

# INCO TRIANGLE

VOLUME 15

COPPER CLIFF, ONTARIO, AUGUST, 1955

NUMBER 5



**The Flag Break**

(STORY ON PAGE 12)



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

Don M. Dunbar, Editor.

EDITORIAL OFFICE COPPER CLIFF, ONT.

## Was Storekeeper For Over 44 Years

When he was a storekeeper at Copper Cliff, Ralph Crouse came across the interesting coincidence that he and the two men under whom he worked, W. T. Waterbury and C. C. Chapman, were all married on the same day, September 9.

Now he's retired and living far from his old job, but coincidence still keeps him in close touch — his home is on Chapman Avenue in Waterbury, Connecticut.



**RALPH C. CROUSE**

A recent visitor with his son Enos at Copper Cliff, Ralph recalled that when he started in the stores department in 1908, a monthly turnover of \$30,000 worth of material was considered big business, but when he retired in 1952 more than \$2,000,000 a month was going through the Copper Cliff stores account.

Born at Conquerall Bank, N.S., on May 10, 1887, son of a stevedore who also farmed and worked in the lumber mills up river, Ralph got part of his education at night school in Boston, and there heard about the nickel industry from a diamond driller. On spec he wrote and got a job which was to stretch into the unusually fine record of 44 years and 10 months of credited Inco service.

He was married in 1914 to Ellen Stewart, who died in 1952.

### HOW TO CURE SHYNESS

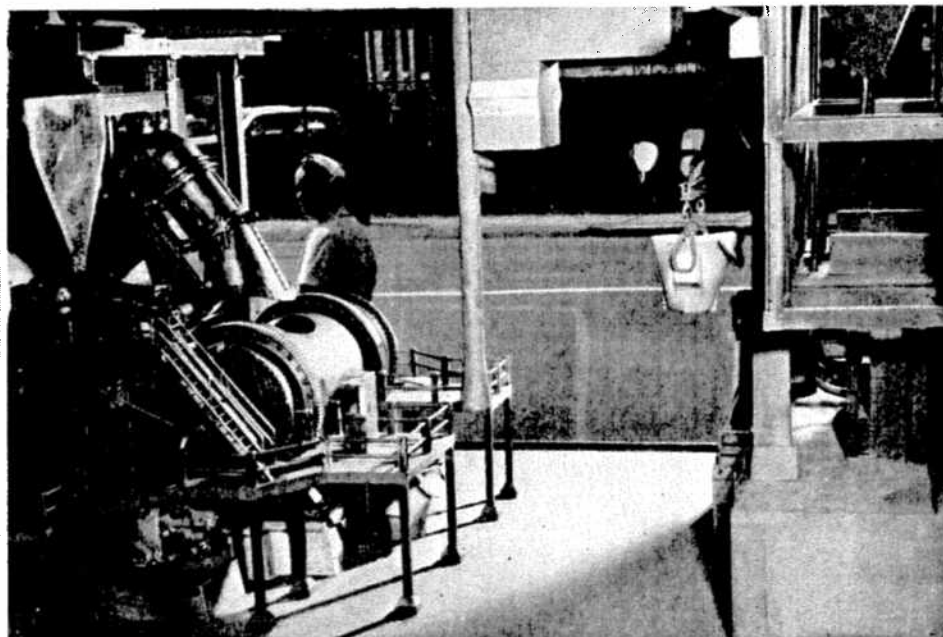
A hillbilly came into the grocery store carrying a jug of home-brew liquor in one hand and a shotgun in the other. He grabbed the grocer and demanded, "Here friend take a drink outa my jug."

The grocer refused. The hillbilly leveled his shotgun and said — "Drink."

The grocer drank, then shuddered, shook, shivered, turned green and coughed, "Gad, that's awful stuff."

"Ain't it though?" laughed the hillbilly. "Now hold the gun on me until I take a gulp!"

## Model of Converter Was Greatly Admired



A masterful example of craftsmanship that stood up to the critical scrutiny of the skimmers and punchers as well as the general public was the scale model,  $\frac{1}{2}$  inch to 1 foot, of a converter displayed in the Inco windows at the Chamber of Commerce offices in Sudbury. Made in the machine shop of the research laboratory at Copper Cliff by Harold Gathercole, the model is complete to the finest detail. It is powered by three small electric motors.

## Silver Jubilee of The Monel Family

In another of his interesting and informative letters to the shareholders of the Company, Dr. John F. Thompson, chairman of the board, recently discussed the Monel family of alloys as follows:

"As I pointed out in my address to shareholders at the annual meeting of the Company in Toronto earlier this year, 1955 marks the fiftieth anniversary of the production by International Nickel of the first of its series of versatile high-nickel copper alloys made and marketed by it under the trade mark Monel. The versatility of these alloys has led to their penetration into a number of fields in engineering, industry and the arts where there is a demand for an alloy possessing that combination of usable properties which it seems no other alloy possesses in the same measure.

"The successful development of the alloys bearing this trade mark and the subsequent creation of world-wide markets for them have been important factors in establishing the Company in the position it holds today. It was largely as a consequence of the early experiences gained in promoting these high-nickel copper alloys that we were able to build up for nickel, our principal product, diversified markets resulting in sales that have reached record proportions.

"The first alloy to which the trade mark Monel was applied contained about two-thirds nickel and one-third copper and was originally produced as a "natural" alloy from the ore of Inco's Creighton Mine in the Sudbury District of Ontario. The alloys owe their origin to the late Robert C. Stanley, a former chairman and president of International Nickel, and the trade mark applied to them was adopted from the name of the late Ambrose Monell, the patentee of the original method of manufacture, who at the time of the discovery and early development was president of the Company. Known

for their resistance to corrosion, high strength and pleasing appearance, the unusual combination of properties of the Monel alloys has made them valuable for applications in practically every industry.

"As one of the forerunners of today's 'Alloy Age', the initial Monel alloy was the pioneer that led to the development of many of the more than 50 nickel alloys the Company now produces. In the first 50 years of production, from 1905 to the end of 1954, nearly 900,000,000 pounds of the Monel alloys were shipped to a wide variety of civilian and defence industries. This total would have been considerably greater if the unprecedented requirements for defence and stockpiling, particularly in recent years, had not necessitated diversion of nickel from many normal industrial channels.

