

INCO TRIANGLE



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INCO TRIANGLE

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This month's covers



Our new cover is the work of Orest Andrews of the public affairs department. We hope readers like its contemporary design. The mining equipment featured on both front and back covers is described on page 11.

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Triangle photographs available

Prints of most photographs appearing in the Inco Triangle may be ordered direct from: Rene Dionne, 170 Boland Ave., Sudbury. Or call: 674-0474. Cost: \$2 each.

Jean Bechard, a stationary engineer in the iron ore plant's powerhouse, has his picture taken by Gary Foy. For employees' own reference, their present badge number is attached to the back of the new pass with Dymo tape. After the Polaroid picture is developed, it is sealed in the plastic case Jean is holding. Fellow stationary engineers Steve Donovan and Stefanos Tsirikos wait for their turn.



BEFORE



AFTER

Orest Andrews

Name and a face replace the old employee number

An old friend to many employees is about to pass away. It's the familiar metal badge that carried hourly rate employees' Company identification and payroll number. New personalized identification cards are now being issued to employees in the Sudbury area. Port Colborne employees have used the system for several years.

The new passes include a Polaroid picture of the employee, as well as his signature.

First to receive the new cards were employees at the iron ore plant. It took about a week to photograph the 525 men who exchanged their metal badges for the new passes on-the-spot. Lawson Quarry and High Falls employees also carry the new cards now. Crean Hill Mine was the next major plant to receive a visit from the personnel department's camera crew.

Bulletin boards at each plant will announce when and where the camera crew is coming. Because of the large number of employees to be photographed, a firm schedule cannot be drawn up in advance. Most of the photographs are taken before and after shift changes. Employment officer Gary Foy said he had no trouble getting anyone to smile after he placed a pin-up underneath the camera.

The main branches in Sudbury of the six chartered banks and



First to receive his new pass was Mickey Maguire, president of Local 6500, United Steelworkers of America. Mrs. Helen Fasan, stenographer at the Sudbury Employment Office, took his picture.

the five main trust companies have been notified of the changeover. The new card should ensure employees of in-

stant recognition at home and away, and will provide positive identification when cashing pay cheques.





Crops to feed his 20 head of dairy cattle aren't all that Roy Grabell and his wife, Karen, raise on their 50 acre farm as this fine family group will attest. Always willing to help out with the chores are Robin 6, Hiedi 8, Jamie 2, Sam 14, Melodie 11, Kelly 9, Bambi 13, and Sidney 4. Roy is a plating tankman in the electrolytic department of the Port Colborne Nickel Refinery with 17 years' service.

Inco family album



Living in Whitefish is close to Bill Bennett's raise driller job on the 1000 level at Crean Hill Mine. Both Bill and his wife, Agnes, are from Bathurst, New Brunswick. Bill started with the Company in the crushing plant at Copper Cliff in 1959 but transferred to Crean Hill in 1964. His two fishing and hunting partners are Blair 15, and Wally 13. Seated with their mother are Ann-Marie 9, and Laura 5.



Our representative from the Iron Ore Recovery Plant is Murdock Gillis whose family resides in Garson. Murdock is a leaching recovery operator who started at Copper Cliff Smelter in 1948. He has been at the iron ore plant since 1955. Murdock and his wife, Christene, are originally from Cape Breton Island. Their children are Judy 17, Mary Lou 19, an Inco scholarship winner studying at Laurentian University, Betty 16, and Eddy 14.

The Ernie Wunsch family live in Creighton where dad works as a tool fitter at No. 5. Both he and his wife, Sheila, are from Mattawa where Ernie worked with Ontario Hydro. Standing with Ernie from the left are Garth, a geological assistant at Stobie No. 7 Mine and Wayne. Down in front with Mother are Danny 13, and Robin 10. The Wunsch family all enjoy tent-travelling.



Kees Staalstra and his wife, Nel, live in Sudbury. They came to Canada in the '50s from their native Holland. Kees, better known as "Dutchy", started with the Company at the Copper Cliff Smelter in 1959. He transferred to Garson, Creighton and Murray Mines and is now a 1st class garage mechanic at Little Stobie. The Staalstra children are Tony 9, and Louise 6. Dutchy's favorite pastimes include soccer, golf and home renovation.



Harry McKinnon and family live in Copper Cliff where Harry works as an area foreman in planned maintenance at the concentrator. His start with Inco was in 1964. His wife, Sadie, originally from Nova Scotia, works as a Bell Canada operator in Sudbury. Their two children are Alma 10, and Kevin 4. Harry's interests include SCUBA diving, fishing and hunting.



JOE BELANGER

One of the 460 personnel on the transportation department payroll, Joe Belanger is a conductor and is in charge of a train crew and responsible for the movements of his train. He is in constant radio communication with the dispatcher.

Joe's Inco career started in 1947 when he joined the Company as a trackman.

During his years as brakeman and loco engineer he's come to respect the power of freezing rain. "Most weather we can handle in a breeze," he said, "but ice on the overhead conductors — that's something else, a real fireworks display."

With four children, Joe and his wife Lily live in Chelmsford, Joe's hometown.

