



*Enlisting Dollars to Back Up Comrades Overseas*



All along the INCO front from Port Colborne to Lawson Quarry the workers once again turned momentarily from Victory Metals to Victory Loan, backing the slogan and brawn of their war effort with dollars to support their comrades overseas in the bitter and crucial fighting which lies ahead. "Invest in Victory!" was the slogan and within a few hours of launching the Seventh Loan campaign it was obvious that INCO people would once again top their big quota. Camera shots early in the drive caught: (1) Bertha Rainville signing up Bill Rivers at Copper Cliff Smelter; (2) Mills Austin talking to Louise Schofield in Copper Cliff General Office; (3) Bill Coppo and Scotty Chisholm at Coniston Smelter; (4) Bill Vaananen and Steve Pratt at Murray Mine; (5) Mayor Bill Hykin and Earl Adam at Leveck Mine; (6) Johnny Mauler taking an application from Tom Samson of Nordale Construction; (7) Cliff Atkinson and Frank Palakovic at Copper Refinery; (8) Lucien Lauron and George Lavigne at Gerson Mine; (9) Vic Baker and Joe Gilpin at Copper Cliff Shops; (10) Lois Smith and Bert Meredith at Frood Mine; (11) Alf Pellam and Dan Clark at Frood Open Pit; (12) Carl Zyma and Steve Paxon at Creighton Mine; (13) Charlie Tobin signing up Rudy Luoma at Stobie Mine.



Published for all employees of The International Nickel Company of Canada, Limited.  
Don M. Dunbar, Editor

EDITORIAL OFFICE COPPER CLIFF, ONT.

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## No Time to Lose Memory

In nearly all Canadians there's a streak of natural optimism.

We know the war won't be over tomorrow. We know there may be a long, hard fight ahead.

But we can't help looking forward to the beautiful and wonderful-seeming days of Peace.

This is all right unless . . .

Unless it makes you relax your efforts to win the war . . .

Unless it makes you lose your memory of what happened after the last war was won.

Remember that Peace brought difficult economic problems, economic stresses. And this time, we must be ready to meet them.

This time we must make sure of having a real financial cushion . . . to ease the transfer to normal peacetime business, peacetime employment, peacetime living.

That's one big reason why you should buy Victory Bonds . . . and hold on to them.

## Tribute to a Brave Padre

In its issue of October 6, the Brussels "Maple Leaf"—Canadian Army paper in Belgium—prints the following tribute to a padre by L/Bdr. M. C. Barnett:

In a recent attack, the unit, in an hour's stiff fighting, lost 102 wounded and killed. When it was over, and the objective taken, the padre dropped into the cellar where we were huddled, scared, miserable and cold.

He accepted a cigarette and smoked it.

He told us the latest BBC news and discussed it briefly.

He drank a glass of wine.

He told two really good jokes and got a laugh from the both.

He killed two discouraging rumours that were prevalent.

He discussed the probable length of the war.

He inquired after each man's family and mentioned his own.

He passed a cheery word or two about the situation after the war.

He departed leaving a cheery atmosphere.

All this by a man:—

Who had not a wink of sleep for at least four nights.

Who had been under shell fire.

Who was covered with blood from the wounded he tended.

Who was dirty and covered with grime. Who had just blessed 57 dead.

He was a man, a real man, a true son of God.

# ROLL OF HONOUR

THESE HAVE DIED TO PRESERVE  
OUR WAY OF LIFE

- AUBREY A. RODGERS  
Frood Mine
- CLAUDE R. MOORE  
Creighton Mine—Mechanical
- CHAS. M. COMPLIN  
Frood Mine—Mechanical
- DOUGLAS C. FLESHER  
Frood Mine—Mechanical
- JOHN D. DOUGLAS  
Frood Mine
- THOS. D. FOLEY  
Frood Mine
- GEO. E. POSTLETHWAITE  
Frood Mine
- HUBERT LAFRANCE  
Police
- WALLACE IBBOTSON  
Copper Cliff Stores
- DOUGLAS A. MAY  
Frood Mine
- GEORGE N. MOORE  
Frood Mine
- CHARLES E. BROWN  
Port Colborne
- CLARENCE NICKEL  
Copper Cliff—Mechanical
- LESLIE R. SCOURFIELD  
Copper Cliff—Research
- CLIFFORD G. GRAHAM  
Copper Refinery
- LAWRENCE J. McHUGHEN  
Frood Mine
- WILLIAM T. LANE  
Copper Cliff—Electrical
- LESLIE BUTLER  
Port Colborne
- THOS. F. HYNDMAN  
Copper Cliff Smelter
- BEATTY CAMPBELL  
Frood Mine
- WILLIAM F. JORDAN  
Copper Cliff—Mechanical
- FRANK E. ANDERSON  
Garrison Mine
- JOSEPH H. EVELINE  
Copper Cliff Smelter
- GRAHAM CHABOT  
Coniston Mechanical
- JAMES ANDERSON  
Port Colborne
- MAURICE ONUSKI  
Copper Cliff Smelter
- RUSSEL DAVID MATHERS  
Copper Refinery
- JOSEPH P. SULLIVAN  
Copper Cliff Smelter
- FRED BUCK  
Copper Cliff Mechanical
- ALEX ROY  
Port Colborne
- JOHN MARSH  
Garrison Mine
- STANLEY J. DUBOWSKI  
Copper Cliff Smelter
- RODGER BRUNELLE  
Creighton Mine
- MICHAEL OWENS  
Copper Cliff Smelter
- HENRY GIPSON  
Copper Cliff Mechanical
- ALBERT S. BLANCHARD  
Copper Cliff Mechanical
- FRED GREEN  
Frood Mine
- THOS. B. FORESTELL  
Coniston Electrical
- WILLIAM GORDON  
Port Colborne
- ALEX STALKER  
Coniston Electrical
- F. CAMPBELL BUSHFIELD  
Frood Mine
- PHILIP SOULIERE  
Levack Mine
- JOHN L. F. LOWN  
Coniston Electrical
- FREDERICK KONIG  
Port Colborne
- MORLEY P. LOYST  
Police
- HARRY MAKI  
Copper Cliff Electrical
- DAN BERNARD  
Copper Cliff Smelter
- CLARENCE J. BAIN  
Copper Cliff Concentrator
- JOHN STEPHEN KITTS  
Open Pit Mechanical
- CLARENCE L. STEVENS  
Frood Mine
- HARRY S. McINTYRE  
Frood Mine
- GEORGE D. LEEB  
Murray Mine Electrical
- DAVID SCOTT  
Port Colborne
- WM. BRODIE ANDERSON  
Creighton Survey
- WILLIAM E. A. McMITCHELL  
Copper Cliff Smelter
- GERALD ANDREWS  
Copper Refinery
- ARCHIE FERGUSON  
Port Colborne
- WILBERT A. HEALEY  
Open Pit
- EDISON MENZIES  
Levack Mine
- FRANK VID  
Creighton Mine
- VICTOR RANGER  
Creighton Mine
- LEN ROGERS  
Port Colborne
- ALBERT BRANKLEY  
Garrison Mine
- GEORGE A. MITCHELL  
Port Colborne
- C. A. McKINNON  
Copper Refinery
- PATRICK CRAWFORD  
Open Pit
- DONALD A. AUGUSTINE  
Port Colborne
- JAMES SMITH  
Copper Cliff
- J. E. SOULIERE  
Copper Cliff
- J. A. MYRE  
Frood Mine
- C. J. FISHER  
Copper Cliff
- EURWEDD OWEN  
Copper Refinery
- LLOYD KIRSTINE  
Frood Mine
- EARL DAUBNEY  
Port Colborne
- ROBERT I. ANDREWS  
Frood Mine
- ARTHUR F. HOOD  
Creighton Mine
- RONALD H. FOX  
Frood Mine
- RICHARD C. DAoust  
Garrison Mine
- EDWARD F. KLEMMER  
Creighton Mine
- LEO BERNARD WALKER  
Frood Mine
- ARMAND ETHIER  
Creighton Mine
- KENNETH A. GREIVE  
Copper Cliff Smelter
- LEONARD SMITH  
Copper Cliff Smelter
- MAURICE WILSON  
Creighton Mine

Will relatives or friends please forward to The Triangle names omitted from this list of INCO employees who have made the Supreme Sacrifice in the present war.



