne to make their home, taking with them the best wishes of their many friends.

Creighton Golfers

A team consisting of Norm Silveston, Casey Caul, Art Huff and Bill Young turned in the low gross in Creighton Mine Athletic Association's annual tournament at the Sudbury Golf Club. Their aggregate of 380 won them the Rockiron trophy.

A low net of 280 captured the athletic association trophy for the quartet of Bob Seawright, Charlie McCoy, Tom McLean and Hurly Hreljac.

Charlie McCoy had the individual low gross of the meet, a sparkling 77, while Bill Young brought in the low net, a dazzling 70. There were 35 names in the draw.