HOWARD BOLTON

Assistant to the superintendent of transportation, and very rarely seen without an ear to the phone, Howard



WALKABOUT TOURS COPPER CLIFF'S TRANSPORTATION DEPARTMENT

Bolton is responsible for the coordination of train movements between all of Inco's mines and plants in the Sudbury district.

Tied in with both CN and CPR railroad operations, Howard's daily schedules involve the complicated shuffling of some 600 railroad cars.

With Company service dating back to 1947, he started with the transportation department as a trackman, ran the trains, and has held his present job since 1969.

Howard and his wife Alice both hail from Thessalon. Their favorite hide-away is a 320-acre farm 22 miles north of their home town. They have a family of four boys.

RAY HUHTALA

A relative newcomer to the transportation department, Ray Huhtala transferred from process technology four months ago to assume duties as supervisor of equipment rentals. He joined the Company in 1970.

"Along with the other 10,000 or more items handled annually," said Ray with a grin, "sky hooks are regularly in demand." A fleet of 225 trucks are maintained on a permanent rental basis.

Born in Windsor, Ray grew up in Sault Ste. Marie and in



Finland, and was a gold mine mill superintendent at Renabie — north of Wawa — before his move to Inco. He and his wife Shirley have a family of three.

A licenced pilot, Ray enjoys flying into the back-of-the-beyond for his fishing and hunting. Other relaxations include scuba diving, a sport that he instructs.

ANGELO CACCIOTTI

Part of a track switch on a branch line being built from the Copper Refinery main line to the Copper Cliff South Mine, the piece that Angelo Cacciotti is seen gauging and spiking down is called a "frog".

Recent extensions have boosted Inco's total length of standard gauge track in the

Sudbury area to over 100 miles.

A trackman, Angelo has been employed with Inco and the transportation department since 1967, 12 years after he emigrated to Canada from



his home town of Carpenado in Italy.

Off the job and at home on Howey Drive, Angelo spends a lot of his spare time enjoying and entertaining his youngsters. He and his wife Foirina have a king-size brood of seven.

DICK McCORMICK

For a person who is "too restless to work at a job that ties me down in one spot", Dick McCormick has found his niche. A lift-truck operator, he is continually on the move between Inco's surface plants in the Sudbury area, handling equipment and material loads up to 2,000 pounds.

Born in Spanish, some 70 miles west of Sudbury on the north shore of Lake Huron, Dick gained his initial railroad experience with the CN railroad at Brampton, leaving there for International Nickel in 1964.

There's a McCormick settlement springing up on the banks of the Wahnapiat River near Wahnapiat to the east of Sudbury. Dick and two of his brothers are each building homes there.

Dick's wife Jeannette and



their five youngsters are looking forward to living at their future home in the country.

DINO PEDERIVA

Located at Levack, Coniston and Copper Cliff, four scales manned by transportation department personnel record the weight of all incoming and most outgoing railroad cars.

Seen operating the 400,000-pound capacity Copper Cliff west scale is scale clerk Dino Pederiva.

Dino was born in Col. San Martino, Italy, and came to Canada in 1951. He joined Inco in the reverb department in 1953, and moved over to the transportation department in 1956. Before assuming duties at the scale he worked with the track gang, and as brakeman and loco engineer.

He and his wife Maria live in Copper Cliff. They have two school-age youngsters.

HARRY DUBREUIL

On the throttle for the last three years, locomotive engineer Harry Dubreuil has been an Incoite since he finished his army service in 1947.

Harry's Inco career started with the yard gang and included several years as a scale clerk. He was a brakeman when he attended a locomotive engineer training course and later successfully passed examinations concerning locomotive electrics, mechanics and safety.

All locomotive engineers receive a thorough annual medical examination to determine their continued fitness for the job.

Harry was born in Orillia, his wife Helen in Sudbury. They have three sons.



CECE GIROUX

"Sometimes I go into a real juggling act," said train dispatcher Cece Giroux. With three phones and a two-way radio to keep him in touch with all activities of the transportation department, his voice gets little rest during a normal hectic working day.

"I never answer the phone at home," he said with a grin, "and I keep conversation to a minimum — can you blame me?"

The camera zeroed in on

Cece at the Copper Cliff west scale, where, using the department's base station, he maintains contact with all locomotives including those at Levack and Coniston. Yard masters carry portable transceivers for on-the-spot reports.

A native of Cartier, Cece has been with Inco since 1953. He and his wife Joan have a family of six. Two sons are employed at Copper Cliff, Roger in the converter building, and Greg following in his father's footsteps is with the transportation department.



AB KING

One of the department's 11 yard masters, Ab King is very positive about his duties. "My job is to ensure the safe operation of all Inco's rolling stock, and to maintain rapid and efficient distribution of both incoming and outgoing materials," he said.

Currently, Company rolling stock amounts to 26 electric locomotives ranging from 50 to 100 tons, one 65-ton diesel, and in excess of 600 cars in various shapes and sizes for a multitude of specialized uses.

A yard master for the last 10 years, Ab joined International Nickel and the transportation department in 1936. He was born in North Bay and his wife Pearl in Powas-



san. Their son Ross is employed with Inco as a maintenance personnel clerk.

MARSHALL DUFFY

Marshall Duffy made a big step when he left Saint John, New Brunswick, and the deck of a Bay of Fundy towboat to join the transportation department's yard gang at Copper Cliff in 1948.

