

INCO TRIANGLE

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COPPER CLIFF, ONTARIO, DECEMBER, 1964

NUMBER 9

MERRY
CHRISTMAS
AND
HAPPY
NEW YEAR

Merry
Christmas
and
Happy
New Year
to All



Mother and Child



Published for all employees of The International Nickel Company of Canada Limited.

D. M. Dunbar, Editor
H. L. Meredith, Assistant Editor

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International Nickel's New Research Facility World's Most Modern

"A new laboratory, the largest and most modern in the world devoted to research on nickel and its uses, has just been dedicated by the Company at Sterling Forest, New York. It becomes our principal research facility in the United States," wrote Henry S. Wingate, International Nickel's chairman of the board, in a letter to the shareholders last month.

This latest major development of Inco's research activities, along with modernization of the laboratory in Birmingham, England, and to be followed by the opening of a similar facility at Sheridan Park near Toronto, points up the value of nickel research to modern industrial progress.

"At the opening of the laboratory," Mr. Wingate's letter continued, "we announced a new basic grade of maraging steel, containing 12 per cent nickel. It was commercially established through

the cooperation of our research and development staffs and members of the steel industry. With a potential for aerospace and hydrospace applications, this strong, fracture-resistant steel is typical of our development work. It



Henry S. Wingate

provides our customers in the steel industry with a new product which they can make and market. At the same time, it underlines the market orientation of our goals and the close relationship between our research laboratories and the industries they serve.

Research Pioneered by Inco

"With our other laboratories in the United Kingdom, Canada and the United States, our new laboratory continues an activity that originated in the first days of the Company's existence, early in this century.

"Its very name — the Paul D. Merica Research Laboratory — marks the Company's tradition of research and development. The fifth president of International Nickel, and a renowned metallurgist, Dr. Merica directed the establishment of our first full-scale laboratory at Bayonne, New Jersey, some forty years ago. His inspiration and guidance, during a 35-year association with the Com-

pany, will continue to influence for many years the pattern and aims of our research.

"International Nickel seeks to develop, first in the laboratory and then by plant-scale research, new quality products which are superior to or less costly than currently used materials. Our research programs reflect the more exacting, ever-changing, rapidly growing industrial needs of today's world.

"The increasing demand for new materials in this, the Space Age, has intensified the Company's research activities on an international scale. Our laboratory in Birmingham, England, similar in size and scope to our new facility at Sterling Forest, is in the course of further modernization. Soon, we will also establish a new laboratory at Sheridan Park near Toronto which will undertake both process and product research work.

Research Staff of 700

"International Nickel's research staff consists of more than 700 scientists, engineers and supporting personnel. The research programs they undertake encompass a wide variety of alloys — cast-irons, steels, nickel-base alloys, aluminum-base alloys, copper-base

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*May the Spirit of Christmas
Bring Joy to You and Yours
and Abide in Your Hearts
throughout the Coming Year*



Henry S. Wingate
CHAIRMAN

J. R. Gordon
PRESIDENT

John P. Poff
EXECUTIVE
VICE-PRESIDENT

M. J. Smith
ASSISTANT VICE-PRESIDENT
GENERAL MANAGER
ONTARIO DIVISION

F. F. Jones
ASSISTANT VICE-PRESIDENT
GENERAL MANAGER
MANITOBA DIVISION

The Front Cover

Portraying the hallowed Christmas theme of Mother and Child for our cover picture are charming Pay Poff of Copper Cliff and her adorable little daughter Rebecca.

The Christmas wreath hangs over the fireplace and the scene is full of warmth, tradition and tenderness.

Mrs. Poff, whose husband Keith is a highly regarded history teacher at Copper Cliff High School, was Pay Thacker before her marriage in June 1962. She came from Australia, was a secretary to executives at the Inco general office in Copper Cliff for two years, then was secretary to the Sudbury public school board.

Rebecca made her appearance last April 19, a healthy happy baby who promptly dedicated herself to enjoying life. The picture shows her sharing a joke with her mother, as girls will, you know.

The other day we were fortunate enough to obtain a recent photograph of the young man who was our first Christmas cover baby, John Frederick Lloyd Jones. Readers may remember the somewhat studious mien with which he regarded them when he appeared

with his mother Gina on our December 1961 issue at the age of eight months. It is interesting that he apparently continues in this scholarly approach to life, as shown in the droll accompanying picture taken by his father, Dr. John Jones.



Young Mr. Jones in his study



Welcomed by Mr. and Mrs. Foster Todd at Thompson airport as they arrived to attend the Quarter Century Club dinner were Mr. and Mrs. J. Roy Gordon of New York and Mr. and Mrs. James C. Parlee of Toronto. Picture shows, front, Mr. Todd, Mr. Parlee, Mrs. Gordon, Mr. Gordon; back, Mrs. Todd and Mrs. Parlee.



RALPH AND NAN HAWKINS; FRANK ZURBRIGG AND LILITH McCONNELL



FRED AND FLORENCE DUBERY; BERT AND HELEN KING



JOAN GORDON AND FOSTER TODD; FERELITH AND AL THORNBOROUGH



GLADYS AND ED McIVOR; PAT AND HORACE BOUCHER

The Thompson chapter of the Inco Quarter Century Club was increased to 15 members when Lucien Villeneuve received his gold lapel button from executive vice-president James C. Parlee. Lucien was a Levack man from the day he joined the Company until his transfer in May 1960 to Thompson where he is now a general foreman.



At lower right is president J. Roy Gordon.

President Gordon Brings Greetings And Good Wishes to Thompson QCC

A gala event at Thompson was the annual banquet of the Quarter Century Club, held in the Canadian Legion Hall. Members and guests, with their wives, dined on pheasant and enjoyed a musical program by a Winnipeg trio led by Georges LaFleche, brother of famed Canadian songstress Giselle. Welcoming the guests, assistant

vice-president F. Foster Todd, general manager of the Manitoba division, paid a graceful compliment to the ladies: "It's the man who makes the living but the wife who makes the living worthwhile".

He introduced president J. Roy Gordon as "a man who is deeply interested in the human side as

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Among Those Present at the Thompson Dinner



SHEILA AND ROSS HAWKINS; PHYLLIS PETERSON AND JILL VILLENEUVE



LLOYD McDONALD, BETH SPENCE, LOUIS RENZONI AND MARION McDONALD



IRENE AND JOHN McNAMARA; MAE AND JIM HARVEY



ROMEO AND ANITA LeBLANC; CECILE AND LEO PILON

3³/₄ Million Tons of Ore In World-Record Blast At Frood-Stobie Mine

A world's record underground blast in the Stobie section of Frood-Stobie mine on November 28 broke 3³/₄ million tons of ore and 1¹/₂ million tons of rock.

A solid block of ore the size of a football field and 750 feet high would represent the amount shattered in this gigantic mining achievement which used 464 tons of powder.

The blast was so well organized and contained that its impact was less noticeable than an ordinary open pit bench blast.

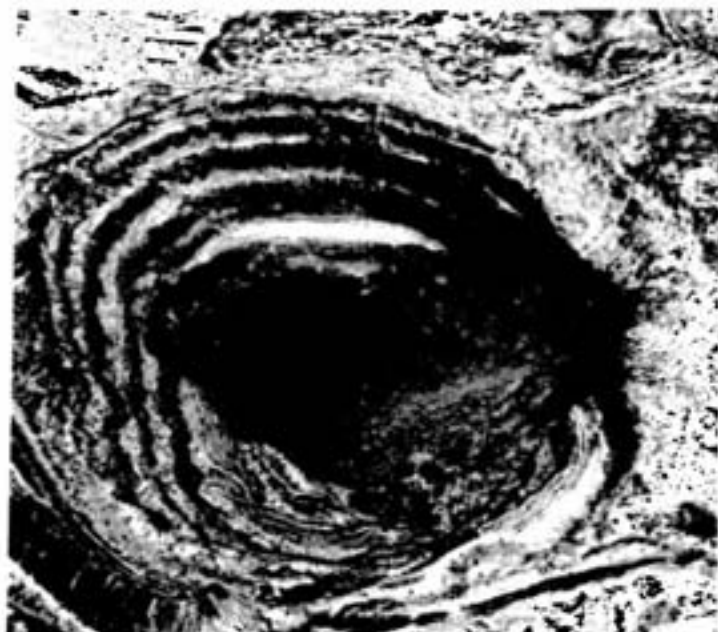
Inco manager of mines John McCreedy expressed himself as "very gratified with the safe completion of this highly complex mining operation". He said, "The work of the planning engineers, underground supervision, various service departments, and men engaged in making this record underground blast is to be greatly commended. Special mention must be made of the work of the electrical department in designing and wiring the intricate circuit for the blast."

Easily the Largest

Information compiled by a leading explosives manufacturer establishes the Stobie blast as the biggest in the history of world underground mining. Next on the honor roll of large underground blasts took place at Inco's Murray mine on April 17, 1961, breaking 2,120,000 tons of ore and using 255 tons of explosives. Another Murray blast ranks third; it was fired on March 26, 1962, broke 1,580,000 tons, used 194 tons of explosives. Next in order of size come Climax



THIS SIMPLIFIED CROSS-SECTION DRAWING shows preparations at Stobie mine for the record blast. The hanging wall portion of 600 level floor and 1000 level pillars, as well as a small portion in the footwall area, have been honeycombed with rings of drill holes driven from drill drifts in the ore body. Boxholes and slusher drifts have been established beneath the drilled ore body, ready to remove the broken ore and load it directly into cars in the haulage drift on 1000 level or send it down the ore passes for haulage on 1400 level. The drawing shows the incline of the ore body and the overhanging portion of hangingwall rock which was removed by the blast and came down on top of the broken ore; after all the broken ore has been drawn down this rock will serve as a protective cover as mining proceeds below 1000 level.



BEFORE-AND-AFTER PHOTOGRAPHS show the effect of the blast as seen from the air. The rectangular opening in the bottom of the Stobie pit, 500 feet long by 200 feet wide and extending from the 600 to the 1000-foot level of the underground workings, was enlarged by the blast to 800 feet long by 400 feet wide and completely filled to the 1000-foot level with broken ore

topped by hangingwall rock. A large section of the abandoned pit haulage road on the hangingwall side disappeared. The pictures fail to convey the size of the Stobie pit but some comparison is given by the 30-foot fan installation on the mine return air raise, barely discernible in the lower right corner of each picture.



EARLIER STAGES IN THE MINING PROGRAM at Stobie are illustrated by these photographs from the Triangle files. On the left is shown the Stobie Open Pit in October 1951 when surface mining had been completed. In the 10 years previous a total of 12½ million tons of ore and 10 million tons of rock had been removed from the pit, which was 1400 feet long, 1000 feet wide, and 348 feet deep. In the picture on the right, taken in 1956, underground mining had taken over. Blasthole stopes, mined upwards from the 600-foot level, had holed through the pit floor. Two churn drills (upper left) were

drilling holes for the recovery of ore which had been tied up by the main haulage road out of the pit. The next stage was to mine out the network of supporting pillars which are shown between the stopes, while at the same time stopes were being mined from the 1000-foot level up to 600. Eventually the footwall portion of the ore body was mined out to a depth of almost 600 feet below the old pit floor, and the stage was set for the huge blast on the hangingwall side.

(Colorado), May 23, 1964, 1,250,000 tons ore, 208 tons explosives; Helen (Ontario), Sept. 24, 1955, 1,131,000 tons ore, 153 tons explosives; Sullivan (British Columbia), June 27, 1959, 1,062,000 tons ore, 57 tons explosives; Ripple Rock (British Columbia), April 5, 1958, 251,000 tons rock, 1,000 tons explosives.

Even the huge open cut surface blasts take second place to Stobie's underground record: Great Salt Lake Causeway (Utah), July 21, 1957, 3,000,000 tons; T.V.A. (Bristol, Tennessee), February 5, 1949, 1,800,000 tons; Chuquibambilla (Chile), March 23, 1925, 909,500 tons.

In comparison with atomic blasts, however, the amount of explosives used at Stobie, 464 tons, falls far short. The underground nuclear blast at the Rainer Mesa test site in Nevada in 1958, for instance, used the equivalent of 1,700 tons of T.N.T., and a more recent (1962) test at the same site used the equivalent of 19,000 tons of T.N.T.

More than a year of planning and preparation went into the Stobie blast. Every possible safety precaution was built into the project.

The target date was set last spring, and development and drilling schedules organized to meet it without interference with the mine's regular production commitments.

One million feet of drilling was done, a total of 16,700 holes.

A Solid Week's Loading

After completion of the drilling the loading crews moved in to load the holes with powder. During the week of November 16 to 23 this operation was carried out by 20 four-man crews per shift, with an extra 50 men per shift engaged in delivering the powder to the 100 drill drifts involved.

