

INCO TRIANGLE

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Autumn Incense



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Don M. Dunbar, Editor

EDITORIAL OFFICE COPPER CLIFF, ONT.

Critics Applaud Book by Erik Munsterhjelm

Erik Munsterhjelm of the Geological Department at Copper Cliff has become a literary lion.

His new book, "The Wind and the Caribou," has just been published in Canada, the U.S. and Great Britain, and translations will probably be printed in Swedish and Finnish.

The Victoria Colonist has said this about it: "The Wind and the Caribou" is one of the most entertaining and most informative documentary books to be published in a long time about the Canadian Northland and the men who live there."

On the other side of Canada the New Glasgow (Nova Scotia) News reported, "This exciting book is simply crammed with experiences that will delight all who love the wilds and the cold and camping out."

And the Hamilton Spectator's critic wrote, "It's an admirable book, and written with great honesty, some humour, and an extra-



ERIK MUNSTERHJELM

ordinary understanding of the ways of the men — both white and Indian — the animals, and the land itself, in the great expanse which is largely the unknown Canada."

Bookstores across the country have reported brisk interest. In Sudbury an autographing party is being planned.

The happy author was summoned to Toronto to celebrate the auspicious launching. He was entertained by his delighted pub-

lishers, MacMillan, met the Toronto critics and other literary people at a cocktail party in his honor, was interviewed on radio and television.

All this was very okay with Erik Munsterhjelm. The cup of success was particularly sweet because it had been long in the brewing and there had been many a slip 'twixt it and the lip.

He started out to be a soldier, and it was not until he was 22 and had completed his course at the military academy in Finland that he realized his ambition had changed. His Swedish parents, both artists, encouraged him in his decision to travel.

He arrived in Montreal in February of 1928, washed dishes on the night shift at Eaton's bakery and did other jobs for a few months while having his first skirmishes with the new language. In the fall he went west on a harvest excursion and threshed grain for Charlie Anderson and other farmers in the Champion district of Alberta. His harvesting pay was hot in his pocket and he yielded to a yen to see California. There he worked with pick and shovel on railroad construction. One day his great size (he's 6 feet 6 inches tall and arranged in proportion) landed him a job as doorman at Warner Bros. Hollywood Theatre. But a rollicking New Year's Eve crowd got him in dach with the boss doorman by tearing the gold buttons off his uniform for souvenirs, and he went back to the pick and shovel.

He worked on the construction of a bridge, and although it was January the heat was overpowering. Erik looked up at a mountain in the distance and saw its pinnacle covered with snow. It came suddenly to him that he must get back at once to the lakes and forests and the snows and frosts of Canada, which was so much like his native land.

From Edmonton he and a new-found partner, Karl, struck out to try their luck as hunters and trappers in the unspoiled wilder-

Leopard Skin for Bass Drummer



Cadet Murray Lemay of the Copper Cliff Highlanders Cadet Corps pipe band is probably the proudest bass drummer in Canada. Thanks to the citizens of Copper Cliff, Cadet Lemay is now sporting a leopard skin — complete with head and tail — as part of his dress, an honor that few bass drummers in this country enjoy. The animal was shot in Kenya and shipped directly to the corps in Copper Cliff. Mayor W. T. Waterbury, who was instrumental in getting the skin for the Highlanders, is shown above making the presentation to the bass drummer.

ness of the north. "The Wind and the Caribou," named from the Chipewyan Indian proverb, "Nobody knows the way of the wind and the caribou," is the story of their years in the great empty areas beyond Lake Athabasca. Except for occasional meetings with the few Indian inhabitants of this wilderness, it was a lonely life but never for a moment dull. Trapping for fur-mink, fox, muskrat — and hunting for caribou, beaver and bear, kept them continuously busy. The immensely varied life of the wilds, the endless journeyings by canoe along the swift waters and across the innumerable lakes, the problems of house-building and house-keeping, the changing splendours of the seasons, and the rigours of the arctic winter gave them no time for boredom.

From trapping Erik gradually got into prospecting. Although luck eluded him, he came close — at one time he had some claims at Crackstone Point on the north shore of St. Mary's Channel, near where Gunnar Gold is located now. And he helped a pal do some staking near what was to be the Eldorado Ace Lake Mine. There was no particular interest in uranium among the gold prospectors then — the atom bomb was still to come.

In the last three of the nine years he spent up north, Erik prospected for Consolidated Mining and Smelting of Trail. He came out in 1939, most of his grubstake lost in a fire which destroyed his cabin and equipment at Goldfields.

The war took him back to Finland, where he fully discharged the obligations of his early military training. While there, at the urging of friends, he tried his hand at writing down some of the fascinating stories he had told them of the Canadian north. The writing came fairly easily to him and he persevered at it. He became an author. In another field, too, he was successful — Anne-Marie Anderzej became his wife, and they

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INCO FAMILY ALBUM

The cameraman had read of a man without a country but this was the first time he had photographed a man without a name: (1) The young fellow in this picture, only 22 days old, was still waiting for his parents, Mr. and Mrs. Lester Ranta (Garson Mine) and his sisters, Sandra, 10, and Carol Ann, 8, to agree on a name for him, so we'll just call him Butch. (2) Mr. and Mrs. Alex Winn (Port Colborne) with Sharon, 10, and Joan, 14. (3) Mr. and Mrs. H. D. "Red" McLelland (Murray Mine) with Bill, 18, Judy, 10, and Bob, 19. (4) Mr. and Mrs. Harold McGinn (Frood-Stobie Mine) with Geraldine, 17. (5) Mr. and Mrs. Jack McConnell (Copper Cliff) with Grant, 10, and Fraser, 7. (6) Mr. and Mrs. Charles Belcher (Levack Mine) with Carole, 12, and Charles Jr., 13. (7) Mr. and Mrs. Jim Dalgie (Creighton Mine) with Simonne, Yvette, Harvey, Lucien, Gerald, and Lionel.



