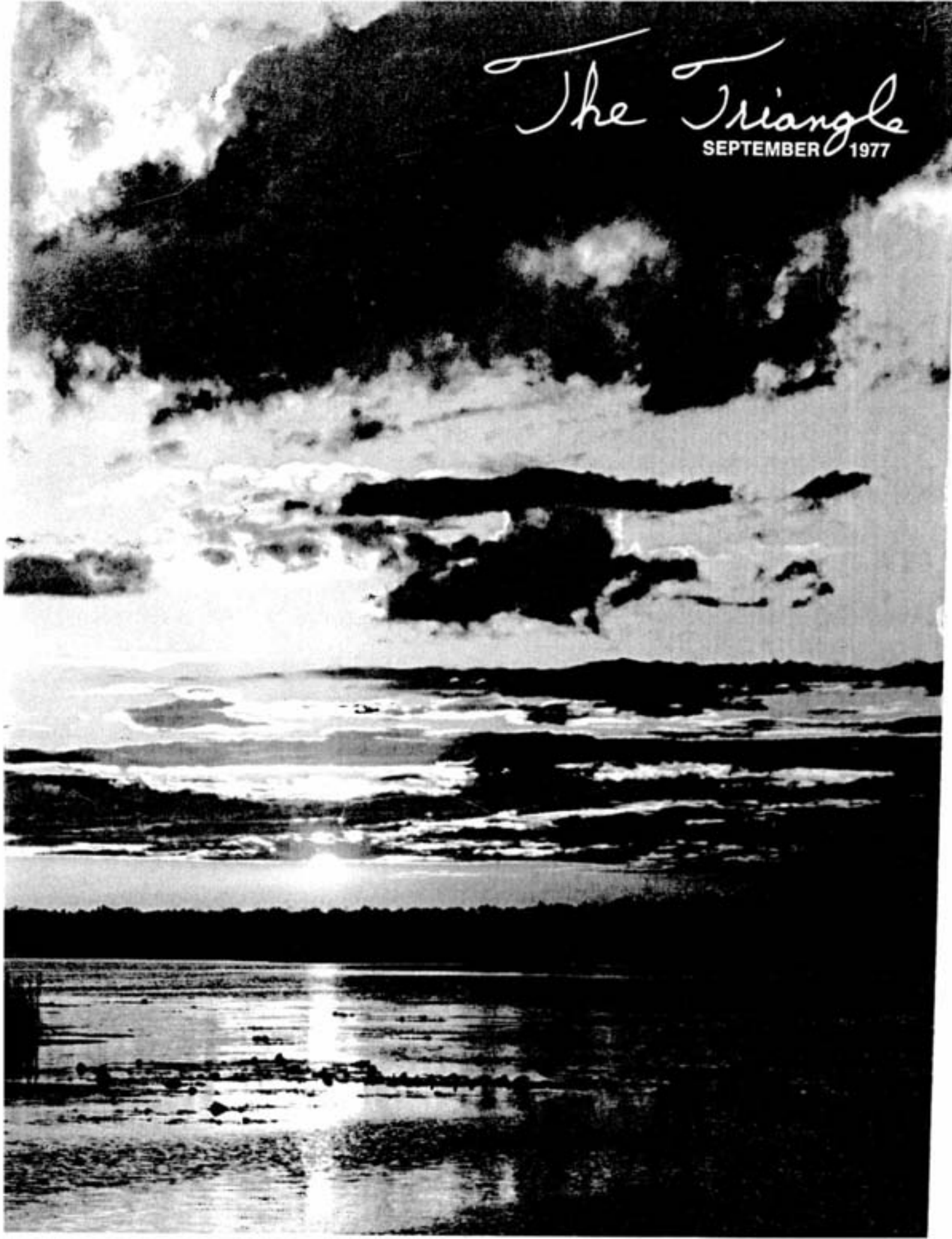


# *The Triangle*

SEPTEMBER 1977



# The Triangle

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## ON THE COVER . . .

The brilliant colors of a September sunset in Northern Ontario ominously foreshadow the oncoming change of seasons. Along with its entourage of bright colors of pink and orange, the summer sun has surrendered its mighty glow to the gelid September sky. Soon frost will settle in, painting our Northern Ontario countryside in brilliant, awe-inspiring colors.

## Official Jubilee Emblem This Year's Floral Design in Coppercliff's Nickel Park



For the past 11 years, it's become traditional for Inco's agriculture department to design, plant, and maintain a special summertime floral arrangement depicting the year's most significant event. In celebration of Her Majesty Queen Elizabeth's Silver Jubilee, Copper Cliff Park this year became the setting for a particularly attractive arrangement which was planned in accordance with the official Jubilee emblem, requested by Inco from Buckingham Palace. The white scroll at the base of the emblem features *Tiny Tim* alyssum; the grey leaves are dusty miller; the crown is a mixture of lemon drop marigolds, red fibrous begonias, *Tiny Tim* alyssum, and blue lobelia; and flanking the emblem is the insignia of the Order of Canada, celebrating its 10th anniversary this year and comprised here of the same floral selections seen in the crown. Ann Moors of the agriculture department is responsible for upkeep of the park and, in particular, has been trimming and maintaining the Silver Jubilee floral arrangement.

## In This Issue:

### Page

- |   |                                 |
|---|---------------------------------|
| 3 Lifeline Earns Its Name                                   | 13 Baby Sister Back in Business |
| 4 Power Department Improves Service at Levack               | 14 What A Drag!                 |
| 6 Inco Golf Tournament                                      | 16 Sudbury's Airport            |
| 7 Sudbury's Active Slovenian Society                        | 18 Copper Cliff Little Leaguers |
| 8 Copper Cliff Machine Shop Now in Coniston Industrial Park | 20 Family Album                 |
| 10 Port Colborne Picnic                                     | 21 Newsmakers                   |
| 12 Crean Hill's New Crushing Station                        | 30 Down Memory Lane             |
|   | 31 Logo Writer — Rolly Poulin   |

September 1977 Volume 37, No. 9

Published for employees of the Ontario Division of Inco Metals Company, Copper Cliff, Ontario, P0M 1N0. Phone 682-0631.

## Safety Pays Off For Young Miner:

# Lifeline Earns Its Name

It was a day no different than any other at Copper Cliff North mine. At least that's the way it started out. Young Wayne Marshall and his partner Bob Brosseau were lined up to scale the back and walls of the 1370 raise on 800 level, prior to installing a cover over the top of a 200-foot raw bull-horn raise that had previously been stripped of timber.

Although Gerry Lafantaisie had been a mine foreman for not quite a year, he knew the importance of safety procedures; it was his normal practice to make sure his men understood and applied safety practices as well.

On this particular day, Gerry went in to check on the men working at the top of the raise. "We discussed the work line-up, and I pointed towards the open hole, telling the men to make sure they wore their lifelines when they approached the hole. I can still see them looking at me, acknowledging what I said about wearing safety belts."

Some 15 minutes after his safety briefing, the foreman saw chute blaster Rick Tranchemontagne coming down the drift, shaking his light to attract his attention.

"Hurry up," Rick called to the foreman, "someone just fell into the hole!"

"Well, my heart just went up to my throat, and I got that sick gut feeling," Lafantaisie said, "and I was running down the drift thinking over and over, 'my God, I hope he wore his lifeline.'"

"As I got there, Wayne Marshall was just coming out of the hole, helped by his partner. Both of them were quite shaken; Wayne was soaking wet, and I asked him if he was hurt. The first thing he said was that he was glad he was wearing his safety belt, then added that he was okay and didn't feel any pain."

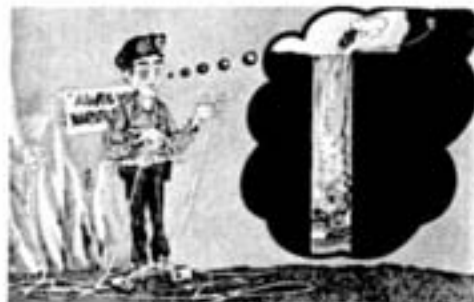
"I had a safety talk with my entire crew at the end of the shift, which I feel was the most effective one I've made yet," said Lafantaisie. "Everyone in the refuge station was paying attention to every single word, probably because they could

relate to the incident and the person in question; they see him every day, they talk and joke with him. I believe very strongly that no one on my shift will ever go near an open hole without a lifeline."

Fortunately, Wayne Marshall, with three years of underground experience, had fully understood the mine foreman's safety instructions and had securely hooked up his safety lanyard. After the foreman had left the scene, Marshall had started to slide a section of five-inch flat cribbing toward a cross-piece at the far

side of the raise, when the opposite end slipped off the ladder, spanning the open hole. As he tried to hold the other end, the short end came up and struck him under the armpit, sending him flying head-first into the open hole. The fall was a short one, thanks to his lifeline; he dropped four feet and dangled 196 feet above the bottom of the hole.

Wearing safety belts near open holes is mandatory; observing sound safety procedures is a day to day "must" for everyone and, for young Wayne Marshall, the safety habit more than paid off!