Then, from November 23 to 26,

the loaded holes were each primed with a stick of powder and blasting cap, and the caps joined in series of 30 each.

The time was drawing close.

At 4.00 p.m. on November 27 all production activities ceased and the mine was shut down for the blast. Two-man wiring crews then entered the blasting area and by 11.00 p.m. had connected all the 500 series into groups of from 10 to 20 series each.

The same crews returned at 6.00 a.m. on the 28th, B-Day, to make the final hookups to the main firing lines and run a voltmeter resistance check of the entire circuit's 34,000 feet of wire and cable.

They then made the final retreat from the blasting area, shutting the bulkheads behind them. They withdrew the safety insulating bars from the contacting device connecting the power source

(Continued on Page 7)



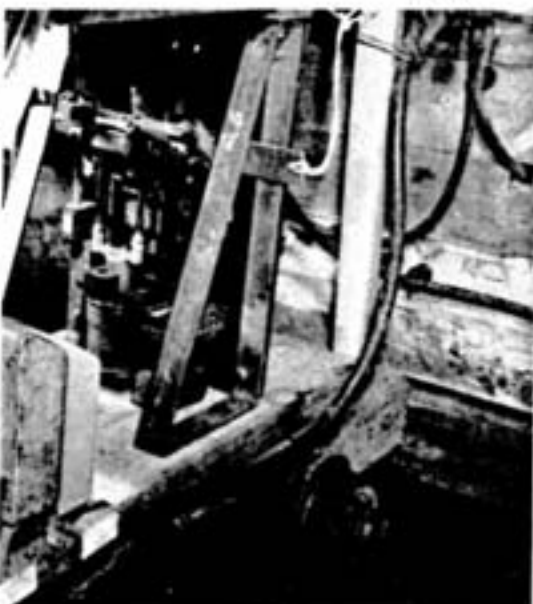
ONE OF THE MANY planning sessions that took place in the year of preparation for the blast is shown above with Fred Stobie mine superintendent S. J. Sheehan as chairman. On the left are Bill Gaylor, ventilation department; Bob Ludgate, safety engineer; Jim Hatch, ventilation engineer; Norman Miles, assistant chief mine electrician. On the right are George Johnston, planning and layout engineer; Dave Lennie, assistant mine superintendent; Art Silver, mine engineer.



1. A TYPICAL LONGHOLE CARBIDE DRILL SETUP in one of the drifts, showing the rings of plugged drill holes. There were 100 drifts like this one involved in preparing the blast; 16,700 holes totalling over 1 million feet were drilled. Driller Tony Kluszczynski is seen checking the drilling pattern with survey assistant Bob Park. 2. DRILLER JOE SYLVESTER is shown loading

powder into the drill holes using a sectional loading stick. A total of 19,000 cases of powder, weighing 464 tons, was loaded for the blast. 3. THIS PICTURE SHOWS one of the drill drifts, the drill holes loaded and wired in series, ready for the final hookup. By using the full range of 31 blasting cap delays the blast was spread over three seconds to minimize impact.

Scenes As Frood-Stobie Readied for World's Biggest Underground Mine Blast



1. DRILL BOSS CLARENCE MOFFAT and driller Tony Wilk are shown in a drift as they join the blasting caps in series and check the resistance with the voltmeter to assure a continuous circuit. 2. THIS IS THE CONTACTOR installed on 1000 level. When the blasting switch was closed on surface this device completed the circuit between the power source and the

two main blasting lines. 3. THE FINAL ACT culminating over a year of planning and preparation is shown here as assistant chief electrical Norman Miles, at 10:30 a.m. November 28 in the Stobie clockroom, closes a switch to fire the record blast. The vibration caused was no more noticeable than from an ordinary open pit bench blast.



1. DELIVERING AND LOADING the 464 tons of explosives required for the blast was a week-long operation involving 130 men per shift. Picture shows a trainload, in charge of surface motorman Leo Bourgeois and surface switchman Sam Dufresne moving into the Stobie collarhouse for shipment under-

ground. 2. POWER FOR THE BLAST was provided by a lineup of 12 mine locomotive batteries arranged in series to supply a minimum jolt of 300 volts and 1900 amps. They were located in a footwall drift on 1000 level adjacent to the blast area. Seen checking the lineup is electrical leader Lauri Puro.

"At the Going Down of the Sun and in the Morning, We Shall Remember Them"



Remembrance Day service was held in the Royal Canadian Legion hall at Copper Cliff on November 11 in common with communities throughout the Nickel Belt as thousands of citizens paid tribute to the men and women who sacrificed their lives in two world wars. Picture shows the color party at the Copper Cliff ceremony with sergeant-at-arms Cecil Dennie in charge.



A cold November rain failed to diminish the crowd that gathered at the cenotaph in Sudbury on Remembrance Day to view an impressive ceremony and pay respects to fallen comrades. Pictured above Major L. M. Ramsay, Wing Commander Virr and Lieutenant-Colonel A. Falzetta place wreaths to honor the gallant dead. Preceding the cenotaph ceremony a combined church service was held in the Sudbury arena.

ALWAYS COMPLAINING

A young man joined a religious order which required a vow of silence. After a year had passed the Father Superior, sensing that the young priest was unhappy, called him to his office.

"My son", he said, "as is my privilege I am releasing you from your vow of silence in order that you may express your feelings regarding your first year with us. You may utter four words."

The young priest said: "My bed is lumpy."

A second year passed, and the Father Superior, still believing all

was not well, called in the young monk again.

"I am again releasing you from your vow of silence", said the Father Superior. "You may utter three words."

The reply came: "Food is terrible."

After the third year the routine was repeated, with the malcontent being allowed to utter only two words. Said he: "I quit!"

"I can't say that I'm disappointed," said the Father Superior. "You've done nothing but complain ever since you came here!"

New Research Facility

(Continued from Page 2)

alloys. Many programs are concerned with the development of processes employing nickel, its alloys or compounds. The Company's research laboratories are capable of carrying out research on any material containing nickel or to which nickel might usefully be added.

"Supplementing the work of our internal research organization are the programs sponsored by the Company at universities and research institutes throughout Canada, the United Kingdom and the United States. While most of this work is related to fundamental research it is designed to make contributions to more specific projects.

"Our research and development

activities, over the past 60 years, have made numerous contributions to the growth of the nickel business and to modern industrial progress. These contributions are reflected in our record nickel deliveries, and in our expected new high record of earnings for 1964. The new Paul D. Merica Research Laboratory affirms the importance of science and creativity in the Company's continuing efforts to broaden markets for nickel, its most important product."

World Record Blast

(Continued from Page 5)

with the firing lines. In the shaft station, just before boarding the cage for surface, they closed a last safety control switch.

Now the enormous blast lay silent in awesome readiness, awaiting the spark.

In the clockroom on surface, at 10:30 o'clock sharp, when every man had been accounted for, assistant chief electrician Norman Miles shoved the master switch.

There was a dull rumble, a slight tremor underfoot. The world's biggest underground mining blast had been safely completed.

After the blast the ventilation engineers, who had done an outstanding job of assisting in the planning to prevent blasting fumes from being released into other areas of the mine, went down to make tests assuring that no noxious gases were present.

Bulkheads Held Fast

Inspection of the underground workings then revealed that all bulkheads installed to protect other areas of the mine from the concussion had held fast. A gauge inside a bulkhead on 1000 level recorded a pressure from the blast of 10 pounds per square inch.

The 3½ million tons of ore broken by the blast will be drawn down through a network of 200 boxholes into 20 slusher trenches on 1000 level, and either loaded directly into cars in the haulage drift or sent down the ore passes for haulage on 1400 level. Pulling of the boxholes will be regulated in the standard manner to maintain an even flow of ore and avoid rock dilution.

While this mammoth muck pile is being removed, development will proceed of other horizons in the mine.

Christmas Shopping No Problem for Ernie Pelzl

Ernie Pelzl of the nickel reverber mechanical crew at Copper Cliff has the ideal solution to the Christmas gift problem. He just pops an idea into the employees' suggestion plan box and out comes the money. Two years ago he clicked for a \$1,000 award, last year he rang down \$10, and this year another of his brain waves



paid off to the merry tune of \$260. Picture shows him discussing with mechanical superintendent Fred Burchell his suggestion to install smaller diameter idlers on the belt conveyors feeding the nickel reverber furnaces, to reduce maintenance costs. Ernie is married, with three children, and that \$260 is going to be a lot of help to Santa Claus around his house.

Charming Pantomimes Portray Long-Loved Tales in Inco Christmas Window



A beautifully decorated Christmas window that every child — and grown-ups too — should see is the annual display conveying Inco's greetings of the Season in the Chamber of Commerce offices in the President Hotel, Elm Street West, Sudbury.

Featured in the centre of the window is a breath-taking actual look into Santa's office at the

North Pole on Christmas Eve! While Santa sits in his rocking chair resting up for his long trip, his elves are busy bringing in sacks of last-minute mail, preparing toys, and finalizing the lists of Good Girls and Good Boys.

On each side of Santa are sets of three window boxes containing charming Christmas pantomimes. Adventures of Pinocchio, Cinder-



CINDERELLA



ALIBABA AND THE FORTY THIEVES

ella, Alibaba and the Forty Thieves, Alice in Wonderland, Water Babies, and Aladdin are the themes of these pantomimes in which the tiny figures are exquisitely costumed and bejewelled. These delightful portrayals of long-loved tales show the same expert artistry that marked the Twelve Days of Christmas dramatization last year.

A masterpiece of creative display, this Inco Christmas Window was the last production of Harry Despard, the Toronto designer, who worked lovingly on it until shortly before a fatal illness finally overtook him in November. Mr. Despard had been in charge of preparing the Inco Window displays since their inception in March 1951.

Thompson QCC

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well as the material side of our business."

"I am sure you will wear that button with great pride," Mr. Gordon said in congratulating the new member of the Thompson chapter, Lucien Villeneuve.

The president spoke informally on a number of aspects of Inco's activities, touching on the full partnership between production and sales and indicating the scope of the Company's program to develop markets for nickel in many highly diversified fields.

He referred to the work of the sales organization in Continental Europe, with headquarters at busy Thames House, London, and spoke of the modernization which has been carried out at the Inco-Mond plant at Clydach and of the great new plant at Hereford which succeeded the Birmingham mill.

It was a matter of pride for all

concerned, he said, that in 1964 the Company has set new records in obtaining orders for nickel and in producing the nickel to fill the orders.

Mr. Gordon concluded his remarks by saying that he had heard "via the grapevine" that the Manitoba division was interested in making a contribution to a new community centre at Thompson. "I feel sure that the Company will see fit to go along with this very worthwhile effort on your part," he said, promising to recommend to the board of directors that Inco contribute \$150,000 to the project, plus \$1500 per month toward maintenance until the community centre is self-supporting.

Mr. Gordon's announcement was greeted by a burst of applause. "This contribution will be very gratefully received by the community," Mr. Todd said in thanking him.

Also present for the occasion, along with the president and

executive vice-president and their wives, were assistant vice-president H. P. Zurbrigg, chief geologist, and assistant vice-president L. S. Renzoni, manager of process research (Canada), both of Toronto.

A description of Thompson's big community centre project will be found in another column of this issue.

Sacred Cantata On Christmas Day

A special treat is in store for Christmas Day on the annual Inco Christmas radio program when the sacred cantata, "The Story of Bethlehem", will be performed by Sudbury's own Philharmonic Society under the baton of its director, Eric Woodward.

Solo parts in this beautiful Christmas story will be taken by Ruby Sandberg, soprano, Jim LeCain, tenor, and Jack Davidson, bass.

The program will also contain Christmas carols, some traditional and others not so well known, sung by the Philharmonic with orchestra. It will conclude with a majestic chorus of the moving "Adeste Fidelis".

Inco's Christmas Day radio program will be heard from 1:00 to 2:00 o'clock on CKSO, with that station's popular Bob Alexander in charge of its production.

MATTER OF RELATIVITY

Divorce judge: "How long have your relations been unpleasant?" Woman: "Your honor, my relations have always been pleasant; it's his relations that are the trouble makers."

SPEEDY

A woman telephoned an airline in Toronto and asked: "How long does it take to fly to Montreal?" The clerk said: "Just a minute." "Thank you," said the woman, and hung up.



Most of the mill mechanical gang at Copper Cliff were on hand for the presentation of a purse of money as a retirement gift to popular Louie Martel, shown in the centre of the front standing row in this picture. Ken Bunt did the honors on behalf of the gang.

Louie Martel

Louie Martel, a popular and capable mechanic at the Copper Cliff mill for many years, has retired on early service pension.



Mrs. Martel

Proud of his family of Inco sons and sons-in-law Louie pointed out that his father Joe had worked at the old Copper Cliff smelter and his grandfather was pensioned off from that same plant in 1917. "And I was born at Victoria Mine," he added.