## *Creighton Mine Making Great Bid for Ryan Award for Best Mine Safety Record in Canada*

Not only all INCO plants but also the entire mining industry of Canada may this year salute Creighton Mine on its Safety record.

With just three lost-time accidents charged against them in the past five months of operations, Creighton employees are very definitely in the running for the coveted Ryan Trophy, awarded annually to the mine in the Dominion scoring the best safety performance for the year.

It's an ambitious goal but the Creighton boys are setting their hard hats for it, and on the basis of their performance to date they certainly stand a good chance of turning the trick. Whether or not they pick off the Ryan award, they

will have achieved one of the best safety showings in the long history of the mine and on that alone they merit heartiest congratulations. Previous Creighton safety record, established in 1940, has already been broken.

Photographs on this page show about half the underground workers at Creighton under the supervision of General Foremen F. McAteer and J. Browne. In the next issue of Triangle we will picture the men on the opposite shift and bring the INCO family up to date on how the big safety drive is proceeding. In the meantime, along with Safety Engineer Bruce King, we'll keep our fingers crossed.

Stick with it, Creighton!



(STORY OF YOUR PAY-CHECK—4)

## Deduction Dept. Has a Big Job

Each payday certain deductions have been made from your gross earnings before you receive your pay-check.

Now you may be one of those philosophical souls who scarcely notice these deductions and go blissfully on their way believing that the difference between what they earn and what they receive is due to natural causes like change of temperature, shrinkage, evaporation, etc.

Or, on the other hand, you may be of an opposite type which grows warm under the collar at the mere mention of the word "deduction" and at times would dearly love to lay avenging hands upon the gent who has applied the paring knife to the weekly pay-check.

At the risk of becoming an accessory before the fact in a gruesome murder, we're bringing you a picture of the man who is in charge of the Deduction Department. We're finally drawing aside the cloak of anonymity behind which he has labored in safety. Here he is, INCOites—Mr. Deduction himself, otherwise known as R. Richmond, top photo in the layout.

But curb that angry impulse! Put that meat-axe down! Touch not a hair on that troubled head! Mr. Deduction is a true friend of yours and not, as you may have sometimes imagined, a cunning and heartless schemer who sits up nights devising ways to knock the stuffing out of your stipend.

Actually Mr. Deduction is your private book-keeper who, at no charge to you, runs your account, pays your bills, and keeps you on the right side of the ledger. He figures out your income tax and sees you don't let it lag, settles for your new safety boots, takes care of your group insurance premium, sees that your club dues don't get behind, and performs regularly and efficiently a dozen other services about which you never have to bother your head. Ever think of that?

There are some 16 different classes of deductions coming within the ken of the Deduction Department, many of them with several different sub-classes. Altogether the department handles an average of approximately 45,000 deductions every week! Even for people in the business that's a heap of deducting.

In the previous instalment of this series you'll remember we wound up with a summary punch card for each employee on which is summarized, in punch holes, all the detailed information of his earnings. Before actual writing of the pay-checks can be commenced with these cards, deductions have to be calculated and punched.

First step in the deduction procedure (take a deep breath, Horace, because here we go) is to determine the amount of income tax each man must pay on his current week's earnings. There are no less than 1,500 different income tax groups into which an employee may be classified, depending upon his marital status, the number of his dependents, and the amount of his earnings. Yet out of this mathematical maze the Deduction Department bobs up with the right answer every time.

The summary earnings cards are sorted into the various tax groups combined with master cards punched for the exact amount of tax payable by each group, which is gang-punched into the summary earnings cards. Then the department goes through the same motions for unemployment insurance deductions, in which there are some 40 different groups. Now, with income tax and unemployment insurance punched in them, the summary cards go to the Multiplier, lightly referred to in our last issue as "The Brain". At the rate of 1,200 cards an hour "The Brain" subtracts income tax and unemployment insurance from gross earnings after carefully "reading" the punch holes with



## The Pictures

1. R. Richmond, chief of the Deduction Department, is seen at his desk. Stacked beside him are deduction cards described in the accompanying article. The heap represents about one-quarter of the number of cards handled in an average week's deductions.

2. Ruth Butchart and Elsie Oliver are busy checking some of the myriad details in connection with doing the "personal book-keeping" of 13,000 INCOites.

3. Audrey Thomas operates the Transfer Posting Machine which produces an earnings record card for every employee.

4. George Hunter delivers a Victory Bond on which an employee has completed his payments under the Payroll Savings Plan.

as amazing "fingers", performs a couple of mental handstands, and punches the net amount on each card.

In the meantime separate deduction cards have been prepared for sundry other deductions such as boots and safety clothing purchased at Company warehouses by the employee, railway fares on the Creighton work train, board at the Company hotels at Creighton and Levack, which are all paid weekly, and also for items like rent, light, WIT car insurance, union dues, which are payable monthly.

There are also cards for life insurance, sickness and accident insurance, and medical aid. Everyone has a monthly deduction for medical aid, and more than 80% of the employees buy the low-cost group insurance made available by the Company. And there are cards for club dues and athletic association fees, payable every four months.

Lastly there are deduction cards for Victory Loan and War Savings purchases, and here the department maintains a special card for every employee on which is recorded weekly what has been paid and what is still owing on each bond bought under the Payroll Savings Plan.

Once all deductions are computed they are added up and must agree with predetermined totals. Then the cards are fed to the Alphabetic Printer (our old friend the "Master Mind") which prints a list of the sundry deductions and what they are for. Copies of this list are sent to each plant time office for ready reference in case an employee is uncertain as to why Mr. Deduction has done some particular bit of whittling.

And so we finally reach the stage when check-writing is to commence—the subject of next month's article. But the Deduction Department has one more important function we'd better describe before we pass on. Once again the summary earnings cards are run through the Alphabetic Printer and a list prepared showing the employment number, earnings, income tax and unemployment insurance data for each employee. On the back of this list is a reverse carbon impression like you make when you put a sheet of carbon into your typewriter wrong side up (yeah, it makes us mad too). This reverse impression is then stamped on an earnings record card by the Transfer Posting Machine. There's an earnings record card on file for every employee, a complete 12-month record of his income tax and unemployment insurance deductions, and this information is used to conform with government insurance regulations.

Well, that's the story. That's the way Mr. Deduction handles the weekly book-keeping for his 13,000 customers. If you still aren't absolutely clear on how he does it, don't worry—neither are we.

But he does it, and that's the main thing. After all, these things have to be paid for and it seems to hurt less when he does the paying—like having a tooth out by remote control.

## Name Corvette "The Copper Cliff"

Signal honor for the Town of Copper Cliff is the announcement that a new corvette of the Royal Canadian Navy has been christened after this key INCO centre. Of the larger-sized Castle type the "Copper Cliff" carries a complement of 115 men.

Citizens of the town have organized a committee to raise funds to provide special comforts for the ship such as a washing machine, eight electric irons, eight double hotplates, gramophone records, punching bag, softball equipment, magazine subscriptions, etc. Jack Wulff has made eight very snappy cribbage boards and the High School students are collecting novels.

Monel and copper ash trays, and an album containing photographs of Copper Cliff, will be other gifts.

## High Honor for Robert Stanley

Robert Crooks Stanley, Chairman and President of The International Nickel Company of Canada, Limited, received the American Society of Metals Medal for the Advancement of Research at the annual dinner of the Society, October 19, at Cleveland.

He was awarded the 1944 Research Medal because of his pioneering leadership in the field of metals research.

Mr. Stanley has provided the leadership which has resulted in the extensive growth of International Nickel since the first World War.

Joining the Orford Copper Co. in December, 1901, in 1902 Mr. Stanley was made Assistant Superintendent of the American Nickel Works at Camden, N.J., subsequently becoming Superintendent. These companies were part of The International Nickel Company organized in 1902.