By following the advice of mine foreman Gerry Lafantaisie, right, young Wayne Marshall, centre, was safely anchored when he was accidentally knocked into a 200-foot raise, falling only four feet. His partner, Bob Brosseau, left, helped pull him from the hole.



# Power Department Improves Service at Levack



To ensure maximum safety, Delbert Merryiees, first-class lineman, installs insulating coverup on Ontario Hydro lines.



Gary Ackland, first-class lineman, controls the brake on the cable reel in order to maintain correct cable tension.

Central Utilities' power department recently completed the rather delicate task of restringing a power line feeding the Levack complex.

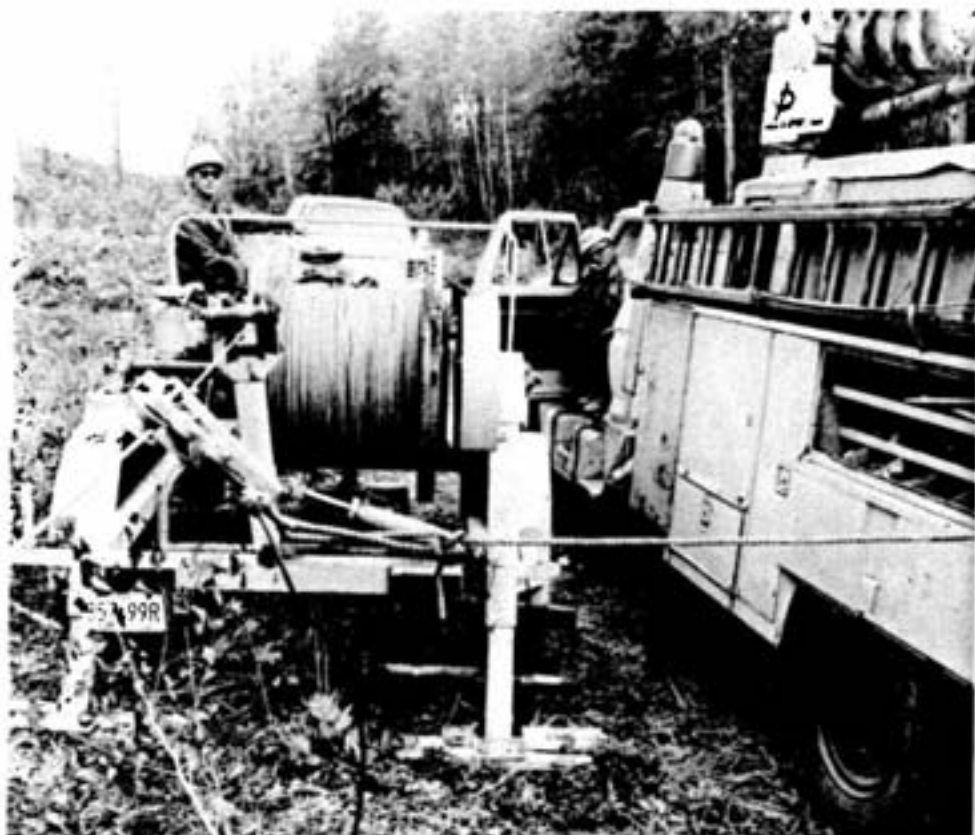
A section of the existing 69,000-volt power line was changed to a larger size of wire to provide improved power

service at Levack. Two crews were involved from the power department, performing their work under the guidance of Jack Hunter, line repair general foreman.

The project called for the restringing of approximately 75,000 feet of wire; at the



Jack Hunter, general foreman with central utilities' power department, inspects the aerial switches at the new switching station.



Ron O'Shell, left, first-class lineman and "Bucky" Basso, supervisor, pull in the cable on a hydraulically-controlled cable and wire-pulling tensioner. Radio communication is maintained at all times.



Glen Ganton, second-class lineman, installs a travelling ground on the wire that's being changed, to protect against possible contact with a live line. The job involved changing over 75,000 feet of wire.



In constant communication with the crews, Aldo Orasi, supervisor, ensures that work is carried out safely and efficiently.

same time, the aerial switching station was relocated, and incidental maintenance work was carried out.

The actual restringing consists of drawing out the old cable and simultaneously pulling in the new, thus avoiding a power outage; a hydraulic-controlled

cable-and-wire-pulling tensioner was used to avoid the potential hazard of slack in the lines.

The August project was wrapped up on schedule, and coincided with Levack's three-week maintenance shutdown.



Standing where the power line crosses the highway, Wes Burden, line patrolman, is ready to flag traffic, should it be necessary.



First-class lineman Lorne Kidd presses a sleeve on the 62-ton press, to connect the wires at the end of each reel to be strung.



Wally Taylor, left, second-class lineman and "Lefty" Barbe, first-class lineman, perform necessary maintenance work.

## A Resounding Success

# Good Golf, Great Shots At Inco Golf Tournament

Take a bright summer day, a capacity number of avid amateur divot devotees; mix in a great abundance of rocks, trees, water, rough and sand; add a fine meal, refreshing cold beer, great ribbing, tall tales and plenty of laughs, and presto! — you have the annual Inco Golf Tournament.

This year was no exception, as the Idylwyld Golf and Country Club was the setting of the recent tournament. Two draws, at 7:30 a.m. and 1:30 p.m. with shotgun starts were required to accommodate the many entries.

There was good golf, some really great shots, plenty of average scores, and many interesting situations for the less devoted.

As usual, the capacity turnout of Inco golfers made this year's event a resounding success.

A winners' dinner, which included the prize presentation, was held on the following Wednesday at the Copper Cliff Club.



Bob Browne, left, and Frank Sorochinsky, check out their shot to the next green. According to one participant, this year's tourney had all the earmarks of a 100,000-ton blast except for the smoke as golfers drove, sliced and putted their way through 18 holes.



Vern Johnston, left, presents prizes to Chris Cobbledick, individual gross winner, with a score of 81, and John Spec, low net winner, with an enviable count of 67. Low-net runner-up was Albert Rebellato, who scored 68.



Mel Young, left, did the honors, presenting prizes to the low gross team. From left, Brian Crowder, Graham Squirell, Leo Hayes and Hurley Hrellac. The team scored a total of 324.

Low net team winners in the morning draw, with a score of 283, received their prizes from Will Digby, left. Team members were Robert Polano, Charlie McCoy, Doug Bonden and Larry Carriere.



Scoring 280, low net winners in the afternoon draw included Peter Kaynes, Armand Chartrand, Wayne Prowse and Gary Prowse. Walter Chornenky, left, looked after the prize presentation.





# Sudbury's Active Slovenian Society

Native customs and costumes were the order of the day at a recent gathering of the Slovenian Society of Sudbury, held at camp on the shores of Wolf Lake, not far from the city. The occasion was a celebration of the centennial of the death of Bishop Frederick Baraga, a Slovenian missionary who came to Canada in 1853. During his stay, he compiled the first dictionary in the Ojibway language, three of which were distributed to the Ojibway and Ottawa tribes. So well appreciated was this gesture that the dictionary was reprinted in Montreal in 1880.

Slovenians are members of a southern Slavic group of people living in Yugoslavia. Numerically, Sudbury's Slovenian community is relatively small, but their vigorous participation in various folk arts festivals has firmly established them as major cultural contributors.



Wearing the banner of Miss Ljubljana 1977, Gloria Ficks of Mississauga joined recent local festivities. John Korosac, son of Leo, a pumpman at Stobie mine, gives the young lady a helping hand on the swing.



Society president Fred Zimmer, left, and Anton Koncan discuss folklore with Sylvia Albani, Henry Koncan and Ed Mikolic. Fred's a filter operator at the Copper Cliff mill, and Anton's with a motor crew at Creighton mine.



Henry Gregoris, right, a summer student with the transportation department, proves that Italian "Bocce" is similar to the Slovenian "Balina". Watching are Andy Zimmer, summer student at Copper Cliff North mine, and Nadine Carson.

Young, energetic and carrying on Slovenian customs and traditions, the Youth Group Dancers join visitors from Toronto for a portrait. Colourful costumes reflected the high spirits of the day.