105 New Members Join Quarter Century Clubs This Year at Copper Cliff and Port Colborne

A total of 105 men from Inco's Mining & Smelting and Nickel Refining Divisions qualify this year for membership in the Quarter Century Club.

As this issue of the Triangle went to press preparations were being made for the annual banquets at which the new members would

be welcomed into the distinguished fraternity of men who have completed 25 or more years of service with the Company.

The Copper Cliff branch of the Quarter Century Club was scheduled to meet at Inco Employees Club, Sudbury, with 88 to be added to the membership roll, and the Port

Colborne branch was planning its get-together in the Recreation Club, with 17 due to join. As usual, in addition to a bountiful spread of good things to eat, special programs of entertainment had been arranged.

Following are photographs of the 105 new members:

Port Colborne Nickel Refinery



STEVE RUSKO
Port Colborne



JOE KELLY
Port Colborne



JOHN LIPEZ
Port Colborne



ALEX PALOCZY
Port Colborne



EMIL GERTH
Port Colborne



OLIVA PIAGNO
Port Colborne



TOM LUKE
Port Colborne



ERNIE BROWN
Port Colborne



ORRON LEROY
Port Colborne



BEN SANKO
Port Colborne



VERN HANHAM
Port Colborne



G. MAITELLO
Port Colborne



STEVE GALL
Port Colborne



HAROLD EDGE
Port Colborne



ROBERT RALSTON
Port Colborne



CHARLIE GIVEN
Port Colborne



WARREN DAVISON
Port Colborne

Sudbury District Inco Plants



PIETER BREGMAN
Copper Cliff



PIETRO PRESSACCO
Copper Cliff



RAYMOND SEALE
Copper Cliff



LORNE HOBDEN
Copper Cliff



J. T. GALLAGHER
Copper Cliff



ARTHUR E. PRINCE
Copper Cliff



M. PUSZKARENKO
Copper Cliff



FRED LUMLEY, Jr.
Copper Cliff



THOMAS E. STRONG
Copper Cliff



WALTER O. WILSON
Copper Cliff



W. McCANDLESS
Copper Cliff



ALBERT POULTON
Copper Cliff



NORMAN H. KEARNS
Copper Cliff



GORDON B. STONE
Copper Cliff



L. A. ENGLUND
Copper Cliff



WILFRED J. RIPLEY
Copper Cliff



ROBERT OIKKANEN
Copper Cliff



WAINO LUOMA
Copper Cliff



ARNE MAKI
Copper Cliff



BILL WELYHOUSKI
Copper Cliff



RALPH D. PARKER
Copper Cliff



PIETRO VECCIA
Copper Cliff



ROY SPENCER
Copper Cliff



VINCENZO POLLESEL
Copper Cliff



PRIMO CAMILUCCI
Copper Cliff



KEITH HARKINS
Copper Cliff



OMYTRO KURYK
Copper Cliff



S. A. CRANDALL
Copper Cliff



MATTI PAKKALA
Copper Cliff



J. A. SHIELDS
Copper Cliff



ANGELO ANZIL
Copper Cliff



FRANK STEKLASA
Copper Cliff



JULIUS SEPPOLA
Copper Cliff



JAS. DAVIDSON
Copper Cliff



JOHN COLLISON
Copper Cliff



CONRAD CAYEN
Frood-Stobie



PAUL DURETTE
Frood-Stobie



HENRY JACQUES
Frood-Stobie



FRED CVAR
Frood-Stobie



YRJO KARI
Frood-Stobie



GEORGE PASSI
Frood-Stobie



HECTOR GASCON
Frood-Stobie



WILBUR HERMAN
Frood-Stobie



THOMAS BUTLER
Frood-Stobie



JACK KARPFI
Frood-Stobie



ALBERT STONE
Frood-Stobie



HECTOR POIRIER
Frood-Stobie



GEORGE HOLMES
Frood-Stobie



EDMOND CHARETTE
Frood-Stobie



MIKE KACHAR
Frood-Stobie



PETER ROY
Frood-Stobie



CHRIS VALLIER
Frood-Stobie



ROMEO FRAPPIER
Frood-Stobie



ROBERT COOK
Frood-Stobie



JUAM GLIHA
Frood-Stobie



HENRY LEBLANC
Frood-Stobie



G. A. DESCHENES
Frood-Stobie



ADELARD J. SAUVE
Frood-Stobie



E. MULCAHEY
Frood-Stobie



FRED W. GILBERT
Frood-Stobie



TOM MATEJKO
Frood-Stobie



LAWRENCE MALEY
Frood-Stobie



FELIX LUOPA
Frood-Stobie



A. MacKENZIE
High Falls



M. DUNSCOMBE
Wabageshik



ABRAMO ZANIER
Creighton



J. H. STEPHENSON
Creighton



BERT BEHENNA
Creighton



ANGUS McLEOD
Creighton



ONNI MALMBERG
Creighton



LARRY JONES
Creighton



TOM SEMENIUK
Creighton



R. TRUSZKOSKI
Creighton



JOE BLOEMMEN
Coniston



LINO PIOTTO
Coniston



PAUL BROZCRAK
Coniston



N. PESTRZELONY
Coniston



MIKE SHINKARUK
Murray



GEORGE MERETTO
Murray



JACK PERTTULA
Murray



FRANK T. CROME
Levack



FRANK LEACH
Levack



ALEK TUOMI
Levack



WILLIAM PAJUNEN
Garson



ARCHIE HENRI
Garson



JUHA PEERLA
Garson



WAINO PAANANEN
Garson



CHRISTIAN WIITA
Garson

Coniston Wins 9th Safe Shifts Award

For the ninth time since 1944 Coniston plant has completed a run of more than 100,000 shifts without a compensable lost-time accident.

The plant worked from March 9 to October 20 without a lost-time injury to ring up the distinguished achievement.

All personnel on the plant roll who worked during this period will be given two theatre tickets good for admission to any theatre in the Sudbury District in recognition of their fine safety record.

IF EVERY ONE