"The biggest change though," said Marshall, "was in the size of my pay packet. I was suddenly making twice as much."

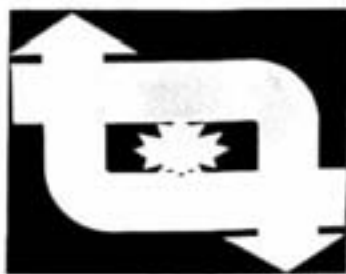
A mobile crane operator, Marshall represents the United Steelworkers of America as a shop steward for Local 6500. On the executive of the union, he is also a member of the negotiating committee.

He and his wife Rose — she hails from Norton, New Brunswick — raised two sons and two daughters but lost one son in 1969. Two grandchildren are already on the scene.





BEHIND THE SCENES AT INCO-SPONSORED LAURENTIAN U. SPORTS



1. Play-by-play for Inco's Sports Cavalcade is by veteran sportscaster Joe Cooke. The color commentary is by ex-NHL great Jerry Toppazini. The programs can be seen on CKNC-TV Sunday afternoons at 2 p.m.

2. "He shoots, he scores!" Another Laurentian goal slides past the Waterloo University Warrior's goalie. The Laurentian Vees won 8-5 in the debut game, during a power blackout in the Sudbury area that caused reception problems for the television audience.

3. CKNC cameraman Claude Tremblay follows the action at the Sudbury arena. CKNC uses two color cameras to cover the Voyageur games.

4. Inside the TV station's mobile trailer, engineer Detloef Krumbecker and director/switcher Ron Goswell are in control. Detloef's job is to make sure everything works; Ron controls the cameras at the arena, and requests special effects or instant replays from the studio.

5. At CKNC's studio, Glen Ferguson controls the instant replays and special effects, such as the show's introduction and theme, at Ron Goswell's request.

6. Dennis Roy's camera at the studio provides the scoreboard, lineups and program credits.

Sports schedule

January 23 — Live Hockey:
Laurentian vs. York

February 6 —
Sports Cavalcade

February 13 — Live Hockey:
Laurentian vs. Queens

February 20 — Live Hockey:
Laurentian vs. Waterloo Lutheran

February 27 —
Sports Cavalcade

March 5 —
Sports Cavalcade

March 12 —
University Sports Roundup

Volunteers' efforts produce 13,000 happy Inco kids

Over 13,000 supercharged youngsters got a special advance interview with Santa Claus at the various annual Christmas parties arranged by faithful helpers at Inco's mines and plants. Not a few parents, too, on hand to escort their children to the parties, appeared just a little envious of the little ones' opportunity to whisper secrets to the jolly men in the red suits.

Over 2,400 youngsters and their parents at the Copper Cliff Athletic Association's party in the Sudbury Arena, were warmed up by a live show emceed by CKNC-TV's popular Joe Cooke. The hour-long show included the Yates Sisters (Frances, Rita and Susan), a trio of youthful singers; the Dell Tones, a musical quartet; baton twirlers Shelly Smith and Sonja Popovich and acrobatic dancer Melissa Viinale; the hilarious vocal imitations of Lorena Trask with pianist Del Edwards; and songs by Espanola's Maria Kozachanko, accompanied by her sister Karen. Star attraction, Santa Claus Jack Latreille, rode the arena's ice-making machine around the rink waving his greetings to the kiddies, sons and daughters of employees working at the smelter, iron ore plant, and Copper Cliff police department. Organizers John Taylor, Norm McGillivray, Ken Fyall and Jim Kuzniar were assisted by volunteers from the plant, accounting and safety departments. Each of the young partygoers received a Christmas stocking filled with candy as they left the arena.

796 youngsters was the head count supplied by Tony Basso, secretary-treasurer of the Clarabelle Open Pit & Copper Cliff North Mines Athletic Association. Held at the Inco Employees' Club in Sudbury, Santa Maurice Lavoie presented individual gifts to each of the children. Pop, hot dogs, and cartoons occupied the young crowd for most of the afternoon. Sharing the chores for arranging the bash were Clarence Weist, Eddie Udeschini, Bill Kallio, Bill Lang, Carl Harper and many others.

Bernie Forest put in a long shift as Santa Claus at the Levack and Coleman Mines Athletic Association's Christmas party at the Levack Employees' Club. During his five hours on the hot seat, he distributed toys and candy to 2,500 children. Harvey Nadeau headed the organizers and was ably assisted by John Bryant, Ron Corelli, Ken Taylor, Connie Tetreault, Ron Matte, Oliver Rossi, Ron Rowe, Chuck McGaughey, Roddy Lalonde, Ron Smith, and others. Sixty surplus gifts and many bags of candy were donated to the Valley School for Retarded Children.

The 350 youngsters at the Coniston Athletic Association's party each took home a big haul of toys, candies and balloons, distributed by Santa Claus Bernie Laplante. Four grease-painted clowns — Jack Garbutt, Charlie Veno, Vern Bidel and Augustino Pietrandrea — kept the kids in stitches with their unpredictable antics. Organizers Reg MacNeil and Marcel Bigras got lots of help from Jack Corrigan, Gary Hebert, Tom Crowley, Julio Baggio, Pat Scott, Pit Rivais. Ugo Comacchio was emcee and in charge of the sing-song.

