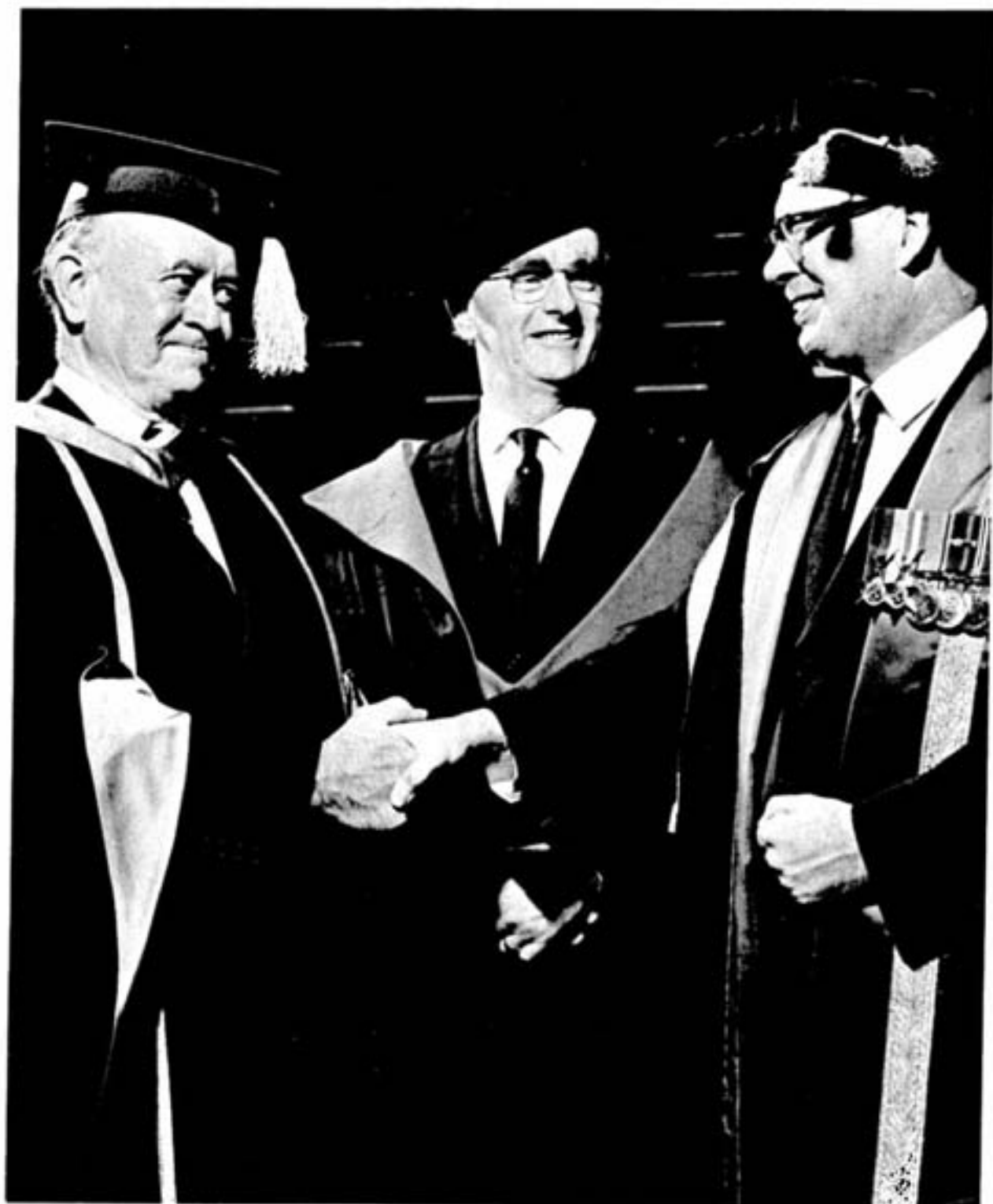


# INCO TRIANGLE

VOLUME 28

COPPER CLIFF, ONTARIO, NOVEMBER, 1968

NUMBER 8



*Laurentian University Honors Inco's Chairman*

(Story on Page 2)



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

D. M. Dunbar, Editor

D. J. Wing, Assistant Editor

Editorial Office, Copper Cliff, Ont.

Authorized as second class mail by the Post Office Department, Ottawa, and for payment of postage in cash.

Material contained in Inco Triangle should not be reprinted unless permission has been obtained from The International Nickel Company of Canada, Limited, Copper Cliff, Ontario.

## Laurentian Confers Honorary Doctorate On Henry S. Wingate

At its fall convocation on November 9 Laurentian University of Sudbury conferred an honorary doctor of laws degree upon a "captain of industry", Henry S. Wingate, the chairman and chief officer of The International Nickel Company of Canada, Limited.

Dr. S. G. Mullins, president of the university, and Dr. D. H. Williamson, chairman of the department of geology and geography, made the presentation. Our cover picture shows them congratulating Dr. Wingate (left), with Dr. Mullins on the right and Dr. Williamson in the centre.

The Great Hall of the university was filled to capacity for the colorful convocation. More than 70 candidates for degrees in course were presented by Dr. R. J. A. Cloutier, dean of the faculty of arts and science.

### Distinguished Career

Dr. Williamson reviewed the distinguished career of Mr. Wingate, first in law and then in industry. He has been chairman of Inco's board of directors since 1960, holds many directorates in other major industries and financial institutions, and is prominent in many professional and public welfare organizations. He has previously received honorary degrees from a number of universities, including the University of Manitoba and York University, Toronto.

A graduate of Northfield High School, Northfield, Minnesota, and Carleton College, he received the degree of jurist doctor from the University of Michigan law school in 1929. He was a member of the New York law firm of Sullivan and Cromwell before joining International Nickel, of which he became president in 1954.

In delivering the convocation address Mr. Wingate discussed business and the university as "partners in progress".

He first expressed the "special warmth and pride" which International Nickel feels for Laurentian University, as one of its founding supporters and because Inco men like Ralph D. Parker have had a direct hand in its development.

"Many Laurentian graduates are now working with us at International Nickel, some 260 children of Inco employees are studying here now, and many more will

## Laurentian Completing Phase Two of Its Development



Reza T. Dionne

Acknowledged to be one of the most strikingly beautiful in Canada, Sudbury's Laurentian University campus is completing phase two of its development. In this recent aerial picture Thornloe, Sudbury and Huntington Colleges appear in the foreground, University College and the 11-storey R. D. Parker building with its library and administration tower are in the centre, and beyond them is the Science building where a large addition is under construction. Not shown is the athletic building. Upcoming developments include a University College residence, a student centre, new dining facilities, a Social Science building, and swimming pool and squash courts to tie in with the physical education program.

study here in future generations," he cited as further illustration of the Company's close links with Laurentian.

A question frequently asked was why any business, in the face of the large indirect support it provides through the taxes it pays, should also assume a direct responsibility for financial assistance to cultural and academic life.

The answer, Mr. Wingate said, lay not only in good corporate citizenship but also in clearer realization that the future of all business depends in a very real sense on the quality and extent of today's higher education.

Some authorities were now acknowledging that "the university is the country's most important industry".

It was a matter of deep concern that last year only 2,550 engineers were graduated by all of Canada's 60 universities, and only two-thirds of this small number went to work for private industry, small or large.

"It is in the best interest of business that the university be maintained as an independent and

Continued on Page 15

## 38 Recruits Join Thompson Air Cadet Squadron



John Lewis

Accompanied by the new commanding officer, Captain Dave Henderson, Inco general manager John McCreedy is shown inspecting the Thompson Air Cadet squadron. The turnout of 38 for the parade included a record 38 new cadet recruits.

P.S. Stan Swanson, on the left in the picture, was presented by

Mr. McCreedy with his wings, won in the flying scholarship course at the Brandon Flying Club. Also receiving his wings was Matt Campbell, who has left the squadron where he was senior nco; he is the son of the former squadron commanding officer, Thompson mayor-elect A. B. Campbell.

Succeeding as senior nco is P.S. Dennis Cook, seen in the reviewing party on the right behind Captain Henderson, who was congratulated by Mr. McCreedy on his promotion to warrant officer II.

Organized in 1963, the Thompson squadron is one of Manitoba's smartest air cadet units.



## INCO FAMILY ALBUM

A second-generation Inco man who was born in Port Colborne, Steve Czerlau has worked at the nickel refinery there since 1951. He was employed in the precious metals department until his transfer to the security force six years ago. He and his wife Rose, who came from Indiana, have this fine family of five: Louie, 7, Terry, 8, Marilyn, 12, Michael John, 10, and Jim, 14. A carpenter by inclination, Steve is never happier than when busy with hammer and saw, and is in the process of remodelling his home in Welland.