If every one who has a job could lie a month in bed, With broken bones and stitched-up wounds, or fractures in the head, And there endure the agonies that many people do, They'd never need preach safety any more to me or you.

If every one could meet the wife and children left behind, And step into the darkened home where no more sunlight shines, And look upon the vacant chair where Daddy used to sit, I'm sure each careless worker would be forced to think a bit.

SOME SPUD!

Two farmers were always trying to outdo each other regarding crops. One morning the first farmer said to his boy: "Go over to Smith's and borrow his cross-cut saw for me. Tell him I want to cut up a pumpkin."

On returning the boy said: "Smith said he couldn't possibly let you have the saw until this afternoon. He's halfway through a potato."

RECIPE FOR HAPPINESS

"If you want fullness of life, love and give. Keep on loving and giving, against all discouragements, and your nature will become richer and deeper all the while, and other lives will respond to yours. This method has never been known to fail."

Gloria Calandra Honored by Accounting Department Girls



Prior to her marriage, Gloria Calandra of the Copper Cliff Accounting Department was honored by the girls in the general office. She was presented with a steam and dry iron, four pieces of silver birch china and salad and pepper shakers. Miss Calandra was wed in September to Bud Buchanan of the Copper Cliff field engineers.

Almost Caught By Hurricane

Nurse Nell Shames of Copper Cliff hospital staff had Lady Luck very much on her side during a recent holiday trip to Europe.

She was in France when a strike by civil servants was threatening to paralyze the country's transportation system, and she was aboard a ship that crossed the path of an Atlantic hurricane, but both times she escaped without any inconvenience.

"The strike started two days before we were to leave France for Holland to take the boat home," Nurse Shames said, "but at that time only the railroad and postal services were affected and we were able to leave the country by bus. We were fortunate to get out when we did because it was only 24 hours later that we saw in the paper where the buses had been taken off the road and thousands of tourists were stranded."

Her ship was one day out of New York on the return voyage when it ran into an Atlantic hurricane.

She was quick to explain that "it was just the tail end of one, but it certainly kicked up a fuss while it lasted. It tossed the boat around and the waves were rolling almost up to the deck. Most of the passengers were sick but it didn't bother me at all."

Nurse Shames, who made the trip with her two sisters, Dorothy and Esther, and Margaret Fowler of Sudbury, sailed from New York July 3 and arrived in England one week later. She visited England, Holland, Belgium, Germany, Switzerland, Italy and France.

The style of the English girls won her admiration. "From what I had seen and heard, I didn't think they would come up to our standard of dress, but they certainly do. I didn't think the men looked quite as smart as Canadians, though. The girls in Paris were very stylish, too, and the men dress about on a par with the Americans."

"I expected to see more evidence of war damage in England, but it is surprising how

quickly and well they have cleaned it up. It was different in Germany. Frankfurt is still in bad shape, and Cologne and Heidelberg are just now starting to restore some of their more famous buildings."

"In Italy we went on a sightseeing tour of Venice by gondola; it was quite an experience seeing a city built on water."

"I think Paris won our unanimous vote as the most beautiful city in Europe. Everywhere you went it seemed you were surrounded by trees. Our guide told me there are more than 2½ million trees in the city."

"Holland was pretty, too, but the thing that impresses you there is that everybody seems to be riding bicycles. The population

day and the peak was visible; it's 13,360 feet high."

The high cost of living throughout Europe surprised Nurse Shames, "particularly so because I expected before we sailed that it would be much lower than in America. I paid 55 cents in Canadian currency for a cup of coffee and 60 cents for a package of American cigarettes. A box of Kleenex we pay 10 cents for in Canada costs 10 times as much over there."

Garson Takes Northern Title

Turning in one of their best performances of the year, Garson Gunners stopped Sault Ste. Marie 5-0 in the Star Cup final to capture the Northern Ontario soccer championship.