Monel owes its discovery in 1905 to Mr. Stanley, who then was Works Superintendent at the Constable Hook Works of Orford Cop-



per at Bayonne, N.J. He conceived producing metal direct from ore mined at International Nickel's Canadian properties, without separating the nickel and copper.

In 1912 Mr. Stanley was made General Superintendent of International Nickel. On Jan. 1, 1918, he was elected Vice-President in charge of all operations.

When Mr. Stanley became President in 1922, the nickel industry was at its lowest ebb. He organized the Development and Research Division to promote industrial peace-time uses for the company's products. Up to that time nickel had been used principally for armament and munitions of war. It was under his leadership that thousands of commercial applications were established for nickel in world markets.

Mr. Stanley received his engineering education at Stevens Institute of Technology and Columbia School of Mines. He was granted a degree of Mining Engineer at Columbia in 1901. Honorary degrees followed from Stevens Institute, Columbia University, and Rensselaer Polytechnic Institute. For years he has been Chairman of the Board of Trustees of Stevens.



BIRD-HUNTERS' PARADISE

These fellows who hail from the West seldom miss a chance to put in a plug for the great open spaces. Vern Johnson of Copper Cliff general office, who comes from Brandon, Man., laid it with pictures when he returned from a holiday trip last month to his old stamping grounds. This snap shows him with part of the bag on a duck hunt with some old cronies at Whitewater Marsh, near Boissevain, Man. You've got to admit those are nice looking mallards.

## Keen Interest in First Aid Classes

With a total enrolment of more than 600, First Aid Classes for INCO employees are in full swing again according to Tom Crowther of Copper Cliff, who has charge of arrangements.

On Tuesday and Wednesday afternoons and evenings classes are held in the Sudbury Employees Club for men from Frood, Stobie, Open Pit and Copper Refinery, and also for Garson, Creighton and Murray men residing in Sudbury. On Friday evenings classes for ladies are booked at the Sudbury Club.

Copper Cliff classes are staged in the Community Hall on Monday and Tuesday evenings, and sessions are also arranged at Coniston, Levack, Creighton, Garson, and High Falls. Members of the Company Medical Staff, assisted by the First Aid men from the plants, are giving the lectures.

It's a nine-week course and then examinations are held for St. John's Ambulance certificates and awards. Then the First Aiders square away for their plant competitions in February and for the inter-plant joust for the Parker Shield in March.

Interest in the classes is keener, and turnouts are larger, than in any year since the start of the war, Tom Crowther says.

## BILLIARDS POPULAR

Four teams are entered to date in an INCO inter-plant billiard league which promises to be a sound success. Copper Cliff Club, Creighton Employees Club, Levack Employees Club, and Sudbury Employees Club are the four entrants. In opening games of the schedule Sudbury defeated Levack 4-1 and Creighton took Copper Cliff 3-2. Rules call for four men to a team and 200 points of English pocket billiards to a match, with one point for each win and one point for highest team score.



1



2



3



4

## Once Again Over the Top!

Taking an extra \$200,000 of quota in their stride INCO employees drove through to their \$1,400,000 objective five days after the Seventh Victory Loan officially opened on Oct. 23, and when this issue of Triangle went to press on Oct. 30 were almost \$100,000 past their mark. There was every indication that they would exceed the record \$1,554,400 sold in the Sixth Loan against a quota of \$1,200,000.

Fifteen out of the 18 INCO sub-units were over the top on the night of October 30, and the other three were girding themselves for an all-out effort to make it unanimous.

Number of subscribers to date is 10,126 for an average of \$146 each, a definite increase over the final average in the Sixth Loan when there were 11,681 buyers at \$133 each. Obviously INCOites are convinced that one of the best ways to save money and at the same time lend a hand to their comrades overseas is to buy Victory Bonds.

Port Colborne refinery has also made its quota of \$190,000.

First over the top was Stobie Mine, which announced it had reached its quota on the morning of the official opening of the Loan. In the first of the accompanying photos Rigger Tommy Mullen is seen unfurling the Victory Loan flag and pennant to the breeze atop the 150-foot, Scobie headframe. Other INCO plants to make their objectives on the opening day were Nordale Construction, Frood-Scobie Open Pit, Murray Mine and Copper Refinery.

In the second picture is shown the amusing display board at Open Pit which was erected to chart progress of the Loan campaign there. That slightly disconcerted look on the face of A. Hitler wasn't for nothing, because the flaming sword had penetrated a tender part of his anatomy deeply ere nightfall, and the boys at Open Pit seemed to relish the idea greatly.

In the third picture, R. H. Waddington, Copper Refinery Supt., is seen congratulating a group of Victory Bond salespeople who were first to put their departments over the top. On the left is Lieut. Kendall Kidder, young naval hero who conducted a speaking campaign in behalf of the Loan, and the Refinery workers are Reg. Johnson, John Antonini, Hamie McCrea, Norman Arbour, Lorne Thompson, and Doris Ward.

Fourth photo shows the gathering at Memorial Community Hall, Copper Cliff, when key Loan organizers gathered to map the big campaign. Fourth from the right in the front row is seen Sgt. George Calver, wireless air gunner on a Pathfinder who lost both his legs when his plane was hit by flack over Essen; he addressed the meeting on behalf of the National War Finance Committee.

Full details of the Seventh Loan drive will appear in the December issue of The Triangle.

## Silver Dept. at Copper Refinery Has Fine Record



Close co-operation between employees and supervision has played havoc with the accident boy in the Silver Refining Dept. of the Copper Refinery. On Sept. 24 this department wound up a full year without a lost-time accident, a record deserving of warm commendation from all branches of the INCO family. The Silver Refinery's 41 workers accumulated a total of 14,965 safe shifts. Their job includes the handling of acid-treated slimes from which eye injuries can often result if the wearing of goggles is neglected. Picture shows some of the Silver Refinery force: left to right, back row, G. Perzo, H. Rainville, T. Theriault, C. Adair, P. Antoine, J. Rain, J. Noyda, L. Hill, L. Gillman, W. Hornby; middle row, J. Hughes, A. Leduc, O. Hogan, K. Petch, G. Dick, G. Kolveh, J. Szabo, E. Mercier, A. Pylypiw, E. Jackson, E. Mornan, J. Hodgson; front row, A. Bouillon, G. Gaudic, A. Taylor, A. Bouillon, Safety Engineer Morgan Shoveller, J. Duncan, A. Richer, J. Kerner, L. Deschamps, K. Blanchfield, E. Andrew.

### Hello Joe . . . What Do You Know?

By F. H. LOWE, Port Colborne  
(Answers on Page 11)

1. We hear and have heard much of the army divisions in this present conflict. It's not accurately known the number of soldiers in a Russian, German or Japanese Division, but we do know how many are in a British, Canadian and U. S. Division. Do you?
2. "Mary had a little lamb", etc.: What was the sex of the lamb?
3. Name the well known Biblical character who was never referred to by surname and who met death unlike that of any other person.
4. What is the sport of Birling?
5. What well known mining term begins and ends with "and"?
6. What two whole, single, unlike numbers when multiplied together equal seven? (2 seconds only).
7. What's the world's most widely cultivated plant?
8. And now for an easy one: Which British sovereign had the longest reign?
9. The A.R.P., or as we know it, the Air Raid Precaution Service, was originated in the city of London. They have a name that they call little black and white cats. You have possibly heard it—and it is?
10. What 16 year old girl was Queen of England for 9 days?

#### A MATTER OF ACCENT

An American soldier, hurt in a traffic accident, woke up in an Australian hospital and asked the nurse solemnly: "Was I brought here to die?"

"No", said the nurse, "you were brought here yesterday."



**IF YOU DON'T NEED  
THE SAFETY STENCILS,  
YOU MAY END UP  
SELLING PENCILS!**

### Quizzer Quizzed By George Hartman

Paging "Professor" F. H. Lowe, our Quiz expert!