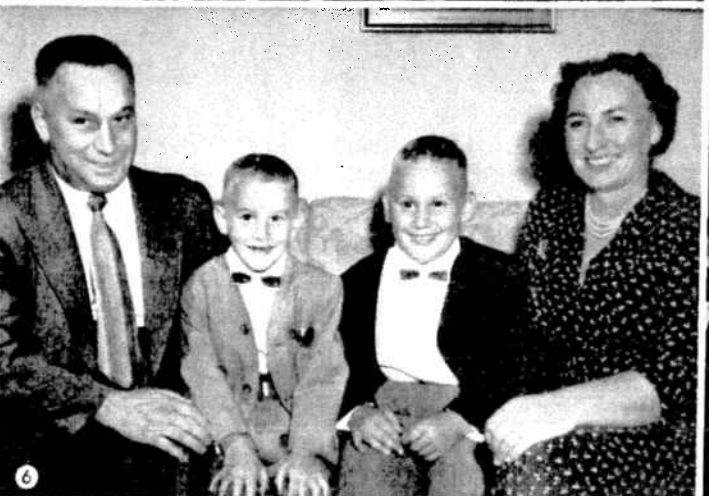
"The Monel alloys have contributed substantially to the progress of many fundamental industries of the world today. A monument to the usefulness of these alloys is Inco's Huntington Works at Huntington, West Virginia, built in 1921-22 specifically to produce the original Monel alloy in the many shapes and forms required by industry. This plant has been expanded until today it is the largest in the world devoted exclusively to the production and fabrication of high-nickel alloys. At the Huntington Works' 'Open House', October 25-27, the Monel anniversary will be observed.

"The development of the Monel alloys stimulated the search for other quality alloys controlled as to their composition, production, fabrication and thermal treatment, both by ourselves and by others. The Inco-developed alloys that followed the original Monel alloy include the Monel age-hardenable alloys, and those marketed under the Company's trade marks, Inconel, Nimonic and Incoloy.

"As the first example of our success in welding together research, production, technical service, sales and distribution into a harmonious whole, the development of the initial high-nickel copper alloy, marketed under the Company's trade mark Monel, established standards that have been a guide in our extensive operations over the past half century."

# INCO FAMILY ALBUM

"Good to the last drop" is a slogan that applies just as well to holidays as it does to coffee; among those making the most of the last precious days of vacation freedom, when the Triangle called around, were (1) Mr. and Mrs. Nick Jarmovitch (Garson Mine) with Terry, 10, Roddy, 8, Candy, 2, and Gary, 10 mos. (2) Mr. and Mrs. Henryk Plesniak (Frood-Stobie Mine) with Mary, 5, Helen, 8, and Danuta, 7. (3) Mr. and Mrs. Larry Brunelle (Levack Mine) with Bruce, 4, Mickey, 1, Paulette, 8, and Denis, 2. (4) Mr. and Mrs. Clarence Spencer (Creighton Mill) with Lynne, 8, Verna, 12, Marguerite, 16, Judy 5, and Pat, 15. (5) Mr. and Mrs. Ugo Comacchio (Coniston) with Robert, 9 mos., Ricky, 5, Pauline, 2, and Elaine, 6½. (6) Mr. and Mrs. Adolfo Flora (Murray Mine) with Peter, 8, and Adolfo, 6. (7) Mr. and Mrs. George Kelly (Port Colborne Refinery) with Colin, 13, Maxwell and Zora, 11, and Grant, 9.





# Record-Making Group of 269 Joining Quarter Century Club

With President Henry S. Wingate and Vice-President Ralph D. Parker doing the honors, 269 new members from the Mining & Smelting and Copper Refining Divisions will be enrolled in the Inco Quarter Century Club on Thursday evening, September 15. Double last year's record group, the 1955 initiates will bring to a total of 1,023 the number of active and retired employees in the Sudbury District who have completed 25 or more years of service.

Sudbury Arena will again be the scene of the Quarter Century Club's annual get-together. On account of the large number, presentation of membership buttons will be made at a private reception for the incoming members at 5.30 o'clock in one of the lounges.

At 6.30 o'clock more than 1,100 Inco 25-year men and pensioners will sit down to the turkey dinner served by the ladies of St. Andrew's United Church Auxillary. Ralph W. Waddington, assistant to the vice-president, will be chairman of the program.

On this and the next seven pages are photographs of 267 of the new members; not shown are Roy Short and Risieri Polano. The Triangle joins their families and friends in heartiest congratulations on their distinguished record of service with as fine an employer as any man ever worked for.