In their march to the championship, the Gunners disposed of the Black Devils, Italia and Polish White Eagles in the Sudbury District Football League. Soo won its way to the finals by defeating North Bay 2-1 in overtime.

It was a different story in the Sudbury district league playoffs, however, as Ukrainians captured the Evans Cup after a tough battle with White Eagles that saw the best-of-three series extended to four games.

The first game ended in a 2-2 tie, White Eagles took the second 3-0, and Ukrainians then extended play to the extra game with a 2-0 victory.

Garson was turned aside in straight games of the semi-finals by Ukrainians. White Eagles had a tougher time getting by Croatian-Adria in their series, taking the first game 2-0 but being forced to a 2-2 tie in the second.

Croatian-Adria picked up the Anderson Cup for finishing the regular season's play on top of the league. They were followed by Ukrainians, Italia, Polish White Eagles, Garson Gunners, Hungaria and Black Devils in that order.



NURSE NELL SHAMES

of the country is 10 million people and we were told that 4½ million bicycles were registered this year.

"In Switzerland, we went to Interlaken from where we saw the famous Mount Jungfrau. We were fortunate that it was a clear



WAITING ROOM of the Company's well-appointed new employment offices, in a recently constructed addition to the second floor of the Inco building in Sudbury, is seen here. Every man applying for a job receives a preliminary interview, whether or not the Company is hiring men at the time.



COMPLETE employment records for all Inco plants in the Sudbury district, a huge fund of information, are in charge of Mrs. Rose McRoberts.

Inco's New Employment Offices Opened

In an addition to the second storey of the Inco building on Frood Road, Sudbury, the Company's new employment offices were recently opened for business.

A large waiting room, interviewing offices, a records room and examining and dressing rooms are included in the attractive layout, designed to handle large numbers of employment applicants smoothly and efficiently. On the walls are framed photographs of Inco plants and operations.

Contact with new employees established in these offices is continued by the personnel officers at the various plants.

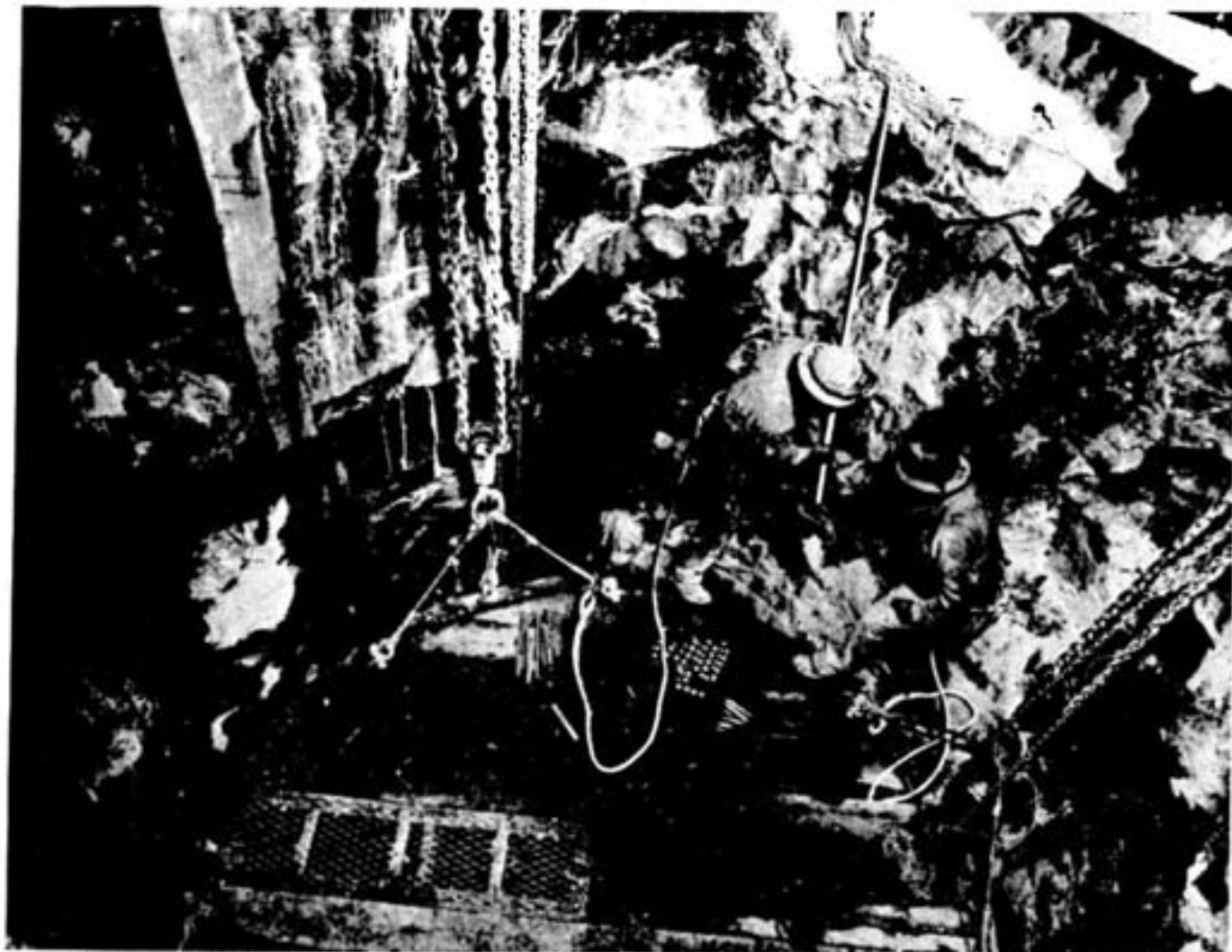
Blessed is he who expects nothing, for he shall never be disappointed. — Pope.