Outnumbered by six to one — but not complaining a bit — Copper Refinery chief power engineer Joe Diduch is the lone male member of his family. Joe was born and brought up in Kenora, his wife Corale in Red Rock. A comparative newcomer to Inco, Joe joined the Company earlier this year. There's no shortage of musical talent among the youngsters. Shawn ready to perform a duet on the piano are Linda, 13, and Joanne, 11. Gamely supporting the accordion is Christine, 8, while Janice, 7, is on the mark with her violin. A fine new house in Sherwood Park is home to the Diduch family.



Allan and Joyce Cooper and their six youngsters are this month's Thompson family. Allan joined Inco at Thompson in 1963 and is now a rooster operator helper in the smelter. It's rare to catch all the busy Coopers at home at the same time, except when they're asleep, as they are all involved in some project or other. Seated on the left is 8-year-old Vickie, looking over Dad's left shoulder is Debra, 12, next is Penny, who is 5, and 3-year-old Pamela is on her mother's lap. Kneeling in front are Kimberley, 11, and Brent, 9.



This is the attractive family of Stobie maintenance electrician John Gamme and his wife Mary. Born in Ottawa and brought up in High Falls, John joined the Company as an electrical apprentice there in 1943, finished his apprenticeship at Copper Cliff, and moved over to Stobie mine in 1951. Seen with their parents at their home on Southview Drive in Sudbury are Lee, 11, Debbie, 13, Russell, 9, Wendy, 6, and Kathy, 2.

Hector and Colette Pilon both hail from the pleasantly rural area of River Valley, and left there in 1966 when Hector joined the Company at the Copper Cliff smelter where he works as a slag chute man in the nickel reverberating building. The couple met during their early teens when Colette's family bought the Pilon farm. "As it turned out, I went with the place," Hector explained with a grin. The three young Pilon are Monique, 14, Andre, 5, and Lynn, 3.



A cage tender for the last six years, Pat Owens has worked at Levack since he came to Inco in 1951. He is a native of Chalk River; his wife Clemense grew up in Chelmsford and was a practical nurse at the Levack medical centre when she met her husband-to-be. Keenly interested in baseball, Pat coaches in the Levack pee-wee league and is a shift league umpire. Their family of three boys are Ricky, 9, Gerry, 4, and Bernie, 10.



## To the Ladies!



Mrs. Genaria Paré, whose husband Armand is head anode scrap washer, beams with pleasure at receiving a bouquet of roses and a letter of appreciation from plant manager W. R. Rath on the occasion of her husband joining the Quarter Century Club.



"It's very nice to be remembered like this," said Mrs. Irene Burgess, the wife of another new 25-year man, machinist, Bill Burgess.



A rose-grower herself, Mrs. Frances Cognigni was doubly appreciative of her lovely bouquet. Her husband Louis is a plant fitter. The flowers were delivered to the wives of the 26 new Club members on the day of the banquet.



## Enjoying Annual QCC Get-Together at Port Colborne



# James C. Parlee Is Speaker at Port Colborne

"Our Port Colborne plant is -- and is likely to remain -- the largest electrolytic nickel refinery in the world," senior executive vice-president James C. Parlee assured an audience of over 450 members at the annual dinner meeting of its Quarter Century Club.

"The experience of all of you here tonight, and your cumulative total of thousands of years of service to the Company, have enriched International Nickel immeasurably. More than anything else, they are the best guarantees that the Company will continue to grow and prosper in the years ahead," he said in a salute to the Port Colborne chapter of 378 active employees and 263 pensioners.

Twenty-five new 25-year men and one lady were presented with their gold club membership badges by Mr. Parlee and Ontario division general manager J. A. Pigott. The visiting executives were introduced to the gathering by the manager of the Port Colborne refinery, Warren R. Koth, who was presiding at his final Company function before retirement.

## Good Spirit Evident

"Changes in technology or equipment will never alter the importance of its employees to International Nickel," Mr. Pigott said in his brief remarks. During a tour of the plant that morning he had been impressed as usual by the good spirit prevailing in all departments, and this was further evinced by the friendliness and hearty fellowship shown on all sides at the banquet.

Mr. Koth noted that 30 members of the Port Colborne chapter, of

New member Miss Margaret Benner of the stenographic staff is congratulated by senior executive vice-president James C. Parlee. On his right is Ontario division general manager J. A. Pigott, and introducing Miss Benner is Charles Ott, assistant to the manager (personnel). In the centre of the picture, seated, is division controller S. C. Augustine, and beyond him Reg Steeves of the organ.



Another of the 26 new members welcomed into the Port Colborne chapter of the Inco Quarter Century Club was "Slim" Toth of the mechanical department.

whom seven are still actively employed, had 40 or more years of service with Inco, and another 83, of whom 22 are still on the job, had from 35 to 40 years of service. The contribution of senior employees in passing on the benefits of their experience and know-how to the younger men is very much appreciated by the Company, he said.

James H. Walter, assistant manager, was master of ceremonies for the program.

"It seems to me that the City of Port Colborne could wish for nothing better than to have a large number of Inco pensioners residing here," said assistant manager W. V. Barker in proposing a toast to the Company's retirees.

## Valuable Citizens

"The contribution you people make to our city is most com-

mendable. I see you serving the community at the city hall, at the civic swimming pool, at the arena in the boys' hockey league, in the service clubs and charitable organizations and churches. You babysit, you advise the youth, you beautify the city by your work in the horticultural and other societies as well as most admirably around your own homes. We who are still in the works are proud of you pensioners."

In reply to this salute one of the newer pensioners, "Nis" Nissen, spoke first in his capacity as mayor of Port Colborne, thanking senior executive vice-president Parlee for the reassurance contained in his remarks about the future of the city.

He expressed appreciation to the Company for the comfort and security provided by its retirement system. "It's nice to be able to do the things we want to do,

when we want to do them," he said, but cautioned new pensioners against leaning back too long after retirement. "A short rest is fine, but don't overdo it or you may never get started again," he said, urging them to take up some regular hobby or light occupation.

## 50 Years in Port Colborne

"This year marks the 50th anniversary of the founding of our operations here at Port Colborne," James C. Parlee reminded his audience. "When your new Quarter Century Club members joined the Company in 1943 the Port Colborne plant had already been expanded to more than 10 times its original capacity. We have continued to make tremendous progress in the past 25 years, and Port Colborne has contributed substantially to it.

"In 1943 the Company's worldwide capital expenditures amounted to only five and a half million dollars; last year they totalled \$145,705,000."

The long-range future for International Nickel looks bright, Mr. Parlee stated, but the present continually increasing demand for nickel poses a serious problem. "We must assure adequate supplies of nickel to meet future demand, and that is what our multi-million dollar expansion program here in Canada is all about." But in the meantime, he said, "We must balance supply and demand as soon as possible to reduce pressures on our customers."

Continued on Page 15



"Looking back and planning ahead" was the theme of Mr. Parlee's address. Shown with him here is Warren Koth, manager of the Port Colborne refinery.

Miss Madeline Matthews and Charles Ott responded in fine style when recruited by Art and Mabel Guinness to make up a foursome in their bell-ringing act, part of an excellent program of entertainment.





Winners of the pumper division championship were Maurice Beauchamp's Copper Cliff smelter brigade; back row, Henry Stoerk, Marcel Rainville, Helmut Madolovee, driver Jack Hall, Ronald Storms, Gaston Charron, Alkide Gagne; front row, Ken Swant, Edgar Lecuyer, Maurice Beauchamp, shift chief, Art Hein, Tony Coroddi, Ray Labelle; not shown, Ken Kusan, John Van Norman.

## Beauchamp and Creswell Brigades Tops in Annual Firefighting Tests

The brilliant colors of the fall foliage were not the only reds that attracted attention during October. The Company's firefighters were more intent on a flickering brand of red — they were "going to blazes" in the annual inter-plant fire brigade competitions.

Copper Cliff's mill brigade led by chief Maurice Beauchamp emerged in fine style out of a field of 11 to become champions of the pumper division for the first time in the 22 years that competitions have been held. They stood second in the 1967 trials.

Top honors in the non-pumper division, with 15 plants and mines competing, went to Bob Creswell's hustlers from the Coniston smelter who were also runners-up last year.

Fire inspector Don Bray was well pleased with the overall performance of the contestants who, he said, have proved that training

and teamwork can bring about a high degree of competence.

### Only 3-Second Difference

A heartbreaking three seconds was all that separated the victors in the pumper division, who had a time of 129 seconds, from the Leveack town team and Pigeon's shift from the Copper Cliff mill, who tied for second place.

Leveack mine and Lively No. 1 came in together with 136 seconds, followed by Copper Cliff smelter (Dickie) 156 seconds, Copper Cliff mill (Dyce) 161 seconds, Copper Cliff smelter (Gladstone) 192 seconds, and Copper Cliff smelter (Stemp) 209 seconds.