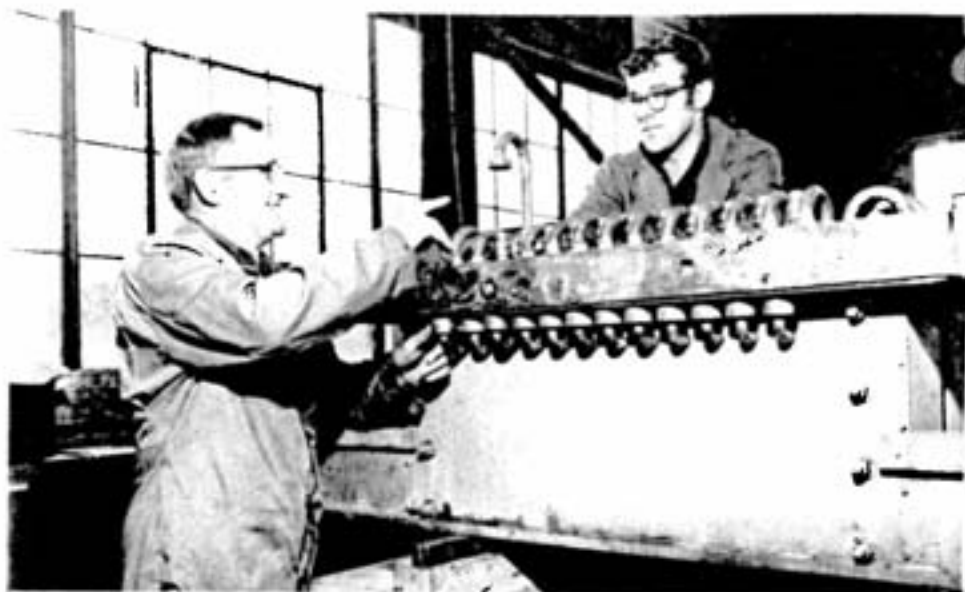
This particular native dance involves a shortage of women; while five boys have a partner, the sixth is left to dance with a broom. Here, Louis Racic, a summer student at Stobie mine, gets the "brush-off".





**INCO METALS CO.**  
CENTRAL SHOPS MACHINE SHOP

Totally destroyed by a  
raging fire this past  
February, Inco's highly-  
specialized machine shop  
is now located in the  
Coniston Industrial Park.

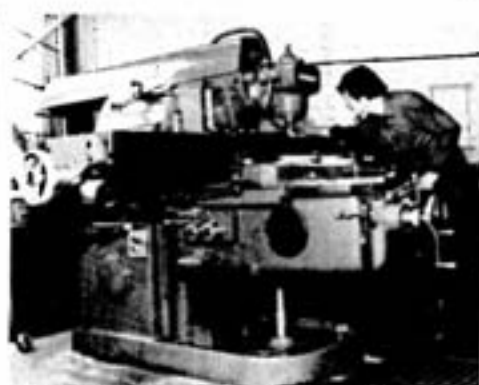


George Parri, left, first-class maintenance mechanic and Willy Metson, second-class machinist, discuss final details regarding the assembly of a semi-continuous casting mould for the Copper Cliff copper refinery.

## Copper Cliff Machine Shop



Gino Baldisera, top, and Michael Flood, both second-class maintenance mechanics, prepare to drill a water-cooled slag chute which is being repaired for the nickel reverberatory furnaces in Copper Cliff.



Second-year machinist apprentice Dave Roberts operates one of the shop's newly-reconditioned milling machines; dad, Fern, is maintenance superintendent at Froid-Stobie.



John Muron, left, first-class machinist and summer student Ed Beamge reassemble a vacuum pump following its repair at the newly-relocated machine shop.



Recently relocated in the Coniston Industrial Park, Inco's machine shop is now back to normal operation, following a blaze that gutted the building which was formerly part of "shops alley" in Copper Cliff.

Pieces of equipment salvaged from the fire have now been fully reconditioned and, where necessary, replaced; most impressive of the new machinery is a Boehringer PN600 computerized numerical control lathe, which performs its many functions by means of program tapes fed into the lathe's memory control centre.

Although the machine shop is now settled in and continues to provide its valuable services for the company from its Coniston location, there's yet one more move to be anticipated: next year, the shop will return to Copper Cliff, to premises now being constructed at Inco's new Divisional Shops site.



NC machine programmer Severo "Mouse" Zanatta feeds information into a computer terminal, which will result in a punched tape that will be fed into the control centre of the shop's new computerized numerical control lathe.

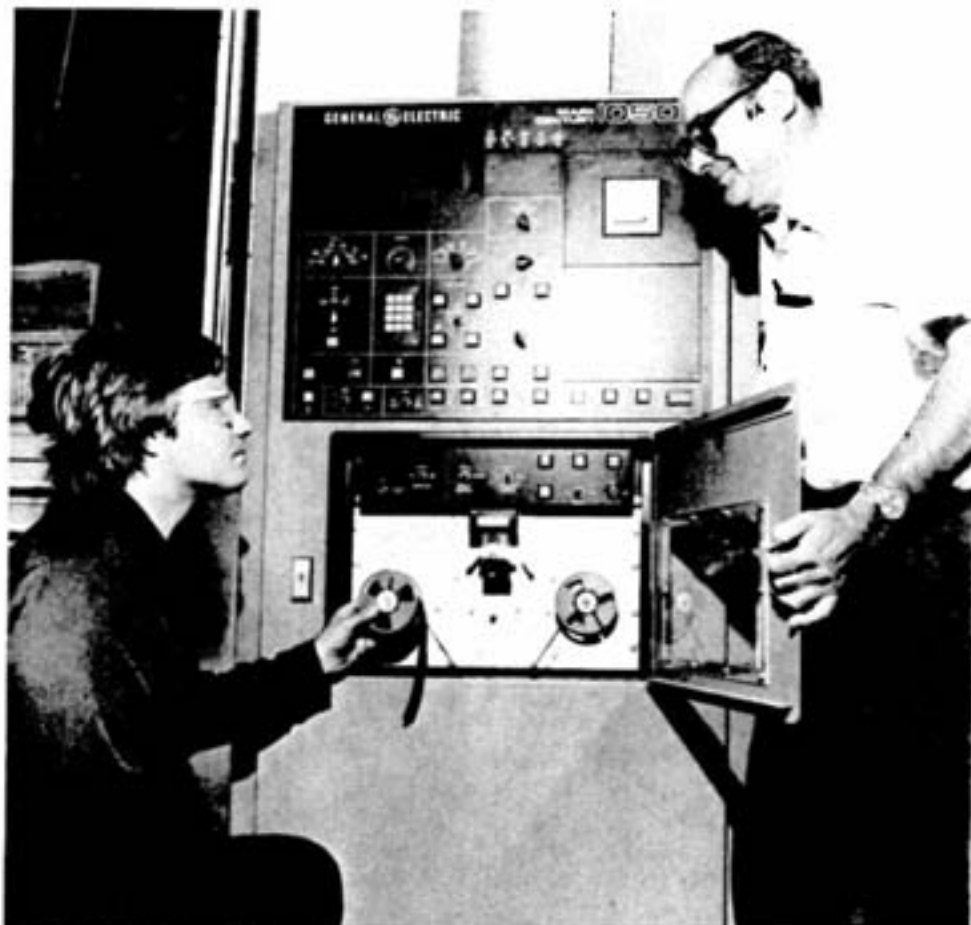
## now in Coniston Industrial Park



Second-class machinists Bob Ojala, left, and Frank Lesk confirm the accuracy of tool positions on the shop's optical tool-setting device.



Before starting up the NC lathe, Bob Ojala and Frank Lesk discuss the job at hand; in this case, machining and threading bolts for converter crane bales.



The machine shop's new computerized numerical control lathe is one of the most up-to-date available today. Here, Bob Ojala, left, and Severo Zanatta load a program tape into the NC lathe's control centre.

Fun Galore For Hundreds:

## Crystal Beach Park Is Scene Of Annual Picnic

The 14th annual picnic of Local 6200, U.S.W.A., was held recently at Crystal Beach amusement park and was probably one of the most successful in recent years. A good number of Incoites from the Port Colborne nickel refinery and the research station, along with their families, attended the all-day event.