Santa Dave Gilbert's ear must have been worn out from all the secrets 4,000 young people shared with him at the Froot-Stobie Athletic Association's giant party at the Inco Employees' Club. Each of the youngsters got a gift and candy and fruit from Santa. An hour of cartoons at mid-afternoon provided a break in the proceedings. Bill Collis, attending his first party as area superintendent, Bill Prince and Eldred Dickie headed up the large committee, composed of Norm Whissell, Len Marion, Gary Chicquien, Joe St. George, Ted Flanagan, their wives, and many others. Also on hand were pensioners Bob Brown and Bob Christie, who packed all the bags of candy.

Santa Tom Davies was almost mobbed by the 450 excited youngsters who greeted him at Creighton Mine Athletic Association's party. Cartoons and short movies featuring those perennial favorites, the Three Stooges, kept the auditorium of the Creighton Inco Employees' Club in an uproar. Four local high school volunteers, Louise and Robert Roy, Myles McKay and Billy Dumencu, packed the bags of candy and fruit that each youngster received. Munroe Smith, Bill Dumencu, Saul Sherbanuk, Bruce King, and movie projectionist Lacey Cull, organized the afternoon's fun.

Carson-Kirkwood Mines Athletic Association invited over 900 children to meet Santa Claus Arnie Rollins. Glynn Clarke and Arnie

headed up a huge committee which included Milt Jowsey, Ray Joly, R. Watts, Harry Banasuik, Lou Nicholls, Gary Hunter, Ken Conibear, Jack Wylie, Ken Barlow, Jim Bacik, John Smith, Wayne West, Percy Pilatzke, George Brideau, Howie Borden, Russ Empie, Laurence Burton, Harold Strutt, Ron Pink, Jack MacDonald, Marcel Dufresne and Stu McGregor. Dave Mann produced the gaily decorated tree. Besides a cartoon show, the kids received toys, potato chips, fruit and candies.

The Town of Lively's fire engine replaced reindeer for Ray Chateaufort, who donned the red suit for the enjoyment of 300 kiddies at the Lively Athletic Association's party. Color cartoons and old silent films kept everyone in a happy frame of mind to receive fruit and candy from ole Saint Nick. Heading the list of Santa's elves were Bob Sandberg, Bob Williams, Al Digby, Bob McConnell, Bud Meaden, Al Este, Mason Logan, Harold Howes, Harold Haas, Hank Derks, and others. Town foreman Bill Fortin headed the group who selected Santa's tree.

Hard-working Jack Latreille put in a second appearance as Santa at the Copper Refinery Athletic Association's party at the Inco Employees' Club in Sudbury. Among the overflow crowd of 700 kids were the children of employees at the nickel refinery. Each child received an individual gift and the opportunity to talk to Santa Claus. Helpers Jimmy Tosto, Ted Armstrong, Roger Rochon, Mike Loisselle, Glen Fahner, helped hand out candies and other goodies. A special treat was a showing of movie cartoons. Parents were looked after by Evelyn Fox and Margaret Pawluk, who served them welcome coffee and donuts. Association president Wayne Wilson and secretary-treasurer Bud Eles headed the organizing committee, which included Gerry Coupal, Duncan White and Bob Sandberg.

Snow was flying the day of the Willisville Recreation Club's party for Lawson Quarry and Crean Hill Mine employees living in the community. Recreation Club president Gerry Brownlee and secretary Mrs. Phyllis Nicholls organized the purchase of gifts and the volunteer donations of goodies for the buffet lunch. Bill Hickey wore the red suit and padding this year and distributed wrapped gifts to 60 youngsters, calling each one forward by name. The attractive Christmas tree, which served as Santa's headquarters, was cut by George Quilty.

Over 850 children and their parents were entertained at a Christmas party held at the Port Colborne Inco Recreation Hall. Entertainment included a sing-song of Christmas carols, Herbie the Clown (Don Herbert), and a magician act by Alan and Judith Rossman. Santa (Wesley Pierce) and his helpers Jerry Doan, Ed Mitchell, Jack Rivers, Doug Lampman, Bob Duke, Bill Burgess, Stan Ceply, John Kramer, Elmer Somers, Charles Ott, Bill Kantymir, Gord Hobbs and Don Comi distributed treats to all the children.



Please turn page for more pictures.



*Christmas children
...and God bless the
parents who belong to them*





More comfort coming for the Copper Refinery's tankhouse

Extensive alterations to the west wing of the Copper Refinery's tankhouse are nearing completion. Started last November, the \$440,000 project includes the replacement of two existing heating and ventilation units with three larger models, and the expansion of the existing dry, changing rooms and locker facilities.

Two of the new heating units produce five million BTUs (British Thermal Units, an international heat measurement) and will serve the tankhouse, while the third unit will be tied into the dry and will produce two million BTUs. When operational, they will control temperature in the tankhouse. The new heaters are fired by natural gas which is more efficient than the older steam-operated units.

In preparation for the three-ton heating units, the tankhouse roof was strengthened in November. Six new 1,350-pound steel beams, described as "wide flange" because of their 12-inch width, were welded to the underside of existing beams. New air ducts were also cut in the roof and were tied into the existing heating and ventilation ducts.