Here's an excerpt from a letter to Triangle by George Hartman, former High Falls superintendent now retired on pension:

"Incidentally, in the Quiz feature, "Hello Joe, what do you know?" the answer to the first item, "Locate and name the body of water in which the Atlantic Charter was drawn up" is given as "The body of water between Iceland and Greenland, known as the Strait of Denmark".

"Is not your contributor in error here, or even "all wet"? M. V. Morton's interesting book, "Atlantic Meeting", which I believe is the official write-up of the event, makes it clear that the Charter was drawn up in Placentia Bay, Newfoundland; one chapter is entitled "The Council of Placentia". To quote one sentence from the book:—"It was strange to think that in the solitude of that bay in Newfoundland an event as important to the future of mankind as Magna Charta and the Declaration of Independence had been consummated, while the little boats sped across the grey water and the low clouds settled upon the hills."

How about it, "Professor"?

#### WASTING TIME

"If a husband doesn't need watching," said a French woman of experience, "it is a waste of time to watch him. If he does need watching, it is a waste of time to watch him."

# Carrying the War to Japan



Capable of carrying a heavy load of bombs over a long distance, the huge B-29 Superfortress can do over 300 miles per hour and has a ceiling of well over 30,000 feet. It bristles with .50 caliber machine guns and 20 mm cannon, but this armament has been air-brushed out of the photograph for military security. Engineered by Boeing and being produced by Boeing, Bell and Martin, it is powered by four 18-cylinder radial air-cooled engines of 2,200 horse-power each. "Mutt and Jeff" of the U. S. Army Air Forces are the giant new B-29 Superfortress bomber and the midget Culver Kaydet plane, both seen in this official U. S. Army picture.

## NICKEL IN THE B-29'S INCO Products Give Stamina and Speed to Mighty Superforts Hitting Nip Mainland

When the new B-29 Superfortresses made their first historic smashes over Japan, they carried in their vital parts products of INCO weighing in the aggregate thousands of pounds. Each one of the giant craft was equipped with upwards of fifty different items made of Monel, Inconel, nickel, "K" Monel and other high nickel alloys.

Some of these items represented assemblies, such as oil cooling units. Others were represented by rivets and other fastening devices. Still more included fuel pump parts and metallic packing for exhaust systems.

One Use Alone Takes 400,000 Pounds  
Obviously, most of the details as to how many of these parts function and exactly what items are made of INCO nickel alloys cannot

be revealed for reasons of security. Neither can the number of parts supplied nor exact weights. In the construction of one assembly alone for the aircraft building program, over 400,000 pounds of Monel sheet and strip are involved.

Rod and wire have many uses, not only on the Superfortresses but on other planes as well. One of the smaller bombers, for instance, has over forty fuel line strainers made of Monel. The number on the big ships is correspondingly large.

How varied is the list of applications and the metal forms concerned can be gathered from the fact that Inconel sheet is used in the turbosuperchargers, while Inconel spring wire is used for doors in the cabin heating system.

Monel bars provide the basic stock for electric circuit breakers while non-magnetic "K" Monel strip, wire, rod and other forms go into navigation and control instruments.

### From Valves to Heaters

In one type of valve Monel balls are used. Another type requires spring temper Monel strip. Among the many items from the cold draw department come hard temper "K" Monel wire for some of the generators and tubing for control assemblies for some of the guns. Nickel wire for spark plugs comes from the wire mill. So do magneto parts, which also are supplied with material from the rod and strip mills. In addition to the other parts listed, the sheet mill supplies Inconel sheet for the cabin heaters.

From the long nose of the Superfortress to her tail, and from wing tip to wing tip, will be found some of these many items which INCO workers are producing at high speed but with exacting precision.

### Inco Metals Used For Many Reasons

Reason for the use of these INCO nickel alloys is found not only in their resistance to corrosion and heat but also in their high strength and resistance to wear and distortion. A slight speck of corrosion might cause a vital part among hundreds of closely co-ordinated parts to fail to function and disaster could result.

A spring might let go under the terrific strain of constant operation. Or heat from the powerful motors—each rated as 2200 h.p.—might literally burn out a metal without exceptional resistance to high temperatures. Wear and distortion could be equally disastrous in a huge and complicated machine composed actually of hundreds of smaller and equally complicated machines in which failure of one might hamper the performance of all.

## Behind the 8-Ball is the FOREMAN

"What's Wrong with the  
Foreman?" — because . . .

If he is pleasant, he is too familiar—  
If he is sober-faced, he is a sour-puss—  
If he's young, he doesn't know anything—  
If he is old, he's an old stiff—  
If he belongs to a lodge, the members expect favors—  
If he goes to church, he is a hypocrite—  
If he doesn't, he's a heathen—  
If he drinks, he's an old souse—  
If he doesn't, he's a tightwad—  
If he talks to everybody, he's a gossip—  
If he doesn't, he is stuck up—  
If he promotes one on merits, he makes a poor choice. He is ignorant and lacks judgment  
If he insists that the rules of the shop be kept, he is too particular—  
If he doesn't, he is careless!—  
If he requires the men to do their part, he favors the management—  
If he doesn't, the Mahogany Desk complains that he favors the men—  
If he looks around, he is snooping —  
If he doesn't, he is unobservant.  
A foreman must not be too familiar, but always approachable.  
He should not delve into the lives of the men, nor betray their confidences.  
If he tries to settle all complaints he must have the wisdom of Solomon.  
If he worries about them, he'll soon be crazy.  
He should have the patience of Job, the skin of a rhinoceros, the cunning of a fox, the courage of a lion, be blind as a bat and silent as a sphinx.  
WHAT A MAN!  
Are there any good foremen?  
Yes, plenty of them, and they're not all in cemeteries.



## TRANSPORT IS YUKON RIDDLE

The problems and rigours of travelling in the Yukon were described to the Triangle by C. E. "Chuck" Michener, who was in charge of the INCO geological party which investigated and mapped a section of the wilds west of Whitehorse this summer.

"You take your transportation in every conceivable form up there, from pack dogs to modern bombers, and from stern-wheeler river boats to 10-wheeler Diesel trucks," says "Chuck".

"Our two parties went in by boat to Skagway and from there to Whitehorse over the White Pass and Yukon Railroad, which is a narrow-gauge line following the White Pass route of '98. If you are lucky you make the 100 miles in 10 or 11 hours, snowslides and washouts permitting.

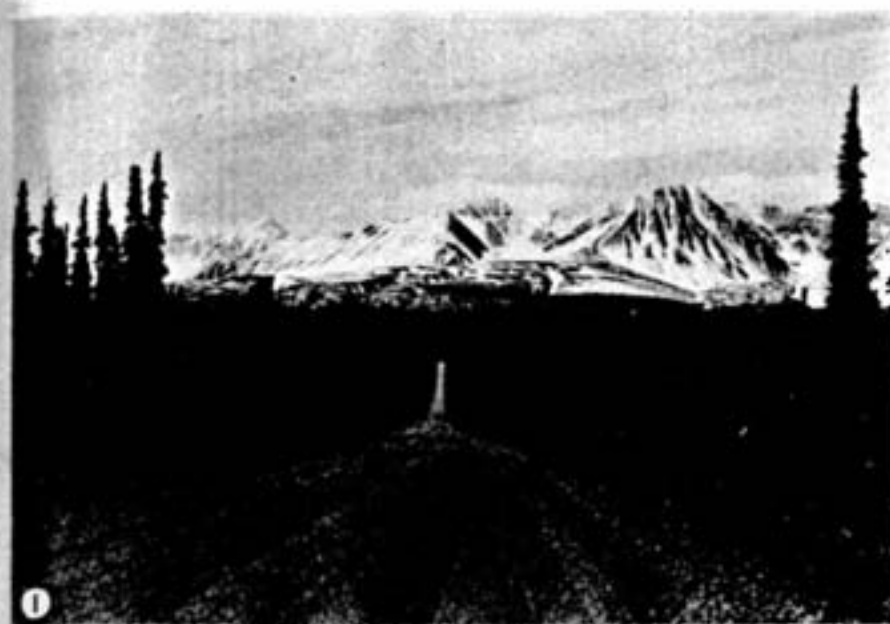
"The central part of the Yukon resembles a huge elevated basin cut by deep valleys draining into the Yukon River, something like the Finger Lake country in New York State only on a larger scale. This basin is separated from the Pacific Coast by the towering St. Elias and Coast ranges, largely covered by permanent snow fields at elevations up to 19,000 feet. To the north east of the Yukon lies the McKenzie mountain system which corresponds roughly to the Rocky Mountains farther south, and separates the Yukon and McKenzie drainage basins. Our work to date has been confined to the country bordering the St. Elias Mountains on the Yukon side.