His sons are Buster at the Copper Cliff mill, Cliff at Frood, and his sons-in-law are Frank Croteau of Stobie, married to Elaine; Orville Brennan of Copper Cliff, married to Gloria; King Croteau of Garson, married to Betty. To date there are 16 grandchildren and seven great-grandchildren. Mrs. Martel was Ruby Fogarty before she and Louie were married in 1921.

Louie was raised in Copper Cliff and worked in the rockhouse at old no. 2 mine when he was 15. Later he worked several years in the paper mill at the Soo, then in 1931, at the height of the depression, went to Windsor. "I worked at the Ford plant for a time and also on the construction of the Ambassador Bridge and the tunnel," he said.

In 1938 he returned to Sudbury and joined the smelter mechanics. The last dozen years he has been at the mill.

With plenty of time now and a brand new boat, Louie plans on getting in a lot more fishing next year. Lake Penage and the Key River are two of his favorite launching spots.

Before leaving the plant Louie was farewelled in fine style by the gang at the mill when they gathered around to wish him the best and present him with a purse of money.

Walter Dashko

Walter Dashko came to Canada from the Ukraine in 1926. "I had an uncle at Vegreville, Alberta," he related, "and I worked a year for him to pay for my ticket."

A short while back Walter retired from Creighton on a disability pension. He had worked there since 1941, the last 10 years on deck at 5 shaft.

Before coming east he had worked on extra and section gangs and in the bush around the Lakehead. He happened to be in Port Arthur on a little payday celebration when an Inco employment



Mr. and Mrs. Dashko

agent hit town. In short order Walter had a slip for a job in the mines at Sudbury and was on his way.

Walter and Mrs. Ogorodnick

were married in 1950. Their daughter Mary (Mrs. E. Brock) is a school teacher at Hamilton and son Peter is at Orillia.

Creighton has been a friendly home to Walter since 1941 and now he has moved to Sudbury where he has a neat home in the west end. There he is taking life easy and cooperating with his doctor in looking after his health.

Joe Martin

Joe Martin worked as a sampler at the Copper Refinery for more than 30 years. "And it was a real good place to work," he observed. Joe is now retired on full service pension and while enjoying his well-earned leisure admits that he does miss the gang at work.

His family came from a farm near North Bay and settled at Sturgeon Falls the year the paper mill started up. Joe recalls that was about 1900. Ten years later they moved to Val Caron and in 1918 Joe left home to work at the paper mill in Espanola.

When that mill closed in 1930

he came to Sudbury and two years later was working steadily at the Copper Refinery.

In 1923 Joe and Anna Therrien were married in Espanola. Their son Maurice works at Garson, and daughter Ellen is married to Vic



Mr. and Mrs. Martin

Lamarre of the Iron Ore Plant; they have three grandchildren.

The Martins have had a camp on 18-Mile Island in the North Channel for 10 years and enjoyed every summer of it. They now plan to extend their time at camp from April to mid-November and talking with Joe it is easy to imagine that they would stay all year if he had his way.

Last Link with Construction Era at Thompson



THE LAST LINK with the construction era at the Thompson plant is being severed with removal of the camp buildings erected in 1957 for the construction crews and later used to a lesser extent by Inco employees not residing in the town. Five new boarding houses accommodating 234 single men have now been built in the town by private business firms, and many private homes take in boarders. There were 27 buildings in the camp at the plant, including 16 bunkhouses, two huge cafeterias, administration offices, hospital, laundry, bakery, water tower and warehouses. Maximum occupancy of the camp in the heyday of construction was 2500 men.



A LOCAL CONTRACTOR was given a contract to remove the camp buildings. Most of the salvaged material is being used by Inco employees to build garages in town and summer cottages on Point Lake. Picture shows three Inco men, Steve Ogorodnick, Ed Koski and Gilbert Cure, taking away a load of bargain building material, assisted by Bill Balfour and Vinc Speer of Oswego Construction Co. In the colorful history of the camp a cafeteria was burned down in 1957 and a staff bunkhouse in 1961. Both buildings were replaced. The water tower was struck by lightning and partly destroyed by fire in 1963, later dismantled. It is expected that removal of the camp buildings will be completed early next year.

Alex Laamanen

One of the Sudbury district's better hunters, little Alex Laamanen, has taken a pension from Frood and is now living the life he really loves — hunting and fishing. Much of November he spent helping his brother catch whitefish at Penage — when he wasn't at the hunt camp on Low Water Lake north of Orapung.

Alex had been a Frood miner since R. D. Parker suggested in 1935 that he give it a try. "I was trapping at the time and my brother Jalmar and Mr. Parker used to hunt together," he recalled. Working at Frood Alex soon became a pillar boss and for the last 20 years was a popular shift boss.

Although born in Finland he was raised in Copper Cliff. "We lived on Finland Street for years," he said, "and my first job was for Mond as a lineman."

Alex recounted how his family had booked passage on the Titanic on her fateful voyage and then for some last-minute reason took another ship. His father was re-



Mr. and Mrs. Laamanen

turning to the States to work and on passing through Copper Cliff stopped off and got a job with the old Canadian Copper Company.

Alex worked at Levack for some time, then to Timmins as a line foreman. He spent the next few years between there and Sudbury working as a lineman or trapper.

Lahja Makinen and Alex were married in 1943. Their son Arvo works at Copper Cliff. Ray is at Frood and Allan at McLeod Motors in Sudbury. Their daughter Helen is the wife of Arne Maki of Levack and Ella is married to Arvo Laamanen of the Copper Cliff machine shop. They have seven grandsons and one granddaughter.

A confirmed moose hunter Alex has never missed a season, nor his moose. He now has the perfect hunting setup. Snubbed to the dock in front of his Trout Lake home sits son Ray's aircraft which, like a magic carpet, whisks them to their camp in half an hour and can bring the meat right back to the doorstep. And beneath his garage Alex has built facilities to butcher the meat and freezing units to store it. "It couldn't be much better," grinned this happy pensioner.

At a gathering in the Sudbury Legion hall the boys from Frood presented Alex with a transistor radio, a wallet and their best wishes for "good hunting" in retirement.

FOREVER THRIFTY

"Stand behind your lover, false woman," thundered the Scotchman. "I'm going to shoot you both!"

Hilarious Fun As "Crazy Faces" Bonspiel Opens Levack Curling



These four Santa Clauses were so heavily bearded that even their own husbands could hardly recognize them as Fay Corkol, Mary Katyk, Marlene Lefebvre and Ann Bragg. As for the foursome on the right, their own husbands refused to recognize them: Betty Kauppinen, Marlene Longstaff (who won first prize for the craziest face), Vera Larson and Betty Cannon.



First team prize was won by these mysterious mandarins, Biddy Hews, Rita Kelly, Helen Digby and Edith MacKillop.

Michael Delorme

A stationary engineer at Levack since joining the Company in 1944, Mickey Delorme has retired on service pension. The boys threw a big party for him and in addition to their good wishes gave him a wallet of money. Mickey was popular both at the mine and in town.

The Delormes are very happy with their large family. "All seven of my boys were here for the party," Mickey said proudly. They



Mr. and Mrs. Delorme

have two daughters, Violet (Mrs. B. White) of North Bay, and Shirley (Mrs. G. Michaud) of Toronto, and their sons are Jack at Levack,



Levack ladies sent the curling season away to a rollicking start with their own annual novelty 12-rink bonspiel.

"Crazy Faces" was the theme of this year's 'spiel, and the ice surface presented a weird spectacle when it was taken over by a conglomeration of frolicking females bearing all kinds of fantastic physiognomies.

As usual the Levack gals didn't do things by halves. One entry, "The Ladies with the Gray Sickness", was so gray it wouldn't show up in a photograph.

The downstairs clubroom was specially arranged and decorated in cabaret style, and there the curlers wound up two days of hilarious fun with a banquet.

Mildred McGowan headed up the bonspiel committee and Audrey Giannini was in charge of entertainment.

Next special event on the Levack

ladies' curling calendar is their annual invitation bonspiel, to be held January 22-24.



Somebody handed Colleen MacLean a mirror and she could hardly believe what she saw in it.

Ed Zicker First Recipient of CIM Scholarship



Sudbury branch of the Canadian Institute of Mining & Metallurgy has offered an annual scholarship of \$100 to a graduate of a Sudbury district high school entering Laurentian University to major in science. First winner of the new award was Ed Zicker, Sheridan Tech grad, shown above (centre) as he received the cheque from CIM executive director Richard Barrett of Montreal. On the left is Robert McDonald, Sudbury CIM secretary, and on the right, G. R. Green, Sudbury CIM president and Paul Young of Algoma Mills, CIM vice-president for district 3. The honored scholar is the son of Garson miner J. Zicker.

Emerson at Copper Cliff, Terry, Michael and Frank in Toronto, Reg and Basil in Montreal. They have 23 grandchildren. Mrs. Delorme was Helen Constant before their marriage in 1920.

Mickey was born 65 years ago on the Quebec side of the Ottawa Valley. He worked in the bush and with the CNR at Capreol until 1927. Later he was at Errington mine, worked in Timmins and from 1939 to 1942 at Jerome mine. He also worked a short time at Nickel Offset mine and as a painter in Sudbury before joining Inco. "I tried to get on many times before

but I was always too light," he grinned.

The Delormes have lived in Levack since 1946 "and we just loved it," said Mrs. Delorme. They plan now on moving to Toronto where they will be closer to a majority of their family.

CANDID CAMERA

The bank robber showed a note across to the teller. It read: "Put the money in a bag, sucker, and don't make a move."

The teller pushed back another note: "Straighten your tie, stupid, we're taking your picture."



LEFT: The Leveck town fire brigade, winners in the pumper division: left to right, front, chief John Mallek, Dave Purvis, Gary Lacelle, Roland Watier, Howard Romain; back, Gaston Rousseau, Stan Plaskoski. RIGHT: Chosen by lot two men from the Leveck mine brigade rescue a "victim" from a smoke-



filled room. In this test the men had to quickly don breathing apparatus, enter a room and rescue a man overcome with smoke. The rescuers were blindfolded to simulate smoke conditions. Hank Bagnell is the victim with Harry Kulmala and Ed Kauppinen the rescuers.

Fire Brigades Looked Sharp in Annual Contests

Inco's annual fire brigade competitions provided a couple of upset winners this year.

Among the pumper brigades Leveck town was the surprise winner, edging out Leveck mine, top performer for the last two years, by 28 seconds. This was the first win for the Leveck Town brigade since taking the honor three straight years back in 1946, '47 and '48.

In the non-pumper class Frood Open Pit, which also won three straight in 1946, '47 and '48, and have not had a win since, breezed through their tests in the remarkably good time of one minute, 11 seconds, a full 11 seconds better than their closest rival Crean Hill. Last year's winning brigade from Coniston had a rough go this year ending up close to last in the field of 15 entries.

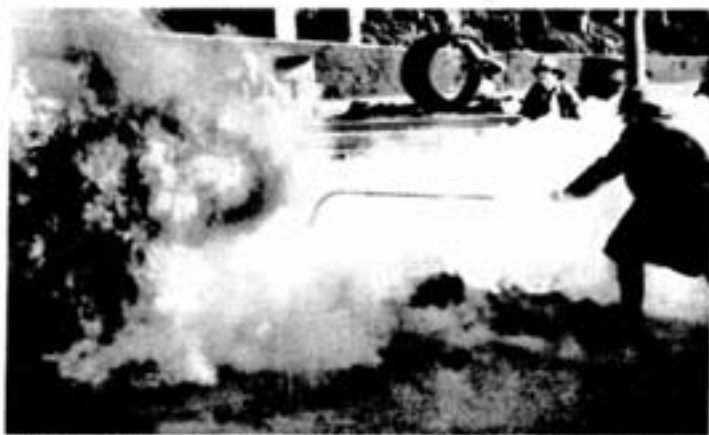
The competitions, designed to test the speed, ability, knowledge and resourcefulness of the brigades, consist of several evolutions which include the laying of hose around obstacles, extinguishing fires by various means, rescue work using breathing machines, and the location and correct use of fire equipment. Rivalry is keen and training for the competitions helps develop very efficient fire-fighting teams.

Pleased and very proud of their win the Open Pit boys jokingly refer to themselves as the "Old Man's Brigade" and with good reason. Youngest member, in point of service, is their chief Ray St. Pierre who has 25 years to his credit, while the longest service belongs to Charlie Sandberg who started with Inco back in 1928. Together the 10 members of this brigade account for 285 years of Inco service.

Inco fire inspector W. A. Humphries, who conducted the com-



Here is the Open Pit veterans' brigade, not a man in it with less than 25 years of service. They were winners in the non-pumper class. Left to right, Ed Binette, Charlie Sandberg, Fred Maitland, Frank Jenkinson, Joe Funnell, Del Obunsawin, Bill Seawright, Cecil Burton and chief Ray St. Pierre.