GREG ROY, junior employment agent, interviews an applicant. If hired the man will receive a second, more detailed interview and a thorough medical check-up.



DISCUSSING applications are Dave Chapman, employment agent, and Alex Crossgrove, Inco's director of personnel.



Looking down on part of circular working platform, two miners are seen loading round of holes they have drilled in bench to widen out rectangular pilot raise to diameter of airway. They wear safety belts while working.



On opposite side of platform "Tuffy" Tahvanainen telephones to his deckman on 60 level for supplies which will be lowered in steel bucket by tugger hoist.

Slick Method For Installing New Airway

An underground airway, over 13 feet in diameter and lined with concrete for safety and permanence, is being driven 600 feet straight down through the solid rock at the Creighton Mine of the International Nickel Company of Canada, Limited, near Sudbury.

Part of long-planned preparations for bringing the lower levels of the mine into full-scale ore production, the huge concrete opening will funnel fresh air to workings as deep as 5,000 feet from surface.

Designed to serve the famous Creighton from 58 to 64 levels with 350,000 cubic feet of air per minute, the new airway fits into the mine's elaborate ventilation system, of which the main intake fan is located on 40 level and the main exhaust fan on 30 level.

A portion of the airway is being partitioned off with corrugated iron sheeting to serve as a continuation of the mine's safety manway to surface, and also to carry the pipelines in which sand fill will be sent down from surface to replace ore taken from the stopes when mining gets underway.

It has no connection with the separate ventilation system which has been established for the large area of the mine in which the



Part of the sectional steel forms are seen in place, supported on pins and blocking, ready for pour of concrete. Also in picture are manway compartment partition, manway ladder, concrete pour pipe, and three of four platform chain blocks.

new program of mining lower grade ore by induced caving is now in full swing.

An innovation at Inco is the special construction method by which the big air shaft is being installed. A pilot raise, 7x11 feet, is first driven upwards in 200-foot sections by regular mining technique. Then, working from the top down, each section of the pilot raise is widened to the dimensions of the circular airway, 13 feet 6 inches in diameter, and is concreted.

Widening and concreting operations are carried on from a circular platform suspended on four sets of chains from eye bolts driven into a finished "lift" of the airway wall. Working from the platform, miners start the construction cycle by drilling off and loading a circular 10-foot bench which will round out the rectangular opening of the pilot raise. The platform is pulled up during blasting; the broken rock drops down the pilot raise and is trammed away on the level below.

When the platform is returned to working position after a blast, and scaling for loose has been done, holes are drilled for the steel pins to support the cylindrical sectional steel forms for the next pour of concrete. The forms are lowered, blocked and braced to the bench, and lined up. Hitch boxes are set in to leave openings for the steel dividers supporting the manway platforms and partition, and all is then in readiness for the pour. A connection is made to the concrete pour pipe which has been carried down in the manway compartment as construction of the airway

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Looking up this 200-foot section of finished airway, from 60 to 58 levels, can be seen two of the eye bolts which supported working platform at one stage in construction.



A batch of "50-50" clay has just been mixed in the pug mill and is being sliced up by Henri Kingsley (right) and Gerald Gameche for delivery to the reverb furnaces.



Swamp clay is being used here to streamline a matte mould. E. Belanger (nearest camera) and V. De Grechie apply the clay, J. Beausoleil shovels it from the box.

Smelter Needs 800 Tons Clay Every Month

Clay — more than 800 tons a month of it — plays an important part in the operations at Copper Cliff Smelter.

It's used for refractory purposes where no metal could stand up to the terrific heat and chemical action of molten matte or slag, such as patching moulds, lining matte and slag chutes, making buds (plugs) for furnace tap holes, and claying the lips of converter stacks.

Some of these jobs call for a tougher clay than others, so three different types are used — fire clay, "50-50" and swamp clay. Fire clay is free of impurities and is the strongest; swamp clay contains some sand and loam; "50-50" is a mixture of the two.

Fire clay gets the important assignments. It is used to bud up the matte tap holes in the reverb furnaces and for lining the bowls of matte chutes. Matte coming out of the reverbs at about 2,200° F. would quickly eat through buds and linings made of an impure clay, such as the "50-50" or swamp grades.

Like the matte, slag comes out of the tap hole at about 2,200° F., but it freezes much more readily and can therefore be stopped by a bud made of "50-50". When the slag hits the bud it freezes in a matter of seconds and helps plug the hole. The bowl of the slag chute is also lined with "50-50".

Swamp clay is the workhorse. It is used for "streamlining" matte moulds, lining matte chutes, sealing the gas line and lining the lips of converter stacks.

Fire clay, which comes from mines at Mount Jewett, Penn., is stored in a bin at the Orford building, while swamp clay, purchased locally, is stored near the pug mills at the east end of the smelter.