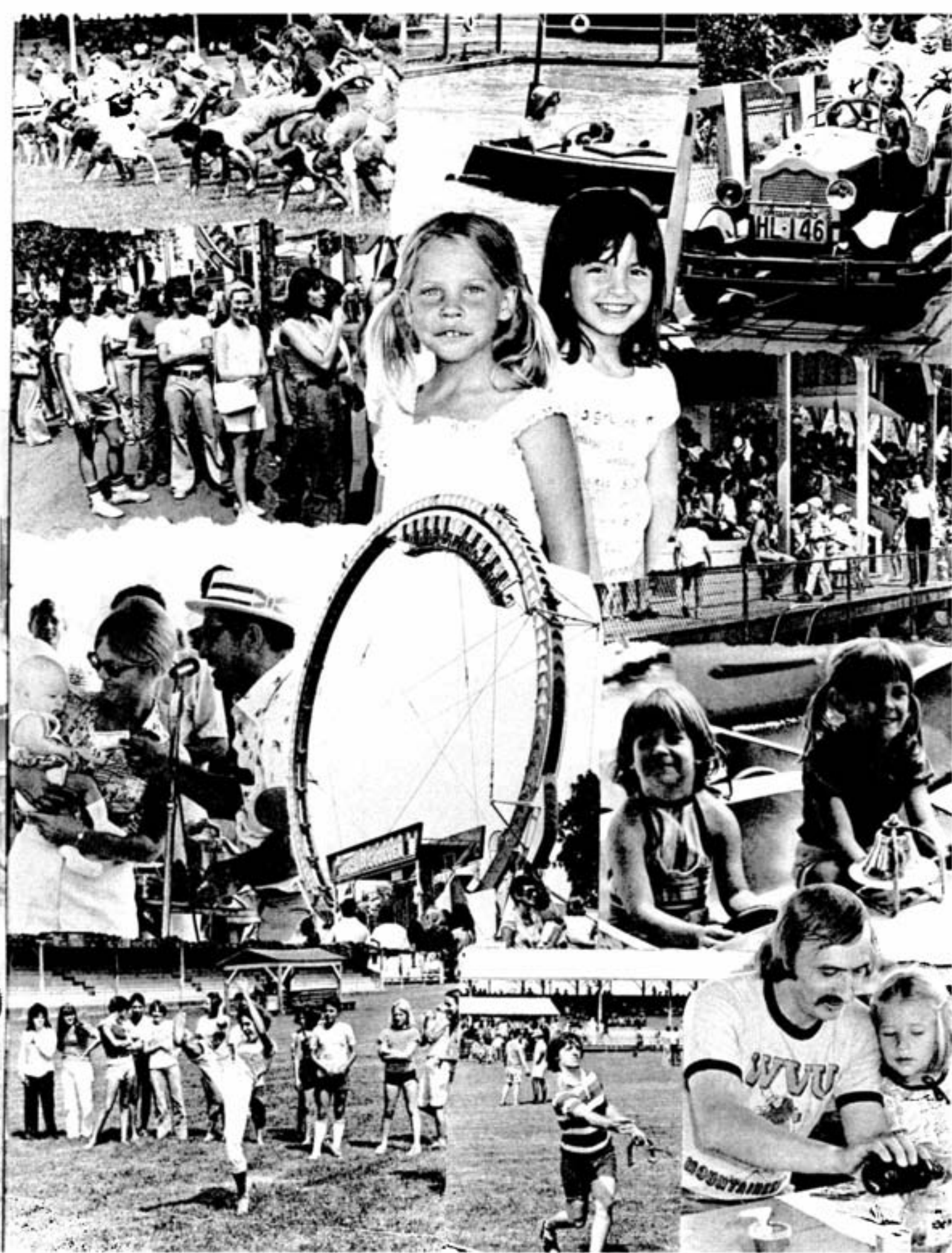
Participants were out bright and early to take part in the games held in the morning. Before noon, activities included races for different age groups, a ladie's shoe kicking contest, horseshoe competitions and a tug o'war. Prizes were also given to the youngest baby, oldest lady and oldest pensioner in the grandstands during the morning's activities.

At noon the families picked shady spots in the picnic grove at the amusement park to enjoy their lunches and later took advantage of the beautiful summer weather to walk around the park and enjoy the many rides and games.

Much credit must be given to the picnic chairman, Ted Byng, and his committee of Les Parry, Robert Fleming and John Williston for their efforts in organizing the event.

In a brief ceremony at the park, Don Robinson of Local 6200 thanked Bill Kantymir, representing the Port Colborne nickel refinery, for the donation the company made in helping defray expenses.







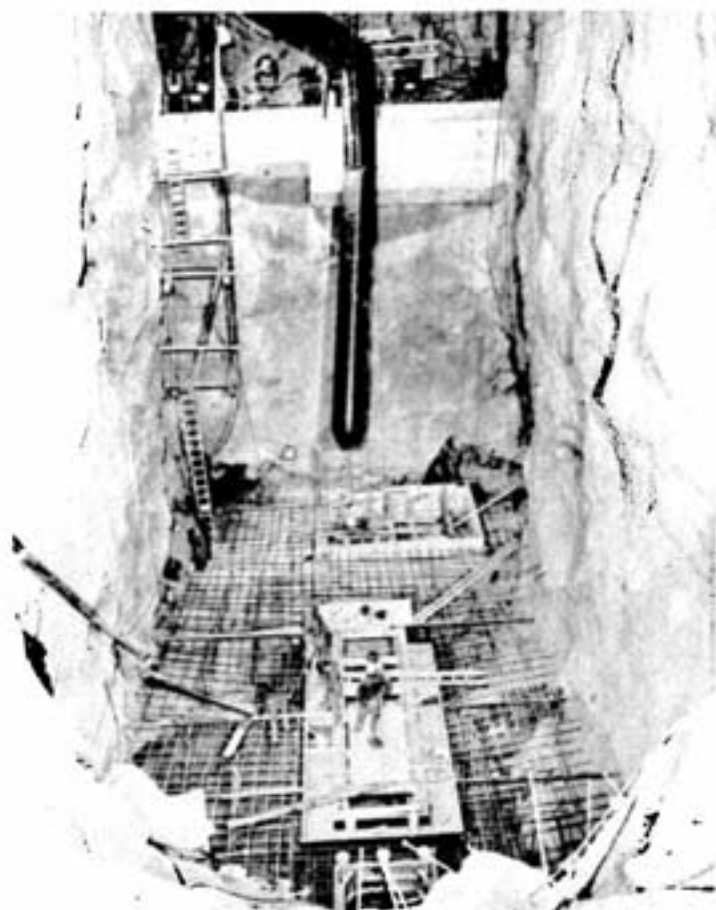
"It's taken us miles of underground development to get there," claims Gary Davis, Crean Hill mine engineer, adding that "completion of the 3800 level crushing station will open up a brand new section of ore body at the mine."

The 48-by-66-inch jaw crusher, expected to be completed by the final quarter of 1977, is the second underground crusher at Crean Hill. The new section of ore body being developed is located below the old 1800 level and, since the ideal method of mine operation involves gravity feed, the logical solution was to build a new crusher below the area being developed. Ore will drop through an ore pass and be reduced in the 3800 level crusher; the crushed ore will then drop to the 3900 level conveyor belt, which will carry it to the shaft; from there, the ore will drop to the 4000 level and be carried up in the usual manner. According to Gary, the new crusher will handle all ore from the new section of the mine.

"The new crushing station allows us to open up 2,000 feet of vertical ore body," said Gary, "and that will give us eight new mining levels, with 2,500 feet of drift on each level."

Inco construction crews moved in on the crushing station project in June and, before they're through, plan to pour 800 cubic yards of concrete into the 70-by-30-by-60-foot excavation.

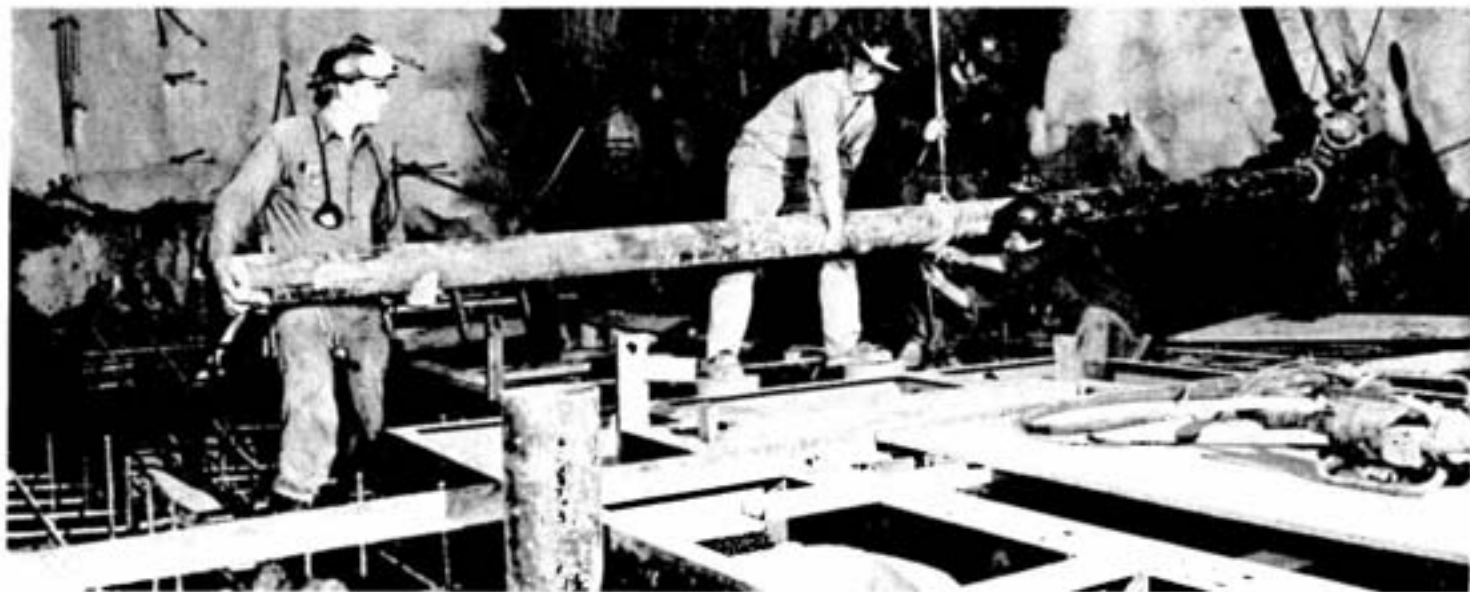
Materials used for construction were lowered down the mine shaft by cage to the 3900 level, then carried to the 3800 level by scooptram, via an underground ramp.



Members of Inco's construction group prepare the Crean Hill excavation before pouring concrete through the cement line at left. The large vertical black tube is the ventilation duct that carries air from surface.