Two members of the Conlon shift brigade at Coniston extinguish a roaring fire in a test for non-pumper brigades. In this case the fog nozzle was effectively used to quell the realistic oil fire inspector Humphries provided.

petitions, had high praise for all entries. "The competitive spirit and the ability shown was excellent," he said.

Although not a winner in the trials — they finished third — Creighton mine brigade was mighty pleased with the prize they got, a gleaming new pumper now located at their fire hall. Among the features of this new machine are a 500-gallon tank, a single stage pump and a motor-driven drill with a large bit for boring through walls. It also contains all the standard equipment such as ladders, hose, extinguishers and tools.

to the Inco refinery tankhouse. He then worked in the plant from 1929 to 1931 when he came to Sudbury.

With the depression in full swing he was lucky and got a job in the carpenter shop at Falconbridge. That lasted a year, then he was out of work until joining the Copper Refinery carpenters in



Mr. and Mrs. Reynolds

1934. He became a pattern maker in 1945 and worked at that trade until retirement.

Ted built his own comfortable home in Sudbury nearly 20 years ago. In 1933 he married Edna Deighton; they have a daughter Lorna (Mrs. D. Biggs) in Toronto and a granddaughter whom they adore.

Having recently returned from a six-week motor trip to Florida Ted has put his car away for the winter. "It's a nuisance unless you really need it," he said, "and besides the walking will give me something to do."

LOTS OF TIME YET

Doctor: "You should take a hot bath before retiring."

Patient: "But, Doc, I won't be retiring for another 15 years."

Ted Reynolds

A Copper Refinery man for more than 29 years, Ted Reynolds is now experiencing the slippered ease of an Inco pensioner, and thoroughly enjoying it.

Ted was born at Stratford, Ontario where his father worked for the old Grand Trunk Railway. Later they farmed in the New Liskeard area and in 1923 Ted left home to work at Timmins.

A couple of years on the diamond drills, then he was off to Detroit where he spent three years in the auto industry. Next move was to Port Colborne and a job with Fraser Brace building an addition



GARSON: The Archie Bowen family of Garson as they appeared in June 1949 and as they are today. On the left is Mel, now working in St. Catharines and seated behind their parents are Dolores (Mrs. G. Lasier) and Muriel (Mrs. B. Stevenson). Archie is a cogtender at Garson and very fond of his six grandchildren.



LEVACK: This is our Leback "then and now" family: Ron MacNeill, his wife Helen, son Bob and daughters Janet (Mrs. Desmond Edwards of Levack), Margaret, 17, and the two new members, Ruth, 13, and Karen, 11. Ron is an electrician at Levack but was working at Lawson Quarry when the first picture was taken in 1948.

THE FAMILY ALBUM

THEN... and Now

Christmas is the Family Time. At no other time of the year does the home hearth glow brighter or the family circle sense more deeply the ties of love and affection, the warmth and security of gathering together, the fun and enjoyment of doing things together.

Once again, as a Christmas feature, the Triangle has gone back into its files for pictures of Inco families taken for its Family Album 15 or more years ago, and reproduces them here along with photographs of the same families today. Tiny tykes have become handsome young men and beautiful young women, and Mother and Dad look wonderful too. To them all, and to every Inco family, we extend special Christmas greetings and our sincere wishes for peace of mind and heart in the year ahead.



CREIGHTON: The Donnelly family has doubled its members in the years since the first picture was taken in 1948, and this most recent picture shows Eugene and his wife Ruth with their happy brood. Judy is now Mrs. J. Callahan and Geraldine Mrs. D. Soucie, both of Sudbury. Brian is now 17 and the newcomers are Barry, 13, Pamela, 7, Leslie, 2½, and brand new Brent, just two months young.

PORT COLBORNE: It's over 15 years since the first of the two pictures below was taken of the Will Thompson family. Of the triplets, Kay and Kevin are still at home, and Karen has become Mrs. Robert Sykes and lives just across the street. Robert is married and works at the Nickel Plant, and Wayne is married and resides in Woodstock. Will, a foreman, has been with Inco for 34 years.



COPPER REFINERY: In it as they appeared in the wife of an Air Canada pilot is one of the Copper Re





OBIE: And here is Frank Croteau, his wife and their Richard who is 15 was not on the scene when the picture was taken in 1948. Son Allan now works in top at Creighton, Donna is married to Garry Murphy and Frances is at home. Frank is rockhouse ble.



CONISTON: It was just over 16 years ago that this DeForge family picture was taken with Ernie, Richard, Louise and Linda, along with Mother and Dad, making up the family. All still live at the parental home. Since then 14-year-old Sandra, Kenny, now 11, Marilyn, 10, Larry, 7, and Terry, 4, have joined the group. Ernest and his wife Lea are parents who really enjoy their family and their Coniston home is a happy one indeed. Ernest is a baleman at the plant.



The Donnellys live in Lively and Eugene is a Creighton 5 shaft man.

COPPER CLIFF: When the earlier picture was taken in 1948 the Frank O'Gorman of Copper Cliff had five children. In the intervening years they have been blessed with another son, Jimmy, now 14, and five grandchildren. Jimmy is seen below standing with his big brother Pat, now a member of the Toronto police force; seated with their parents are sisters Judy (Mrs. L. Courtemanche), Maureen, Margaret and Mary. Frank works on the converters and has been a smelter man since 1935.



These pictures are Reg Johnson, his wife Leila, daughter Sally and son Roy 1948 Album and as they are today. Sally is Mrs. J. McDevitt of Toronto, Captain, Roy works in Sudbury and there are now six grandchildren. Reg is very original with more than 34 years service at that plant.



Slim Pera

Said Creighton 3 shaft underground superintendent Wilf Moore, "They don't make men like that any more. He was the best, that's all you can say. We're lucky he was here long enough to help teach and train some of our newer supervision." And that generally was the opinion of the several hundred who attended a farewell party recently for Slim Pera of Creighton.



Mrs. Pera

Slim was somewhat embarrassed by all the praise heaped on him but was obviously proud and pleased that so many of his friends were present at his retirement party.

A member of supervision for 15 years and foreman the past half dozen years Slim was one of the Sudbury district's mining elite. He was a man who could do almost any job underground and do it well, and as a supervisor there wasn't a better man to have around when trouble broke. Some of his underground feats are now legend and will spark nostalgic conversations for years to come.

Slim was hired at Creighton by Charlie Lively in 1934. He helped deepen 3 shaft from 23 to 30 level, then cut stations and helped install the crusher and other equipment. "In 1938 when Mr. Parker came here, I was sent to work in the new square-set stopes," he recalled.

Unfortunately Slim broke his service in 1936 when he made a trip back to Finland to visit his 90-year old father. He returned the following year and went right back to Creighton. At one time or another he has worked in 5, 6, 7 and 8 shafts.

Slim came to Canada from Finland in 1923, worked a few months at the smelter and a short time at the Creosote plant. The following year he started at Creighton and that same year married Lydia Lepisto. They have one son Elmer, until recently a member of the electrical department staff, and a daughter Helen whose husband Ken Baker works at the Iron Ore Plant. They have three grandchildren.

With assistance from his wife and son Slim has built a new home on the shores of Black Lake and it is one of the most attractive homes a fellow could wish for.

Having enjoyed their camp on Black Lake for 20 years the Peras decided it would be the ideal place to retire. The new home required some rock excavation and here Slim's skill as a miner became evident. He personally drilled and blasted 300 holes in the rock on which his camp was located, and did it without so much as disturbing a picture on the wall.

A hunter and fisherman whose exploits and feats of strength are extolled by many, Slim now hopes to devote more time to his outdoor pursuits. "I didn't wet a line all this summer," he grinned. "Too busy building my house."

Solid Progress at Inco Developments in Thompson Area



THIS IS A VIEW of the temporary surface plant for the sinking of B-2 and B-1 shafts at Inco's Birchtree property, some 3½ miles from Thompson. The headframe and rock bin are seen in the centre, and are surrounded by hoist room, garage, dry, compressor building, water tank, and two small field offices. Sinking has commenced at B-2 shaft, which is 19½ feet by 8½ feet in cross-section and contains two skip compartments and a manway. It will be sunk to 1400 level. In the foreground can be seen the sheet piling which will support the excavation to bedrock for B-1 production shaft collar. Excavation is now virtually complete through 35 feet of overburden. B-1 shaft is a five-compartment shaft containing cage, counterweight, two skips and manway compartments.



ON AN INSPECTION TOUR of Inco's activities in the Thompson area executive vice-president James C. Parlee and president J. Roy Gordon are seen (facing camera) conferring at the new Birchtree mine site with Manitoba division official, superintendent of mines Horace Baucher (between them), chief engineer Ralph Hawkins, assistant vice-president and general manager Foster Todd, and assistant general manager Harry Peterson.



CONSTRUCTION IS WELL ADVANCED of T-3 shaft headframe, 8600 feet north of T-1 shaft at Thompson. Structural steel for the hoistroom is now being assembled atop the concrete structure shown above. Height of the headframe from the collar to the top of the concrete is 116 feet, and to the hoist room roof will be 151 feet. The headframe is supported to bedrock on the caisson described in the June 1964 issue of the Triangle. Sinking of T-3 shaft, using the permanent headframe and hoist, is scheduled to commence in February 1965. It will be a four-compartment shaft containing cage, skip-counterweight, manway and pipe compartments, and will be used primarily as a service shaft. At ground level the compact surface building containing collar house, mechanical and electrical shops, switch rooms and other miscellaneous service rooms is nearing completion. The changehouse, warm room and offices will be built at a later date.



SURROUNDED BY A GROUP OF WELL-WISHERS, Slim Pera relaxes in the easy chair that was presented to him on his retirement. Standing left to right are Gar Green, Bob Brown, Archie Massey, Arnold Bennett, Wilf Moore, Tom Mulligan, Elmer Pera, (Slim's son) and Jack Pigott.

Dan Kociban

Helping lay the railroad into Plin Plou was Dan Kociban's first job in Canada. He came to Creighton in 1941 and recently retired on disability pension.



Dan Kociban

In the years between he helped lay railroad track in several parts of the country, worked on the Trans-Canada highway and in a bush camp near Schreiber. He just happened to be in Port William in 1941 when the Inco employment agent was there and promptly got himself hired for Creighton.

Dan worked for a time at 5 shaft, then helped sink 7 shaft. Later he worked as skipper there and also on the conveyor.

Born on a farm in Austria 61 years ago Dan had served in the army before coming to Canada. He married in 1927 and has a married daughter and two grandchildren in the old country.

Bothered for some time with a respiratory disorder and lately a touch of high blood pressure Dan is taking life easy now and looking after his health.



Irene T. Dione

Won Garson Softball Title

Winner in the Garson Mine Athletic Association shift softball league was this happy looking team who were shift champs, then won out in the playoffs.—front, left to right Ken Morrow, coach Bert Pilatzke, Garson mine assistant superintendent, Harvey Bangle who presented the team with the Lennie trophy, and Elen Strutt; back, Nelson Beausoleil, Jim Pettigrew, Danny Carroll, Rene Lake, Arnold Morris, Ellis Moratz, Gerry Melcher and Eldon Carmichael. The league enjoyed a good season, had four teams on each shift, produced plenty of action, some heads-up ball and lots of keen, good-natured rivalry.

The mistress was showing her new maid around the house. As they came to the dining room the mistress said, "This dining room table goes back to Louis the Fourteenth."

"That's nothing," replied the new maid, "my whole living room set goes back to Simpson the fifteenth."

year in a provincial meet at Huntsville, and at the International Ski Meet at Duluth in 1941 the top cross-country skier was Paul Jansson. However, the race he likes best to recall is one he lost by seconds, a 50-kilometer cross-country event in the beautiful Laurentians. "It took me three hours and 42 minutes to cover the course," he said. "I lost the trail two or three times."

On the walls of Paul's comfortable home and on shelves in display cases are dozens upon dozens of trophies, cups and medals he has won over the years and prominent among them is a worthy tribute, a life membership in the Sudbury Ski Club.

"I won my first race in 1908," grinned this flying Finn, "and my last race in 1954." That was a 2-kilometer cross-country contest and Paul was close to 56 years of age. Some eight years earlier he had suffered a heart attack that would have sidelined many men for good. But not Paul. Within

a year he was skiing again and back in competition soon after.

Paul was a skier and runner in Finland before coming to Canada in 1923. He came right to Sudbury and at various times worked in the bush, at the old Murray Mine, with local contractors, in the local ski factory and on construction, and also operated his own steam bath. He started at the smelter in 1944, two years later he moved over to the general office.