**Nat. Adshead**  
Open Pit



**Alex Affi**  
Levack



**Freeman Aggiss**  
Coniston



**Pete Anaka**  
Frood-Stobie



**Milton Anderson**  
Frood-Stobie



**Norman Anderson**  
Frood-Stobie



**Sld Anderson**  
Copper Cliff



**John Antonini**  
Copper Refinery



**Norman Arbour**  
Copper Refinery



**F. Argentin**  
Coniston



**Bernard Armstrong**  
Copper Refinery



**Wm. Armstrong**  
Copper Cliff



**W. H. Armstrong**  
Copper Cliff



**David Aubin**  
Copper Cliff



**Andy Ballantyne**  
Copper Cliff



**Herb Barrand**  
Open Pit



**Albert Beach**  
Murray



**Edgar Beaudry**  
Copper Refinery



**Wm. Becket**  
Copper Cliff



**Herb Bennett**  
Copper Cliff



**Augustine Bernard**  
Copper Refinery



**Marcel Bertrand**  
Copper Cliff



**Pietro Bettio**  
Copper Cliff



**Raimondo Biscaro**  
Copper Cliff



**Jack Black**  
Copper Refinery



**Leonard Blake**  
Frood-Stobie



**Snell Blake**  
Creighton



**Johan Bosnar**  
Frood-Stobie



**Horace Bourget**  
Frood-Stobie



**Archie Bowen**  
Garson



**Pat Bradshaw**  
Copper Cliff



**Wm. Brady  
Garson**



**Douglas Brankley**  
Frood-Stobie



**Jack Bruce**  
Frood-Stobie



**Andrew Bruges**  
Copper Refinery



**William Bryant**  
Copper Cliff



**Arthur Burden**  
Copper Refinery



**Barney Cain**  
Creighton



**Alex Campbell**  
Copper Refinery



**Israel Carrey**  
Copper Refinery



**Mike Chargales**  
Open Pit



**James Closs**  
Copper Cliff



**Fred Cooper**  
Copper Refinery



**Donald Cowell**  
Copper Refinery



**Jack Crawford**  
Copper Refinery



**Leslie Creswell**  
Coniston



**Carl Cretzman**  
Creighton



**Thomas Crowther**  
Copper Cliff



**Frank Curhalek**  
Frood-Stobie



**Raymond Davey**  
Creighton



**Louis Debelak**  
Creighton



**Wojchuk Dejneka**  
Coniston



**Harry Dinnes**  
Open Pit



**Albert Dockrell**  
Garson



**Joe Dowling**  
Frood-Stobie



**Olaf Eden**  
Frood-Stobie



**Armas Eloranta**  
Copper Cliff



**Alois Eppich**  
Open Pit



**Sante Facca**  
Open Pit



**Robert Faddis**  
Frood-Stobie



**F. Favretto**  
Copper Cliff



**George Fedoronko**  
Open Pit



**Frank Fielding**  
Copper Cliff



**Adolfo Flora**  
Murray



**Attilio Floreani**  
Coniston



**John Forsyth**  
Copper Cliff



**Dave Fortin**  
Frood-Stobie



**Edward Fosten**  
Copper Refinery



**Howard Francey**  
Coniston



**Alex Fraser**  
Pensioner



**George Furchner**  
Copper Refinery



**T. M. Gaetz**  
Copper Cliff



**Pat Gallagher**  
Creighton



**Iwan Gawalko**  
Copper Refinery



**George Gazdlic**  
Copper Refinery



**Leon Gervais**  
Coniston



**Thomas Gladstone**  
Copper Cliff



**Guido Gobbo**  
Copper Cliff



**Janez Golobic**  
Frood-Stobie



**John Gomme**  
Pensioner



**Louis Gore**  
Mines Dept.



**Earl Gray**  
Copper Cliff



**Harley Greenwood**  
Copper Refinery



**Gordon Guthrie**  
Copper Cliff



**Joseph Halovanic**  
Frood-Stobie



**Bill Hamarich**  
Frood-Stobie



**Joseph Harrison**  
Copper Refinery



**Fred Harvey**  
Frood-Stobie



**Dmytro Hladki**  
Coniston



**Clarence Hobden**  
Copper Cliff



**Sidney Holmes**  
Levack



**Martin Horek**  
Frood-Stobie



**Elmer Howard**  
Copper Cliff



**Mat Hreljac**  
Creighton



**Wm. Hykin**  
Levack



**Wilfred Jacques**  
Copper Cliff



**A. H. James**  
Copper Cliff



**G. S. Jarrett**  
Copper Cliff



**John Jelenic**  
Open Pit



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Creighton



**Reginald Johnson**  
Copper Refinery



**Walter Johnston**  
Copper Cliff





**Matt Jurman**  
Creighton



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Copper Refinery



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Frood-Stobie



**Janko Katulich**  
Copper Refinery



**Michael Kauppi**  
Copper Cliff



**Jack Kayshuk**  
Creighton



**Gordon Keast**  
Copper Cliff



**John Kebickas**  
Copper Cliff



**Bert Kemp**  
Frood-Stobie



**Alex Killah**  
Murray



**Dr. J. L. Kirk**  
Garson



**Isak Kivisto**  
Frood-Stobie



**Henry Klein**  
Frood-Stobie



**John Koskinen**  
Creighton



**Warren Koth**  
Copper Refinery



**Fred Kuczma**  
Creighton



**John Kulack**  
Copper Cliff



**Paul Kurek**  
Creighton



**George Kurdel**  
Copper Refinery



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Frood-Stobie



**Frank Kuznik**  
Open Pit



**George Kyllonen**  
Frood-Stobie



**Emil Laakso**  
Creighton



**Orphir Lalonde**  
Frood-Stobie



**Eli Lamontagne**  
Police Dept.



**Alfred Langlade**  
Copper Cliff



**Albert Larabie**  
Frood-Stobie



**Jack Latreille**  
Copper Refinery



**Walter Leach**  
Frood-Stobie



**Romeo Leclair**  
Police Dept.



**Paul Lemieux**  
Pensioner



**Nicola Leone**  
Copper Cliff



**Charles Lineham**  
Copper Cliff



**George Lineham**  
Copper Cliff



**Aatu Linna**  
Frood-Stobie



**Joseph Lovsin**  
Creighton



**Patrick Lowney**  
Police Dept.



**Jan Lucyk**  
Copper Cliff



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Frood-Stobie



**August Luoma**  
Open Pit



**Roy MacDonald**  
Nairn



**Alfred Maggs**  
Frood-Stobie



**Aarne Malinen**  
Murray



**Ed. Mallette**  
Frood-Stobie



**Steve Marshall**  
Copper Refinery



**John Martin**  
Copper Cliff



**Karl Martilla**  
Frood-Stobie



**Vaino Marttinen**  
Frood-Stobie



**Stanley Martyn**  
Copper Cliff



**Fred Mattson**  
Frood-Stobie



**Peter Maychos**  
Frood-Stobie



**Art McCann**  
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**John McCauley**  
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**C. McChesney**  
Frood-Stobie



**R. J. McCormick**  
Creighton



**A. V. McGauley**  
Copper Cliff



**Alex McGhee**  
Copper Cliff



**David McGovern**  
Copper Cliff



**Murdock McIver**  
Creighton



**Wm. McKee**  
Creighton



**Gerald McKinnon**  
Copper Cliff



**John McNevin**  
Copper Cliff



**Alex McQuillan**  
High Falls



**Thomas Meehan**  
Copper Cliff



**Andy Mesjarik**  
Copper Cliff



**John Miklich**  
Creighton



**Edward Mills**  
Garson



**Sebastian Milnik**  
Conlston



**Mato Miluniz**  
Open Pit



**Vaino Minkkila**  
Frood-Stobie



**Albert Morin**  
Garson



**Arthur Morin**  
Levack





**Leonard Morris**  
Copper Cliff



**Mike Moskal**  
Copper Cliff



**Pit Moskal**  
Copper Cliff



**George Norman**  
Copper Cliff



**A. J. Northwood**  
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**Charles O'Connor**  
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**George O'Malley**  
Frood-Stobie