## Crean Hill Mine's

# New Crushing Station Nears Completion



Construction of Crean Hill's new 3800 level crushing station calls for the pouring of some 800 cubic yards of concrete. Hooking up the cement line are, from left, maintenance mechanic Larry Toner, rigger Terry Gurrette, and welder John Veno.



Tracy Hobden, left, stationary engineer, and Mike Tallevi, instrumentman, discuss the merits of close control of water acidity, which prevents corrosion and structural damage inside the converter hoods.



A series of valves located around the cooling tower are used to direct water flow to the proper areas. With the tower completed, Bill Scott, centre, construction co-ordinator, discusses the complexities of the valving system with project co-ordinator Tom Price, right, and Mike Tallevi, left, instrumentman. A testing station, located in a pumphouse adjacent to the tower, provides quick analysis of the water's PH content.

## Baby Sister Back in Business

Since the company's \$25 million "superstack" came on stream in 1972, its three "sister" stacks have stood silent.

Recently, however, the smallest chimney — the 300-foot-tall Orford stack — has been returned to active service, this time to generate a draft for a newly-constructed cooling tower.

By means of evaporative cooling, the Orford Stack Cooling Tower disperses heat from water used to cool the uniquely-designed, tight-fitting converter hoods. The tower itself is located at the

base of the Orford stack and consists of three cells: two operating, and one on stand-by. Each cell is capable of cooling 6,000 gallons of water per minute from 160°F to 120°F by running water over an enclosed fillboard structure. Air drawn upward by the chimney cools the water to the appropriate temperature, thus the stack is doing a job normally performed with electrically-driven fans in more conventional cooling towers. By using the stack for this purpose, the company conserves energy and eliminates a noise

source, two important objectives in modern industry.

The Orford stack has an additional function; it carries the evaporated moisture from the cooling tower to an elevation three hundred feet above ground level, thereby guaranteeing no ground-level fog during adverse weather conditions.

This is the first cooling tower of its kind in North America, and is an important part of the company's program to improve conditions in the converter aisle.



Water in the Orford Stack Cooling Tower is controlled from the Copper Cliff smelter's oxygen control room. Electrical gear located at the pump switch room provides operations staff with local pump controls and power. Apprentice electrician Kevin Robinson, foreground, listens closely as electrician Ray Newman explains the relay circuitry involved in the pump control system.



Located at the base of the 300-foot Orford stack, the cooling tower at left is the only one of its type in North America. Each of three cells is capable of cooling 6,000 gallons of water per minute from 160°F to 120°F.



Mechanical failures are part of racing — here, a transmission is rebuilt between runs, in less than an hour!



Gary Lonsberry, first-class mechanic at Copper Cliff South mine, is president of the Nickel City Car Club.

# What a



A last-minute inspection just prior to entering a race at the Hamilton Dragway Park.

In October of 1975, a group of about 200 interested people joined together to ultimately form the Nickel City Car Club. With a current active membership of 42, the main purpose of the Club is "to take drag racing off the streets and put it on the dragstrip, where it belongs."

At this time, the closest place for local members to race their specially-built cars is Hamilton but, according to Gary Lonsberry, first-class mechanic at Copper Cliff South mine and president of the Nickel City Car Club, "once the fever hits

you, it's hard to quit. It's worth driving 300 miles or so, towing a trailer with your car, just to run maybe three to six times down the strip". Gary, who's been with Inco for six years now, "wouldn't mind someday trying big money racing, but in the meantime, it's just a hobby."

And an expensive one at that! Gary and Rick Martin, a second-class mechanic at Levack mine, are co-owners of "Trash's Toy", a 1968 Camaro, 454 cu. inch, rated at 575 horsepower; it turns a quarter-mile in 10.92 seconds, or 129



Nickel City Car Club members help get "Trash's Toy" ready for a qualifying run. Standing, from left, are Pete Panas, Frood mine; Gary Lonsberry, Copper Cliff South mine; holding the club banner are Rick Martin, Levack mine, and Neil Anderson, Copper Cliff North mine.



A good selection of spare parts and a complete set of tools are an absolute must for any drag race entrants.



# drag!

miles per hour. It's taken three years to build the car which, to date, has cost upwards of \$17,000, and the co-owners admit that they're able to participate in events due to "a lot of help from their friends!"

Regular Club meetings are held the first Sunday of every month at The Village, where plans are discussed for hosting car shows and club runs are organized to Hamilton; a club run consists of approximately 20 cars in a convoy travelling to Hamilton and back.



Rick Martin, a second-class mechanic at Levack mine, is nick-named "Trash" because he's usually covered with grease and oil!



Constant maintenance and a lot of effort have made "Trash's Toy" the fastest in the Pro-et class in Northern Ontario.

Gary and Rick try to make the trip as often as every couple of weeks. About ten people go every few weeks from the Sudbury area, but from Northern Ontario there are hundreds who make the trip.

The Nickel City Car Club is responsible for hosting car shows and for promoting safety on the road. The Club has won awards for best club display, best crew appearance, and took the long-distance awards in Kingston this past May.

Guess drag racing isn't a drag at all!



Safety standards and regulations set by the NHRA make this car safer than factory autos.



"Trash's Toy" is the specially-built car co-owned by Rick Martin and Gary Lonsberry. It cost upwards of \$17,000.



A "burn-out" is a method of heating up specially-treated tires to improve traction. The tires are bolted to the rims, to prevent them from slipping. The car's a 1968 Camaro, 454 c.i., rated at 575 horsepower and, so far, has cost \$17,000.



Barry Green, air traffic controller, gives final clearance to an incoming flight from Sudbury Airport's air traffic control tower.



The Sudbury Airport complex, which includes control tower, administrative and weather offices, aeradio section and radio maintenance facilities, passenger and cargo-handling facilities, and maintenance buildings.

Come Fly With Us:

# Sudbury Airport—

Whether you're a first timer or a veteran, travelling by air holds a special kind of excitement and mystery that no other means of transportation can provide. Thousands of miles are covered in mere

hours, at altitudes that birds never dreamed of.

But there's another side to the glamour of flying that seems to be taken for granted, and that's the basic operation of

the airport itself. To find out how our airport works, The Triangle talked to the major tenant of the Sudbury Airport, Air Canada. Our thanks to Bob Warren, Air Canada's district manager, and Bud Chapman, Air Canada's airport customer service manager, for providing the following information:

Owned by the Government of Canada through Transport Canada, the Sudbury Airport is operated and maintained by the transportation department of the City of Sudbury. Airlines, such as Air Canada and NorOntair, rent space from the City and, in addition, pay a standard, set fee for each of their aircrafts' take-offs. In order to run the airport, the City employs about 15; there are another 12 employees of Transport Canada, made up of air traffic controllers, aeradio and radio maintenance staff. There are also 18 full-time Air Canada employees and 10 part-timers provide security; a staff of five from Environment Canada provide weather statistics, and there are personnel operating car rental agencies, a restaurant, a boutique, a flying service, and other airlines; in all, slightly over 100 people are employed at the airport, making it a thriving little industry in its own right.

Air Canada operates six flights daily,



Passengers board Air Canada's regular flight No. 161 from Sudbury to Thunder Bay and Winnipeg; nearly 10,000 flight movements are recorded each month at the airport, including private, commercial, corporate and training aircraft.



Studying recent construction plans are, from left, Orville Meyers, City of Sudbury airport manager, Bud Chapman, Air Canada's airport customer service manager, and Bob Warren, Air Canada's district manager.



Performing a pre-flight check are flight captain Lou Hand, left, and first-officer Mike Shulist. The airport's main runway is equipped with ILS, which provides electronic guidance.

# How it Works

four from Toronto and return, and two which are part of a "Northern Tier Transcontinental Service", referring to a flight service spanning Montreal, Ottawa, Sudbury, Thunder Bay and Winnipeg. Air Canada also handles six daily NorOntair flights, connecting North Bay, Sault Ste. Marie, Timmins, Kapuskasing, Earlton and Kirkland Lake.

The airport is also used extensively by private aircraft; approximately 27 locally-owned planes make use of the facilities, including seven planes belonging to Manitou Airways; as well, the Ministry of Natural Resources' Atmospheric Environmental Services use the airport facilities for their three aircraft used to fight fires.

Activity at the airport averages almost 10,000 take-offs and landings per month; for example, during the month of July, there were 9,600 aircraft movements; 5,600 were for local training traffic and 4,000 for commercial and corporate aircraft.

The airport's major runway is 6,600 feet long by 200 feet wide; the secondary runway is 5,000 feet long by 200 feet wide. The main runway is equipped with ILS — Instrument Landing System — which, in adverse weather conditions, is used to tell pilots exactly

what their position is when they're coming in for a landing, by providing electronic guidance.

A recent major construction program saw Transport Canada resurfacing the

entire main runway; the project also included enlargement of aircraft parking facilities and seeding of surrounding grounds to provide a more attractive landscape.



Air Canada employs 18 full and 10 part-timers at the Sudbury Airport and another 14 as passenger agents at the Larch Street reservation office in downtown Sudbury.