In 1927, Paul married Siiri Ristonen. Their daughter Rita is married to Bill Klemp of the Copper Cliff electrical department. The four grandchildren get regular ski lessons from a master.

Paul made a trip back to Finland in 1947 but is not planning another at this time. He has plenty to do around home caring for his wife, a semi-invalid, keeping his bikes in shape, making his own special ski wax, enjoying a "sauna" and of course, skiing and biking.



The lunch room at the Copper Cliff general office was filled to capacity for a farewell to Paul Jansson, genial janitor for the past 18 years. Administrative assistant R. G. Dow is shown as he expressed everyone's good wishes to Paul for a happy retirement, then presenting him with a gift of money. On the left are building superintendent Gordon Henry and assistant vice-president I. M. Gaetz.

Paul Jansson

Living proof that regular daily exercise, preferably outdoors and reasonably vigorous, will keep a man trim and active well into the "sunset years," is Paul Jansson, popular janitor at the general office in Copper Cliff, now retired on service pension.



Mrs. Jansson

To Paul, who at 65 plus looks more a frisky fortyish, car or bus travel to work was taboo. In the 18 years he served at the general office Paul claims he always made the daily 12-mile round trip from his Trout Lake home on

bike or skis. "And if I couldn't ski or ride the bike then I walked," he grinned, "and I was never late."

His best time on his bike was 12 minutes one way, and that on his 64th birthday. Paul has three bikes, all multi-g geared Italian-made speedsters, and many pairs of skis.

Paul Jansson's name is synonymous with skiing in the Sudbury area and rightly so. Since his arrival in 1923 he has been tireless in his enthusiasm for this great winter sport, both as a promoter and participant. In particular, he enjoys helping the youngsters.

In his more active days, Paul was among the best cross-country skiers in the country. Of the many races he won, three stand out. At a Dominion ski meet in Port William in 1939 he placed first, was first again the following

Interesting 1964 Visitor in Canal at Port Colborne



A highlight of the year at Port Colborne was the appearance in the Welland Canal on August 2 of the full rigged sailing ship Christian Radich, a Norwegian training ship on a goodwill tour of the Great Lakes. The ship gained renown in the title role of the Cinerama spectacle "Windjammer". In this snap by Warren Koth he appears to have picked up a couple of modern extra masts, but they're really the stacks of the Inco nickel refinery in the background.

THOMPSON TEEMS with community activity, and here's the organization basically responsible, the Thompson Community Club executive: seated, Jolly McKinley, Roy Hill (vice-president), Bill Agnew (president), Roy Bibeau (secretary), Ron Mulvey (treasurer); standing, Gene Burtnyk, Wally Beketo, Red Sangster, Jack McDougall; not shown, Hawley Duncan, Wally Latimer.



Murray McKenzie

A king-sized Christmas present has been received by the town of Thompson, northern Manitoba's thriving new metropolis.

It will take some months to unpack, assemble, and put the present in working order, during which the community will be hard-pressed to restrain its enthusiasm and eagerness, but the gift is one that will keep on giving for generations to come.

Through the initiative, co-operation and generosity of local groups and federal and provincial agencies, the local government district of Mystery Lake, of which Thompson is the hub, has purchased buildings at the old Distant Early Warning Line station at Bird, Manitoba, 150 miles east of Thompson.

Now being dismantled for re-assembling at Thompson, the



THIS HELICOPTER HANGAR from the DEW Line station at Bird, Manitoba, will become Thompson's arena with regulation ice service, eventual seating for 1000 people, dressing rooms, showers, etc.



THE BIG BIRD RECREATION BUILDING, moved to Thompson, will contain a full-sized gymnasium, exercise and game rooms, shower room, lounge, committee room, hobby rooms and recreation director's office.



THESE THREE HOUSING UNITS will be joined to provide Thompson with a new curling rink with six sheets of ice, spectators' gallery.



PROCUREMENT OF BUILDINGS and other facilities for community activities at Thompson is the responsibility of the Thompson Community Center Corporation, incorporated in 1963 as a non-profit organization. Officers and directors of this key corporation are shown above: seated, Arne Sorenson (vice-chairman), Don Munn (secretary), Jack McConnell (chairman), Don Crummy (treasurer); standing, directors Rev. Harold Koch, Charles Clarke, Carl Nesbitt, local government administrator, and Otto Bindle.

buildings will provide the town with a splendid recreation complex consisting of an ice arena, curling rink and gymnasium with complete accessory facilities.

Thompson gets this entire sports complex for less than what it expected to pay for an ice arena. A full time recreation director will be engaged.

Funds donated by various public-spirited firms and citizens, plus the balance made up by the local government district, will complete the original financing. Membership fees of \$2.00 per month in the Thompson Community Club, which all citizens are expected to join, will be used to help defray operating expenses.

The complex will be erected on a 40-acre site between the Thompson High School and the Burntwood River.

Architects are now working on drawings for the extensive structural re-design necessary to transform the helicopter hangar into an ice arena, and also on drawings for the concrete foundations of all three buildings. Pouring of the concrete will not be attempted during the winter months, but will get underway as early as possible next spring.

Title to the land and buildings will be retained by the local government district.

In addition to various buildings, the local government district also obtained from the Bird radar station a water treatment plant, sewage disposal plant and four large boilers to provide central heating.

Alf Mitchell

When the sinter plant started up at Copper Cliff in 1948 Alf Mitchell went there as an operator. Several years later he joined the supervisory staff and moved over to the fluid bed roasting plant.

Alf has been bothered with arthritis for many years so he agreed with his doctor when a disability pension was suggested. He had worked at Copper Cliff since 1936. "I started working for Frank Wulf in the Orford building," he said. "Ran a Baker truck there for several years."

Alf came over from England when he was 10 years old. "There was a man running a scheme whereby young English boys of poorer families were brought over to Canada to work on farms and attend school. I was one of them," he explained.

He spent six years near Lindsay, then headed for Hamilton where he farmed and worked on construc-

Mitchell in 1930. Their family includes Charlie, in the research department at Port Colborne, Phyllis (Mrs. C. Lalonde) of Chelmsford, Doris whose husband Alan St. Jacques is at Levack, Harry in Toronto, Lois (Mrs. L. Armitage) at Camp Borden and nine grandchildren.

The Mitchells have a camp on Lake Nipissing where they now hope to spend about eight months each year. "In the winter we'll probably travel more," said Alf. Next year they intend to make a trip to England. Back in 1954 Alf made the trip home on a \$1,000 Inco suggestion plan award he won for suggesting certain improvements in the sinter plant operation.

CONFUCIUS SAY

An Eskimo, suddenly coming into quite a chunk of money, sought some status symbol in keeping with his newly acquired affluence. He decided to equip his kayak with a stove, and became the envy of the igloos as he hunted the seal in solid comfort.

But one day the stove burned a hole in the bottom of the kayak and the whole kaboodle sank beneath the waves. The Eskimo barely made it to an ice floe, where he sadly contemplated the ancient saying, "You can't have your kayak and heat it too."

SMART KID

"Junior is only five, and he can spell his name frontwards and backwards."

"What's his name?"
"Otto."



Mr. and Mrs. Mitchell

tion. In 1936 he came to Sudbury and worked for Fraser-Brace before joining Inco.

Lottie Nevills became Mrs.

Copper Cliff Smelter and Frood-Stobie Mine Stand Tall in Safety Spotlight



Copper Cliff smelter, with a fine three-months accident-free period glowing in the record book, finally wrested the Inco all-plants safety title from Creighton, custodians of that distinction since 1960.

Creighton worked 242,503 accident-free shifts or almost 2 million safe man hours to set the record. The smelter boys have now set a new mark of 2,024,877 safe man hours which they reached on November 15. Earlier, on November 10, they had passed the 2 million safe hours mark when the above picture was taken. Shown are Company officials, and representative members of supervision in the back row with the oldest and youngest members of their departments ranked in front of them to signify a shared effort.

On the left are assistant general manager J. A. Pigott and superintendent of smelters J. N. Lilley, and on the right general manager T. M. Gaetz and reduction works manager R. R. Saddington, who were present to offer their personal congratulations to the safety-conscious smelter force.

In the main group, by departments, are assistant electrical superintendent T. C. Robertson with Jack Buchanan and Cliff McLeod; plant metallurgist I. W. Laing with William Lock, Conny Canapini; mechanical superintendent F. G. Burchell with Don Brown, Jim Shrigley; electric and blast furnace department superintendent Norman Kneeshaw with Mario Simonetti and Albert Signoretti; converter superintendent

J. R. Feick with Raymond Rheault and Tony Pollesel; superintendent of transportation J. C. MacKinnon with Ardwin Midgley and Leo Gauthier; assistant reverberis superintendent R. J. Neal and assistant smelters superintendent F. R. Matte with Roger Pennette and Chip Ceppetelli; sintering and separation department general foreman M. Kostash with Lorenzo Beaulieu and Ken Purdy; all plants safety superintendent M. E. Young with smelter safety engineers G. M. Brake and R. E. Sandberg.

Geological Curling

The geological department's 10th annual bonspiel at the Copper Cliff curling rink saw new winners crowned in the two main events.

Ron Lake skipped his rink of Gus Leask, Forrest Goodyear and Allan Massey to a win over Walter Saftic's foursome in the Midwest trophy event while Jack Holloway edged out Tony Lapinski for the second event and the Heath and Sherwood trophy. Waldo Clarke, Don Coates and Paul Clark were other members of the Holloway team.

In the third event Herb Stewart's foursome of Jack Sutherland, Carl Gourley and Guy Bray took the Morissette silverware, beating out Norm York's rink. There were 22 teams entered this year and following the playoffs many of the curlers and their wives enjoyed an evening of curling with Mr. and Mrs. O. Merriam and Mr. and Mrs. R. Williams taking the prizes.



Over the past four years Frood-Stobie mine has averaged two major safety awards per year, and that takes a bit of doing. As safety superintendent M. E. Young stated in his announcement of their most recent award, "Superintendent S. J. Sheehan, his super-

vision and men are to be congratulated on these long-continued efforts and excellent results."

Reason for that accolade was another of Frood-Stobie's now traditional safety drives which, on November 8, 1964, culminated in

their recording 1,002,937 safe man hours worked. Frood are also mighty proud of certain individual safety records, such as the 1,850,000 safe man hours now to the credit of foreman Bill Cushing's crew, or shift boss Fred Steel's 1,122,000 accident-free hours, a performance

that dates back to February, 1950 and is still going strong.

The above group, representative of all departments at Frood-Stobie, was photographed to signal the mine's latest safety achievement.



REG STEEVES AGAIN AT THE ORGAN



NINA RAE ON THE MARIMBA WAS ALSO A POPULAR PERFORMER



WARREN KOTH WELCOMED MEMBERS

400 Enjoyed Fine Evening of Fellowship at Port Colborne's Banquet



R. H. Waddington Addresses Nickel Refinery Chapter

"To the new members and to all other Quarter Centurions, active or retired, the very best of good wishes and the hope that you are all deriving as much satisfaction as I am in being part of this fine, enthusiastic gathering."

This was the cordial greeting of senior vice-president Ralph H. Waddington of New York to the annual dinner of the Quarter Century Club's Port Colborne chapter on November 5.

Mr. Waddington was given a warm welcome at Port Colborne where he got his start with International Nickel in 1923 as a chemist. He became assistant superintendent of the electrolytic nickel refining department in 1926 and held that position until he was transferred to Copper Cliff in 1935 as assistant superintendent of the copper refining division.

The senior vice-president was joined by assistant vice-president and general manager T. M. Gaetz of Copper Cliff in presenting gold membership buttons to 12 new 25-year men, A. Cohoe, J. Durisek, M. Felhazy, S. Gang, E. Lampman, M. Pangratz, L. Puttick, D. Richardson, W. Ruzylski, P. Shelton, F. Sunday, and M. Walker.

New Members Safety-Minded
In his remarks Mr. Gaetz said how much he had enjoyed meeting many of the Quarter Century Club men on the job during his tour of the plant that day. Congratulating the new members he noted with satisfaction that three quarters of them had perfect safety records and the remainder exceptionally good ones. The general manager commended all members of the Quarter Century Club for their assistance in passing on their skill and experience to younger employees of the Company.

Four hundred members turned out for the meeting and were welcomed by the nickel refining division's new manager, Warren R. Koth, who took the opportunity to express the appreciation of his



SENIOR VICE-PRESIDENT Ralph H. Waddington, enjoying a return visit to his old bailiwick of Port Colborne, congratulates one of the new Quarter Century Club members, Don Richardson.

wife and himself for the friendly reception they had been given on coming to live in Port Colborne.

Speaking of the safety program and its continuing importance Mr. Koth noted that it is backed by the strongest endorsement and support of the general manager, Mr. Gaetz.