In the pug mills the fire clay is ground with water to make it pliable. The secret of turning out a good mix is knowing how much water to add. Too much water in the clay results in a bursting of the bud when the matte hits it.

There are two mills working during each shift to keep up the clay schedule, one exclusively on fire clay and the other on swamp clay and "50-50".

It takes only a few minutes for the mill to churn the clay into a pliable substance which can be moulded into any desired shape. A



Waldo Stonehouse, a reverb furnace tapper, puts finishing touches to a bud.



Reverb furnace tapper Tony Scarsellone (left) is about to bud up a tap hole. The mattemen helping him are Hector Giroux, with the hammer, and Jack Gibbons.



Members of Sudbury Hardrocks football team are shown above: Larry Napran (trainer) in front with the waterboy. 1st row: Don Goddard, Jim McGauley, Cecil Brown, Randy Pierce, Ross McPhee, Fritz Grottohl, Lyle Beaton, Rolly Talbot; 2nd row: Larry Potvin, Wayne Taylor, Murray Cliff, Jerry Costello, D. Duslavage, Don Samechuk, George Ebey; 3rd row: George Roy, Sid Forster, Jack Camalietti, Jerry Ready, Lodge Marakinsky, Dom DeMarco (coach), Rudy Prete (manager), Alex Prentice, Joe Wadewich.

batch of "50-50" and swamp clay is mixed every shift and sent out to various locations in the smelter. Pure fire clay is made up and left to season in blocks for 16 hours prior to using to insure uniform moisture content.

Buds for the 15 tappings made on each furnace during an eight-hour period are moulded by the tapper, who must be sure they are worked into a solid tough cone-shaped mass that will not break when the matte strikes it.

The bud is firmly fixed to a steel tapping bar and at the end of a tap is jammed into the small tap hole, stopping the stream of matte. A three-man team is required to bud up the tap hole because the pressure of the matte, and the kick of the steam driven from the bud when the matte hits it, would blow out the clay if it were not held firmly in place during the first few seconds until the heat has baked it solid.

Claying up the lips of converter stacks takes the biggest portion of the clay used in the converter building. Here it acts as a buffer so that when frozen matte is chipped from the converter lip the brick underneath won't be damaged. It also forms a pouring lip allowing the matte to flow out of the converter without damaging the steel plates.

A small amount of clay is used to seal the connections between the converter gas off-takes and the line to the CIL acid plant to prevent air from diluting the sulphur gas.

Watson and Trefiak Are Golf Champions

Stu Watson of Frood-Stobie and Creighton's Nick Trefiak are this year's Inco golf champions.

Stu captured the non-handicap title by downing Ted Flanagan of the Mines Department. He won his way into the finals with a two-and-one victory over another Mines Department player, Ron Silver.

The handicap championship went to Nick after a hard-fought battle with Cappy Capstick of Copper Cliff Concentrator. Nick downed Alex Illis of the Copper Cliff Research Lab to enter the finals.

Eureka! Here Are Athletes who Play Just for Love of the Game



Lyle Beaton drives through a big hole to go over standing up in one of the Hardrocks' touchdown marches against Haileybury.

"Simon-pure" amateurs may be a thing of the past in most Canadian centres, but Sudbury can boast of at least 25. They are the members of the Sudbury Hardrocks football team.

So "simon-pure" are these athletes that they pay out of their own pockets to play the game they love. Of the four matches they have played this season two were in North Bay and one in New Liskeard, but the boys dug into their own jeans to meet the travelling expenses each time.

The team is made up of men who played high school football and who want to keep in touch with the gridiron. All live in the Sudbury district; several are Inco employees.

"One thing about coaching a team like this," coach Dom DeMarco says, "is that

everybody wants to play and there is no loafing in practise. All a coach has to do is show them the plays and they do the rest."

They defeated Haileybury twice 10-6 and 34-5 in a home-and-home series and dropped two games to North Bay for a 3-0 win-loss record. The first loss to North Bay was a 7-6 squeaker when the Gateway City crew came through with a last-minute touchdown. The Bay made it more decisive the second time, though, with a 30-0 triumph.

An intermediate team, the Hardrocks were organized last season in the hope that a Northern Ontario league could be set up. That dream has not yet materialized and the Sudbury crew has had to content itself with exhibition games.

Sudbury Sportsmen Provincial Champs

Sudbury Sportsmen brought the Nickel Belt its first Ontario softball title since 1938 by defeating Whitby Stokers in straight games for the provincial senior B championship.

Playing both contests on their home grounds, the Sudbury crew captured the opener 5-0 and then went on to eke out a 4-3 decision in the nightcap.

A pair of home runs by Joe Bratanich and the steady hurling of Steve Borovich played a big part in the Sudbury victory.

Members of the winning Sportsmen Club are Johnny Baby, Merv Gribbons, Len Thompson, Mitch Zulucki, Ron Rubie, Gabby Hickey, Tod Sloan, Dave Scott, Mike Furac, Kelly Campbell, Joe Palladino, Joe Bratanich, Eddie Fortier, Omer Brideau, John Shewchuk, Adam Borovich, Bob Sabourin, Alex Karel (manager), Larry Rubie (coach), Leo Gasparini (president), Dom Castanza (trainer).