"In this country pack horses are the most feasible means of transporting equipment. One can travel across country in almost any direction by avoiding the higher peaks and larger rivers. The muskegs are frozen in the bottom, where there is timber it is sparse enough to allow the horses to get through. Horse feed is to be found anywhere below the timber line. Incidentally these horses are owned by local traders who let them run loose all year 'round except when they have a chance to rent them out. Some of the Indians have forsaken their dogs for the white man's horse. They say that when the Indians first discovered horse tracks in the woods (about 1900) they ran to their camps in great fear, gathered all the women and children in, and waited for the monsters to appear. Chief Joe of the Hutchi tribe decided to become a horse owner so he and his brother, Hutchi Jackson, got a stallion and several mares. They now have about 30 or 40 horses but can't catch any of them, because they're running all over the country like moose. As Hutchi Joe explained to me, they are fine horses but he would rather use pack dogs because his wife can look after them better. The wolves are beginning to cut these herds of wild horses down, killing off the stragglers in the winter.

"The early travel routes used by prospectors, Indians, and police, generally follow river courses or the finger lakes and as a result the older routes in this area run north west and south east. These lakes, such as Kluane, Sekulmun, Aishihik, and Teslin are U-shaped glaciated valleys and now act as huge settling ponds for the streams flowing down from the ice fields. The streams enter these lakes ice cold and filled with 'glacier milk' (ground-up rock) and sediment which is quickly dropped, leaving the water a beautiful blue-green color. The tributary streams entering these lakes, and the main rivers, travel through what are called hanging valleys, many of them with deep gorges and canyons.

"Big game is not plentiful but it is easy to hunt as the country is open. The caribou have all but disappeared but there are the White Mountain sheep peculiar to this country, moose, black, brown and grizzly bear, and all the ordinary fur-bearing animals. If you are really

(Continued on Page 16)





## “Grand Slam” For Creighton

Always hot contenders for the top rung on league ladders, Creighton Mine's diamond stars scored a "grand slam" this past season. They picked off Nickel Belt championships in both senior and juvenile baseball and also annexed title laurels in INCO inter-plant softball. Not bad!

After taking out Copper Cliff in the Nickel Belt playoffs the Creighton senior baseball lineup plunged into the battle with McIntyre for the Northern Ontario championship. It was an ill-fated series. After splitting two games at Sudbury the teams moved north to resume hostilities but rain put a damper on their plans. In five days they got a chance to play only three innings, in which Creighton was leading 5-0; then the series had to be abandoned. Top picture on this page shows the 1944 Nickel Belt champs, left to right: Tom Murphy, pitcher; Normie Hann, manager and shortstop; Mel Edwards, 1 base; Omer Breadeau, outfield; Gordie Luck, pitcher; Joe McDonald, catcher; George Currie, outfield; Nick Loupelle, outfield; Everett Staples, 2 base; Tony Carlo, outfield; Walter Semeniuk, outfield; Leo McLaughlin, utility infield; C. Casapani, outfield; Omer Marious, 3 base. For the Northern Ontario series Creighton added to their lineup Gerry Wallace, Rollie McLenahan and Maurice Vaillancourt.

Undefeated throughout the season with the exception of a 6-0 licking they took from Copper Cliff early in the schedule, Creighton juvenile baseballers put the wood to Sudbury Aces 7-1 and 7-2 in the playoffs for the league title. Aces had struggled along in the cellar all summer, then scored an upset by trimming Copper Cliff in the playoffs. The Creightonites are seen in the second picture of the layout: left to right, front row, A. Carbone, T. Carlo, E. Johnson, E. Hreljac, L. McLaughlin, Mickey McGlashen (assistant coach); back row, J. Kozak, W. Semeniuk, D. Mynerich, A. Dehlippo, E. Flora, F. Truskoski. Coach of the team, "Doodle" McDonald, was unable to be present for the picture.

Creighton's third starry aggregation of 1944 was its senior softball team, which really went to town in the round-robin series for the W. E.

(Continued on Page 11)

## Shift Parties Popular Affairs



Three more of the pleasant functions at which the girls of INCO plants get together off shift to broaden friendships they have formed on the job are pictured here for Triangle readers.

In the top photo is Mrs. Daisy MacIver's shift from Creighton Mine, banqueting at the Nickel Range. Present were Grace Ricci, Linda Lamarche, Anne Hryhorak, Lorraine Jenkins, Lella Healey, Anna Pest, Elizabeth Ksiazkiewicz, Audrey Simpson, Eveline Bernier, Mary Cuomo, Rita Sasseville, Vivian Kolisnick, Ger-

trude Brazeau, and Mrs. Daisy MacIver, matron.

Middle picture shows Mrs. S. Kerley's and Mrs. Pat Disley's shifts from Frood Mine; left to right, back row, Mrs. M. Vaillancourt, Mrs. J. Andrews, Mrs. N. Gallant, Marion Young, Vera Wylie, Mrs. F. Macwood, Mrs. Hazel Golden, Mrs. B. Dick, Mrs. M. Punch, Stella Racicot, Annette Lafrenniere, E. Dupois, Mrs. Ann Bates, Mrs. D. Ryan, and Mrs. Bergeron; seated, Gertie Rochon, Mrs. L. Liske, G. Walsley, Mrs. S. Kerley (matron), Mrs.

Pat Disley (matron), Mrs. O. Sydor, M. Smrke, Mrs. E. Paquette, C. Wolfe, and Mrs. A. Guolla; front row, Mrs. D. Busnak, E. Walsley, A. Kovanen, F. Brunette, T. Bruneau, G. Petrychen, Mrs. A. Ricard and Mrs. H. LeBlanc. Entertainment after the dinner party at the Nickel Range was provided by Miss E. Disley, Norman McGilveay, and Karl Niemi.

In the bottom picture are girls who have worked on Mrs. R. Campbell's Creighton Mine shift, who also dined and spent a reunion social hour together at the Nickel Range. Left to right, standing, M. Bordas, I. McLeod, O. Lowinz, T. Christiuk, M. Babby, W. Walberg, E. Cardinal, M. Chirsky, A. Saly, and M. Petryshen; seated, M. Hogge, B. Pest, A. Simpson, E. Bernier, B. Burson, Mrs. R. Campbell (matron), I. Gillespie, E. Charron, L. Snape, R. Fauvele, J. Kereliuk, and M. Brown.

Another such affair was the dinner and bowling party held on Sept. 27 by Mrs. Margaret Hey's shift from Garson Mine. There were 22 present, and many were observing their second anniversary of joining the INCO forces.

## Answers to Quiz

On Page 7

1. British — 20,000.  
Canadian — 15,000.  
U. S. — 15,000.
2. "Mary had a little lamb  
Its fleece was white as snow  
And everywhere that Mary went  
The lamb was sure to go.  
He followed her to school one day . . .
3. Lor's wife.
4. The sport of revolving floating logs by treading on them.
5. Underground.
6.  $7 \times 1 = 7$ .
7. The tobacco plant.
8. Queen Victoria (63 years).
9. Kittens. What the "H" would they call them?
10. Lady Jane Grey.

### BOOMPS-A-DAISY!

Another cub reporter came in for his share of literary fame when he described a ship's launching as follows:

"Completing an impressive ceremony, the lovely daughter of the founder smashed a bottle of champagne over her stern as she slid gracefully down the ways."