The non-pumper brigade tally showed that again it was a mere three seconds that separated the winning Coniston smelter group from second place Crean Hill, the respective times being 40 and 43 seconds. Coniston (Strom) nosed into third spot with 47 seconds,

and Iron Ore Plant (Jack), Coniston (Rivard), and Clarabelle Open Pit all turned in a time of 48 seconds. Iron Ore Plant (Paudke) and Frood No. 3 took 49 seconds; the three Copper Refinery brigades came in together with Clara clocking 50 seconds, and Aubin and Bobuk 53 seconds. Stobie took 56 seconds, Garson 85 seconds, Murray 86 seconds, and Iron Ore Plant (Morrison) 87 seconds.

### Tested by Evolutions

The brigades' speed, skill and teamwork were put to the test with several well-planned evolutions that included laying two 200-foot hoses from a hydrant that was 240 feet from a target. Time was clocked from the starting signal until swinging doors on the target were opened by straight streams from two one-inch nozzles.

Pans containing a blazing mixtures of oil and gasoline tested the firefighters' ability with fog streams from the pumper booster hose nozzle. Dry chemical extinguishers were also allowed to put the fire out.

Proficiency in use of the breathing machine was demonstrated by one man from each brigade who was required to complete the mask procedure and explain each step as he progressed through the steps of donning the machine.

Three members of each of the pumper brigades were tested on their knowledge of knots, including a rescue hitch for lowering a man from a height, a rolling hitch for securing a hose, and a tie for hoisting a hose and nozzle to the upper levels of a building.

Two firemen from each competing unit were also required to name the fire equipment in two locations in the area covered by the brigade.

The completion of each evolution was followed by a short talk by fire inspector Bray on the various aspects of different types of fire, and finished with a question and answer period.

Following the announcement of

results of the competition, cash prizes and an inscribed shield were presented to the top team in each division.

## Business Brisk with Ontario Prospectors

Business remained brisk for prospectors in Ontario during the first nine months of this year with the result that 30,817 mining claims had been staked and recorded throughout the province up to the end of September — an increase of over 5,000 when compared with the total for the same period in 1967.

The most concentrated activity was in the Sault Ste. Marie division where the number of stakings more than doubled from 4,075 in the first nine months of last year to 8,906 in the same period this year. The big increase in recordings can be attributed to the fact that land north of Elliot Lake was re-opened for staking in February. The revived interest in uranium was probably also responsible for the increase to 1,922 claims staked in Eastern Ontario this year compared with 1,211 in the first nine months of 1967.

In the Sudbury district there were 4,434 recordings in the first nine months of 1968, compared to 5,293 for the same period in 1967.

The number of miners' licenses taken out this year also increased considerably. The total of new licenses and renewals to the end of September was 6,440 as compared with 5,011 in the first nine months of 1967.

### FORGETFUL FELLOW

Waiter: "Mr. Brown left his umbrella again. I believe he'd leave his head if it were loose."

Waitress: "He sure is forgetful. I heard him say yesterday he was going to Arizona for his lungs."

You can get a dinner at an exclusive hotel for what you once paid for a good used car.

## Change of Command in Irish Regiment



Retiring after two years at the helm of the Sudbury Irish Regiment, Lieut. Col. L. M. Ramsey, CD, (right, above) was succeeded as commanding officer by Lieut. Col. W. W. Becket, CD. Both are graduate officers of the Copper Cliff Cadet Corps. Shown between them is the inspecting officer at the regiment's colorful change-of-command parade held in the Sudbury armory, Brigadier General G. R. A. Coffin, Oakville. Les Ramsey, whose activity in the Sudbury district military establishment dates back 26 years, is metallurgical supervisor in charge of the sample house at Copper Cliff.



Victorious brigade in the non-pumper class was this Coniston smelter crew of: standing, Ross Ferguson, plant chief, Bob Creswell, shift chief, Angus Strachan, Bernie Laplante, Sid Kosiw, Andy McLean, former chief; front, Gerry Turcotte, Cyril Riley, Ron Winn, Augusto Pietrandrea; not shown, Keith Rafuse.



# Goring... Goring... GONE!!!

... is this Port Colborne  
Speedboat Queen

A great summer's speedboat racing behind her, Marsha Goring, nurse on the first aid department staff at Inco's nickel refinery at Port Colborne, can hardly wait for next year.

"This is a sport that really gets you," she told the Triangle. "There just isn't anything else quite like it."

As co-driver with her brother-in-law, Ray Fernandez of Mississauga, she shared in victories during the season at Valleyfield, P.Q., where they set a new Canadian competition record, and also in major regattas at Lake Champlain, N.Y., Barrie, and St. Felsien, P.Q. They were "in the money" at various other meets.

Despite tough luck when they split a gas tank and broke a fuel line, they managed a second place in the speedboat races at the Canadian National Exhibition. They wound up the season second in their sportsboat class for all Ontario, only 125 points behind the leader.

At the big meet in Barrie 8,000 spectators lined Kempenfelt Bay to watch the Fernandez-Goring team roar through the 44 two-mile laps of the course in one hour, 39 minutes and five seconds.

Racing driver Marsha Goring fastens her crash helmet for a trial spin in the new hydroplane her brother-in-law, Ray Fernandez, built for her.



Leslie C. Cooke, Waterdown (N.Y.) Daily Times

At speeds of up to 70 mph on the straightaways they thrilled the crowd with their dash and daring in their big boat, Orange Crate, with its twin 115-hp motors.

## Her Second Season

Marsha Goring, a tall 21-year-old redhead, first tried speedboat racing only last year, more as a gag than anything else. Her brother-in-law suggested she give it a fling as his co-driver, and after one race she was convinced. Soon she became the only woman boat-racing driver registered in Canada.

"Driving a boat in a race at 60 miles an hour is like driving a car at about 125 miles an hour on the highway," she says. "You get a terrific sensation of speed."

Not even when she was flipped out of Orange Crate in the race at Valleyfield did she lose her nerve or enthusiasm. "I was pretty lucky in that one," she related. "There were 22 boats entered. We got out ahead on the first lap.

Ray just happened to glance back and saw my feet going over the edge after the boat hooked sharply in a wave. Fortunately he was able to cut around and get between me and the other boats, or I'd probably have had it."

That experience taught her the value of the high-collared life preservers that speedboat racers wear. Because of its protection she didn't even have the badly wrenched neck which would likely have been the least of her injuries.

## Has New "Hydro"

Marsha is specially looking forward to next summer because she'll be driving a hydroplane, her favorite type of racing craft, designed and built for her by Ray Fernandez. A 48-cubic inch inboard, the "hydro" hits speeds up to 50 miles an hour but gives a much smoother ride than she's been used to in Orange Crate. In line with the rather irreverent tradition often followed by speedboat racers in christening their

craft, her "hydro" has been named the Snafu.

A native of Welland, Marsha Goring took her nursing training at Greater Niagara General Hospital, and joined the Inco staff at Port Colborne following her graduation in September of last year. Her ambition is to take further studies in the field of psychiatry. She spent her vacation this year in Europe — after the boat-racing season.

## BE A HELPMATE!

"Help your wife," wrote the enthusiastic home economics editor. "When she wants to wash dishes, wash dishes with her; when she wants to mop the floor, mop the floor with her."

## Record Cantilever

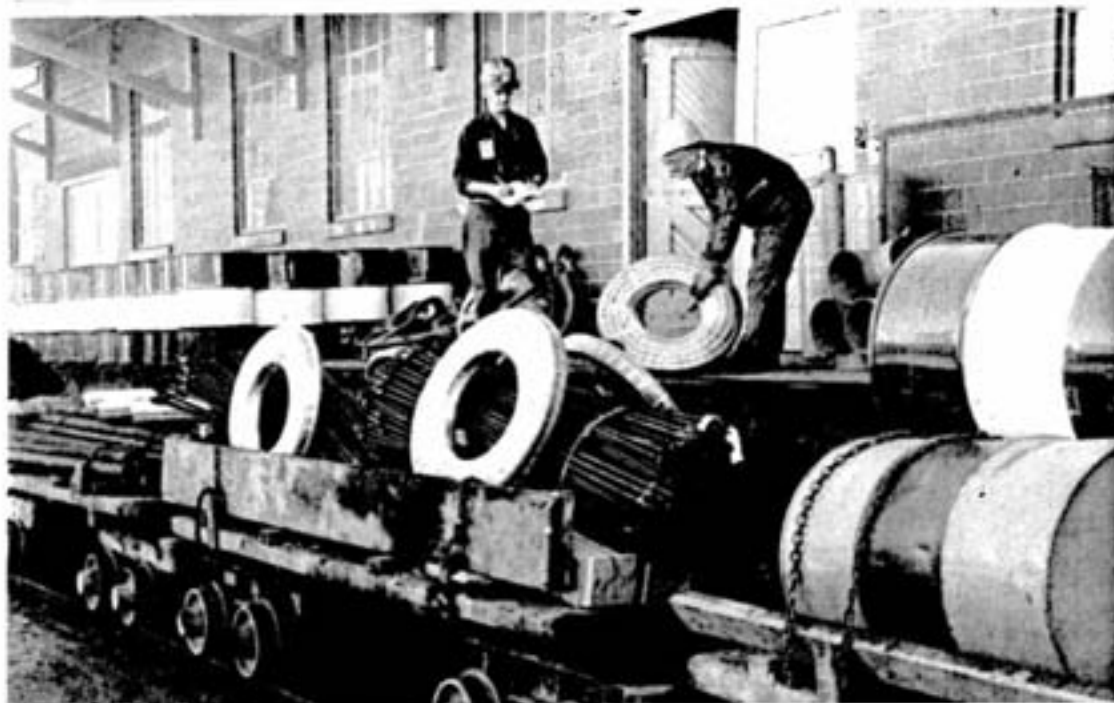
The largest cantilever span ever erected, the Quebec Bridge spanning the St. Lawrence River in Quebec, contains nearly 17,000 tons of structural nickel steel.