Paddy of Kendal Captures \$15 Award

Paddy of Kendal, a black Labrador owned by Bill Hudgins of the Copper Cliff Research Lab, captured the \$15 Copper Cliff Rod and Gun Club award this year for the locally-owned dog finishing highest in the non-winner stakes at the annual Sudbury and District Kennel Club's retriever and Irish water spaniel field trials. The second prize of \$10 went to Elmer Quebec's Duke 16th, also a black Labrador.

The awards are sponsored by the Copper Cliff club to encourage ownership of field dogs in the Sudbury district.

The presentation was made by Harold Borland, also of the research lab, at the club's opening meeting of the year.

Paddy was introduced to Triangle readers last month with his master in a picture story of duck hunting.

Slick Method

(Continued from Page 11)

progressed, and concrete is poured by gravity flow from the mixing station located up on 56 level.

While the 10-foot "lift" is setting, another round is being drilled off.

The efficiency of the construction cycle owes much to the sectional steel forms, which can be lowered into position for each pour in a fraction of the time it would take to set up wooden forms, and of course can be used over and over again. Another important factor is the "push-button" service on concrete.

At each level of the mine a concreted station is being established in which ventilation system controls for the airway will be located.

Whatever technical description the engineers give the new airway, the men of the mine as usual have their own name for it. They call it "Barney's Raise," after Barney Cain, the foreman on the job. Many an accepted mining term had just such an origin.

Critics Applaud

(Continued from Page 2)

now have a family of four.

It was 1947 before he returned to Canada. Travelling across the country giving lectures on conditions in Finland, he arrived in Sudbury and there got a chance to come with Inco, which he eagerly took. His work appeals strongly to him because it involves



Re-enact Scenes of Early Days For New Inco Motion Picture

Some of the earliest recorded events in the history of the Sudbury nickel industry, such as the surveyor Salter in 1856 noting compass deviations on the site of what was to be the Creighton mine, were re-enacted for the movie camera as part of the new motion picture being produced for Inco by Film Graphics of New York.

Members of the Geological Department's field staff took the parts of surveyors and prospectors in staging the scenes. Above are some of the actors "on location": George Black, George Gifford, Bill Bernard, Eino Santala, Erik Munsterhjelm, and Hector Charette. In the picture below some prospectors travel by canoe through the "uncharted wilds" of the Sudbury district.



lengthy exploration trips.

Since joining the Company, his spare time has been well occupied. In addition to finishing the book that has just been put out, he has built a home at Lockerby. He has submitted another book to his publishers, and is working on yet another, still with the north as his theme. Life is just as busy and rewarding for him as it was in the land of

the wind and the caribou — and a lot less lonely.

MODEST

"The best thing for you," said the doctor, "is to give up drinking and smoking, go to bed early, and get up early."

"Doctor," said the patient, "I don't deserve the best. What's the second best?"

Organizing for Bowling at Sudbury Inco Club



Val O'Neill, bowling impresario at the Inco Club in Sudbury, is shown presiding at the organization meeting of the women's bowling league. Clockwise from Val, those in attendance were Hattie McCrea, Mary Price, Pat Westfall, Fran Boudignon, Ida McKain, Nellie Kurlicki, Flo Robinson and league secretary Margaret Weclacott. Approximately 60 members are bowling in the league this season. In the men's leagues, 200 have registered from Frood, 140 from Copper Cliff, and 50 from the Copper Refinery.

J. R. O'Donnell Had Long and Varied Service

J. R. O'Donnell, known to many as Jack and to others as Roland, and warmly regarded by them all, has retired from active service after wide and unusually diversified experience with Inco.

The call of duty necessitated that he change his place of residence more frequently than any other member of the Accounting Department. He served three periods with the Mining & Smelting Division at Copper Cliff, two periods with the Refining Division at Port Colborne, one period at the Toronto Office, and was located at the New York office for the past five and three-quarter years.

Starting with the Canadian Copper Company as office boy at the General Office at Copper Cliff on April 23, 1906, he later became junior clerk; then worked for a time as stenographer in the Purchasing & Stores Department; then as outside clerk and time-keeper on the various construction jobs which were under way at Copper Cliff prior to the First World War; and then to the General Office once more on various accounting and clerical duties.

In November 1918 he was transferred to the Company's newly-opened Toronto Office as chief assistant to the auditor. Upon the closing of the Toronto Office in February 1922 he went to Copper Cliff as assistant works auditor; then was transferred to Port Colborne in July 1922, and back to Copper Cliff in September 1933, in the same capacity. He was appointed works auditor at Copper Cliff in February 1935 and was transferred to Port Colborne in September 1940 as works auditor there. In January 1948 he was appointed assistant to the comptroller and transferred to the New York Office.

Furthermore, during his first period of service at Copper Cliff he was located for a time at Biscotating to take charge of the accounting work in connection with the major dam improvements which were being made by the Company at the head-waters of the Spanish River; and in 1918 was located at High Falls to take charge of the accounting work in connection with the construction of the Big Eddy Dam. That job was estimated to last for two years but he was taken from it in November 1918 because he was needed at the new Toronto Office. Also, while serving at Port Colborne at the time that Inco purchased the British America Nickel Co., he was sent to Deschenes, Quebec, where he spent a number of months in the winter of 1924-1925 in charge of the pre-



J. R. O'DONNELL

paration of the metals-in-process at the British America nickel refinery for shipment to Inco's plants for further treatment.