Action is not quite fast enough, as Copper Cliff's third baseman Robbie Veccia snaps up the ball to tag out a Rouyn runner.



After a fast-paced inning, the Copper Cliff infield heads to the dug-out before coming up to bat. Walking from left, are shortstop Terry Watt, pitcher Jim McQuarrie, and first baseman Joey Santl.

## Copper Cliff Little Leaguers



Local teams receive plenty of vocal support from the crowd, as parents and friends take advantage of the sunshine to cheer on their favorite teams. Bleachers were filled to capacity each day of the five-day tournament.

The Little League pledge includes a vow for fairness and a desire to win, both of which were more than evident during the recent Little League District Four Tournament hosted at Walden's Little League field. Representative teams from across Northern Ontario gathered to participate, with the Copper Cliff team, managed by Gord "Moose" McQuarrie and coached by Yakker Flynn, winning four games straight, to take top honors.

Both manager McQuarrie and coach Flynn claimed that the Copper Cliff boys were well prepared for the tough competition they met in the tournament.

"They practised hard for three weeks before the tournament," said manager McQuarrie, "and they seemed to be ready. They had their minds on the game.



The Walden team was one of four that went down to defeat at the hands of the Copper Cliff team. Umpire for this particular game was Bill Carlyle, shift boss at Clarabelle mill. Catcher for the Copper Cliff team was Tommy Matheson.



Stealing second wasn't easy for Copper Cliff pitcher Jim McQuarrie, as Walden's Joe Tovey kept the opposition on their toes.

## Bring Home the Honors

and didn't make too many mental mistakes. There were four mechanical errors in four games, but they handled them pretty well."

Competition converged on the Walden Little League field from several points in Northern Ontario: Rouyn and Noranda, Quebec; Rayside Balfour; Wawa; Chapleau; Englehart; Hornepayne; Kirkland Lake; Copper Cliff, and the host town of Walden.

The Copper Cliff team won the right to represent the district in the Provincial Little League Tournament coming up in Stoney Creek; the winner then advances to the Canadian final in Whalley, British Columbia. The eventual top Canadian Little League team will go on to Williamsport, P.A., to compete in the Little League World Series.



A victorious cheer from the Copper Cliff Little League team and their fans after the team's win in the final game of the District four tournament. Hats off to manager Gord "Moose" McQuarrie and coach Yakker Flynn.



The all-girl family of Bruce and Joanne Holford. Bruce is with the engineering department at Crean Hill mine. Youngsters, from left, Jennifer, 5, Leslie, 7, and Stacey, 8. Swimming, skating and hockey are listed as family hobbies.

## Family Album



From the Port Colborne nickel refinery — the Dave Harris family. Dave is an ironworker in the mechanical department. That's his wife, Terry, Bonnie, 15, Denise, 14, Eddie, 7, and Chris, 18 months.



This is the Don Tolson family. Don is an instrumentman at the Copper Cliff mill and likes to play golf and boccer ball. With his wife, Michelle, are Cara, 7 months, while Brian, 2, poses with his dad. The Tolsons enjoy living on their hobby farm.



Sadiq Zaidi is the mine engineer at Little Stobie mine. He and his wife, Anjum, are proud of their two boys, Zeeshan, 3, and Farhan, 9 months. Hobbies include tennis and gardening.





Inco plant tours have become a major attraction for visitors to the Sudbury area, and tour organizers recently commemorated the visit of the 15,000th person to sign up this season. Tour co-ordinator **Tom Plexman**, left, presented a greenstone carving to **Ulla Malm**, centre, who is visiting Canada with her husband **Karl**. Their home is in Bastad, Sweden.



A determined Copper Cliff team won the sixth annual President's Golf Tournament at the Sudbury Idylwyde Golf and Country Club, defeating teams from Thompson, Toronto and Port Colborne. The winning foursome carded a total score of 335. Thompson and Toronto tied for second place with totals of 357. Unfortunately **Bob Noyes**, a member of the Port Colborne team, pulled a back muscle and was unable to play. Ontario Division President **Ron Taylor**, right, was on hand to present the President's Trophy to the winning team of **Leo Hayes**, **Steve Cote**, **Brian Crowder** and **Roy Maud**. Below, from left, **Mel Young**, **Wint Newman**, President, Manitoba division, Inco Metals Company; **Ron Taylor** and **John Spec** prior to their round of golf. Next year's President's Trophy tournament will be held in Toronto.



**Charlie Ferguson** has been appointed Director, Environmental Affairs, Inco Metals Company. Mr. Ferguson will have company-wide responsibility for environmental matters. Effective September 1, 1977, he will be located in the Toronto office. Mr. Ferguson will report to Dr. Charlie O'Neill, Senior Vice-President, Inco Metals Company.



# NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . . .



Conrad Houle, left, and Bob Sagima were kept busy serving delicious, mouth-watering steaks, along with all the trimmings, throughout the 5th Annual Golf Tournament, recently staged by the Sudbury Branch of the Canadian Institute of Mining and Metallurgy at the Onaping Golf and Country Club. As in past years, a capacity crowd was on hand to enjoy the day's activities.



The Copper Cliff Dairy recently installed a new nickel stainless steel milk storage tank to further increase its milk storage facilities. The new tank holds 70,000 pounds of milk, roughly 7,000 gallons, and uses an ammonia cooling system to keep the milk at a constant 35°F. According to dairy manager **Bill Johnson**, the new tank doubles the storage capacity of the dairy. All milk processed at the dairy is obtained from local farmers.



All fishermen have a story about the one that got away, but they rarely get away when the type of fishing takes place deep underground. The elusive quarry in this type of fishing are drill rods that disconnect and are lost in holes. Special tools, developed in conjunction with Inco's drilling department, have been responsible for saving approximately 60 percent of all fishing jobs attempted, representing thousands of dollars which would have otherwise been lost. Inspecting some of the new types of fishing tools are, from left, **Ed O'Callaghan** and **Dave Slobodian**, of the mines drilling department, **Al Kinney**, president of Rotary Drilling Service, and **Rolly Aubin**, a driller at Stobie mine.



The Walden Little League Baseball Tournament had plenty in store for the hundreds of youngsters who gathered from across Ontario and Quebec to participate. Included in the schedule was a performance by masters of magic **Andrew Buttazzoni**, left, and **Mike Carbone** who showed **Chris Dowdall** that a mysterious tap on the hat can result in a handful of doves. Chris is the son of **Dennis Dowdall**, a garage mechanic at the Central Repair Depot.

# NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . . .



Inco and the United Steelworkers of America Local 6500 joint occupational health committee has appointed **Dr. David Muir** as director of its research study program. He is a Ph.D graduate of London University in England and has extensive experience in the field of occupational health. Before coming to Canada, Dr. Muir was director of the Institute of Occupational Medicine in Edinburgh, Scotland. The joint occupational health committee was established during the 1975 negotiations by Inco Limited, and Local 6500 in Sudbury and Local 6200 in Port Colborne. Purpose of the committee is to institute a program in conjunction with a Canadian university to develop a better understanding of the working environment at Sudbury and Port Colborne through independent industrial health surveys and research in connection with potential occupational illness and disease. McMaster University is the site for the studies.

**Jack Noonan** has been appointed Manager of Environmental Control. He will be responsible for the development, implementation and adherence of environmental control programs and systems throughout the Ontario Division.



**Peter vom Scheidt**, a writer and photographer with The Triangle for the past three years, will take over his new duties as editor of IN Touch magazine, effective October 1. Published quarterly, IN Touch is distributed to Ontario Division pensioners.



The Joint Occupational Health Committee, established during the 1975 negotiations by Inco and Local 6500 in Sudbury and Local 6200 in Port Colborne, United Steelworkers of America, is funded by the company up to a maximum of \$150,000 in each of the three contract years. Attending a recent committee meeting were from left, **Ray Moreau**, Local 6200 representative, **Keith Rothney**, of Local 6500; **Charlie Hews**, Ontario Division vice-president, Inco Metals Company; **Gib Gilchrist**, of Local 6500; **Bob Browne**, assistant to the vice-president, Ontario Division, Inco Metals Company; **Dave Patterson**, president of Local 6500, and **Dr. Walter Woychuk**, Inco's associate medical director. Absent was **Dr. Stuart Warner**, vice-president, Inco Limited.