### MORE ABOUT

## "Grand Slam"

(Continued from Page 10)

Gillespie trophy emblematic of INCO inter-plant supremacy. Copper Cliff, Refinery, Coniston, Open Pit, and Frood were other clubs contesting the series. With three wins and one defeat Creighton went into the playoffs against the classy Copper Cliff lineup, which had gone undefeated through the season behind the high-class pitching of Lauri Boulet. "I still don't know how we finally got to him, but we did," says one member of the Creighton team. "The mine crew won two-straight, 5-3 and 6-2. In the third photo of the accompanying layout they line up:

Left to right, back row, M. Truman, H. Narasnek, M. McGlashen, J. Woznow (playing manager), J. Connors, W. Casper, J. Kerr; front row, N. Loupelle, J. Currie, E. Tomassini, J. Metroff, F. Young, D. Perry.



## ORFORD AND COMBINES WIN

### COPPER CLIFF

Undisputed champions of Copper Cliff's shift softball league this year were Frank Wolfe's powerful Orford players. They steam-rollered their way to title laurels in the eight-team 58-game loop without dropping a single decision. Star of the piece, of course, was Lauri Boulter, the Orford pitching ace whose slants had everybody handcuffed until Creighton finally solved the riddle and nicked him for two games in the Gillespie Cup playoffs.

Teams in the league, and their managers, were: Orford (Frank Wolfe); Concentrators (Fred Flowerday); Engineers (Tony Demarco); Dust Eaters (Barry Edwards); Canapini Meats (Popeye Didone); Electrons (Dave Aubin); Nolan's Shift (George Allen); Research (Harold Borland). Both Tony Demarco, league president, and Aubrey Wright, secretary, agree that this was one of the best seasons in the history of Cliff shift softball, all things considered.

Picture No. 1 shows the champs, Frank Wolfe's pride and joy: left to right, back row, Red Maliby, Eddie Panke, Orin Dickie, Alex Devina, Louis Scanlon, Fred Scanlon; front row, Aubrey Wright, league secretary; Jack Newell, Ross Grooms, Lauri Boulter, Gema Zuliani, Toby Leipala; mascot, Ross Grooms young son, Absent, Gerry Wallace.

In Picture No. 2 are the league runners-up, Concentrators: left to right, back row, J. Zimmini, W. Petryna, G. Baldisera, R. Doucens, A. Roy, D. Sheridan; front row, "Moon" Carroll, O. LeBlanc, N. Carriere, L. Hoole, Toby Armitage, K. Webb, Fred Flowerday.

### COPPER REFINERY

Characteristic of all activities at the Copper Refinery was the pep and enthusiasm injected into the 1944 shift softball league, in which five teams played 12 games each. Joe Harrison's Combines won immortality by fighting their way to the top of the heap in the regular schedule and then going on to capture the decision in the playoffs, but it was Frank Scott's Engineers, the Cinderella team, which set the stage for an exciting finale to the annual mull-ball drama. After finishing fourth in the league standing the Engineers drew on hidden reserves, batted pluckily into the playoff finals, and forced Combines to six games before they finally bowed to a team which had an edge on them in all departments of the game.

Combines receive both the F. Bernard and R. H. Waddington Trophies. Prize for best hitter in the league schedule was won by Alex Watt of Shops who smacked the old apple for .492, and leading pitcher of the league was Jim Bryson of Combines with three wins and one loss.

The hat was passed at all games and because Refinery people always turn out well to support their teams a nice fat kitty was built up during the season. Part of it will pay for a banquet and the rest will go into an emergency fund for injured players.

The runners-up, Engineers, shown in picture No. 3: left to right, back row, Orvil Roseborough, Ray Williams, Ken Dowdall, George Wickenden, Andy Noble, Stan Mitchell; front, Lionel Carrey, Frank Scott, Connie Aleziuk, Mike Owens, Lorne Thomson. And in No. 4 are seen the classy Combines: left to right, back row, John Netzke, Jimmy Bryson, Ab Mallett, Stan Ramsay, Bill Childs, Ron Heale, Joe Harrison, Fred Sheridan; front row, Ralph Johnson, Mike Shambley, Harry Lipscombe, Charlie Ness, Jerry Mahon.

Other teams in the league were Shops (Pappy Hart); Castings (George Jenkins); Tankhouse (Charlie Marshall).



# Take Pretzels Out of Roads

Men and machines are busy these days removing the pretzel effect from the roads to Frood and Creighton Mines, two of the most travelled and most exasperating industrial highways in Canada.

First photo in the accompanying layout shows how waste rock from Frood Open Pit operations is being used in a very unusual and effective road-building operation. Co-operating with the Department of Highways to improve transportation facilities to Frood, the Company is diverting open pit rock from the regular dump north-east of the pit to smother the humps and gullies of a straight-line route into Sudbury (Sketch 2). Part of the old road to the city is seen in the right foreground, soon to disappear beneath the avalanche poured from the big 30-ton trucks which roar back and forth from the pit on a ceaseless schedule. No tears are being shed over the inglorious fate of the old road by motorists, bus pilots, or passengers, although it will probably be quite a while before Delongchamp's flying showcases get used to travelling in a straight line.

At the point where the picture was taken the fill is approximately 70 feet deep. Length of the new road will be 5,800 feet, including an extra 700 within Sudbury city limits, and it is estimated that the total amount of rock the Company will haul to complete the job will be more than 750,000 tons. Except for the last 1,400 feet on the Sudbury end, which will be 40 feet wide, the top of the super-highway will measure 80 feet in width. It is expected that the road will be open to traffic by December 15.

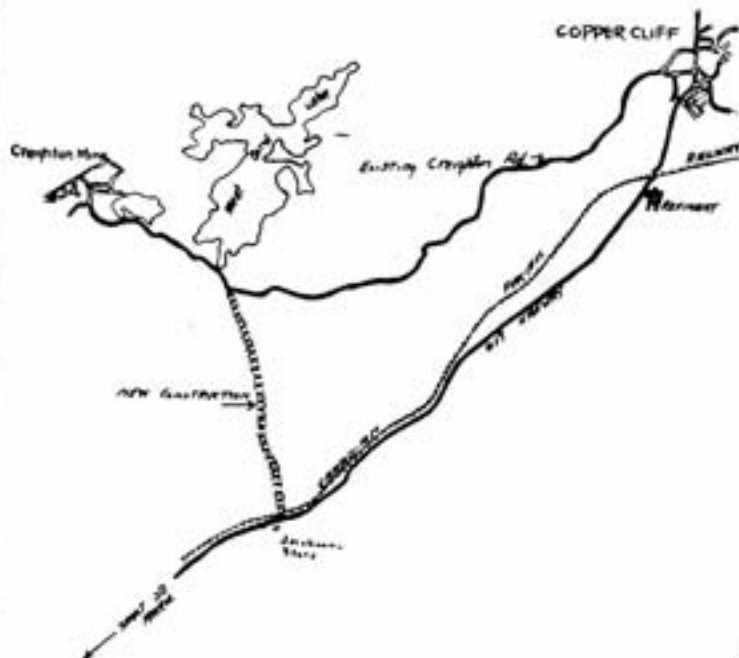
Another highway improvement greeted with satisfaction by a large number of INCO workers is the new route to Creighton Mine. Instead of following the tortuous windings of an old trail blazed away back in 1900 by a band of engineers who, popular legend has it, were suffering from snow-blindness and a three-day session at Panther Pete's soft drink emporium, travellers to Creighton will in the near future be able to throw away their compasses and enjoy the ride.

Third illustration of the layout shows workmen busy on a section of the new cutoff and the accompanying map depicts the revised route to the mining camp, following the Soo highway to Jacobson's Corner and then striking across country to join the old Creighton road at the point where it stops wriggling like a hula dancer and settles down to something like a straight line.

The Department of Highway engineers say the new route will be 2.4 miles longer than the old but the saving in driving time, gasoline, and wear and tear on tires and temper will more than offset that. No less than 39 sharp curves between Copper Cliff and the cut-off will be eliminated, and, where there was practically no vision before, there will now be interrupted vision at any point for a minimum of 600 feet. The cut-off, about two and a half miles long, will be 30 feet in width and will probably be ready for traffic by December 1. Its construction entails moving 47,000 cu. yds. of earth and 11,300 cu. yds. of rock. It will be paved next summer, according to Highway Dept. plans.