The two obsolete heaters were located on the ground floor of the west wing and their removal



A 55-ton rated mobile crane, the largest crane on wheels in northern Ontario, was used to hoist one of the three-ton heating units onto the tankhouse roof. The crane has a 120-foot main boom, and a 30-foot extension, or fly jib, on which the heater is hanging.

created the space to expand the dry. The extra accommodation is needed for the larger workforce expected to operate the electrowinning process. Plumbing for the new showers is about 60 per cent complete, and bases for the new lockers have been installed. The new facilities should be operational by spring.

Crowd helps celebrate Panas' golden wedding

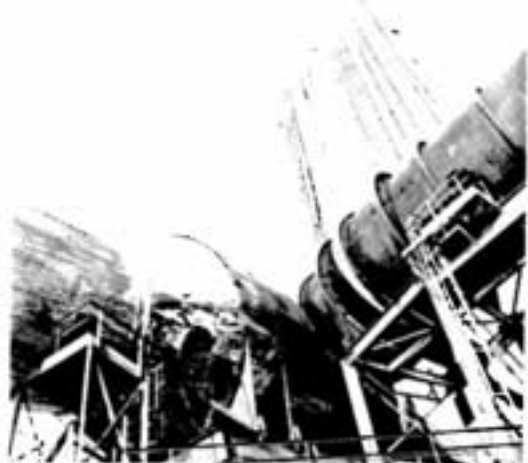
Celebrating their 50th anniversary last month were Harry and Tekla Panas. Over 280 of the couple's family and friends turned out to fete them at the Ukrainian National Hall. A color television and a chesterfield set highlighted the gifts presented to them. A congratulatory certificate from the provincial government was among the greetings received.

Born in 1900 in the village of Dereniwka, Harry married Tekla Omelasz in 1921 in the Ukraine. He emigrated to Canada and joined Inco as a fitter in the

Copper Cliff Smelter in 1926. Three years later, his wife and two young sons were reunited with him. Laid off in 1936, Harry returned to Inco in 1939 as a mucker at Frood Mine. He transferred to surface in 1943 and until retirement worked in the timber yard and tended the lawns and flowerbeds around the mine.

Three sons, seven grandchildren and three great-grandchildren complete the couple's family. Son Mike is a surface laborer at Frood Mine, and Paul is a shaft pipeman at Stobie Mine.

Flanked by their Inco sons Mike and Paul, are Harry and Tekla Panas at their golden wedding anniversary celebration. Third son Bill works for Star Bottling in Sudbury.



Inco's superstack towers 1,250-feet above its flue system, which is designed to carry gases travelling at a top speed of over 55 miles per hour, and at maximum temperatures of 735°.

Countdown starts as tall superstack nears completion

Inco's giant 1,250-foot superstack in Copper Cliff is on the home-stretch to completion, now scheduled for the end of August. Over 800 feet of the steel liner has now been installed, and 80-90 per cent of the flue system, which will be two-thirds of a mile long when finished, has been completed. The flue system is insulated with a nickel stainless steel wrapping over mineral wool and fiberglass to prevent heat loss.

All gases emitted by the new stack will first pass through electrostatic precipitators, which will "scrub" the gases to remove dust. Two new precipitators are being added to the five units now in service, two of which are being enlarged. Internal fixtures and electrical controls for the precipitators are now being installed inside these buildings.

Originally scheduled to come on-stream last December, strikes in the building trades delayed progress and meant construction work had to be caught up during the winter months, which are less efficient.

Design modified

A liner in a tall stack in the United States failed from distortion caused by unequal temperatures. A study of the problem necessitated redesign of the base of the Inco stack liner.

The modified design now in-

corporates a massive girder construction at about the 250-foot level. This will support the upper portion of the liner. Expansion joints have been added in the section of the liner below this level to ensure that distortion will not occur.

Finishing touches to the giant stack will be made during the three-week vacation shutdown in August. Construction equipment will be removed when the flues and precipitators are brought on-line at the same time as the 6-foot 10-inch stainless steel rain cap is added to the top of the stack.

The stack will ensure that both ground level concentrations of sulphur dioxide and dust will be well below the allowable limits currently set by Ontario's Air Management Branch.

Appointments

Copper Cliff

N. C. Hillier, assistant manager, copper refinery;

J. W. Bruins, superintendent, tank house and departments, copper refinery;

W. Brown, superintendent, word and transportation, copper refinery;

J. P. Lindsay, assistant superintendent, casting, copper refinery;

W. G. Johnstone, assistant superintendent of converters, Copper Cliff Smelter.

Unimogs are versatile creatures

Photographed in a drawpoint drift at Creighton No. 3 Mine, while being used to drill a chunk hung up in a box hole, the cover shows one of the mines department's self-contained Unimog secondary drill rigs.

The unit's 90-hp diesel motor, complete with catalytic exhaust scrubber, generates hydraulic pressure for the drill boom and the vehicle's stabilizer arms, and 100-psi pneumatic pressure at 210-cfm for operation of the drill and for pressurization of the machine's drill water storage tank.

Entirely independent of the mine's compressed air and water system, this unit eliminates the necessity for extending air and water headers into many working places together with the constant maintenance that would be required. Blaster boss Vern Morris is at the controls.