Sharing the cheers of the crowd with her co-driver, Ray Fernandez, and their craft Orange Crate, at Barrie after winning the Carling trophy.



On the job in the Inco first aid department at Port Colborne, nurse Goring takes a blood sample from Conrad LaFontaine. "It was a pleasure," said Conrad.





### **Loading Supplies for Underground**

Familiar sight at the Stobie mine warehouse is a train being loaded with miscellaneous supplies for the underground operations. Drill and hydraulic oil, stacks of roof bolts, air hose and airline pipe are some of the items on the trucks in the foreground. Storeman helper Jack Armstrong is seen checking out the shipment to the yard crew. Behind him is part of the warehouse's stock of drill oil, which is a big item — the mine uses over 3,300 gallons a month.

## **Stobie Warehouse Typi EVERYTH BOLTS TO**

A typically modern and well parable in size with those at Cro have mills operating in direct conn "store" at Froid-Stobie mine, car than two and a quarter million d than half a million dollars a mont

That's big business, in any man's language.

What's even more impressive is the tremendous range of parts and supplies it has to keep on hand to service its "credit card" customers.

And of over-riding importance is the necessity for the utmost efficiency in maintaining its stock, to minimize mechanical delays in the production of nickel for the hungry world market.

### **Astonishing Variety**

There are more than 8,600 items in the Stobie warehouse inventory, covering an astonishing variety running all the way from a 23-ton main frame for an underground

### **The Big and the Small**

Senior warehouse clerk Joe Bacik displays a comparison in regular warehouse supplies. The big roller bearing on the left is part of a head pulley assembly on an underground conveyor; perched on top of it is a bearing from a steel sharpener. On the right is one of the huge nuts from the main shaft of an underground jaw crusher, and sitting saucily on top of it like a flea on an elephant is a nut from an airline supporting bracket.



In the electrical line the warehouse handles everything from flashlight bulbs to \$2,500 rectifier tubes like the one that storeman helper Morris Marunchak is steadying for this picture. In batteries of two or four installed at stations underground, these glass bulb mercury arc rectifiers with their octopus-like arms convert power from ac to dc for the mine haulage system.



Fortunately the demand isn't too brisk for an warehouse always has a new one on hand wh long, 22 inches in diameter at the centre, and Pete Laberge is shown beside it.



# ical NG FROM BILLETS

11-staffed Inco warehouse, 18000 sq. ft. in Levee which also section with the mines, the Stobie has an inventory averaging more \$100,000. Its turnover runs better than 10 times a year.

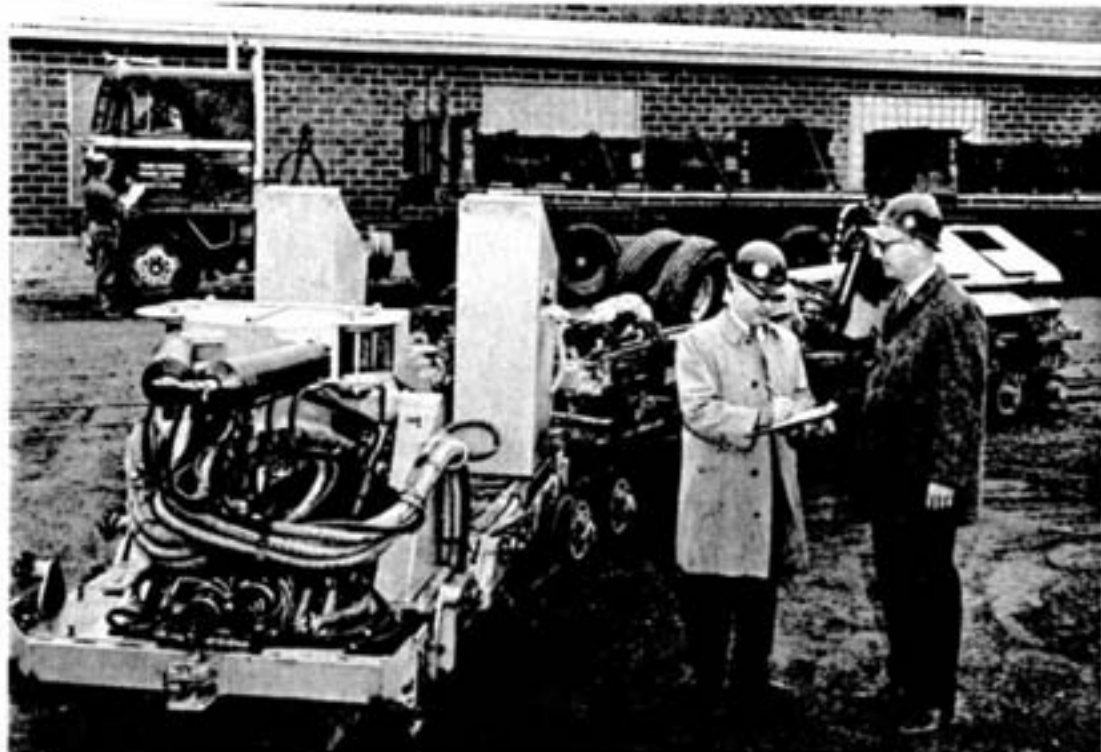
crusher down to garden rakes for leveling fines to provide smooth working areas for the new load-haul-dump machines.

Take wire rope, for instance — 60,000 feet of it a month is used at Stobie for slusher cables, slings, etc.

There are 936 different items of parts and supplies for the 700 long- and short-hole drills operating in the mine. Monthly consumption of bit and extension rods runs to 11,000 feet, along with several thousand bit couplings.

A surprising item in the inventory in these days of sophisticated machinery is a large quantity of

Continued on Page 10



## Keeping on Top of the Job

Like any modern store, Stobie warehouse has to keep abreast of the latest developments in mining methods and equipment, to back up the operators with prompt supply service. Here the mine stores foreman, Gerry Marcotte, confers with assistant mine superintendent

Milt Jowsey on parts requirements for servicing Stobie's steadily growing fleet of load-haul-dump machines. On the trucks beside them, dismantled to go underground, is a new twin-boom long-hole drill, a trackless mining machine, and on the trailer in the background is a shipment of 8-inch steel billets, weighing over 3,000 pounds apiece, largest in use at Inco for lining crusher chutes.



...m like this Pitman eccentric crusher shaft, but the emergency arises. The steel shaft is 14 feet long and weighs 14,200 pounds. Veteran warehouse clerk

Of the 8,600 items in the Stobie mine inventory, about 6,000 are stocked inside the warehouse, mostly in neatly kept bins. Here storeman John Leroux is filling an order for a "customer".



## Bolts to Billets

Continued from Page 9

mining equipment is plain, ordinary potato bags. They're just the thing for placing Amex, the fertilizer-fuel oil blasting agent, in hung-up boxholes for secondary blasting, and about 25,000 of them are used for this purpose every month.

And that brings blasting wire to mind. Stobie warehouse handles 6,000 pounds a month, at 150 feet to the pound.

### Spare Hoisting Ropes

Hefty items on hand include seven of the big hoisting ropes on which the cages and skips travel up and down in the mine's two shafts. These spare wire ropes range from 3,250 to 3,850 feet in length and from 1 1/4 to 2 1/16 inches in diameter, and weigh from 5 to 7 pounds per foot.

In the neatly kept warehouse bins are 270 different sizes and parts of bearings. There are over 400 sizes of bolts, washers and wood screws.

Almost 2,000 different electrical items are carried in stock, ranging from tiny switches to trolley and battery locomotive parts.

The addition of the new Frood-Stobie mill to the Stobie warehouse's area of responsibility will probably add another 1,500 items to its inventory within the next year, bringing it well over the 10,000 mark.

### 15,000 Feet of Conveyors

Included in this "new business" for storekeeping Gerry Marcotte and his staff are over 30 belt conveyors, varying from 30 to 54 inches in width, and from 25 to 7,650 feet in length. Along with the conveyors underground and in the mine rockhouse, this gives them a total of 15,000 feet of belt to supply as required. A safe margin of stock in all sizes is kept on hand. The 42-inch underground conveyor bringing ore from the new Little Stobie mine will add another 10,000 feet to this total

## 163 Pounds Per Link!

One of the interesting king-sized items stored on the half mile of wooden platforms in the warehouse yard is this heap of steel feeder chain, used to control the flow of ore dumped by the rotary tippie into the

huge crusher at the underground crushing stations. Warehouse clerk Leo Martin sits in to illustrate the size of the chain. Each link is 20 inches long and weighs 163 pounds. The complete curtain of chain in the feeder weighs over 11,000 pounds.



when it goes into service about a year from now.