Patrick Murphy



Don Blue



Al Gervais



Art Fenske

Smart thinking by several Ontario Division employees resulted in numerous cash awards from the company's suggestion plan. Suggested modifications to the water lines for the 4000 level clearwater sump and sandfill pouring at Garson mine resulted in a \$410 award for **Patrick Murphy**, of Garson mine. A regular participant in the suggestion plan program, **Don Blue**, of Copper Cliff South mine, was awarded \$390 for his recommendation to hard-surface skip trunion liner plates. **Al Gervais**, of Copper Cliff North mine, picked up \$320 for suggesting modifications and reinforcement of ore pass dump doors. Levack mine's team of **Oliver Rossi** and **Art Fenske** won \$215 for their suggestion to erect a permanent fireproof building to store valves on the tailings line. There were three awards in the \$75 category. At the Froid Stobie mill, **Douglas Scott** and **James Ilnitski** teamed up to suggest installation of guide wheels and brackets for easier removal of primary and secondary screens. Another Froid Stobie mill team, **Leande Lalonde** and **Ovide Brunet** recommended patching holes in floor plates of Denver cells and agitating the units instead of removing the plates. **Mark Peterkin**, of Creighton mine, suggested modifications to LM-56 mechanical loader stands; he was presented with the third \$75 award. **Tom Rollins**, of Garson mine, was awarded \$65 for recommending elimination of slinging bars under the mine's No. 2 cage. Awards of \$60 were presented to two employees. **James Armstrong**, of Kirkwood mine, suggested installation of check valves in hot water tank feed lines. **Jean Aubin**, of Copper Cliff North mine, recommended use of a wheel puller to remove ore car wheel. **Allan Kaven**, of Stobie mine, was awarded \$55 for suggesting relocation of the traction control clutch lever on Joy down-the-hole drills. Awards of \$50 were presented to: **Gerald Bourre**, of Froid Stobie mill; **Raymond Lachance**, of Clarabelle mill; **Alan Walker**, of Creighton mine; **Albert Ouellet**, of Copper Cliff North mine; **Gary Patterson** and **Walter Lapointe**, of Copper Cliff North mine; and **Werner Errulat**, of Copper Cliff North mine.



# NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . . .



Inco's Environmental Control Weather Office, located in the Copper Cliff general engineering building, is equipped with sophisticated meteorological monitoring equipment to examine the environment. Several key pieces of equipment were recently added to the modern instrumentation to provide instant, accurate forecasting. Senior environmental control analyst **Frank Bruhmüller**, front, studies the "hardcopy" printed on the new decwriter while senior analyst **Andy McCullough**, left, and computer programmer **Gary Colnam** examine a readout on the new video terminal which displays control data every hour. The recently installed processor, at rear, does all calculations and programs and records the environmental data on changeable discs.



Modern transportation methods take a back seat when you're too young to drive the family car. Sudbury's **Robert Irvine** was sure he had the system beat by getting his dog Macbeth to take him for a skateboard ride. Unfortunately for Robert, the system has its drawbacks, and when nature calls, the lad's transportation takes a break. The youngster has been cautioned about local parking laws and Robert is extra careful not to park too close to fire hydrants. . . .



Inco Plant Tours are not going to the dogs, even though the tour guides took time from their busy schedules to say hello to Baron, Lady and Shannon, three champion Irish Setters from Cedarglow Kennels in Bramalea, Ontario. **Judy Holmes** and her daughter **Tracy** were minding the pets while the rest of their family took a guided plant tour through Inco surface plants. Tour guides **Jack Poirier** and **Bob Fleming** stopped by to "shake-a-paw" with the playful puppies.



## Memories and Music

Every Sunday, at 12:00 Noon, on radio station CIGM-FM in Sudbury, Bert Meredith interviews Inco pensioners. The show features popular music of the 30's and 40's and recollections of the old days in Sudbury and northern Ontario. This month's guests are:

September 4 — **Omer Desormeau**

September 11 — **William Ferby**

September 18 — **Leo Hamilton**

September 25 — **Fred "Paddy" Fox**



The outdoor art show held at St. George's Park as part of International Week in Port Colborne gave many area artists the chance to show off their talents. Above, **Mary Lampman**, wife of machine shop foreman **Doug Lampman**, straightens a painting in her display. Below, **Selma Scapillato**, wife of **Bob Scapillato**, a clerk in the purchasing department, sets up her display in a sunny corner of the park. Even before she had finished setting up, Selma had sold one of the articles on display.



Remember the days of reading, 'riting and 'rithmetic? Students of St. Paul's Separate School can add another "R" to the list — revegetation. Under the direction of **Keith Winterhalder**, assistant professor of biology at Laurentian University in Sudbury, the grades seven and eight classes undertook a project to raise the pH level of a one-acre plot of land in Coniston, in an attempt to colonize a species of native grass. Keith, above left, assigns one section of the plot to, from left, **Lorraine Visentin**, **Jean-Pierre Duhalme** and **Michael Oliver**. Below, the application of agricultural limestone and seeder-sodder fertilizer supplied by Inco is explained by Inco agriculturalist **Tom Peters**. The youngsters preparing to spread the fertilizer are, from left, **Peter Toth**, **David Parisotto** and **Leslie Chisholm**.



# NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . . .



One of the highlights of International Week held recently in Port Colborne was the Saturday afternoon parade. One of the most successful to date, the parade had many marching bands and floats. On hand for the parade was recently crowned Miss Dominion of Canada, **Marianne McKeen**, here seated between two "Mounties" and waving to the thousands who lined the streets to watch the parade.



Several visitors from the United States were treated to an underground tour at Copper Cliff South mine recently. The entourage and guides included, from left, **Bill Moffatt**, Copper Cliff South mine superintendent; **Richard Greene** and **Don Antonsen**, of Inco Inc., New York; **Don McLeod**, mine geologist; **Jim Omdahl**, of Bethlehem Steel; **Larry Moyer** and **Jerry Gerhart**, of Carpenter Technology, Reading, Pennsylvania; **Warren Spear**, of Inco Inc., New York, and **Lyall McGinn**, Copper Cliff mines training supervisor.



Over 100 pints of blood were collected at two highly successful blood donor clinics held at Stobie mine recently. It was the first time a blood donor clinic was held at the mine site, and Red Cross officials are extremely pleased with the fine turnout. Above, geologist **Brent Harris** seems amused by the banter put up by **Arthur Deschamps**, a tandem truck driver. Red Cross volunteer **Madeline Austin** persuaded Arthur to donate his pint with no complications. Below, **Robert Gagnon**, a driller at Stobie mine, passes the time talking with **Josephine Head**, of the Red Cross Corps, and **Diane Acteson**, a registered nurse.







**Elizabeth P. Bond** has been appointed director, government affairs of Inco Limited. Dr. Bond reports to Arthur J. R. Smith, Vice-President, who is responsible for public affairs. Working in close liaison with personnel involved in various aspects of government relations throughout the Inco organization, Dr. Bond will be responsible for developing government relations activities in all areas of basic concern to Inco Limited, including the initiation and maintenance of appropriate contacts between governments and senior corporate personnel, and for organizing and directing relevant research in the field of government affairs.



The Mineral Waste Stabilization Committee, an American group of agricultural specialists concerned with reclamation work and university research, recently honored Inco agriculturalist **Tom Peters** at their annual conference in Billings, Montana. "The award was presented largely for the tailings revegetation work that the agricultural department has been conducting," Tom said, "and it was presented in recognition of the company as well as myself." This is the second trophy of its kind to be presented in the committee's 12-year history, the first of which Mr. Peters presented to Carl Dean, U.S. Bureau of Mines, two years ago.



**Don Phillips**, president and chief operating officer of Inco Metals Company, recently spent three days in Copper Cliff on an extensive orientation tour of company facilities throughout the Sudbury area. Above, Mr. Phillips, second from left, met with local managers for a luncheon meeting at the Copper Cliff Club. From left, **Bob Neal**, manager of the Copper Cliff smelter; **Ron Taylor**, president of Inco Metals Company, Ontario Division; **Bill Buchanan**, manager of matte processing; **Tom Parris**, Ontario Division vice-president, responsible for mining and milling, and **Gordon Machum**, Ontario Division vice-president, responsible for refining and smelting. Below, Mr. Phillips checks a blasthole bit on an in-the-hole drill in an underground stope of Creighton No. 3 shaft. In-the-hole driller **Paul Bertrand** explained the blasthole drilling technique to the distinguished visitor.



# NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . . .



"Count your age by friends, not years," claimed **Percy Gardner** at a birthday party sponsored by the Sudbury General Hospital. In celebration of his passing the 90-year mark, Percy was made chairman of the board for the day. Percy has served as a member of the hospital board since he became a member of the original one in 1949, and has been a lifelong member. Extending their congratulations at the party were, seated, from left, **Elaine Brown**, director of hospital communications; Percy Gardner, and executive secretary **Fran Copeland**. Standing, from left, **Ron Browne**, assistant executive director of the hospital; **Carl White**, director of finance; **Wayne Wilson**, superintendent of technical services with Inco's process technology section and hospital board director; **Sister Miriam**, executive director of the hospital; **Hugh Judges**, Ontario Division planner of Inco Metals Company and vice-chairman of the hospital board; **Gord Machum**, vice-president of smelting and refining, Inco Metals Company, Ontario Division, and director of the board, and **Ted Silva**, director.



Home gardeners will be inspired by the products of this garden. **Ernest Groux**, a slag boss at the nickel reverb section of the Copper Cliff smelter, grew this 19-inch long English cucumber outside his Whitetfish home. Ernest's wife, **Jeanette**, measured the cucumber and found it to be 5 inches in diameter at its widest point.