On the back cover

This is one of the five Unimog scissor lift-trucks that have been doing their stuff in development headings at Copper Cliff North, Frood-Stobie, and Little Stobie Mines since early last year.

Powered by a 38-hp diesel motor with catalytic exhaust scrubber, the vehicle has four-wheel drive. Hydraulic power used to lift the working platform 10 feet above the ground is provided by a drive train take-off. Lift controls are located on the platform and in the driver's cab.

A very versatile piece of equipment, it is used as a portable drilling platform, for Anfo (blasting powder) loading and pipe installation. With side platforms folded up it doubles as a service vehicle for transportation of supplies.

In the picture, taken on the 500 level at Little Stobie, drillers Albert Laurence and Bill Cottrell are seen roof bolting and screening.



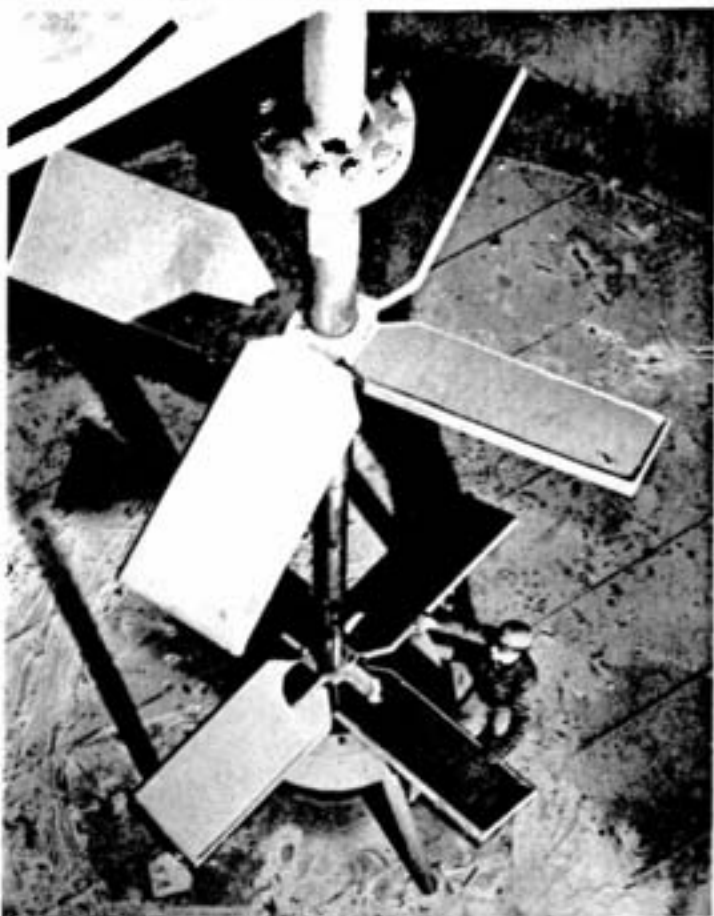
Copper Cliff opens its pool

Copper Cliff's R. G. Dow Community Centre swimming pool was officially opened by Beverly Boys and Mayor Richard Dow last month. During the opening ceremonies inside, Miss Boys gave an exhibition of the diving style that has made her a Canadian and international diving champion. The new pool is half Olympic size and is 82 feet long, 31 feet 4 inches wide and has a maximum depth of 12 feet. There are two diving boards: one three-meter and a one-meter board. The heated pool contains 130,000 imperial gallons of water which is changed every seven hours. During her stay in the Nickel District,

Miss Boys was taken on a tour of Inco's facilities, including the Copper Refinery and Frood Mine, where she met tipple operator Henri Perrier.



Sandman gets new plant at Frood-Stobie



Steel rigger Roger Thibeault gives scale to the huge impeller blades installed at the Frood-Stobie sand plant. Scheduled to go on-stream in mid-February, the new plant has an expected daily production of 9,600 tons, the largest in Canada. It will replace sand fill facilities at the Frood and Stobie Mines.

The new plant is located beside the Frood-Stobie Mill from which it receives mill tailings for classification and separation. Re-

jected fines are pumped to suitable tailings ponds and the good sand is stored in the 1,000-ton capacity agitated tank, shown above, before being mixed with cement for delivery underground.

Each of the eight impeller blades shown in the picture weighs about 600 pounds and is covered with rubber for corrosion and abrasion resistance. The blades are turned at 45 rpm by a 300 hp. electric motor.

Close call for Ray Augustine

Ray Augustine is thankful that Company regulations make it mandatory for him to wear safety glasses. Ray, a carpenter 1st class, is in charge of the box-making gang in the carpenter shop at the Port Colborne Nickel Refinery.

While on routine duties, he passed near the gang saw which was ripping 40-inch long cypress boards into side sticks for stainless steel starting blanks used in the tankhouse. When one of the saw blades struck a knot, a six inch piece of wood broke off, flew sideways a distance of some



six feet and struck the right lens of his safety glasses. Had Ray not been wearing adequate eye protection, a serious eye injury would have occurred.

"No one should have to be sold on eye protection," says Ray. "It's just good common sense."

Inco proposes three-stage plan for development of New Caledonia lateritic ores

New proposals for the immediate and long-range development of a major new nickel-producing operation, based on lateritic ore deposits in the southern part of New Caledonia, are under discussion between the French government and the International Nickel Company of Canada, Limited.