A branch warehouse will be opened soon in the Frood-Stobie mill, with a stock of the most frequently requisitioned items.

### Computer a Big Help

In the highly important work of maintaining all items of their stock at safe levels to cover emergencies and minimize mechanical delays in the mine's production program, the warehouse staff gets invaluable assistance from the data processing department at Copper Cliff. As it does for all warehouses, the IBM computer system carries Stobie's stock inventory records on magnetic tape.

Every time an item of stock is issued by the warehouse, or new stock is added, a copy of the transaction goes to the computer so that the "on hand" position of that particular item can be brought up to date on the magnetic tape. Every two weeks the computer prints out the complete inventory of the warehouse.

Re-order points have been established for each item, and when a

Continued on Page 14



### Safety Equipment for the New Miner

Having obtained safety glasses and belt from the first aid department, new employees come to the warehouse for their boots and liners, safety hat and gloves. Here new Stobie miner Harry O'Keefe gets his supplies from storeman Gerald Sturgeon.



### Accurate Records Essential to the Operation

About 8,600 requisition cards, which at the rate of about 900 a month travel back and forth to the purchasing department at Copper Cliff for re-orders of warehouse stock, are filed in the

cabinets which are clerk Jim Elliott's special trust. He holds a fan of cards, part of the usual daily turnover, and stacked beside him is the warehouse inventory, updated and printed out twice a month by the computer at Copper Cliff.

# Retired on Inco Pension

## HERB ROBERTS

Versatile Herb Roberts was born in Welland, Ontario, in 1908. His family moved to Wales when he was an infant, later returning to Welland where he served his machinist apprenticeship. He worked for several industrial firms



Mr. and Mrs. Roberts

before taking employment at the nickel refinery in Port Colborne as a machinist in 1942. He has now retired on a disability pension.

His marriage to Lillian Griffiths took place in Dain City in 1934. They have a daughter, Beverly Ann (Mrs. Peter Bruin) of Buffalo, N.Y., and a grandson.

Herb has many interests. He competed in the Canadian National Exhibition marathon swims in 1931-32-33. He enjoys woodworking, home movies and art work with pastels. He is a member of the Humberstone Township School Board, and is a lay minister at the Dain City United Church.

## EMMETT MOUSSEAU

Emmett Mousseau's long service record of 42 years with the Company would have been six years longer if he hadn't broken his service twice before finally set-



Mr. and Mrs. Mousseau

ting down at Frood mine in 1926. He has been a motorman for the last 10 years.

Emmett has retired on special early service pension. A native of Quebec, he married Irene Belanger in Sudbury in 1927. He hasn't severed his connections with Inco by any means, since son Art is a Frood welder, daughter Evelyn is the wife of Creighton diesel loaderman Cleo Gosselin, and one of his four grandchildren, Armand Gosselin, is a driller at Creighton.

## ANDY RANICH

The old Orford process and skimmer Andy Ranich came up to Copper Cliff smelter from Port Colborne together in 1931. The Orford process was phased out in 1948, but Andy kept right on going. Starting with Inco at the Port in 1928, this service pensioner is very proud of his grand total of 40 years with the Company. Andy

came to Canada from Czechoslovakia in 1927, two years after his



Mr. and Mrs. Ranich

marriage to Julia Perik. His family of three still represent him at Inco; Steve is a maintenance electrician at the iron ore plant, Anna is the wife of John Miatello of the Copper Cliff transportation department, and Emily is married to iron ore plant sampler Ed Lukie. Eleven grandchildren complete the family.

## AL ST. JULES

Al St. Jules was born in Hull, Quebec, grew up in Blind River, and came to Inco in the Orford building at Copper Cliff in 1936.



Mr. and Mrs. St. Jules

Now on special early service pension after 32 years with the Company, Al was a converter building skimmer for many years, and has worked as dryman at the Copper Cliff No. 2 changehouse since 1955. Lucy McFarling of Nesterville became his bride in 1939, and they have a family of three with 14 grandchildren.

## HERMAN PUNKARI

Herman Punkari knows Creighton 7 shaft very well, he was in on the sinking in 1948 and has worked in the shaft as an inspector since it was completed. His



Mr. and Mrs. Punkari

special early service pension came after 35 years with Inco.

Herman left Finland for Frood mine in 1928, broke his service, but returned to the Company shortly after his 1933 marriage to Veino Punkari. Of their family of four, Vilma is the wife of Clarabelle haulage truck driver Bob Watt, and Greta (Mrs. Eric

Punkari) works with the purchasing department at Copper Cliff. Three grandchildren complete the family.

## TONY DZIURBIN

Tony Dziurbin has been busily preparing for retirement for the past four years, and during that time has built himself a smart new home on the Penage Road. Now on special early service pension, he has been with the Company for 36 years, all of which



Mr. and Mrs. Dziurbin

were spent at Creighton where he was a shaft inspector.

Born in Poland, Tony came to Canada in 1928, together with his bride of 1924, Katherine Maydansuk. The couple have a family of three and three grandchildren.

## CULLEY HALONEN

A long-time resident of Copper Cliff, Culley Halonen has retired on disability pension and moved to the peaceful shores of Black Lake.

Culley was four when his family sailed from Finland to Canada, and he joined the Company for



Mr. and Mrs. Halonen

the first time at the Copper Cliff smelter in 1925. He returned to the smelter and the coal plant in 1933 and worked there as an operator until his retirement after 35 years with Inco. Culley remained a bachelor until he married Mrs. Tillie Wuorinen in Toronto in 1953, and acquired a ready-made family of two. Son Ernie is a Creighton car loader. There are seven grandchildren.

## STEVE MROCHEK

A topman at Garson, where he spent 19 of his 35 Inco years, Steve Mrochek has retired on special early service pension. Born in Blezard Valley, Steve joined the Company originally at Frood in 1927, broke his service, and started back there in 1933. Three years later he married Adrienne Bonin of Blezard Valley and the couple have raised a king-size family of 10 who have already presented them with four grandchildren. Daughter Martha is the wife of



Mr. and Mrs. Mrochek

Copper Cliff general engineering department rodman Pierre MacDonald.

## DENIS SULLIVAN

Service pension for Frood security guard Denis Sullivan will enable him to make a long overdue trip to County Cork in Ireland, where he will visit his sister who still lives on the old homestead he left when he came to Canada in 1928. Denis has been with Inco for 27 years. A bachelor, his alibi is,

"The ones that I wanted I couldn't get, and the ones that I could get I didn't want." After his trip he plans to settle in the U.S.A.

## PAT LEDUC

Pat Leduc has changed his occupation from Copper Cliff mill maintenance mechanic to basement boat builder. A service pen-



Mr. and Mrs. Leduc

sion after 24 years with Inco is the reason for the shift. A native of Blezard Valley, Pat joined the Company in 1944. A Hammer girl, Emilina Lariviere, became his bride in 1941, and they have a family of two with one grandchild. The Leducs will continue to reside in Sudbury.

## BERT ROBERTSON

"It's quite a change," said Stobie service pensioner Bert Robertson. "One day a powderman — and the next chief cook and bottle washer." The new job is a temporary one, though good only until his wife



Mr. and Mrs. Robertson

recovers from a broken hip. A native of Quebec, Bert has worked 37 years at Inco. He and his wife, Lucien Cyr when they were married in 1941, have a family of four, plus two grandchildren. Son Don is a maintenance mechanic at Stobie.



## Retired on Inco Pension

### GEORGE MCLEOD

From track boss to full-time taxidermist is the story of Frood early service pensioner George McLeod, who has retired after 28 years with Inco. "I tackle anything from moose heads to budgies," said George. A native



Mr. and Mrs. McLeod

of Sturgeon Falls, George was married there in 1934 to Thelma Clark, and joined the Company at Frood in 1940. The couple, who have a family of two with two grandchildren, will continue to live in Sudbury and spend weekends at their Lake Nipissing cottage.

### ALLAN MILLAR

Allan Millar's association with the Company's reverberatory department at Copper Cliff started in 1937, and his 31 years with Inco were spent tending the giant



Mr. and Mrs. Millar

roasters until his retirement on special early service pension. Born in Warton, on Ontario's Bruce Peninsula, Allan married Eva Legrow, a native of St. John's, Newfoundland. The wedding took place in North Bay. The couple, who have a family of two, are considering a move to the Maritimes.