The magic touch of Inco's agricultural department has caused a metamorphosis in another section of Copper Cliff. What was once a rocky stretch of terrain has been transformed into a fine play area. According to agricultural department sources, this is just the beginning. Future plans include the installation of a modern play structure, designed by specialists to encourage the child's imagination. An aesthetic barrier provides a sight obstruction to keep the children's minds off industrial activities as well as reducing sound levels that may distract them from their games. The swings are quite popular, according to **Brian and Darlene McKeil**, children of **Joseph McKeil**, a laborer in the Copper Cliff copper refinery casting department.



Nickel Beach in Port Colborne has been a popular summertime spot for many years, and this summer has been no exception. The beach area underwent many changes this year, with new washroom facilities built by Inco and a fence erected by the City of Port Colborne, dividing it into a parking area, with the remaining part devoted to recreation. The beach is owned by Inco and is leased to the city for a token yearly fee.



Crean Hill mine's fine safety performance in 1976 won that mine the All Mines Safety Award for the year. To commemorate this achievement, Crean Hill motorman **Jacob Shigwadja** hooked a rug proclaiming the event. Jacob then presented the rug to mine superintendent **Jim Ashcroft**, who promptly displayed it on the wall of his office for all to see.



Every automobile owner realizes the importance of operating on dependable tires. Similarly, tires play an important role in an efficient scooptram operation. Here, **Lloyd Gamsby**, manager of United Tire, Sudbury Branch, conducts a refresher course, citing the various examples of tire damage and good operating procedure with Stobie mine scooptram operators.

## Appointments

**Ronald Aelick**, safety foreman, safety and plant protection, Crean Hill mine.

**Brian Benham**, specialist, engineering, Copper Cliff.

**John Bennett**, shift foreman, matte processing, Copper Cliff.

**Bernard Cadieux**, safety foreman, Shebandowan mine.

**John Dewulf**, maintenance foreman, Copper Cliff copper refinery.

**Donna Entwistle**, travel agent, personnel, Copper Cliff.

**Donald Freckleton**, senior geologist, field exploration, Copper Cliff.

**William Hodgins**, maintenance general foreman, Iron Ore Recovery Plant.

**Jean Jeffrey**, purchasing clerk, purchasing-warehousing, Copper Cliff.

**Francis Paradis**, mine foreman, Crean Hill mine.

**Jim Phair**, cost analyst, division comptroller's office, Copper Cliff.

**Jim Robinson**, product costing analyst, division comptroller's office, Copper Cliff.

**Roland Roy**, chemist, Copper Cliff copper refinery.

**Donald Sheehan**, area supervisor of industrial relations, employee relations, Levack Mine.

**Gale Villeneuve**, terminal operator, engineering, Copper Cliff.

**Dr. Walter Woychuk**, associate medical director, Copper Cliff.



Move over Andy Capp, the Sudbury Exiles are coming through. The rough and tumble team of rugby players captured a third place recently in the Ontario Jr. "A" rugby championships, held in Toronto, and hold the promise of even better performances in the future. The Exiles call Ethier Field their home base, and, with the help of Inco, have transformed the field into a fine playing area. Coach **Mike Elliott** discusses team strategy with team players **Danny Girolametto**, **Brian Pigozzo** and **Blair Fowler**. Danny and Brian were employed as summer students at Inco operations in Copper Cliff, Blair is employed as a driller at Creighton mine. Blair is the son of **Hilton Fowler**, superintendent of mills.



# DOWN MEMORY LANE . . . DOWN MEMORY LANE . . .

## Remember When . . .

Over the next few months, *The Triangle* will take you back to the Inco days of yore, reprinting articles and photographs from past *Triangles*. In this issue we feature items of note from the 1936 era, the first year *The Triangle* was printed.

## Stack Materials 3-Mile Trainload

It would have taken a train three miles long to transport all the materials used in construction of the new Copper Cliff chimney.

Approximate quantities used in the big job are: 54 carloads of cement, 266 carloads of gravel, 6 carloads of reinforcing steel, 1 carload of timber, 2 carloads of form lumber, 49 carloads of brick, 7 carloads of rock wool insulating material, 7 carloads of steel for tubular tower.

Or a total of 392 carloads.

## NEW WHEELBARROWS

Weighing almost 50 per cent less than the wheelbarrow of conventional type, new models with balloon tires are being made of nickel-aluminum alloy, and will carry a 15 per cent greater pay load.

## New Creighton Shaft Completed

Measuring 30 ft. by 18 ft. 6 ins. outside the timbers, the new six-compartment No. 5 vertical shaft at Creighton Mine has been sunk to the objective of 4,074 ft., and the next chapter in this development is to open up levels from the 42nd to the 52nd, to work the lower orebodies of the mine.

## BASEBALL

Monel Cup winners after a thrilling play-down series turned out to be Barney Barnett's Froodians, who took the measure of Creighton in the finals, two games out of three, the deciding victory being an 8-5 win on September 10, and Beaver's home-run wallop with two on base proving the winning blow. In the semi-finals, Creighton had eliminated Refinery in two straight, and Frood had handed the same medicine to Copper Cliff.



## Prize Cadets

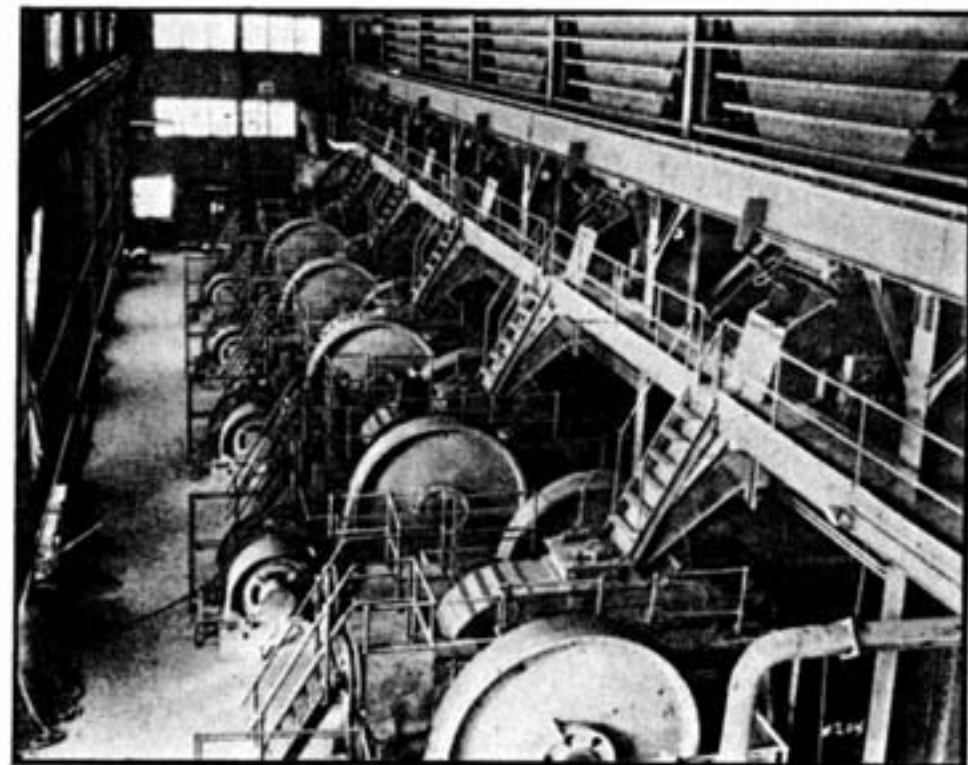
Corporal Wilfred Ripley (left) and Corporal Douglas Gathercole, voted to have maintained the smartest deportment in the year's training in Copper Cliff's smart Highland Cadet Corps, received their prizes at a banquet following the 18th annual inspection of the Corps June 5. The reviewing officer, Capt. J. M. Cumming, of Toronto, heartily congratulated the unit, which he said was the only cadet corps carrying on for more than a very few years without the advantage of affiliation with some parent regiment. Orchids to Lieut.-Instructor Roy C. Barnes! And to his ranks, over 70 strong!

## Many Visitors at Copper Cliff

From all points of the compass come visitors to the INCO plant at Copper Cliff, the peak of the annual parade of sight-seers occurring during August.

Besides the hundreds from Sudbury and other Ontario points, the visitors' register from June 1 to October 1 showed guests from every province in Canada, from England, Scotland, China, Mexico, and Chile, and from the following 26 of the United States:

Michigan, New York, Indiana, New Jersey, Illinois, Ohio, Wisconsin, Oklahoma, Massachusetts, Kansas, Connecticut, West Virginia, Delaware, Maine, Maryland, North Carolina, Minnesota, Iowa, Washington, D.C., Pennsylvania, California, Texas, Montana, Vermont, South Dakota, and Florida.



## It's the Squeeze Play!

If you think the laundry is hard on your shirts, imagine how Mother Earth feels about the way the Copper Cliff concentrator treats her ore-children. Like giant household wringers these Tylor Rolls revolve toward each other at about 108 revolutions a minute, and the unfortunate ores, passing between them, get squeezed to the tune of 36,000 pounds per lineal inch of roll surface.