The Company proposes that if agreement can be reached in the near future with the French government, an initial commercial-scale plant requiring an investment of about \$85,000,000 could come on-stream by mid-1974. The new plant would have a yearly output of 15,000,000 pounds of nickel. Some 1,100 persons would be employed during construction, and total operating manpower requirements would be about 400.

The matters requiring an agreement with the French, if the project is to be viable, include the definition of the mining domain, or ore reserves; the establishment of a long-term fiscal regime, and the financial structure of the enterprise.

The Inco proposals were submitted at the suggestion of the French government, following the non-realization of the Cominac project, in which Inco was associated as a minority shareholder with a consortium of French interests. It is anticipated that in the new company Inco would have a majority position, and that there would also be participation by French and possibly other European interests.

The initial plant would represent the first phase of a three-part project that could ultimately produce at least 220,000,000 pounds of nickel annually. The progressive development of the phases leading to this capacity would have to take into account the general development of the international nickel market, and the development of the New Caledonian economy. Inco, who would bear the greater part of the responsibility for the project, considers the only way for the new venture to become truly economically feasible is for it to proceed beyond the first phase.

Despite current nickel market conditions, but barring any un-

expected deterioration in the outlook, the Company is prepared, subject to the necessary agreements being concluded, to proceed immediately with the first phase of the project and the construction of the initial production unit. The initial plant would provide valuable operating and technical experience for the much larger-scale production facilities of the second and third phases, both of which would require extremely large capital investments. A start on Phase II could come as soon as five years after Phase I starts production.

Charsleys celebrate 50 years of marriage

Former long-time residents of Sudbury, Mr. and Mrs. R. Perry Charsley celebrated their 50th wedding anniversary last Novem-



ber in Gravenhurst. A dinner and reception for friends and relatives, organized by their children, recognized the special occasion.

Perry married Myrtle Smith of Sudbury in 1921. They have four children, three daughters and one son, Robert, who is a 1st class welder at Copper Cliff North Mine.

Perry first came to Inco in 1915, starting at the old smelter. He broke his service to fight in World War I, returning to join British America Nickel at Murray Mines. He later transferred to the electrical departments at Creighton and Frood. He retired in 1959 with 35 years' service. The couple moved to Gravenhurst five years later.

Inco linked to Apollo moon shot

Links made of an INCONEL alloy developed by Inco's Huntington Alloy Products Division will be used on the parachutes of the Apollo 16 capsule. The links will connect the parachutes' suspension lines to the risers, the National Aeronautics and Space Administration says.

The use of INCONEL links was decided upon following the failure of the parachute used with Apollo 15. Officials of the Apollo spacecraft program have not determined with certainty the cause of the previous failure, but flaws were detected in the steel links on the one Apollo 15 parachute recovered. The parachute which failed was not recovered, but the possibility exists that enough of the links could have failed to permit collapse, they said.

INCONEL alloys are a family of nickel-chromium alloys known for high strength and resistance to corrosion and oxidation.

The two prime crew members of Apollo 16, John Young and Charles Duke, visited the Sudbury area in July to familiarize themselves with meteoric rocks. Their blast-off for the moon is set for April.

Frank Burnet named new assistant v.p.

Appointment of Frank C. Burnet as assistant vice-president, industrial relations, The International



Nickel Company of Canada, Limited has been announced by L. E. Grubb, executive vice-president. Based in Toronto, Frank is responsible for industrial relations in the company's Canadian operations.

Frank Burnet, 51, joined Inco in March 1970 as director of industrial relations. Previously, he was with Canadian Industries Limited in Montreal as employee relations manager. He was with CIL for more than 25 years in a variety of personnel and industrial relations functions.

A native of Manitoba, he received his BA in economics from the University of Saskatchewan in 1940.

Hughie Kennedy top poet at Frood-Stobie



\$100 in prize money was up for grabs again in Frood-Stobie's annual Christmas safety slogan contest. Open to all departments, the 168 entries received came from personnel on surface and underground. First prize winner was Hughie Kennedy, a powderman on 1000 level, Stobie. He's seen kneeling above with John Murray, Stobie Mine superintendent, Sam Pataran, Little Stobie Mine superintendent, Fern Allrehtas, Stobie safety supervisor (kneeling on the right), Eldred Dickie, Stobie

divisional foreman, and Ted Flanagan, Frood Mine superintendent.

The \$15 runner-up prize went to Cliff Bennett, last year's winner, while the \$10 third prize money was won by Leonard Webster.

The 10 winners of consolation prizes were: Lionel Cartier, Franz Starlinger, Thomas Young, Gerald Laframboise, Donald Robertson, James Beers, Eugeniusz Szumska, Ben Beland, John Laframboise, and Robert Derroches.

Inco employee over 51 years that's Alex Godfrey's record

It was quite a record Alex "Scotty" Godfrey took with him when he retired last month: 51 years, 5 months and 29 days, to be exact, as an employee of International Nickel. It's the longest uninterrupted service record amongst all the employees in the Company's worldwide organization.

Alex made a humble start as an office boy in Port Colborne in 1920, interrupting his high school education, to help support his family. By the time he was 16, he had worked in the print shop, time office, pay office and accounting department.