### PAT VILLENEUVE

Pat Villeneuve has lost track of the amount of explosives he has sent underground during the 20 years he has been surface powderman at Frood. "It would all add



Mr. and Mrs. Villeneuve

up to a pretty big bang though," he said with a grin. Now on special early service pension, Pat has worked for Inco for 39 years. A native of Quebec, he married Alida Dion of Hanmer in 1929, and the couple have one son and two grandchildren. Pat plans to spend

his retirement helping his wife with the chores and relaxing at their summer home on Bass Lake near Hanmer.

### DAN DREGER

A pit miner at Clarabelle, Dan Dreger has retired on disability pension after 32 years with Inco. A native of Winnipeg, Dan married Gail Nault in Sudbury in 1938, and they have a family of six with seven grandchildren. As long as weather permits, Dan will



Mr. and Mrs. Dreger

be spending his leisure hours fishing, then he plans to turn his hand to helping his wife behind the counter of her variety store on Durham Street in Sudbury.

### JEAN MARION

Retirement on special early service pension for copper refinery stationary engineer Jean Marion means that he can now spend his full time pursuing his life-long hobby of photography. He has worked for the Company for 37 years. Born in Paris, Jean made



Mr. and Mrs. Marion

his move to Canada in 1920, and was married to Elizabeth Lavoie in Sudbury in 1935. They have a family of three, with three grandchildren. They plan to reside in Sudbury.

### JOHNNY LEBORGNE

Johnny Leborgne, who is justifiably proud that he has worked for Inco for no less than 42 years, has retired on special early service pension from his job as crane operator at the Copper Cliff smelter. Born in France, he came to Canada in



Mr. and Mrs. Leborgne

1920, and was married to Louise Legars in Port Colborne in 1923. They have a family of five plus a grand total of 18 grandchildren. Son Yves works at the smelter sub-station. Johnny and his wife

## Bill McKee and Harold Campbell Honored



Both service pensioners from the Creighton maintenance department, foremen Bill McKee with 38 Inco years behind him and Harold Campbell with 28, were honored by 100 associates and friends at a stag party held at the Lively Canadian Legion hall.

Seated left in the picture, Bill was presented with a golf cart and clubs, and Harold received luggage. Standing are maintenance foreman George McAllister, who was emcee for the evening of fellowship, Creighton mine superintendent Earl Mumford, mine maintenance superintendent Bert McAllister, assistant vice-president and Ontario division general manager J. A. Pigott, and electrical superintendent Art Prince.

A native of Glasgow, Scotland, Bill McKee came to Canada in

1926, one year after his marriage to Elizabeth McCordie. Starting with the Company at the Coniston smelter, he transferred to Creighton in 1945 and worked there until retirement. Bill and his wife have one son and one grandson.

Kenora, Ontario, was Harold Campbell's home town, and he joined Inco at the Frood open pit after completing an electrical apprenticeship with the CPR. He was married to Tena Cameron of Whitefish Falls in 1930, and they brought up a family of three. His wife died in 1964. Bill re-married in 1966 when he took Mrs. Marie Dumas as his bride, also adding another daughter to his family. The couple will be moving from Lively to Espanola as soon as Bill completes the house that he started to build there last summer.

### JOHN ZICKAR

After 33 years with Inco, John Zickar has retired from the stopes



Mr. and Mrs. Zickar

at Garson mine on special early service pension. He came to Canada from Austria in 1928, and was married in Creighton to Louise Debelak in 1940. Their family of three includes Ed, with the metallurgical department at Copper Cliff, and Elaine, the wife of Ron Bertrand who works in the smelter time office. Four grandchildren round out the family.

### GEORGE FEDORONKO

Odd jobs around his house, the things that he's been going to do for the past several years, are keeping George Fedoronko busy

are now happily installed in the new house they built on Pinland Street in Copper Cliff.

### PETE YEWczyn

Pete Yewczyn is enjoying the relaxation of a service pension after 36 years with the Company



Mr. and Mrs. Yewczyn

at the Coniston smelter. He was a clayman at the time of his retirement. Pete left his native Austria for Canada in 1927, and was married in Coniston to Anna Wasylenki in 1933. They have a grown-up family of three, and five grandchildren. A good cook, Pete will divide his time between manipulating the skillet and visiting with his fellow pensioners in Coniston.

full time now that he's retired on early service pension from his job as bench blaster at the Clarabelle



Mr. and Mrs. Federenko

open pit. He has worked for the Company for 39 years. Born in Czechoslovakia, George was married there in 1926 to Mary Surdenik, and the couple came to Canada in 1928. Their daughter and one grandchild live in Toronto.

#### ARMAND CARREY

Violinist in the popular musical trio known as the Concentrator Ramblers, Armand Carrey has retired from his job as flotation operator at the Copper Cliff mill



Mr. and Mrs. Carrey

after 38 years with the Company. The special early service pensioner was born in Massey, and married Bertha Lamothe in 1927. Armand and his wife plan to spend more time now visiting their family of two and their five grandchildren.

#### JOE HOULE

A locomotive fitter for the last five of his 35 years with Inco, Joe Houle has retired from the Coniston smelter on special early service pension. Born in Penetanguishene, Joe married Laura Larocque in Coniston in 1927, and the couple have brought up a family of six, all of whom, along with their 16 grandchildren, live in the Sudbury area. Daughter Lorette is the wife of Ron Levert of the Copper Cliff transportation department.



Mr. and Mrs. Houle

shene, Joe married Laura Larocque in Coniston in 1927, and the couple have brought up a family of six, all of whom, along with their 16 grandchildren, live in the Sudbury area. Daughter Lorette is the wife of Ron Levert of the Copper Cliff transportation department.

#### JOHN LEKUN

Born and raised in Yorkton, Saskatchewan, John Lekun left



Mr. and Mrs. Lekun

## New Mayor of the City, Nis Nissen Honored at Port Colborne



A handsome portrait of himself, wearing his chain of office as mayor of Port Colborne, was presented to Nis Nissen as a retirement gift from his friends and associates at the Port Colborne refinery.

Coming to Canada from Denmark in 1926, he joined International Nickel four years later. After broad experience in the refinery he was appointed a personnel officer in 1947, the position

he held at service retirement. He was married at Port Colborne in 1933 to Thelma Lang; their daughter Elizabeth Anne is the wife of Dale Robinson of the Inco research stations staff.

Besides boating and home movies as hobbies, Nis has served faithfully in municipal politics for 20 years. He was a member of the old Humberstone Village council, was reeve of Port Colborne for 12 years, and warden of Welland

County in 1962. He was elected mayor of his city last December.

Shown with Mr. and Mrs. Nissen in the picture taken at his retirement party at the Rathfon Inn are G. O. Machum (left), Ontario division assistant general manager (processing), W. R. Koth (centre), manager of the Port Colborne refinery, and C. H. Ott, assistant to the manager (personnel), Port Colborne.



Mr. and Mrs. Cimmerman

slovakia for Canada in 1929, and joined the Company at Creighton in 1933. The following year he was married in Sudbury to Mary Zoldak and they have a family of two with one grandson. Their daughter Lidia is the wife of Stobie fitter Jim Pischlar.

#### EARL BEILHARTZ

Frood mine was the place where Earl Beilhartz first joined Inco in 1939, and Creighton the mine he



E. Beilhartz

returned to in 1947 after breaking his service. All of his 21 years with the Company were spent there, and he was a timberman prior to his recent retirement on disability pension. A native of Quebec, Earl was married in 1931 to Clara Jacobs of Peace River, Alberta. Of their family of five, son Ervina is a switchman at Crean Hill, June is the wife of Stobie switchman Henry Schroeder, and Patricia is married to Creighton shift boss Gordon Price.

#### JIMMY DEGAN

It was a case of tired legs that prompted labor boss Jimmy Degán to take a special early service pension after 37 years with Inco in

the transportation department at Copper Cliff. It was in 1927 that he left Italy for Canada where he



Mr. and Mrs. Degán

first worked for the Company at Creighton mine. He started again at Copper Cliff smelter in 1931 after breaking his service. Sudbury was the scene of his marriage in 1936 to Mary Latorre, and they have a family of three, with six grandchildren.

#### JOHN NORTON

John Norton, 46-year Inco veteran and popular electrician boss at the nickel refinery in Port Colborne since 1964, elected special early service retirement.

He was born in Meaford, Ontario, in 1907 and moved to Port Colborne with his parents when he was nine. He was hired as an electrician apprentice at the nickel refinery in 1922. He recalls that a horse-drawn dump cart was used to transport equipment when he first started to work.

A bachelor, John has been devoting a lot of time to vegetable and flower gardening on his six acres of land on the shores of Lake Erie at Lorraine. He is looking forward to trips to Florida and Ireland.



John Norton



Mr. and Mrs. Muzzin

married to Emma Longarini in Sudbury in 1932. One of their family of two, daughter Diane, is the wife of copper refinery crane follower Alec Zandre. Two grandchildren complete the family. Tony and his wife are planning a trip to the old country.