Replying to a toast to the pensioners, former manager W. J. Freeman thanked the Company for its generous retirement system and also mentioned the pleasure given the pensioners by receiving the Inco Triangle, which kept them in touch with the Company.

Reg Steeves, whose organ music is always a much-enjoyed feature of the Port Colborne meeting, played during dinner and also for the sing-song in which almost everyone joined with gusto.

Eddie and Margaret Zielinski of the Rathford Inn excelled their fine reputation with the very tasty dinner served by their large staff.

A moment of remembrance was impressively observed for members of the club who have died, the large QCC crest above the stage outlined by an amber spotlight while the house lights were dimmed.

High Quality Entertainment

Entertainment chairman Stewart Augustine had arranged a quality program that was roundly applauded by the audience. It included Jack McLean, comedian and impressionist; Maurice Pearson, a very pleasing young tenor; Ruth Walker, glamorous songstress of television and cabaret renown; Harold Bee, the amazing acrobat; Nina Rae, marimbist; Paul Simmons of Toronto was the program producer.

"It has happily been my lot over the years," Mr. Waddington said in commencing his address, "to help in a good number of Quarter Century annual dinner meetings and, as I said at one such occasion, it is not difficult to find here at least part of the reason why Inco is what it is. The great majority of all of us here are linked together by the common bond of a quarter century of working together, through good times and times that were not so good. This mass of service, this huge bank deposit of know-how (and I refer to the grand total of Quarter Century Club membership) is a large part of the solid core of Inco's integrity and strength, a major reason for its confidence in the future."

"Before trying to look into that future," the senior vice-president continued, "let us take a brief look at the past. The quarter century just ended has been a period of spectacular events. It has been a time of phony war, cold war, and total war, and mercifully it has also been an era of great progress. In many fields of man's endeavor there has been more discovery and advancement than in all previous history."

"Since those troubled wartime years, we have seen our country and our Company grow and prosper, and although our peacetime years have been uneasy ones, constantly threatened by enemies of freedom, horrifying new weapons, and new and unpredictable power struggles, we meet tonight in an atmosphere of peace and prosperity, which we all pray will continue."

"And as to the future? We can't, of course, forecast sudden events or new forces that may have national or global impact,

and so affect our own destinies, for better or worse. But there are some things we can see that indicate what the future may hold in store for Inco and for us, and I would like to discuss these with you."

Doubled in 25 Years

This year Inco expects its deliveries of nickel will exceed 400 million pounds. In the year 1939, just a quarter century past, world nickel production totalled just 210 million pounds. Mr. Waddington said.

"These figures, impressive though they be, mean very little until they are linked with the Company's earning ability, which, fortunately for all of us, has also been impressive."

"In 1963, our world-wide earnings exceeded 100 million dollars, a figure we had never before reached. Earnings for the first nine months of 1964 are expected to set a new high record by being better than in either the first nine months or the last nine months of 1963."

"As our chairman said recently, this is the kind of performance that our 64,000 shareholders like to hear about. It is also of the greatest importance to every one of us who looks to Inco for his or her livelihood. For there is a direct relationship between the amount of money that the Company makes and its ability to grow and maintain and expand its work forces. Put another way, high earnings represent the best kind of job insurance we can possibly have. High earnings, in fact, are what make possible the programs that fostered and will continue to foster the Company's strength and capability for expansion."

Competition Is Strong

It must always be kept in mind, Mr. Waddington emphasized, that Inco is in a highly competitive field. There are other producers of nickel. There are producers of other metals and materials who never stop trying to persuade Inco's customers that their product will do the job as well as nickel. "Our customers do not buy nickel because of a fascination for the metal itself nor do they buy our nickel because they think we're fine fellows and all that. The competition being what it is, our customers buy our nickel because we have been able to show them that it is the best thing for them to use from the standpoint of service, quality and dependability. We have not achieved this high plateau cheaply."

In the past decade, the senior vice-president stated, Inco has invested well over half a billion dollars in exploration, new equipment, and modernization of mines and plants. Right at the present time we have many multimillion dollar projects under way which include:

- Preparing the new Birchtree Mine for operation in 1968.
- Construction of greatly increased oxygen producing facilities.
- Erection of a new plant at Copper Cliff to produce Nickel 90.
- Modernization programs at our rolling mills in Hereford and at Huntington and also at Clydach Refinery.

"Some of these projects will be completed this year, others a year or more later but all will contribute to our growth."

(Continued on Page 24)



THE NEW MEMBER here being welcomed into the Quarter Century Club by assistant vice-president and general manager T. M. Gaetz is Maurice Walker. Twelve new 25-year men were enrolled.

Where are they now?

The Triangle traces the careers of 39 Inco Scholarship winners and finds a warmly interesting and inspiring story.

Inco scholarship winners have gone on to make distinguished contributions to the arts and sciences, ornament the noble professions, explore the frontiers of research.

Since the scholarship program for children of employees was inaugurated in 1956 a total of 78 \$5,000 awards have been made. Sixty-seven of the 78 winners have either successfully completed university courses and received academic degrees or are still attending university.

An Inco scholarship pays tuition and fees for a four-year university course and annually provides \$300 to the recipient and a \$500 cost-of-education supplement to the university. The awards are made on a one-year basis and are renewable for three additional years or until graduation, whichever is the shorter period, providing the winners satisfy the academic and conduct requirements of the universities where the scholarships are held.

To trace the careers of the scholarship winners who have graduated from university the Triangle sent out 42 questionnaires and received 39 replies.

These mailed interviews tell a story of accomplishment and ambition that will bring a justifiable glow of pride to the Inco scholarship committee and indeed to all employees of the Company which has made it possible.

Many took the opportunity to express again their gratitude and appreciation to the Inco scholarship program.

Dr. Eugene Wasylenski, a former Coniston boy, wrote, "As an Inco scholarship winner may I express once again my deepest admiration of the International Nickel Company for setting up this scholarship fund which has helped to realize the intellectual goals of so many individuals and to lessen the financial burden of their formal education."

"Many times in the past I have silently thanked Inco for making all of this possible for me. I only hope that I have justified their faith. It is not until later that the full value of the scholarship can be appreciated," wrote Kaarina Tullisalo, formerly of Copper Cliff.

Wendy Rivers of Port Colborne said, "As for the future — who knows? I only hope that I can continue in the good fortune that began when I was born into an Inco family and thus qualified for your wonderful scholarship."

Said Mary Hrobelsky, after answering the questionnaire, "I would like to mention that there would be no such information if it had not been for the kindness and the generosity of the Inco people in awarding me a scholarship upon my graduation from Sudbury High."

Wayne Steeves, Port Colborne: "I would like to take this opportunity to again thank Inco for

their generous assistance without which any university education would have been impossible."

Junith Barron, Toronto: "I have become increasingly grateful every year." Elizabeth Borland, Port Colborne: "I shall always remain most grateful to the International Nickel Company."

Winners whose scholarships are still active and who will be covered in a similar survey a few years from now are: John Feick (Queen's), Violet Jasunas (U. of T.), Margaretta Maki (McDonald Institute), John Farnham (Queen's), Claudia Grassby (Marianopolis College), Terrence Green (Queen's), Ruth Harvey (U. of Manitoba), Ritvo Ives (U. of T.), Peter Myers (Queen's), Beverley Wharton (Queen's), Robert Whiting (U. of T.), John Cupp (U. of T.), Barbara Desotti (U. of T.), Dawn Eros (Queen's), Garry Gaudry (Queen's), Tanya Maenpaa (Laurentian), Sharyn Simon (Western), Robert Strain (U. of B.C.), Grace Adams (U. of T.), Alan Cornford (McMaster), Aris Harbulik (Queen's), David Holmberg (U. of Manitoba), Veronica Popescu (U. of T.), James Roseborough (Queen's), Irene Sadowski (York), Allan Weaver (McMaster).

Now for the news of the Inco scholarship university graduates:

JOHN CLARKE

1958 winner, Port Colborne High School. Son of late John Clarke, pensioner, nickel refinery, Port Colborne.

Graduated in 1962 in chemical engineering from Queen's University and is now enrolled in the School of Business at Queen's in a two-year course leading to the degree of master of business ad-

LINDA WALTER, a 1960 winner from Neuchâtel Junior College, Switzerland, graduated in honors history from the University of Toronto in June 1964. She has worked in the publicity department of Inco-Mond in London and has travelled extensively in Europe. She is now an archivist in the Public Archives of Canada, Ottawa. Her particular section deals with the papers of all important post-Confederation historical figures, a scope for investigation she finds intensely interesting. Next year she plans to commence courses leading to an MA in Canadian history. She is the daughter of James Walter, assistant manager, nickel refinery, Port Colborne.



Feature Four

JOHN MYHER, a 1958 winner from Nickel District Collegiate, graduated from Queen's University with an honor BSc degree in 1962. Awarded a National Research Council bursary he remained at Queen's to obtain his master's degree in 1963 and is now working toward his doctorate in the chemistry department at the University of Toronto. He is presently involved in a study of the reactions of organic ions with neutral gases in a mass spectrometer, and the above photograph shows him thus engaged. On completion of his PhD program he plans one or two years of doctoral research and then hopes to join a university faculty. He is the son of Joseph Myher, carpenter at Copper Cliff smelter.

ministration.

Following graduation John was employed in the research lab at the Inco nickel refinery, Port Colborne and later in the electrolytic department. He is on leave from his Inco duties to take the business administration course.

He was married in October 1963 to Ruth Ann Catherine Kelley of Ottawa, a nursing graduate of Kingston General Hospital. They expect a child this month.

JOHN BROWNLEE

1960 winner, Sudbury Mining & Technical School. Son of Leslie Brownlee, electrician, Creighton.

Graduated from the University of Toronto in 1962 with an honor BA in modern history and was awarded a Woodrow Wilson fellowship for graduate study. He chose Asian history as his field and received an appointment to the teacher-in-training program in the U. of T.'s department of East Asian studies; he teaches undergraduates and also continues his graduate studies in Japanese, Chinese and other Asian history. He has received his MA and is now working toward a master of philosophy degree which he hopes to get next spring.

Since the undergraduate honor course in Japanese studies is just getting underway at the U. of T., John is, so to speak, the whole department at the present time. He will continue as an instructor and expects to be spending some time in Japan.

In August 1963 John married a history classmate, Joan Verral, who teaches for Etobicoke Board of Education.

"Finally," he writes, "I am inordinately proud to report that I have been privileged to add my frogish tones to the bass section of the choir of Kingway-Lambton Church. Joan sits in the alto section directly opposite, where I can leer at her."

CARMEN YOUNG

1960 winner, Port Colborne High School. Daughter of Leonard Young, bricklayer, nickel refinery, Port Colborne.

Graduated from McMaster Uni-



Daughter White

versity in 1963 with a general BA degree. Is now in her second year as a teacher of English and physical education at Glendale Secondary School, Hamilton.

Carmen plans to be married in August 1965.

MARY HROBELSKY

1960 winner, Sudbury High School. Daughter of Roman Hrobelsky, smelterman, Copper Cliff.

Graduated in 1963 from the artist diploma course, faculty of music, University of Toronto. Received a Canada Council grant of \$2,000 and a Yale University tuition scholarship of \$1,000 for further study, and is now working toward her master of music degree at Yale, New Haven, Conn.

Last summer Mary attended a course at Norfolk, Conn. A videotape was made for television broadcast of the performance of a Beethoven String Quartet of which she was a member. She is a member of the New Haven Symphony Orchestra which gives eight concerts a season featuring guest artists such as Rubinstein, Erica Morini, and Van Cliburn.

Following graduation she hopes to teach music in a college or university in either Canada or the United States.

MARION BROWNLEE

1959 winner, Sudbury Mining & Technical School. Daughter of Leslie Brownlee, electrician, Creighton.

Having graduated in nursing from Wellesley Hospital, Toronto, Marion used her Inco scholarship toward a diploma in public health nursing from the University of Toronto.

She was married in 1960 to Ron Ritchie, public school teacher in Richmond Hill who is working toward a BA degree from Queen's University. They have a son, Jimmy, 2.

Marion worked for two years as a public health nurse and thoroughly enjoyed it. Currently, besides being a housewife, she nurses three evenings a week in the cardiovascular unit of Toronto General Hospital, which she finds a tremendously challenging new field of nursing. This unit was recently featured in Weekend Magazine.

Her plans for the future are to have two or three more children and later return to university, probably as an extramural student, to complete a BA or nursing science degree.

LYN SOUCY

1958 winner, Port Colborne High School. Daughter of Eric Soucy, stationary engineer, nickel refinery, Port Colborne.