**Alfred Ouellette**  
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**Karlo Pavlecic**  
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**Toni Plut**  
Frood-Stobie



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**Bill Podorozny**  
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**Lauri Pyoli**  
Garson



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**Cletus Reynolds**  
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**Lewis Rogers**  
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**Metro Rosko**  
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**Dan Sajatovic**  
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**Martin Sekeruk**  
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**A. Strumbelj**  
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**Wm. Trotter**  
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**Arvo Tuuri**  
Creighton



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**Mike Yrcha**  
Frood-Stobie



**Stiv Zatyko**  
Frood-Stobie



**Matt Zimmerman**  
Copper Refinery

## Greatest Fanatic Fly Fisherman

By PETER WHELAN

If anybody ever sets out to make a list of the types of fanatic there are in this world he would find high on his list the tag "dry fly purist". Anglers as a whole are a rather unbalanced lot, willing to endure all varieties of miserable weather for the sake of a few fish, but the dry fly man comes in a class all his own.

According to him the only sportsmanlike and moral way to catch trout is with a dry fly—one which floats on top of the water. Any other method is relegated to the trash heap as being below the dignity of Man—this man anyway. A wet angler is a commoner, in his royal opinion; anyone who resorts to spinners and spoons is a churl; and the one who uses worms. . .ugh.

You will most often find this man before dawn along the banks of a trout stream, hand on his jaw, considering the water with a philosophical air and a frown of concentration by turn. Then he will reach into numerous pockets, bags and crannies and

draw forth umpteen flies — dry flies that is —and after another minute's consideration choose one. This process often takes up to 15 minutes.

Then comes the art of the situation. His line snakes out over the water. . . the fly floats down and dimples the surface it rests there, drifting on the current, a spent insect. The angler's face lights up with sheer enjoyment at the conclusion of a perfect cast. In most cases the little matter of catching fish is secondary to this attainment of perfection.

It doesn't particularly matter to him if the trout are not taking dry flies that day because they are feeding at the bottom of the stream. Even if men using worms, wet flies and nymphs are having a bonanza, he will stick to his dries to the end, smiling calmly with the air of a superior being when his faith is justified.

He gets his share of fish his way, and is satisfied. The dry fly man is a fanatic, but he is also an artist who has mastered his art.

### TRANSOCEANIC CABLE

The laying of the world's first transoceanic telephone cable, linking North America and Europe, was started early this year. More than 2,000 miles in length, it will span the Atlantic Ocean between Newfoundland and Scotland. The new cable will enable people

anywhere in the United States and Canada to talk to those in Europe as if they were making a local telephone call, as it will not be subjected to atmospheric disturbances, such as electrical storms and fading, that sometimes interfere with existing communications by radio circuits. Due to the fact that the human voice will not carry a great distance over wire, repeaters or "boosters" will be built into the cable every 40 miles. In these repeaters will be special amplifying tubes with oxide-coated nickel cathodes which may operate continuously on the ocean bottom for as long as forty years.

### NO ILLUSIONS

An Indian named Big Smoke was employed as a missionary to his fellow Smokes. A white man asked Big Smoke what he did for a living.

"Uh!" said Big Smoke, "me preach."

"That so. What do you get for preaching?"

"Me get \$10 a year."

"Well," said the white man, "that's pretty poor pay."

"Uh," said Big Smoke. "Me pretty poor preacher."

He who goes with the wolves learns to howl.



# Biggest Attendance in History at Windy Lake Camp



At a general assembly before swarming into Windy Lake for the first swim of their five-day stay in camp, these cubs hear instructions from Scoutmaster Art Gobbo. Non-swimmers went to a separate beach. In the picture on the **FRONT COVER** of this issue of the Triangle, Scoutmaster Gobbo shows the procedure of the flag break to Phillip Godon of Lockerby, Allan Larocque of Lively, and Denis Poirier of Minnow Lake.



"The first 24 hours are the hardest, men," says Scoutmaster Art Gobbo as he encourages Jackie Young and Billy Trezise, Lively cubs who were most unlively, to look on the sunny side. Whether it was indigestion or homesickness that confined them to their wigwam, they were soon right back in the swing of camp life again.

## 262 Cubs, Scouts Had Fine Outing

With the world jamboree at Niagara-on-the-Lake putting Scouting squarely in the spotlight, the Nickel Belt organization played its part by turning out the largest attendance in its history to the annual camp at Windy Lake.