## NO RESPITE

A Frood miner whose name was unfortunately omitted from the list of INCO enlistments is L. F. Martell, who has had his share of wounds in the battle overseas. Wounded in Normandy he was sent back to hospital in England; 13 days after he returned to the front he was wounded again.







### 1—Chief Chemist Retires

This picture will serve as a souvenir of a long and happy relationship in INCO for Henrik Waern, Chief Chemist, who retired on pension Oct. 31 and has gone with Mrs. Waern to reside at Port Hope, Ont. The entire staff of the Control Laboratory at Copper Cliff posed for the photograph, as follows:

Left to right, back row, W. Dudley, L. Lucas, H. O. Connor, D. Suckow, G. Zinkie, E. Nolan, W. Sullivan, H. McJennet, C. Darisch, W. Guest, O. Gatien, E. Beak, G. Zilio; centre row, E. Kingston, T. Vendramin, J. Kingston, H. Campbell, W. Job (successor as Chief Chemist), H. Waern, M. Marwischuk, C. Sphaus, R. Mazzei, C. O'Donnell; front row, J. Fitzgerald, W. Wilson, J. Kajganich, C. O'Connor, L. Brooka, H. Ross, H. Fitzgerald, E. McKerrow, J. Jaffe, D. Johnston, R. Sanberg.

Another chapter in a colorful and interesting life begins for Henrik Waern with his retirement. Born in 1879 on his father's estate at Wahlholm, near Mariestad, Sweden, he yearned as a boy for a life at sea and at the age of 13 enrolled as a cadet in the Royal Swedish Navy, with the Baltic and North Seas as his training grounds. Two years later he entered the merchant marine and sailed before the mast to the far-distant ports of his dreams. Often his vessel was tossed and buffeted by storms, once was almost lost in a hurricane off the Azores but eventually limped into port at Belfast, beaten and battered but under her own sail.

Abandoning life at sea the young man entered the Chalmers Institute of Technology in Gosenberg, Sweden, and graduated in 1902 in chemistry. Going to the United States he worked for a time at a paper mill in New York State, then went to Sault Ste. Marie, started as a boilermaker's helper with the Lake Superior Corporation, eventually became a chemist with Algoma Steel. Then, in January of 1906, he shipped to Copper Cliff as a chemist with Canadian Copper Co. under J. W. Rawlins, Chief Chemist. He was stationed at the lab. at No. 2 Mine on the Clarabelle Road. Omer Gatien was beaker boy there; Eddie McKerrow was chemist at the Cobalt plant lab. down where Pete Mathison's coal yard is now located.

In 1912 Henrik Waern moved over to the smelter as assistant to the Chief Metallurgist, D. H. Browne, whom he accompanied to Norway the following year with a shipment of Copper Cliff ore to experiment with a new type of smelting furnace. On their return Browne went to New York as consulting metallurgist and Waern became Metallurgist at the Cliff.

Leaving the Canadian Copper Co. in 1914 he went to Norway to superintend a nickel mining and smelting operation there, then returned to Sweden where he and his brothers opened a brick and paperboard factory. In 1922 he came back to Copper Cliff as Chief Chemist, and remained there until his retirement.

He was married in 1911 to Miss Hilda Bryn at Oslo, Norway, and two children were born to them: Henrik, now farming near Copper Cliff, and Greta, now Mrs. W. van den Belt whose husband is with Eldorado at Port Hope. They have four grandchildren.

Old friends and acquaintances join in wishing Mr. and Mrs. Waern much happiness and many years to enjoy it in their new home.

### 2—Nov. Cook-of-the-Month

If you're looking for a meat loaf that's easy on the budget as well as on the palate, take a tip from Mrs. Bob Murray of Froid (elected by acclamation as our November Cook-of-the-Month) and try the following epicure's delight:

4 slices bacon, 1 cup bread crumbs,  $\frac{1}{2}$  cup hot water, 1 lb. ground shoulder steak, 1 beaten egg, 2 tablespoons flour, 1 small finely minced onion,  $\frac{1}{2}$  teaspoon nutmeg, 1 tsp. salt,  $\frac{1}{4}$  tsp. pepper,  $\frac{1}{4}$  tsp. celery salt,  $\frac{1}{4}$  tsp. thyme,  $\frac{1}{4}$  tsp. sage,  $\frac{1}{4}$  tsp. allspice;

Cut bacon into cubes and saute with onion until crisp. Add bread crumbs and mix. Add hot water and stir well, add egg. Turn into mixing bowl, add steak and spices, and mix well. Shape into loaf or put in buttered loaf pan and cook one hour in oven at 375 degrees with top turned off. When done, add flour to gravy in pan, simmer, and serve.

There, that's the secret. Besides keeping her Scottish hubby happy with concoctions like this, Mrs. Murray mothers a cute young daughter named Gail, enjoys her housekeeping, reads everything from "chiller-dillers" to biographies, and, as our picture indicates, is by no means hard on the eyes. Before her marriage at Sudbury on May 21, 1938, she was Marguerite Davis of Fort William and taught school. Her husband is Safety Engineer at Froid Open Pit, has been with INCO nine years, is learning to play golf.

### 3—Souvenir from "Monty"

One of the proudest young men in Canada last month was 12-year-old Billy Whitehead of Lockerby. In August Bill, who has a brother in aircrew overseas, wrote to Field Marshall Montgomery asking him for a souvenir from France. Here Billy displays the souvenir, the wings of a German airman taken from a dead Nazi's tunic, while his mother holds a picture of older brother John, in the R.C.A.F.

Letter accompanying the souvenir was written from TAC Headquarters, 21 Army Group, B.L.A., on August 31, and was signed by Captain J. R. Henderson, A.D.C. to the Commander-in-chief. It reads, "Dear Master Whitehead, General Montgomery has asked me to send you the enclosed wings which belonged to a German airman."

Billy's father, Wm. R. Whitehead, is a flotation operator in Copper Cliff Concentrator and has been with INCO since September of 1910.

### 4—Employees Club Staff

Here's a group of people responsible for the leisure-hour happiness of hundreds of INCOites—the staff of INCO Employees Club in Sudbury. And every member will agree that they're doing a swell job of catering to their "customers" on a dozen different recreational fronts. Seated, left to right, are Roma Fleming, Anne Saari, and Lillian MacPherson; in the back row are Henry Dunne, Johnny LaBranche, Vern Tupling, Vic LaBranche and Les Neal.

### 5—At the Mechanics' Ball

Copper Cliff Mechanical Department usually makes a thorough-going success of anything it undertakes, be it work or play, and its annual Mechanics' Ball at the Nickel Range last month was no exception. Wally King and his orchestra supplied a nifty musical menu for a much enjoyed party which attracted a large crowd. One group of merry-makers was caught by the Triangle camera: left to right, Miss Marie Wentzell (Copper Cliff Transportation), Mr. and Mrs. Walter Pernfuss (Copper Cliff Shops), Hughie Sullivan (Garson Mine), Mr. and Mrs. Hughie Allen (Copper Cliff Concentrator).

### 6—Charlie Heale's Last Shift

Friday, September 29, was Charlie Heale's last day at the Copper Cliff Smelter, where he was a crane-man in the Orford Building. That afternoon, at the end of the shift, his fellow employees gathered around while Smelters Supt. "Dunc" Finlayson read a farewell address and presented him with a purse in token of the high esteem in which he is held.

"Your fellow employees," the address read, "wish to convey to you their hearty congratulations on reaching the age of retirement from the service. Some of us have worked with you for the full period of your employment, nearly 34 years, and during that time have learned to respect and admire you for the many high qualities of heart and mind which have earned for you the regard of all with whom you have come in contact. As a citizen of the Town of Copper Cliff you have given generously of your time and effort for the general good of the community. . . . With this purse go the very best wishes of your fellow employees and friends that you may live many years to enjoy in good health and happiness the leisure which you have so richly earned."