Although prevented by ill health and other circumstances from completing her honor degree course beyond the third year at the University of Toronto, Lyn has already made a mark in her chosen field of archeology. She received a coveted appointment to the Fortress of Lunenburg restoration commission in the fall of 1963 and spent that winter in Nova Scotia. She supervised excavation under wooden shelters in all kinds of weather including blizzards and minor floods, did most of the archeological photography, and devised and organized a new system of record-keeping for a chaotic collection of artifacts. She was highly commended by the senior archeologist of the project.



LOUISEANN FORSTER, a 1960 winner from Copper Cliff High School, is now on the staff of her alma mater teaching English, French and geography. During her vacations from Queen's University, where she received a BA, she was a French tutor at Muskoka, and also worked on the Sudbury Chamber of Commerce tourist reception staff. She has taught French and physical education at Lockerby Composite School. She is interested in Sudbury Little Theatre Guild and likes curling. Her plans for the future include a year of post-graduate study in Europe. She is the daughter of Phil Forster of the accounting department at Copper Cliff.

She needs university degrees to obtain permanent work in her field and is now endeavoring to arrange a return to her studies.

Immediately following her high school graduation she had an outstanding career in the RCAP and also in business.

LYNDA TRAYNER

1960 winner, Port Colborne High School. Daughter of Omer Trayner, pipefitter, nickel refinery, Port Colborne.

Graduated from McMaster University with a BA degree, then attended the Ontario College of Education for teacher training.

Lynda is teaching English and Latin for the St. Catharines Board of Education. She is planning a vacation in Europe next summer.



Richard Ogilvie, MD Beverly Woznow, BA, RJ

RICHARD OGILVIE

1957 winner, Copper Cliff High School. Son of P. I. Ogilvie, geological department, Copper Cliff.

Graduated in medicine from the University of Toronto in 1960 and interned the following year at Toronto General. Following a year of general practice in Copper Cliff and Sudbury as a member of the Inco medical staff, Dick completed two years of post-graduate training in internal medicine at Montreal General. Is now an associate in the pathology department at University of Alberta, Edmonton. Will complete a residency in medicine in Mont-

eventually to do public relations work for an organization connected with social work or social service, but she has become engaged to be married and her plans depend on where her husband-to-be chooses to do his PhD studies in psychology.



Barbara Jones, BA

Ron Scott, BA, CA

BARBARA JONES

1961 winner, Port Colborne High School. Daughter of John J. Jones, foreman, nickel refinery, Thompson.

Majored in French and English and graduated from St. Michael's College, University of Toronto. Barbara is now teaching in Ottawa at St. Joseph's High School, a co-educational private school. She spent the summer previous to her graduating year in Quebec City, where she lived with a French family and worked as a typist. She plans to do post-graduate work in French at either Ottawa or Laval university.

RONALD SCOTT

1957 winner, Sudbury Mining & Technical School. Son of W. L. Scott of the electrical department at Copper Cliff.

Graduated from the University of Toronto in the honors philosophy course in 1961, receiving the Sanford gold medal for the highest marks in philosophy at Victoria College. Immediately after graduation, Ron joined the Toronto firm of Clarkson, Gordon & Co., chartered accountants, and received his CA degree last September. During his accountancy studies he won the first prize in economics and a place on the Canadian Institute's honors list. Eventually he will consider a career in industry or in the teaching profession.

(Continued on next page)



JACKLYN GLADSTONE, a 1958 winner from Copper Cliff High School, obtained a general BA degree with secretarial science options from the University of Western Ontario. Following graduation she was employed by Inco at Copper Cliff, first working for the director of technical personnel, then the geological department. She is now secretary to A. Godfrey, assistant to the general manager, and resides in Copper Cliff. She is the daughter of Jack Gladstone, converter foreman at Copper Cliff smelter.



MARY HROBELSKY won several Inco prizes at the Sudbury Kiwanis music festival, then went to the University of Toronto on an Inco scholarship to continue her music studies.



JUDITH MacKINNON, BScN Robert Stamp, BA, MA

JUDITH MacKINNON
1956 winner, Copper Cliff High School. Daughter of J. C. MacKinnon, superintendent of transportation, Copper Cliff.

Received her BSc in Nursing degree from the University of Toronto in 1959. Her broad professional experience has since included Stanford University hospitals, California, Victorian Order of Nurses, psychiatric nursing in St. Paul, Minnesota, clinical supervision at the Ontario Hospital in London, and most recently industrial nursing.

In 1960, Judith was married at Copper Cliff to Gary Baker, electrical engineer, who has recently been transferred from London to Chicago by his firm, Minnesota Mining & Manufacturing. They have a year-old daughter, Lisa Alison. A strong believer in Betty Friedan's "The Feminine Mystique" theories of women assuming professional responsibilities after their families have grown, Judith will keep her hand in as a nursing volunteer for mental health associations until she has the time to concentrate on psychiatric nursing.

ROBERT STAMP

1957 winner, Port Colborne High School. Son of Thomas Stamp, boxman in the electrolytic department, Port Colborne.

An honors graduate in arts from the University of Western Ontario in 1959, Bob went on to earn his MA in history from the University of Toronto in 1962 on a Canada Council fellowship. He has recently begun part-time work toward a doctorate in history at the University of Western Ontario.

He is employed as a teacher of

history at London South Secondary School. He spent the summer of 1962 in Europe.

He married Arlene Louise Smith of London in 1960. Their daughter Shelley Anne was born in 1963 and they are expecting a second child in February.

Bob's plans for the future are unlimited. He has several ideas in the field of education going around in the back of his mind, and will be heard from.



PATRICIA BRIGGS, BA John Campbell, BA

PATRICIA BRIGGS

1960 winner, Copper Cliff High School. Daughter of George Briggs, miner, Creighton.

Majored in English language and literature at the University of Toronto, receiving an honours degree in June, 1964. Was awarded two fellowships for post-graduate studies in English but decided to leave the academic field for the time being.

A northerner by birth and inclination, Patricia took a teaching position in North Bay after attending OCE last summer, is now trying to keep one step ahead of 135 English students at Chippewa Secondary School and is "completely absorbed in the whole adventure". Later she plans to return to the university community for her MA in English. She also yearns to travel.

During her university vacations Patricia worked in the purchasing department at Copper Cliff. She sends a hearty "Merry Christmas!" to all her friends there.

JOHN CAMPBELL

1959 winner, Copper Cliff High School. Son of W. F. Campbell, storekeeper at the Copper Cliff reduction works.

A graduate of Queen's University, John Campbell is a high school teacher on the staff of Lockerby Composite School, Sudbury, and resides in Copper Cliff.



ELIZABETH BORLAND, BScN Daniel Deacon, BA, MA

ELIZABETH BORLAND

1959 winner, Port Colborne High School. Daughter of the late J. W. Borland, pensioner, Port Colborne.

Graduated last spring from University of Western Ontario with a BScN degree in the field of public health. Joined the staff of Port Colborne General Hospital until July, when she and her fiancé, Han A. Vanspyk, flew to Holland where they were wed on July 25, delighting in the tradi-

tional Dutch custom of travelling to the ceremony in horse-drawn carriages. They went to Amsterdam, London and Paris for their honeymoon, now live in Montreal where Elizabeth's husband is a time and motion standards specialist in the engineering department of Canadian General Electric.

Elizabeth has joined the staff of Greater Montreal VON, finds the work both interesting and challenging. She expects to continue in it for two years before starting to raise a family. She and her husband, "very aware of the need to adopt a broader way of life here in Quebec", plan to take further courses in the French language. They want to see all of Canada and eventually may settle in British Columbia.

DANIEL DEACON

1959 winner, St. Charles College, Sudbury. Son of T. J. Deacon, clerk in Creighton mine time office.

Danny attended St. Michael's College, University of Toronto, obtaining his BA in 1962 and his MA in 1964, majoring in philosophy. He is now studying law at Osgoode Hall, Toronto.

During his university summers he worked for International Nickel and Algoma Steel.



MAURICE ST. LOUIS, BA, MA Wendy Rivers, BA

MAURICE ST. LOUIS

1959 winner, Sacred Heart College, Sudbury. Son of Ernest St. Louis, tippleman, Stobie mine.

Majored in political economy and received his BA from Laurentian University of Sudbury in 1961. Then obtained his master's degree in business administration



LYNN SOUCY, whose field is archeology, is shown working on the excavation of a burial ground at the Bennett Site near Hamilton, typologically dated at 1250 A.D.

from the University of Western Ontario in 1963. He is now enrolled in first year law at Osgoode Hall, Toronto. He received the Governor-General's gold medal while attending Laurentian, and the William Bruce Henderson bursary upon entering Osgoode Hall.

Last year Maurice was employed by Steel Company of Canada at Hamilton to do some work in the field of computer programming.

He intends to practice corporation law.

WENDY RIVERS

1961 winner, Port Colborne High School. Daughter of Robert R. Rivers, foreman, nickel refinery, Port Colborne.

Attended McMaster University, Hamilton, graduating with a BA after majoring in English, is now teaching English and physical education at Dundas District High School after attending OCE last summer. Feels that being an Inco scholarship winner also helped her get her first job.

Summer courses and winter teaching is Wendy's program for the next three years, to establish her in her profession.

"I am not married — yet," she wrote in answer to our enquiry.



KAARINA TULISALO, BA, BPhE Richard Adam, BA

KAARINA TULISALO

1959 winner, Copper Cliff High School. Daughter of the late Kosti Tulisalo, plateworker at Copper Cliff, who died in 1952.

Received her BA and also a degree in physical and health education with distinction from Queen's University. Has also completed work for her specialist's certificate in physical and health education from the Ontario College of Education. Is presently head of the girls' physical education department at Waterloo Collegiate, which has 1700 students.

During the past summer Kaarina went to Europe to tour England, France, Switzerland and Italy, and visit relatives. In northern Finland she attended a summer course at Kuortane to learn the rhythmical gymnastics for which Finnish women are world famous. She is very enthusiastic about her profession and field, and hopes to make herself more competent in both through further study.

RICHARD ADAM

1958 winner, University of Sudbury. Son of Alfred Adam, mechanical department, Copper Cliff smelter.

After obtaining his BA degree from the University of Sudbury, Richard took post-graduate studies at the University of Toronto and the University of Montreal toward a master's degree for which he will write his thesis next summer. Later he plans to go to Europe to study for his doctorate.

He has taught school in Mont-

real, Val d'Or and Three Rivers, and has travelled extensively in the province of Quebec in which he has chosen to reside.



Fred Scinto, BA, CR Sam Stewart

FRED SCINTO

1957 winner, Sudbury High School. Son of Dionigi Scinto, mechanical department, Copper Refinery.

Graduated from University of Western Ontario in 1959, taking the honors geography course. That fall, after a trip to Mexico, Fred entered the University of St. Jerome in Kitchener where he taught geography and studied philosophy. Completing the two-year course in philosophy he then entered a religious community in the Catholic Church, the Congregation of the Resurrection, spent his 14-month postulancy and novitiate period at Dundas, then for his theological studies was sent to St. John Cantius Seminary in St. Louis where he is in his third year studying for the priesthood. At the same time he is working toward an MA in medieval history at the University of St. Louis.

To gain practical experience in pastoral work he is doing adult education work among the Negroes.

SAMUEL STEWART

1960 winner, Nickel District Collegiate. Son of John Stewart, miner, Garson.

Is in his fifth year as an undergraduate in the faculty of medicine at the University of Toronto. Having completed the two years of basic sciences and humanities and two years of medical sciences, he is now in the first of two years of clinical medicine.

He is learning judo and karate at the University athletic centre.

During the past three summers he has worked for Inco, two summers in the first-aid department and last summer at the Copper Cliff Hospital.

After his graduation and one-year internship he plans to go into general practice for one or two years and then return for post-graduate studies leading to a fellowship. Pediatrics and internal medicine are the specialties he favors at present.



Eugene Wasylewski, MD Donald A. Riou, BA, LLB

EUGENE WASYLEWSKI

1956 winner, Coniston Continuation School. Son of Walter Wasylewski, feeder boss at Coniston smelter.

Eugene graduated in June, 1962, from the University of Toronto with the degree of doctor of medicine. He served a year's internship at Toronto Western Hospital, and has since been studying on a post-graduate fellowship in general surgery at the Cleveland Clinic Foundation in Cleveland, Ohio. Next July he expects to enter specialty training in otolaryngology at the University of Michigan in Ann Arbor.

DONALD RIOU

1955 winner, Port Colborne High School. Son of Allan Riou, subforeman, nickel refinery, Port Colborne.

Received his BA degree from the University of Toronto in 1959 and then entered Osgoode Hall law school, where he was granted his LLB in 1962. He was called to the bar on April 10, 1964, and is now associated in the practice of law with Edward W. Tyrnill, QC, in the town of Port Erie.

He is a member of the Port Erie Kiwanis Club and of the Intermediate A hockey team executive.