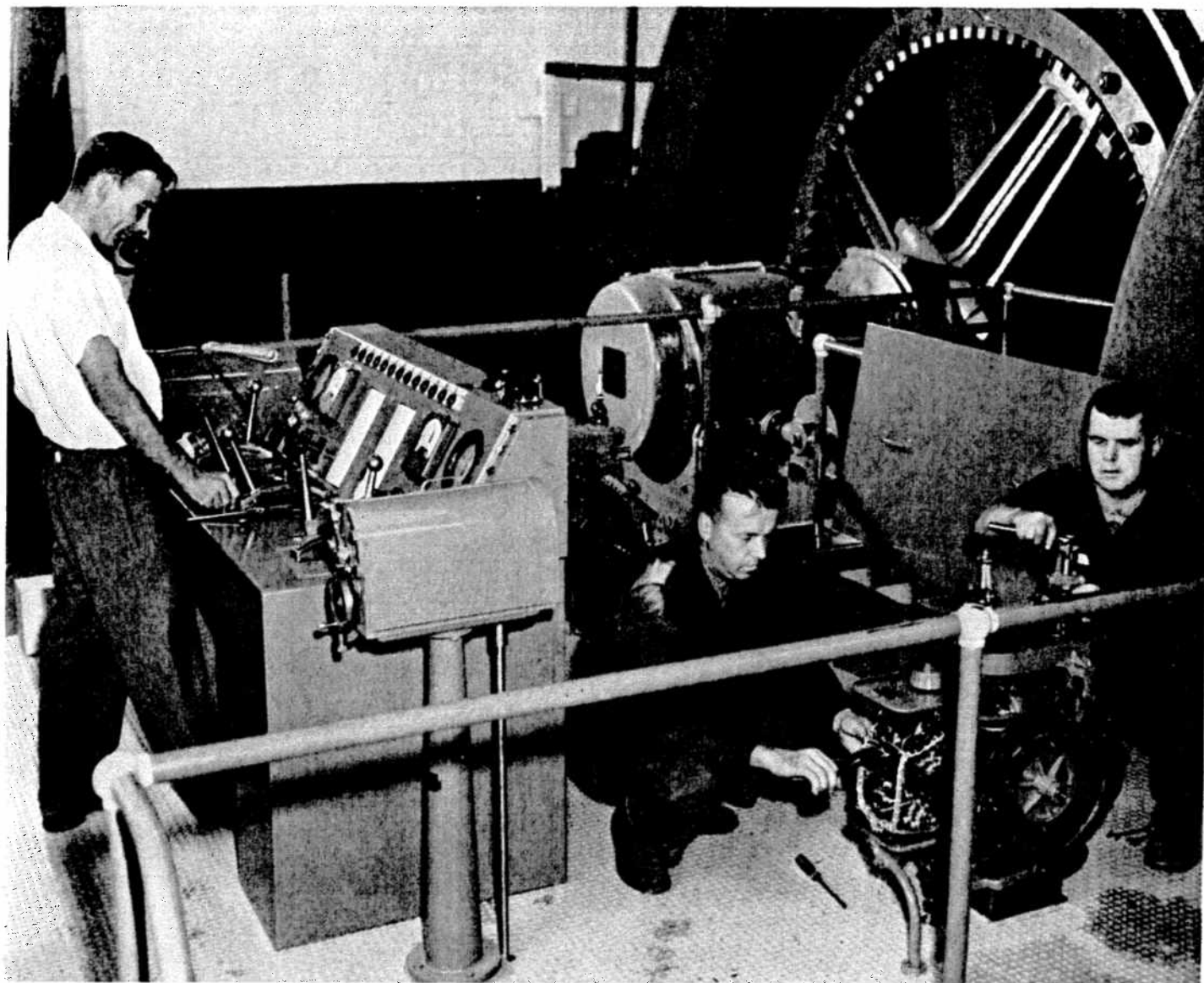
Blessed with almost perfect weather throughout its schedule from July 18 to August 20, the camp was attended by the record total of 262 boys — more than 200 of them cubs — many enjoying for the first time the thrill of life in the great outdoors.

From a territory bordered by Burwash and Capreol the annual outing drew enthusiastic troops of scouts and cubs who made full use of the facilities at the fine permanent campsite maintained by the Sudbury and District Boy Scout Association.

Into the carefully supervised program of activities was crammed lots of sports, badge work, grub and sleep, and at the end of his holiday under canvas every boy was better in both body and mind.

A typical day at the camp commenced at 7.00 a.m. with roll call and a few minutes of physical jerks to take out the kinks, then wash-up and a hearty breakfast. Next came tidying up in the tents, after which the boys put on their uniforms for flag break and morning prayers. Various phases of badge work followed, then a swim and a free period until the noon-day meal. The hour's compulsory rest after lunch was followed by organized games, trail hunts, learning crafts, swimming, and instruction in boat-handling. Then came another welcome call to the cookhouse, after which there were more

# Installing the Massive New Ore Hoist at Murray Mine



games and pranks until it was time for the crowning event of the day, the camp fire. As the leaping flames subsided and the glowing embers cooled, peace and contentment permeated the entire camp and all hands finally turned in with a warm sense of well-being and comradeship.

The scouts remained at camp for a 10-day period and the cubs stayed for five days. The last group of 38 cubs from Minnow Lake, Lockerby and Lively broke camp in time for some of the leaders to attend the world jamboree.

Administration of the camp was handled by a competent staff headed by Scoutmasters Len Shore, Art Gobbo, and Wm. Francis, with Mrs. Gobbo as unofficial camp mother.

## HARD ON THE THROAT

"Pilot to control tower! Pilot to control tower, I'm coming in, please give landing instructions."

"Control tower to pilot! Control tower to pilot! Why are you yelling so loud?"

"Pilot to control tower! My radio is on the blink!"

## THE REAL STUFF

Sign in baker's shop window:

"Pies like mother used to make, 30 cents."

"Pies like mother used to think she made — 60 cents."

Like those recently installed at Froid-Stobie and Levack, the new ore hoist now being set up at Murray Mine will hoist 15-ton loads of ore in bottom-dump skips at 3,000 feet per minute. These hoists are among the largest in the world.

The Murray hoist, its 14-foot-diameter tandem drums driven by two 3,000-h.p. d.c. motors, will be controlled automatically from the loading pockets on 1650 and 3000 levels.

Shown above is a scene during the installation. At the left Les Collins is working on the electrical hookup of the consol, from which the hoist will be controlled when it is changed over temporarily to manual operation.

At the right Arvi Hautamaki, electrician, and Dave Simons, machinist, are making adjustments to one of the two Lilly controllers which are driven from the hoist drums through trains of gears and shafting. A combination of electrical and mechanical components, this equipment provides overwind and underwind protection, approach warnings as the end of travel is reached, speed control, and control of the rate of emergency brake application, along with other important safety features.

The part of Canada that leads in fur production is not one of the less-densely populated provinces but Ontario, which has the greatest total population.

## MANAGEMENT CHANGES

Important changes in the management of Inco's operations in the British Isles have been announced recently. G. Archer, C.M.G., has been elected managing director of the Mond Nickel Company in succession to L. K. Brindley, who becomes deputy chairman of both the Mond and Wiggins boards. I. A. Bailey, who continues as managing director of Wiggins and as a Mond director, has moved to the London head office to join with Mr. Archer and Dr. L. B. Pfeil, O.B.E., F.R.S., a London management group.