Charlie Heale replied briefly to these sincere thoughts. His time had come to leave the job, he said, and he was not sorry. He was looking forward to some leisure after so many years of work. But he wanted to say he thought International Nickel was about the finest company a man could wish to work for. He had always been treated right and he had always tried to do his job to the best of his ability. In closing he urged the young men to realize their opportunities, and contrasted working conditions today with what they were when he was young. Perhaps he was thinking of the days when, as a lad of 14 in Devon, England, he started a seven-year apprenticeship as a millwright, the trade of his father before him. During the first year of his apprenticeship he received a shilling a week, in the second year one shilling and sixpence a week, and so on up by leaps and bounds until in his final year he was getting five shillings a week.

Born on Sept. 17, 1879, Charlie Heale came to Canada about 40 years ago. In 1906 he was married at Sudbury to Miss Elizabeth Ann Harper of Devon, who passed away in August of this year. Five children were born to them: Ron, now of the time office staff at the Copper Refinery; Joan and Una, twins, the former now with the Air Force at Scoudouc, N.B., and the latter Mrs. J. H. Smith of Ottawa; Harold, also with the R.C.A.F. and stationed in Three Rivers, P.Q.; Doreen, at home.

In the last war Charlie served overseas with the 227th Battalion and is now an energetic member of Copper Cliff Canadian Legion, His Legion work, his garden, his old INCO cronies and his family will be his chief interests during retirement.

### 7—Skating Gets Underway

With Stanley Stadium once again open for business, and a definite revival of interest apparent in the good old sport of skating, Copper Cliff Skating Club is looking forward to a highly successful year. Photo shows some of the members as they turned out for an

(Continued on Page 16)

## SURVIVE BOUT WITH GRIZZLIES

Friday, August 25, 1944, is a day Herb Brownell isn't ever going to forget, even if he lives to be 116, has 39 great-grandchildren, and grows a beard seven feet long.

Ken Robertson isn't going to forget it either, because that was the day these two INCO geologists had a peek inside the Pearly Gates.

Members of the INCO geological party investigating the country west of Whitehorse in

the wilds of the Yukon, Herb and Ken were running a traverse in the Wolf Lake area on that memorable Friday. Early in the afternoon they were making their way up a mountain pass which was barren except for willows and swamp. Ken was carrying a rifle, a 30-06, on the off-chance he might get a good shot at some game.

At a point about seven miles from their camp they reached a sandy ridge and were descending it to cross a small stream at its base when they heard a big roar behind them. They turned to see three grizzly bears about 20 yards back along the ridge, eyeing them hungrily.

Herb and Ken leaped across the small creek and turned again to face the music. The biggest of the bears was in the lead. She dropped a marmot she had been carrying in her mouth and, as if this were a prearranged signal, the three grizzlies swung down the side of the ridge to the attack.

"This is it, Ken," said Herb to his partner. "Looks like it," said Ken. "Here, you take the gun."

Herb grabbed the rifle, drew a bead on the big bear as she rounded a willow, and fired. She went down on that first shot—an extremely fortunate thing for those two trapped INCOites because there just wouldn't have been time for another shot. Grizzlies move about three times as fast as the average person gives them credit for.

With three more shots Herb stopped the other two bears, hitting one in the right hind-quarters. It turned to escape, dragging itself up the ridge by its front legs. The third grizzly paused for a second, then retreated.

With three bullets left, Herb and Ken lingered no longer. They left that place, to put it mildly. On the trip back to camp, which they accomplished with no loss of time, they seemed to see bear tracks everywhere and for the next few nights their dreams were thickly populated with roaring grizzlies.

Next day they returned to the scene of action and found their victim where that first bullet had dropped her. She weighed better than 600 lbs. Veterans of the north told them later that if Herb's first shot had not found its mark they wouldn't have had a chance.

When the geological party returned to Sudbury last month Herb brought the bearskin with him—a fine silver-tip grizzly. He gets a pleasant sensation out of standing on it, which he firmly believes is a much better position than inside it.

### MORE ABOUT

## YUKON RIDDLE

(Continued from Page 9)

hungry you can shoot ptarmigan and grouse, of which there are several varieties. A peculiar little animal we ran across is the rock rabbit which lives like a hermit away up on the high rocky ground. It is about the size of a chipmunk, a miniature rabbit, and eats the lichen which is about the only thing growing at those levels.

"A few colorful characters from the days of the Klondike gold rush are still prospecting for placer gold. They all have some special place of their own on a creek where they can make wages in case of necessity but many of them are working at other things while the highway boom is on. Some of them have travelled the length and breadth of the Yukon on foot. In June and July it is daylight practically all the time so what they did was travel at night when it was cool, and sleep in the day time. In this way no bedding was required and a man could live off the country with very little to pack on his back.

"But getting back to transportation. As far as bush travel is concerned, it's exactly the same as it was 46 years ago. Maybe that's why there haven't been any new finds up here in the last 20 years. Perhaps the helicopter is the answer.

One week I was looking at a prospect and it went like this: 55 miles by car, 40 miles by horse, 18 miles with Indian guide and pack dog, and then back by the same method as we came. Time elapsed; four days. This same place could be reached from the highway in about eight minutes by helicopter flying directly across 15 miles."

With Michener were Herb Brownell, Geoffrey Leech, Jack McNeil, and Ken Robertson.

In these three fine photos which "Chuck" took during the trip are shown: (1) a view along the new Alaska highway with the St. Elias Mountains in the background; (2) some of the INCO party fording a mountain stream with their pack horses; (3) pack dogs ready for the trail. In the background is Herb Brownell.

## Cigs a Luxury On Belgium Front

Cigarets are an even greater luxury than meat in Belgium these days, according to a letter to the War Relief Club from Dan Sharum, former Levack miner. He writes:

"Once again a lucky day just passed. I received 100 cigarettes from you and although a lot has happened since I left INCO and we've come a long way, cigarettes still remain a major problem. In England a fellow could usually get some but it's not so here. People tell us that until we came they didn't see a cigar for four years. They grow their own tobacco and smoke it in pipes, and every time someone lights a pipe I look to see what part of my clothing is on fire. That's the way it smells—the pipe, I mean.

"Really cigarettes here are a greater luxury than meat, so you see how much they mean to us. I'm really grateful for being remembered by all you people away back there."

### MORE ABOUT

## FAMILY ALBUM

(Continued from Page 15)

early-season workout; left to right, back, Mrs. Mary Gladstone and Junior Digby; standing, Dorothy Fraser, Amelia Falcioni, Dorothy Digby McCarthy, Lorraine Rowe, Patsy Thompson, Greta Faddick, Ann Aubin; and, in the spotlight, little Jacklyn Gladstone, whose mother and dad have long been enthusiastic members of the Club.

Good news to all members and prospective members is the announcement that the Club is again under the wing of the Copper Cliff Athletic Association and that the services have been secured of a full-time professional, Joseph Pope of London, who spent five weeks at the Cliff last year and impressed everyone with his teaching and skating ability. The Club's first professional, Graham Hobbs, also came from London.

Championship trophies of the Copper Cliff Skating Club, and their last winners, are as follows: Sudbury Brewing Co. trophy for senior champions, Mr. and Mrs. S. H. MacFarlane; Copper Cliff Dairy trophy for senior runners-up, Mr. and Mrs. T. Gladstone; W. E. Mason trophy for intermediate girls, Betty Gathercole; Cochrane-Dunlop trophy for junior girls, Ann Aubin; Racicot-Darrach trophy for junior girls' runner-up, Joyce Salo; Frood Welfare Association for junior boys, Tom Gathercole.

### ATTENDED FUNERAL

Among the many University of Toronto alumni attending funeral services on October 4 for Sir William Mulock, Chancellor of the University and Canada's Grand Old Man, who died at the age of 101, was W. H. A. Cushing of Frood, representing class of '35, Forestry.



Top: Herb and victim.  
Bottom: Ken Robertson.