About 40 of his associates attended a farewell dinner for Roland at the Chateau Tavern

in New York, including F. P. Bernhard, former comptroller; W. T. Waterbury of Copper Cliff, formerly assistant to the vice-president; Henry S. Wingate, vice-president of the Company, and William F. Kennedy, secretary. Roland was presented with an imported Exakta VX camera and case, a light meter, and a projector, as well as a moroccan leather portfolio of signatures of his many friends in the Canadian and New York offices. The front page of the portfolio carried this thought: "Be it resolved that we who have subscribed our names on the following pages have signified thereby our sincere desire that J. Roland O'Donnell, our good friend and fellow-employee, take with him on his retirement the combined wishes of all that his future may be everything he had hoped for, and that good health, happiness, and serene contentment may be his for many many years."

Roland and Mrs. O'Donnell are making their home at Dobbs Ferry, N.Y., where the latch-string will always be out for their host of friends.

Roland's father, John O'Donnell, who retired from the Company on February 1, 1922 with 25 years' service, is now 87 years old. He resides at Stirling, Ont. He is the second-oldest of the pensioners from the Mining & Smelting Division, being exceeded only by Harry M. Sildford of Collingwood, 90.

IMPRESSED BY SMELTER

C. B. Raynham of Weston, a cycling enthusiast who has logged 266,000 miles by bike since 1929, paused at Copper Cliff last summer for a visit to the smelter. He was mightily impressed with the operations, and in the column he writes for the West York Times and Guide, he described them briefly, concluding with the remark, "Many thanks to Inco and the fine guide who showed me a part of this stupendous plant."

OR ABOMINATION

If all the women were taken out of circulation what kind of a nation would this be? "Stag-nation."

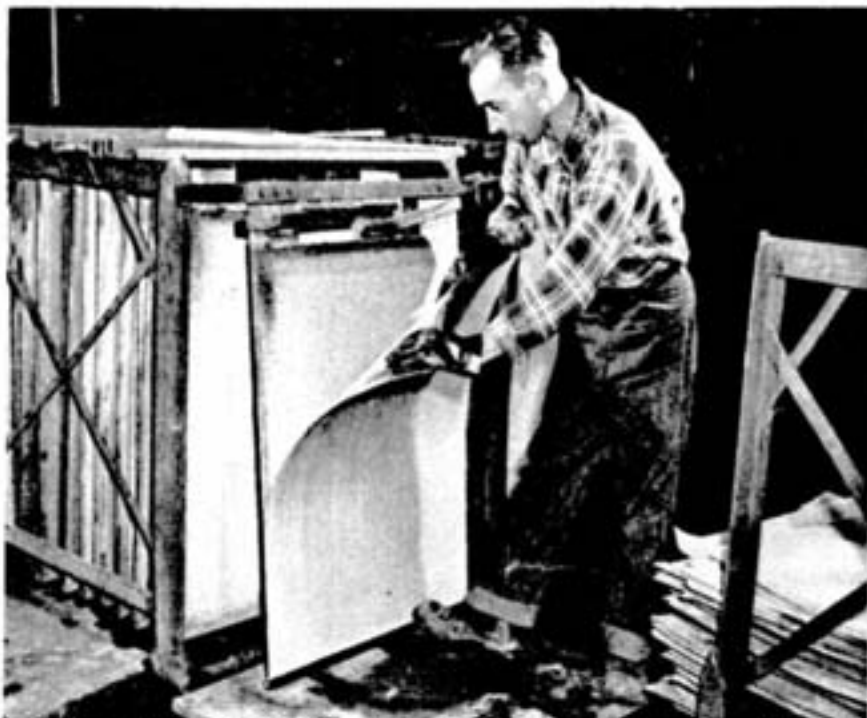
SNAPSHOTS OF LIFE WITH INCO



The fellow who said they should figure out a way of equipping telephones with television must have been thinking of Joyce Graham, popular switchboard operator at the Copper Refinery.



A perfect cribbage hand — that's what George Snalre is beaming about as Terry Rupoli turns up the five that did the trick. George held the Jack of Spades and fives in the three other suits. He has been playing crib during lunch hour for the past 17 years but this was the first time he had ever seen a perfect hand. He was teamed up with Bruce Hughes against Rodney Gunning and Terry Rupoli at the time. All work at the plate shop at Copper Cliff Smelter.



At Port Colborne Frank Michaels is stripping pure nickel starting sheets from stainless steel blanks on which they are deposited. They are used in electrolytic tanks as base on which cathodes of pure nickel are built up.



Dinky locomotive and converter slag pots at Copper Cliff 35 years ago. Engineer in picture is late Arthur Walmsley, father of Ethel and Jo Walmsley, General Office.



The gal with the "southern exposure" is 2-year-old Colleen Keegan, ducking for an apple during a hallowe'en party at the home of Cecil Keegan of the Copper Refinery. The other children are Theresa Gawalko, 9, Patricia Keegan, 6, Sharon Scott, 8, Eleanor Hughes, 9, Paulette Bourgeault, 10, Denis Marshall, 11, Tim Holgate, 10, Don Keegan, 8.