In order to devote more time to his new responsibilities, Dr. Pfeil has been succeeded as manager of the D. & R. Department by F. Dickinson. R. A. R. Hill has been elected a director of the Mond company and controller of the Mond and Wiggins companies.

F. B. Howard-White joins the board of Wiggins and becomes secretary of both companies. J. Hitchcock has been elected sales director of the Mond company. A. P. Hague continues as a director of both companies and Dr. A. G. Ramsay as Mond director, resident at Clydach.

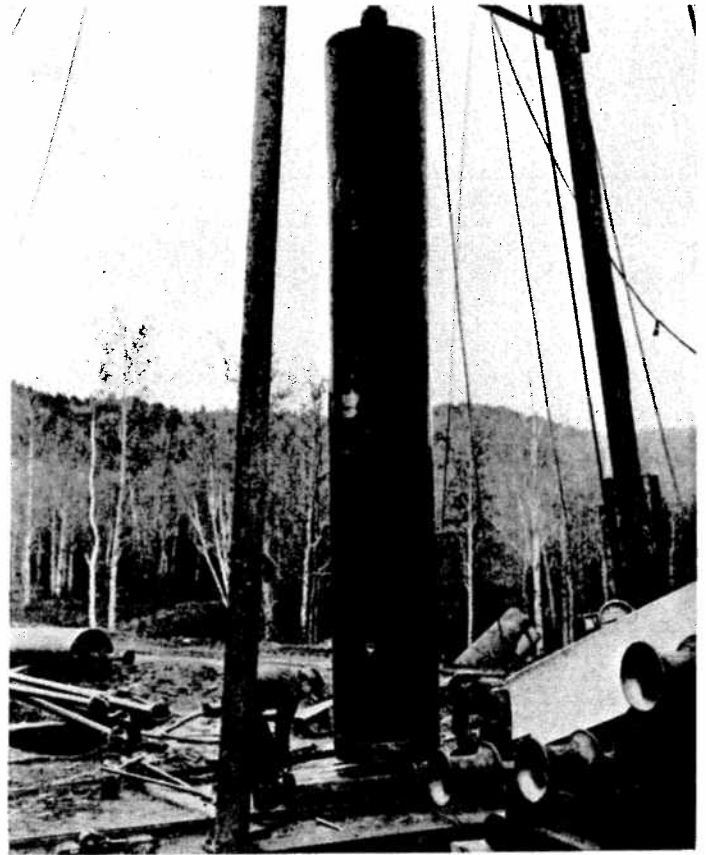
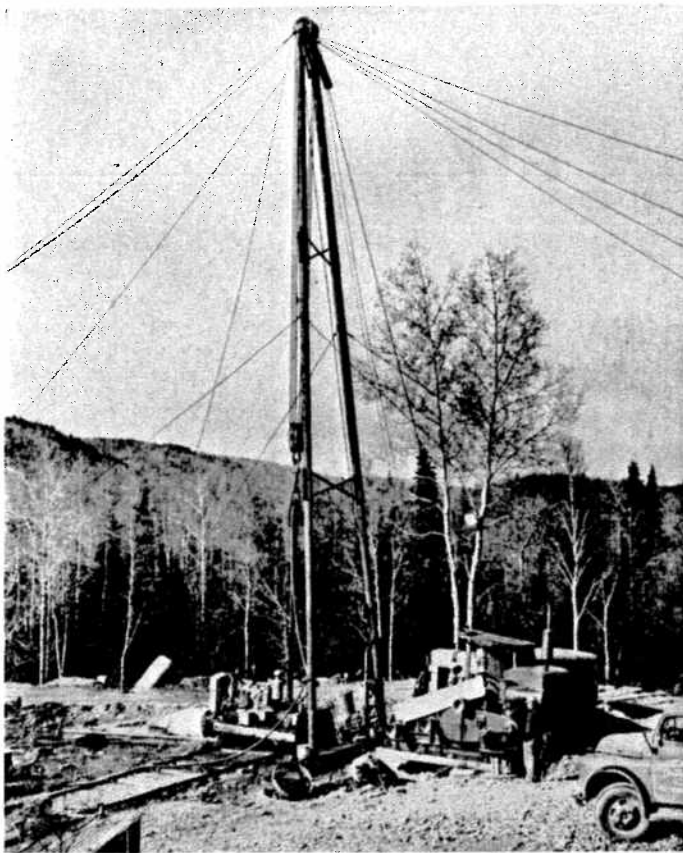
## INCOMPATIBLE

Clergyman — "I brought back the second-hand car I bought from you last week. It is too obstreperous."

Dealer — "What's wrong? Can't you run it?"

Clergyman — "Not and stay in the ministry."

# King-Sized Drill Hole Handles Part of Levack Fill Program



At the left above was a general view of the Calyx drilling setup at Levack last spring, with the rotor table in drilling position. At the right two men were removing the bulkhead prior to lowering the 20-foot core barrel with its steel drilling shoe or bit attached. When the barrel was filled the yard-wide core was broken by wedging or blasting and then lifted out of the hole for disposal.



Here chilled steel shot was being loaded into the 4-inch sectional pipe which rotated the core barrel and bit. Washed by water down into the bottom of the hole beneath the rotating bit, the shot was instrumental in cutting a ring from 2½ to 3 inches wide. On the right a section of the huge core was being examined by the mine engineer, Earl Gilchrist, and a member of his staff, Herb Young. Released from the core barrel the big chunks were dragged to a disposal area which now looks like an elephant graveyard.





From the gravel pit on the west side of Levack an 80-ton locomotive hauls 8-car trains of fill to the dump at the calyx hole.

## Used Calyx Drill First Time Here

Something new they tried in Inco mining this year is the king-size drill hole completed from surface at Levack. Three feet in diameter and 308 feet deep, it is being used to deliver gravel fill to a block of stopes which have been mined by the blasthole method.

In contrast to the usual fill raise driven from underground by conventional mining methods, the yard-wide fill hole was drilled with a Calyx core drill, sometimes called a shot drill. Since its introduction from Australia about half a century ago, this type of drill has been tested by many special assignments such as the one at Levack. Although its operators had no previous experience in drilling norite, they were able to make as much as 18 feet of the huge core in a 24-hour period.