#### JOE CIMMERMAN

The Sudbury library is at the top of Joe Cimmerman's list of favorite places to be, now that he's on disability pension after 35 years with Inco. An avid reader, Joe enjoys armchair travel. A divisional foreman at Creighton for the past 18 years, he left Crecho-



Twelve feet longer and with almost four times the capacity of the old models in use since 1936, two new hot metal cars like the one above are now in service transferring molten copper from the Copper Cliff smelter to the copper refinery.

## New Hot Metal Cars Carry 150 Tons of Molten Copper

What is it that weighs 350 tons, has 24 wheels, is 62 feet long, runs on railroad tracks, and has a heart of molten copper 2,100°F. hot? Why, it's the latest piece of rolling stock that is the pride and joy of both the Copper Cliff smelter converter and transportation departments.

Known officially as 150-ton molten copper torpedo cars, the two new additions can be seen making several trips a day between the smelter and the copper refinery with their loads of red-hot blister copper.

Hot metal transfer cars are nothing new to the Copper Cliff operation — they've been running back and forth to the refinery since 1936.

Before the recent advent of the 150-ton cars the transfer was made by four 40-ton cars, two of which will now be retired from service.

The larger car was necessitated by steadily increasing blister copper production, which has recently been as high as 13,000 tons per month, and by the need for increased holding capacity for the molten metal. The new car can hold the complete contents of a converter, thereby immediately releasing the converter for a fresh charge. Hitherto the converters have also had to serve as holding furnaces, discharging their blister copper in several pours into the 40-ton cars.

There is no less than 88 tons of refractory brick lining the 14-

inch steel body plates of the ladle of the new cars, and it averages a thickness of 19 inches. The body plates are initially lined with 1 inch of asbestos insulation which is followed with 4½ inches of fire brick and then 13½ inches of chrome-magnesite brick. The ends of the body receive 8 inches of insulation and 18 inches of chrome-magnesite brick.

Delivered unlined, the body was bricked under the supervision of the Copper Cliff masons in five days.

The body of the car rotates on trunnions to discharge its molten cargo and is powered by a 25-hp 720-rpm motor through two reduction units that give a final rotational speed of 0.4 rpm.

A rose should be tossed to the Copper Cliff engineering department which, back in 1938, designed the Highway 17 overpass en route to the refinery with enough vision and foresight that it is amply capable of carrying the increased wheel loads, which are now in the region of 14 tons per wheel.

New track has been laid between the smelter and the refinery with 100-pound rail replacing the existing 85-pound rail.

## Bolts to Billets

Continued from Page 10

stock reaches this point the computer prints out a warning. Eventually, as application of the computer to the stores system continues, it will automatically print a requisition when a re-order point is reached, specifying the name of the firm and the quantity desired.

### Lots of Experience

Inco's purchasing and stores department has a wealth of knowledge and experience in the many long-service employees in its ranks, and the Stobie warehouse is certainly no exception in this respect. Four members of its nine-man staff are in the "veteran" class: Gerry Marcotte has been with the department for 26 of his 28 Inco years; Pete Laberge started at Levack mine in 1936 as a fitter, transferred to purchasing and stores in 1944; Leo Martin first worked at Garson mine in 1936, moved over to warehousing in 1956; Joe Bacik was in the warehouse at Creighton for 16 years before transferring to Stobie two years ago.

### NO SUBSTITUTE

Radio and television will never take the place of newspapers. How could you housebreak a pup by spreading wave lengths on the kitchen floor.

### Salmon Tags

Tiny nickel stainless steel rods, inserted into the muscle tissue on the backs of salmon fingerlings, are used for migration studies. Less than one twenty-fifth of an inch long, the rods are injected with a hypodermic needle and cause no discomfort to the salmon.

Copper Cliff mason foreman Val Bellini poses inside one of the new 150-ton travelling furnaces to indicate its size. It is almost 7 feet in diameter at the centre. Installing the brick lining is an intricate job on account of the torpedo shape of the car. On completion of the refractory lining the interior is sealed with a special grouting cement.



## First Suggestion Plan Awards at Thompson

First awards paid under the employees Suggestion Plan at Thompson were presented in October by Manitoba division general manager John McCreedy, shown on the left in the accompanying picture. Two contractor employees were the recipients.

Gerry Kingdom (centre), a seven-year man with Inco at Thompson, employed as a mill operator, picked off an award of \$115 for his idea for redirecting line spills.

Blair Arsenault (right), a crusher operator, cashed in to the tune of \$260 on two suggestions, one for repositioning reagent distributors and the other for installing an eyewash on the reagent floor. Blair starts his sixth year with Inco at Thompson in December.

Hourly-rated employees in the Manitoba division became eligible to participate in the Suggestion Plan when it was revamped in June. Keen interest has been shown since the start, and many ideas submitted to the awards committee.



John Lewis



## James Parlee

(Continued from Page 2)

and to prevent penetration of our hard-won markets by other materials. If we fail to satisfy these markets today, they will not wait until our expansion programs are completed several years from now.

### Needs Intensified Effort

"I cannot emphasize enough the importance of our day-to-day production. The ore is coming out of our mines in unprecedented volume. We must make an intensified effort all along the line to see that this ore is quickly and efficiently transformed into nickel for our hungry markets.

"I know we can count on you veteran members of the Inco family to achieve our immediate goal of closing the gap between supply and demand as quickly as possible. Working together, we can do it."

Mr. Parlee reviewed the Company's expansion programs throughout the world. In Canada, he said, Inco is now in the midst of the most ambitious program in its history, involving \$500,000,000 in capital expenditures through 1970. By the latter part of 1971 its Canadian annual nickel-producing capability will be in excess of 600,000,000 pounds — more than 30% above its present capacity.

Construction is soon to commence of the new Inco pressure carbonyl refinery — the IPC plant — near Sudbury. Rather than limiting or curtailing present nickel refining operations it would actually mean an increase of several million dollars expenditures on the Port Colborne plant during the next couple of years.

### World Ore Research

Inco's research stations at Port Colborne are handling not only products from its sulphide ores, but also lateritic ore brought in from eight different parts of the world, Mr. Parlee said. The No. 3 station was opened this year at a cost of some \$3,500,000.

Excellent stage entertainment, featuring the lovely Maritime singing star, Catherine McKinnon, was greatly enjoyed and warmly applauded by the audience. The Bell Ringers, torch dancer Lorraine Greene, and comedy cartoonist Les Barker, backed up by the Paul Simmons quartet, put on a fine show.

A moment of remembrance, in dimmed lights, was observed for Quarter Century Club members who have died.

## Appointment

The appointment of Don H. Hoskins as supervisor of public affairs, Manitoba division, The International Nickel Company of Canada, Limited, was announced today by John McCreedy, division general manager. He will be located at Thompson.

Prior to joining International Nickel, Mr. Hoskins was with the provincial department of tourism and recreation in Winnipeg, where he was supervisor of

tourist promotion. He also served as public relations officer with TransAir. Prior to this he was a news reporter with radio and television stations in Winnipeg, Swift Current, Brandon and Flin Flon.

A native of Regina, Mr. Hoskins is married to the former Diane Simpson of Flin Flon and has three children.

## New Inco Director

George T. Richardson of Winnipeg has been elected a director of The International Nickel Company of Canada, Limited, it was announced November 4 by Henry S. Wingate, chairman.

Mr. Richardson is president and a director of James Richardson & Sons, Limited, Winnipeg. He holds directorships in a number of other firms, including the Great-West Life Assurance Company, the Canadian Imperial Bank of Commerce, and Hudson's Bay Company.

Within the James Richardson & Sons organization, he is also a senior partner of Richardson Securities of Canada, president of Pioneer Grain Company Limited, and president of Armstrong & Taylor Limited.

Born in Winnipeg in 1924, Mr. Richardson holds a bachelor of commerce degree from the University of Manitoba. He and his wife, the former Tannis Thorlakson, reside in St. Germain, Manitoba. They have four children.

## Laurentian Confers Honorary Doctorate

(Continued from Page 2)

uncontrolled source of ideas and initiative," Mr. Wingate declared. "A university is richer, more flexible, and apt to be more innovative if its support comes from more than one source." Hopefully the university will bridge the communication and understanding gaps between the business sector and the academic world, developing a "partnership in progress."

### A Practical Viewpoint

"With the daily advances of technology and the multiplying of social problems, no segment of society more than private business stands to profit from a strong, independent university system and a well-educated community," Inco's chairman said. This was the philosophy behind the Company's broad long-standing program of aid to education through scholarships, fellowships, teacher-training projects and direct unrestricted university grants.

"I thank you and your board of governors deeply for the honor you have given me today and accept it with gratitude," Mr. Wingate said in conclusion. "On behalf of International Nickel I wish to express appreciation for the enrichment that Laurentian — Laurientienne — has already brought to Sudbury and for the promising future it offers the community."