Robert Stemp, BSc Lynn Passi, BA

ROBERT STEMPE

1957 winner, Copper Cliff High School. Son of Charles Stemp, shift boss, Copper Cliff smelter.

Graduated in 1961 from the University of Toronto with a BSc degree in engineering physics. After four months of field work doing seismic exploration in Wyoming he returned to the U. of T. for a year's graduate work in geophysics.

Bob was married in Toronto to Sandra McAdam of Ponthill and has two sons, Ian Charles, 2, and Thomas Bruce, 3 months.

For the past two years he has been employed by Canadian Aero Mineral Surveys Company of Ottawa as a geophysicist. Since February of this year he and his family have been based in Tucson, Arizona, enjoying the wonderful sunshine. He expects the grandparents will make a trip down in January to see their latest grandson. He enjoys his work immensely and expects his career will take him to all the corners of the world.

LYNN PASSI

1958 winner, Sudbury High School. Daughter of the late Eero Passi, Inco pensioner and former yard foreman at Frood mine.

Graduated from the University of Toronto in 1962 with BA in modern history. Received one of 10 honor shields given the graduates who contributed the most to student life at Victoria College.

Lynn taught English and history at Sudbury High School for one year, then married Peter Newbery and lives in Toronto where he is a theology student at Emmanuel College. He is also an officer of the Canadian University Services

Overseas, and last year he and Lynn made a tour of the West Indies placing Canadian university students in short-term jobs where they can contribute to economic and social progress.

Lynn is now teaching English and history at Central High School of Commerce, Toronto. Of her Inco scholarship she said "The financial assistance was of immeasurable assistance to my family and myself."



Walter Kozar, BA Elizabeth Quance, BSc

WALTER KOZAR

1957 winner, Port Colborne High School. Son of Walter Kozar, Mond reducer operator, nickel refinery, Port Colborne.

Graduated from McMaster University, Hamilton, in the honors course in French and Latin. Has since taken courses in public administration at Carleton University, Ottawa, and is working on an accounting degree.

On graduation joined the federal civil service as a junior executive officer in the Department of Northern Affairs and Natural Resources. On a special assignment, Walter was assistant to the administrative secretary of the Resources for Tomorrow Conference, then returned to Northern Affairs as a staff training officer. Since January, 1964, he has been assigned as administrative officer for the Royal Commission on Bilingualism and Biculturalism.

He married Gwyneth Esther Mills, at Ottawa, in May, 1963, and expects an addition to the family this month.

ELIZABETH QUANCE

1959 winner, Copper Cliff High School. Daughter of J. E. Quance, then assistant chief engineer, Copper Cliff.

Received her BSc degree from the University of Toronto in 1963 upon completion of a four-year honor science course in physiology and biochemistry. Elizabeth was awarded a Province of Ontario fellowship for the academic year 1964-65 to pursue studies leading to an MA but relinquished the award when she decided to take up teaching as a career.

She is now attending Ontario College of Education and hopes to teach science in Toronto in the coming year.



Kent Young, BSc, MSc Mildred Istona, BA

KENT YOUNG

1959 winner, Copper Cliff High

School. Son of C. A. Young, agriculturist, Copper Cliff.

Graduated with honors in chemical engineering from the University of Toronto in 1962, then commenced post-graduate studies doing research centred on heat transfer with nucleate boiling. Kent was awarded a Ford Foundation fellowship in 1963. Early in 1964 he completed requirements for his master of science degree, and is now continuing research studies toward his doctorate.

Last summer he presented a paper on his MSc work co-authored with Professor R. L. Hummel of the U. of T. to the 7th national heat transfer conference sponsored jointly by the AIChE and the ASME.

His ambitions for the future include obtaining his PhD in the spring of 1966, followed by either post-doctoral research on some ideas he has developed, teaching in a younger Canadian university, or industrial research if a sufficiently interesting opening is available in Canada.

He married Wenda Gimby, of Toronto, in 1962. She is a teacher at Cedarvale Public School in Toronto. Their family is still in the planning stage.

MILDRED ISTONA

1957 winner, Sudbury High School. Daughter of Anthony Istona, smelterman, Copper Cliff.

Graduated from the University of Toronto in 1961 from an honors course in modern languages and literatures. In September of the same year Mildred enrolled in a special course for college women at the Katharine Gibbs School in Boston, Mass., from which she graduated in June 1962.

Returning to Canada she did editorial work which led last March to a position on the editorial staff of Chatelaine; she is at present assistant editor of Miss Chatelaine, the teen-age fashion magazine, and is the "ghost" behind such articles as Trudi and The Beatles as well as copywriter for the fashions.

"The job has special bonuses," she tells us with a smile. "I've interviewed the Dave Clark 5 backstage at the Gardens, and have clung to Gregory Peck's arm at a press conference!"

Even more important to her than her job, though, was her marriage last May to Anthony Brown, originally from Cambridge, England, and presently a management consultant.



Wayne Steeves, BSc Judith Barnes, BA

WAYNE STEEVES

1959 winner, Port Colborne High School. Son of Reg Steeves, ironworker, nickel refinery, Port Colborne.

Graduated in 1963 from Queen's University in electrical engineering and was immediately employed by Ontario Hydro. After going through (Continued on next page)

their engineering training program Wayne has now settled down in Peterborough as district protection and control engineer.

He is very enthusiastic about his field of work and his connection with Ontario Hydro.

JUNITH BARRON

1961 winner, Leaside High School, Toronto. Daughter of J. Bruce Barron, Alloy Metal Sales, Toronto.

Received her BA from the University of Toronto last spring, having majored in mathematics in the general arts course at Victoria College. She is now studying physics, differential equations, computer programming, complex analysis and design of experiments (statistics) in preparation for the diploma course in computers and data processing offered by the Institute of Computer Science at the University of Toronto, which she plans to enter next year.

Junith became interested in computer programming a year ago and last summer had a job with Honeywell Controls in Toronto that intensified her interest. She feels it is an expanding field, offering great opportunity.

She teaches Sunday School and is on the executive of the University Club at her church. Very active in extracurricular activities at university she was awarded the coveted U of T "Senior T".



Susan Dunbar, BA Karl Sarlin, BSc

SUSAN DUNBAR

1956 winner, Copper Cliff High School. Daughter of D. M. Dunbar, editor, Copper Cliff.

Graduated from McGill University in 1960, having majored in history and political science. Following graduation Susan worked for a year in the publicity department of Inco-Mond, London, then returned to Canada and taught English for six months at Sheridan Technical School, Sudbury. She then spent a winter in Austria and Germany, studying art and German, after which in 1963 she joined the International Service of the CBC in Montreal as a script and scenario writer on television programs portraying various facets of Canadian life for distribution to some 160 foreign countries.

She was married at Copper Cliff in the spring of 1964 to Leonard Kitchener and now resides at Port William where her husband is on the engineering staff of Great Lakes Paper Company. She is doing some part-time teaching.

KARL SARLIN

1956 winner, Copper Cliff High School. Son of Silvio Sarlin, roaster department, Copper Cliff smelter.

Graduated in chemical engineering from the University of Toronto in 1958, and has since taken special courses at McGill and Waterloo universities.

Karl worked in the engineering department of British American Oil's Montreal refinery for four

years following his graduation, and for the past two years has been on the engineering staff of Dominion Rubber's Naumestuck chemicals division at Elmira, near Kitchener.

He is a member of the Elmira Jaycees which are currently promoting fluoridation of the town water supply.

He was married to Shirley Elliott at Westlock, Alberta in July 1960. Their first child is expected this month.

True to Finnish tradition, Karl's new home at 14 Bluebird Place has the only basement sauna in town.

R. H. Waddington

(Continued from Page 19)

tribute to and, in fact, are essential for our further growth and prosperity."

SD Nickel Doing Well

One project, completed about a year ago, was the development at Port Colborne of SD Nickel which has been tremendously successful as a new material for the electroplating industry. "You will be pleased and proud to know," Mr. Waddington told his audience, "that SD Nickel is giving Inco a strong advantage in competing with other suppliers of nickel for use by the plater".

"However, the race is never over because we live in a world of rapid change. New technologies are emerging all the time. Standards of living are being upgraded in more and more countries. New products undreamed of a few years ago are coming on the market and others are constantly being developed. At the same time, still other products are falling by the wayside. It's vital for us to have expert knowledge of these constantly changing trends, so that we can adapt our product and our methods to accommodate them.

"To back up the task forces in the field we also invest large amounts of money in research and marketing. We look for new uses and applications of nickel to expand a particular market or to replace a market that has become obsolescent.

"We thus work with manufacturers to find out how nickel can be used to their advantage in their products. We also work ahead of the manufacturers, finding a product or potential product using nickel that they might make — and bringing it to their attention. These activities take us into many different fields — automobiles, airplanes and airplane engines, submarines, industrial equipment, electroplating, building construction, oil refining, rocket ships and missiles. And a host of home appliances and other consumer products. The list is long because, fortunately nickel is a very versatile metal.

Fascinating New Tools

"Last Thursday, I had the pleasure of attending the dedication ceremony at the Company's new Research Laboratory, about 35 miles north of New York. The tools of the modern scientist are unbelievably complex and, I may say, costly. One of the instruments shown was an electron microscope of the latest design. With this microscope it is possible to resolve details as elusive as 40-billionths of an inch in diameter. If a photograph is made using the electron micro-

scope, and the photograph is enlarged, a useful magnification of 500,000 times can be achieved. Under these conditions a human hair would have the outline of a tree trunk 80 feet in diameter.

"But these are not gimmicks merely to impress visiting customers. With the microscope referred to and another device called an electron probe, the innermost secrets of crystal orientation, phase dispersal and alloy constitution are determinable.

"Our investments in finding, researching, processing and selling nickel, which are paid for out of earnings, are necessary to survival and vital to growth. The fact that all of us are here tonight is testimony to the success that our Company has enjoyed in its programs to date. In the light of the bright earnings trend which will give us capital to continue pursuing and implementing our many programs, all of us here have every reason to feel optimistic about the future.

"Let me sum it up," the senior vice-president concluded, "by quoting a very illustrious Quarter Century Club member, our honorary chairman, Dr. John F. Thompson, who 10 years ago said, 'It is my firm belief that the size of the world's nickel market is limited only by the imagination and the amount of capital, hard work, energy and skill which those whose business is the production of nickel are prepared to put into its expansion'."

It's a Small World

Louis P. Denaro, general manager of publicity for Inco-Mond, London, tells of a pleasant coincidence:

"As I was looking for a taxi in Kensington High Street, London, for Claudia (the daughter of the Wiggin distributor in Switzerland) a gentleman with a Canadian accent gallantly waved to one that was coming along, foregoing his turn.

"He turned out to be Mr. Harler Vincent Cramer, a machinist at the Port Colborne nickel refinery with even more years of service than my 19.

"It was delightful to meet a Canadian colleague in London. He was on a brief holiday. We had a couple of drinks at my home and he flew back to Canada early next morning on Friday, October 16."

The Star still shines —

the Star that shone first on Bethlehem.

Merchants were busy in the market-place, and government officials did the usual government business;

Camel-drivers cursed their surly beasts through narrow streets, where men sweated at their labor, and beggars whined for alms.

Only a few wise men looked up and saw the Star that shone for every man to see; and only those few men understood the Star's message of hope, newborn at Christmas.

The Star still shines on a world shrunk small; yet, of all mankind, only those who are aware see the Star, and understand its message of hope, reborn at Christmas.

Leo St. Marseille

One of three brothers who joined the Quarter Century Club together in 1960, Leo St. Marseille has now retired on disability pension.

Leo was a Frood man until about three years ago when he joined the blasting gang at the Clarabelle pit. A good miner, he had worked in stopes and pillars while at Frood.

His father was a railroad man at Cartier where Leo was born in 1912. At the age of 15 he too



Mr. and Mrs. St. Marseille

started with the railroad and worked there until coming to Frood in 1935.

Marjorie Marcotte and Leo were married in 1939. They have four sons, Donald in Toronto, Adelaide at the Copper Cliff smelter, Joe at Levack mill, Peter at home, one daughter Beverly (Mrs. C. Bellefeuille) of Waterloo and six grandchildren.

When Leo moved to Blezard Valley 18 years ago he owned a 150-acre farm and worked part of it. Subdividing, today the St. Marseilles have their own home on one large lot and have five more lots set aside for their family; the remainder they sold. "Trying to work the farm was too much for what you got out of it," said Mrs. St. Marseille. "That's why we sold most of it."

PERSUASION NEEDED

The hillbilly held his rifle on the tenderfoot and ordered him to take a swig from the jug of white lightning. The reluctant visitor, seeing the weapon, could do no more than comply.

After downing a long shot of the stuff, the poor fellow gasped. "Wow! What horrible stuff!"

"Yeah," said the mountaineer, "it shore is. Now you hold the gun on me."

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