The bit of the drill, attached to the core barrel, was rotated by a sectional pipe driven by a 160-h.p. diesel motor. The bit, made of mild steel rolled into cylindrical form, had several inclined slots cut in the lower edge. Chilled steel shot was fed into the pipe along with water and carried by the latter down the inside surfaces of the bit, through the slots, and under the cutting edge. The weight of the rotating bit on the shot caused the cutting action. Only enough water pressure was used to remove the rock cuttings to a calyx or sludge receiver at the top without disturbing the heavier shot.

The big drill hole is located about one mile east of No. 2 Shaft. Since gravel spreads to a flatter angle when wet, a water spray has been installed at the car dump above the hole.

From this calyx, or receptacle, at the top of the barrel the drill takes its name.

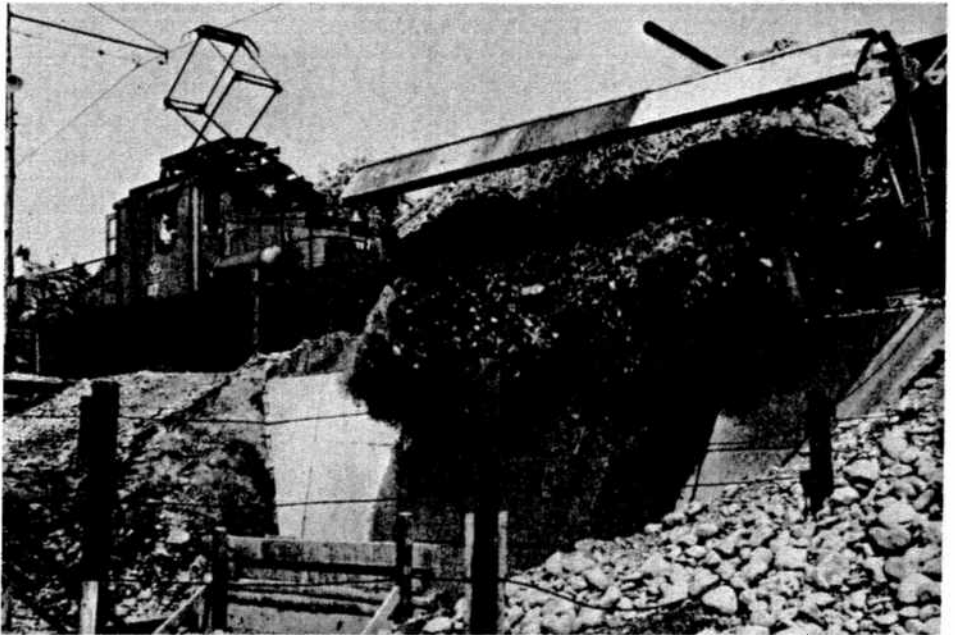
### SO THE MAN SAYS

Walking up to the ticket window at the rocket station, the man asked for a seat to the moon.

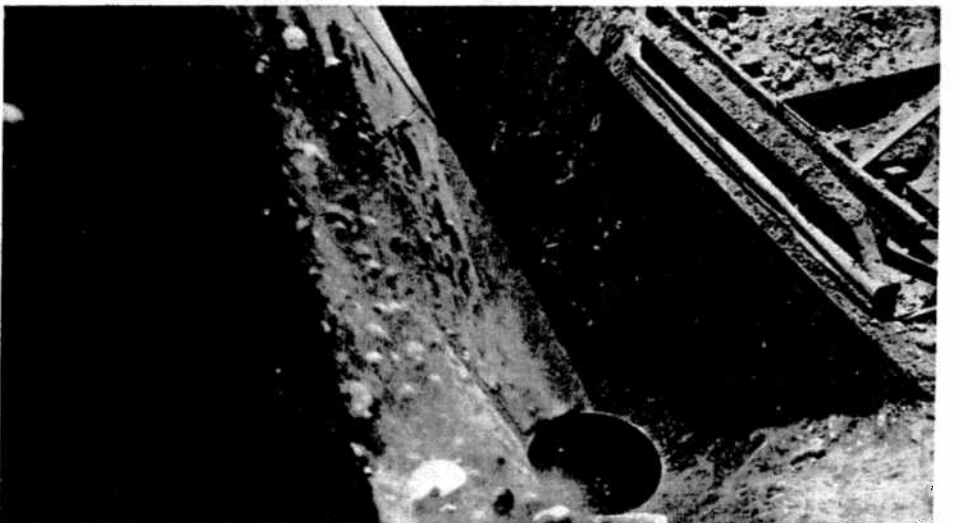
"Sorry, sir," said the attendant, "but all passenger flights have been cancelled for a couple of days."

"Oh? Why is that?"

"Well, the moon is full right now."



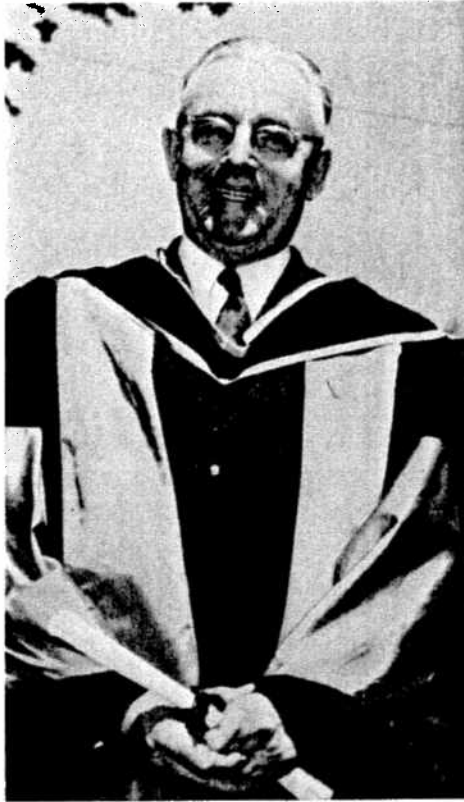
The 25-cu. yd. cars are dumped by compressed air supplied from the locomotive.



Down the steel-plated chute and into the calyx hole runs the gravel fill.