## Palumbos and Piccolos in Finals



Tempting fate, the members of the Levack mine shift softball league put up a home-run fence around the Inco employees club diamond — and then proceeded to record an all-time season low for home runs. League champs and winners of the O'Keefe trophy were the Palumbo team, who downed Piccolos in the best-of-seven finals by four games to two with one game tied. Dowling Hotel

and the Nickel Belt Rebels completed the enthusiastic four-team league. Shown with the trophy, the victorious Palumbos are: front row, Doug Parenteau, Jim Lawrence (captain), Jim Spicer, Claude MacDonald; back row, Gary Atkinson, Larry McLaughlin, Bo Thompson and Herb Johnson; missing from the picture: Mike Brown, Bob Kemp and Stan Wostluk.



Individual trophies for the series went to Piccolos' Moe Enright who hit five home runs, Dowling Hotel's Dale Walbrook, who had a batting average of .432, and Piccolos' Tom Smith, who wound up the season with a proud record of 16 wins and two losses. Piccolos' Ron Poirier pitched the lone no-hitter of the series. The 60-man league was

convened by capable Ted Atkinson. The second place Piccolos, shown above, are: front row, Bill Brown, Mike Naden, Bob Parker, Dick McDonald (captain); back row: Ron Poirier, Guy Quessnel, Ted Atkinson, Winston Campbell, Rodney Forth; not shown, Don Ryter, Glider Malleau, Cliff Winn, Moe Enright and Tom Smith.

## Modern Metals Research Helps Tomorrow Happen

It is said that metals are helping to make tomorrow happen. By 1985, for example, the telephone as we know it today may be considered primitive. Everyone may have a personal transceiver, and be able to speak to a person anywhere on earth merely by dialing his number. Satellites, made possible and more efficient through the utilization of metals, such as nickel and nickel alloys, will beam the signal toward the desired receiver wherever it is.

One-day mail service to any place in the world could well become commonplace and inexpensive. Messages could be relayed from the local post offices to the nearest satellite, which would re-

direct them to earth along the fastest route. Transmission would take a fraction of a second. And electronic facsimile machines could reproduce not only your mail, but newspapers, books and any form of printed matter right in your home.

Today, more than ever before, technological progress depends upon metals. As a major contributor to research in metals, International Nickel is helping to make tomorrow happen.

### Flashy Togs

Electronically illuminated dresses, coats, and slacks which glow in the dark and flash on and off at variable speeds are being marketed in New York. The lights are powered by tiny rechargeable nickel-cadmium batteries carried in a belt.

Gordon Cryderman and Inco general manager J. A. Pigott shake hands on the rechristening of the Falconbridge East mine to salute the Cryderman name in Sudbury district mining lore.



## Inco Mine Renamed to Honor Old-Time Sudbury Prospector

To eliminate confusion in references to its Falconbridge East mine property, International Nickel has given it a new name honoring one of the old-time prospectors of the Sudbury district, John T. Cryderman.

General manager J. A. Pigott recently paid a visit to Gordon Cryderman at his home at Bowlands Bay to advise him of the Company's wish to pay tribute to a famous name in the lore of the Nickel Belt, a suggestion to which Mr. Cryderman gave his hearty approval. A grandson of John T. he is employed in the mechanical department at Falconbridge Nickel Mines Limited.

The newly christened Cryderman mine is located in the southeast corner of Falconbridge township, adjoining a Falconbridge Nickel Mines property, the East mine.

### Grant Issued in 1898

A grant for the Inco property was originally issued in 1898 on the strength of discoveries made in the area by John T. Cryderman. It was later acquired by the ill-fated British America Nickel Corporation, and after that enterprise failed it was eventually purchased in 1926 by International Nickel.

Except for the original trenching to expose ore, it remained unexplored until Inco undertook a dip needle survey in 1938, follow-

ing this up four years later with 30,000 feet of diamond drilling. Further exploration work is being carried on at the present time.

Too little is remembered, in these days of highly sophisticated geophysical exploration equipment, of the fine, rugged, pioneer figure of the prospector, wandering through the unknown wilds of Ontario's northland with his pick on his shoulder and faith and hope and courage written on his face.

Prospecting in the early stages of the Sudbury field was entirely a matter of searching for outcrops of ore, and the prospectors, many of whom had little or no previous experience in the work, soon mastered such rudiments of geology as they found essential.

### Gossan Was the Guide

Their favorite rock was "diortite" — later established in the Sudbury parlance as "norite" — and the unfailing surface indication was a "burn", or gossan, the rusty-looking rock produced by weathering of an ore outcrop.

Although they could travel by canoe in almost any direction on the many waterways of the area, the early prospectors faced the disadvantage that the country was heavily timbered and often covered by a deep and deceptive mantle of moss. Thus it was immensely to their credit that in the first few

years they located most of the important deposits yet found.

Along with Thomas Frood, James Stobie, Charles Crean and others of the hardy band who were lured by the scent of ore in the new discovery area came John T. Cryderman, who moved his family up from Huntville to Wauapitae Village and with his two sons Russell and Newton was soon roaming the rocky ranges in search of a strike.

### Discovered Garson Mine

He made his greatest find in the spring of 1891. While prospecting in the midst of a tract of standing pine he found a large showing of gossan in Garson township. The mine, which was first known as the Cryderman but afterwards as the Garson, passed into the possession of the Mond Nickel Company and then by merger to International Nickel, and of course is still a thriving operation.

Russell and Newton Cryderman carried on in the family prospecting tradition, and were involved in many discoveries both in the Sudbury district and elsewhere.

A third generation made mining news in 1949 when Warner and Gordon Cryderman invented the Cryderman mucking machine, which has been used extensively by Inco in shaft sinking in the Sudbury and Thompson districts. The first machine was built in Tom Bird's machine shop at Wauapitae Village in 1950-51, after which manufacture was undertaken by the firm of Shaft Machines Limited, in which the Crydermans retain interests, and which has successfully marketed the product in many countries of the world.

### "Submarine Civilization" No Mere Flight of Fancy

Like space, the waters of the world are a new frontier waiting to be conquered by man.

The day may not be very far off when people will live and work in large air-tight compartments on the ocean's floor. Entire cities with apartment buildings, hotels, offices, plants and warehouses are seriously being considered and may one day be commonplace. Transportation may take the form of flying submarines, zooming to land ports around the world, then returning to depths of beyond a mile to unload passengers and cargo. Undersea dwellers may well get around in individual submarines.

And farmers of tomorrow may use similar vehicles to cultivate undersea crops or to herd fish, for the seven seas represent a tremendous source of nourishing food for the world's rapidly increasing population.

The development, by people like Inco's research experts, of metals and alloys that are able to withstand the special environments found in the briny depths are bringing this sort of submarine civilization closer every day.

### Safety in Stainless

Because of nickel stainless steel's toughness, as well as its gleaming appearance, the material is used for doors on modern bank vaults and to make safe deposit boxes.

## Appointments

The appointments have been announced by J. A. Pigott, general manager of the Ontario division, of C. F. Foster and H. S. Judges as assistant managers, industrial relations.

Born in Arnprior, Ontario, C. F. "Ted" Foster attended Haileybury School of Mines before joining



C. F. Foster

International Nickel in 1938 at the Copper Cliff plant. Following war service in the Royal Canadian Artillery he enrolled at Queen's University in 1945, graduating in 1948 with the degree of bachelor of science in mining, and returned to Inco.

He was employed at Levack, Stobie and Frood mines before transferring in 1948 to the industrial relations department at Copper Cliff as an industrial engineer.

His marriage to Dorothy King of the Copper Cliff Hospital nursing staff took place in 1948. He has one daughter.

Born in Toronto, Hugh Judges received his degree in mining engineering from the University of Toronto in 1959 and then joined International Nickel in the efficiency department at Frood.



H. S. Judges

He went to Levack as ventilation engineer, and then in 1961 was transferred to the industrial relations department at Copper Cliff as an industrial engineer.

He was married at Toronto in 1957 to Marilyn Sargent, and has one son and one daughter.

### Nickel Was Answer to Terrific Jet Engine Heat

If your car's exhaust were as hot as a jet engine's, the tail pipe and muffler would burn away in no time. Yet, there are metals that remain remarkably strong and free of corrosion even after many hours at jet engine temperatures, which go higher than 1,800 degrees Fahrenheit.

Many are nickel-containing alloys developed through the high temperature research of Inco.

These and other alloys containing nickel are now being used successfully in high temperature applications where other metals are just not good enough. And Inco's continuing research program will keep abreast of industry's demands for new alloys as operating temperatures go higher and higher.

### Hygienic Meats

Shelf life of meats (now about two days) in modern supermarkets is expected to double with the introduction of new antibacterial cleaning techniques in meat-cutting rooms and the use of nickel stainless steel meat-handling equipment.

## Their 24th

Brothers - in - law who work on the same shift on the reverberatory furnaces at Copper Cliff smelter, Victor Sukaluk and Adeland Pilon are also fishing and hunting polts from away back. The fine moose trophy they're displaying is their 24th over the years. Burwash Lake, 50 miles north of Sudbury, is their favorite hunting area.

They've also made some great catches of trout there, including a 6-lb. speckled. Adeland has been 13 years with the Company, Victor 18.