# SNAPSHOTS

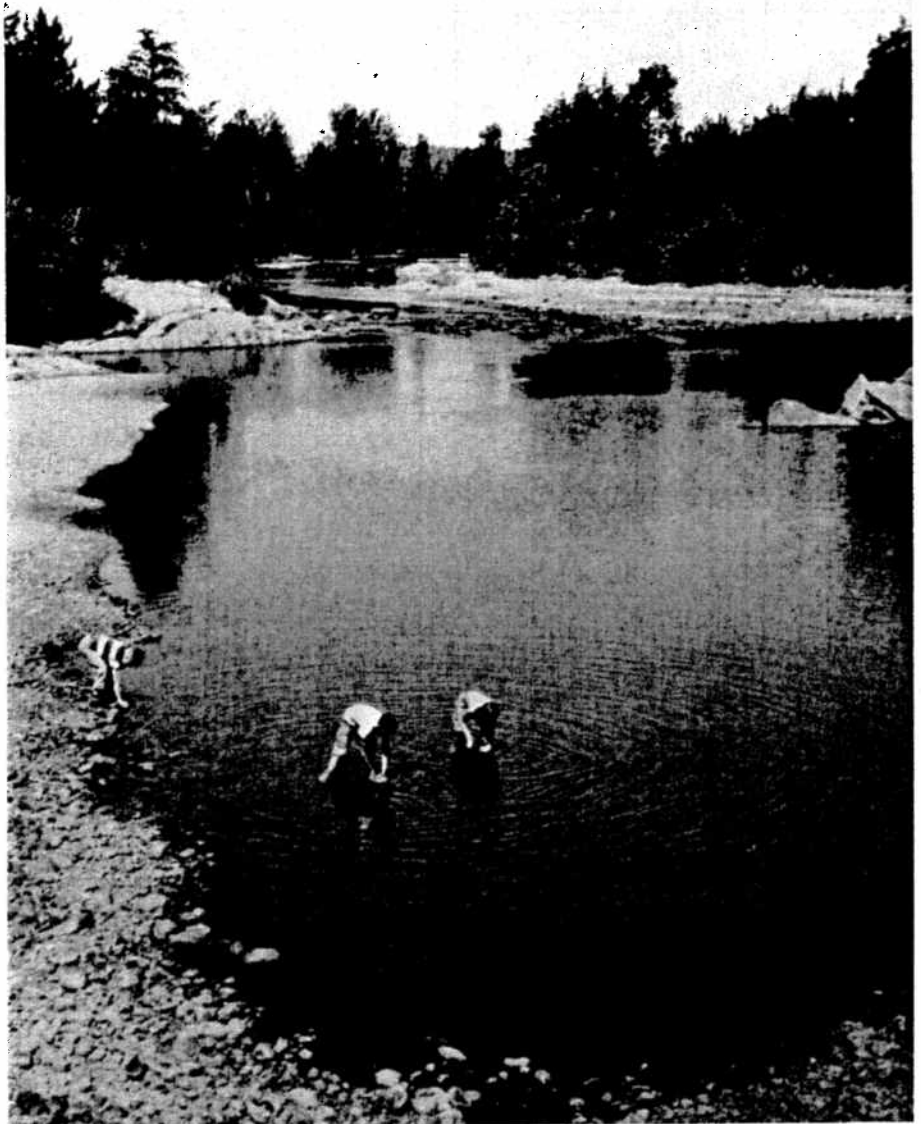
## OF LIFE WITH INCO



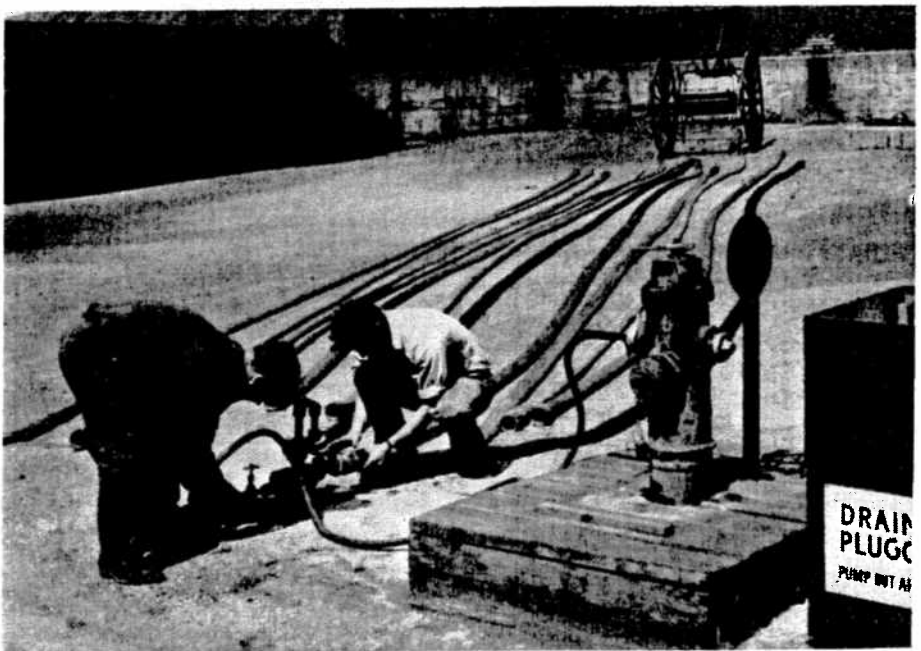
Received with keen satisfaction by his colleagues was news of the conferring by his alma mater, Queen's University, Kingston, of the honorary degree of doctor of laws on J. Roy Gordon, Inco vice-president.



Unusually interesting — as well as interested — visitors at the Copper Cliff reduction plants were 53 officers and cadets from the College Militaire Royale at St. John, P.Q.



Many an ex-boy will suffer twinges of nostalgia on viewing this summer scene near Levack. The clam hunters are Rudy Gross, Eddie Kelland, and Roger Lahey.



Fans of television's Disneyland might think that here we have two fearless fellows subduing the giant squid. No such wild excitement for Don Bray and Don Ripley, though; with a hose test pump they're carrying out a routine check at Copper Cliff of some of the 80,000 feet of hose in Inco's fire-fighting setup. This test for leaks or weaknesses is made regularly at all plants.