His move to Copper Cliff came in 1928 when the Company was sinking the Frood No. 3 shaft and needed another man in the accounting department. A few months later, he went to Coniston to help in the preparations for the merger of International Nickel and the Mond Nickel Company.

1935 was a good year for Alex. In February he was appointed assistant works auditor, and in June he married Elizabeth Stall, the daughter of a pioneer Sudbury family. The couple has six children, two sons and four daughters.

In 1951, Alex was named works auditor, and in 1957, he became assistant to the vice-president and general manager of the division. Later he became assistant secretary of the Company and holds that position along with that of assistant treasurer of many of our subsidiaries. He worked with nine general managers.

Alex was an untiring worker in the community. He held executive positions in the Chamber of Commerce, YMCA, Salvation Army, Rotary Club, the board of directors of Thorneloe College, his lodge and his church.

600 attend party

Sudbury's Holiday Inn was the site of the huge retirement party for Alex and his wife. Over 600 guests from Inco, the local community and Port Colborne paid tribute to the well-known couple.

Jack Pigott, now in Sydney, Australia, wired: "This is a man who has the longest work record in the Company's history and he deserves special recognition for this loyal service." Inco chairman Henry Wingate's telegram said Alex "has always been his own man."

Richard Dow, administrative assistant to John McCreedy and emcee for the evening, said: "During my years of association with Alex, some 14 in all, his office has always been open and he has often astounded me. His mind is like a computer and he has the ability to carry a heavy work load. For years, he was the first man in the office in the morning, and the last man out at night."

"His overall knowledge of our Company, and operations far surpasses that of any I know. He had a tremendously retentive memory; his retirement will be our loss."



Alex's wife Betty was presented with 18 red roses by Richard Dow, emcee at the party.



A special treat for Alex was a performance of drill and pipe and drum music by the Copper Cliff Highlanders. Later, two of Alex's daughters, Diane, Mrs. Jack Soule, and Susan, danced the Highland Fling and Scottish Sword Dance, to Captain Sam Laderoute's bagpipes.

A special gift from the Copper Cliff Highlanders to their former honorary Colonel was a photograph autographed by each member of the Corps. Captain Sam Laderoute presented it to Alex.



Alex's retirement party was also the occasion of his 65th birthday. Here he blows out the candles on one of the eight cakes presented to him.



Among the gifts Alex received was this set of golf clubs. He was also presented with a Charles Pax carving of Inco's smelter skyline.

John McCreedy, vice-president and Ontario Division general manager, echoed these sentiments, saying: "Alex's quick answers and solutions to many problems will be lost to us."

Also paying tributes to Alex were Frank Zurbrigg of Toronto, Inco's vice-president, exploration, Stu Augustine, Port Colborne's comptroller, Bill Armstrong, technical assistant, metallurgy, from Toronto, and Bill Groom, president of the Sudbury and District Chamber of Commerce.

Alex says farewell

Recalling his early years in

Copper Cliff, Alex reflected: "When I came here, our Company was on the verge of closing down, and now our Company is having hard times again, but only temporarily. The widespread fingers of many industries are the same way, but the skill and resources we have will make us once again rise to a powerful position."

"In my dealings with people, I have always tried to move across to the other side of the desk, to put myself in the other fellow's position. I have no regrets, no disappointments," he said of his career with Inco.

RETIREMENTS

JAMES KEARNEY

If, as the adage suggests, variety is the spice of life, Jim Kearney has indeed had an interesting one. Retiring as a Town of Copper Cliff police constable stationed in Creighton, Jim's Company service started in 1948.

Born in Belfast, he began working at age 8 as a cabin boy on coal boats which called at various ports in the British Isles. His starting salary was about 75



cents a week. Coming to Canada in 1928, he worked as a city fireman in Toronto; as a fire chief for the American Army at Dawson Creek, B.C., during the construction of the Alaska Highway, and as officer-in-charge of an industrial prison camp.

As a younger man, he boxed and excelled at marathon running, winning the 3, 5, 10, 15, and 26-mile runs at the Toronto Beaches Olympic Club.

His community service included executive posts with the Elks and the Royal Canadian Legion. He was assistant Cubmaster in Creighton and a member and chairman of the Creighton library board.

Considered by many to be the poet laureate of the Nickel Belt, Jim has written more than 500 poems, over 65 of which have been published.

Jim married Helen Pretz in Creighton in 1948. They have four children and four grandchildren. Their daughter, Christine, is married to Creighton No. 5 drift driller Basil Jewers.

PETER PIN

Peter Pin's Company service dates back to 1936 when he started in the Copper Cliff Smelter as a bricklayer. Pete was born in



Italy, came to Canada in 1927, and worked on construction in

the Sudbury area before coming to Inco.

In 1938, Pete transferred to the Copper Cliff Mill where he remained for the rest of his service. He was a thickener operator for the last 12 years.

In 1954, he married the former Eugenia Netto in Sudbury. Mrs. Pin was born in Italy and came to this country in 1949. They have four children and two grandchildren.

The Pins now live in Hamilton where Pete enjoys gardening, fishing and reading.

DANIEL ROY

Dan Roy was born at Maniwaki, north of Hull, Quebec. His start with Inco in 1939 was preceded by 11 years' diamond drilling "all



across Canada". Dan worked 22 years as a haulage driver at the Froid Open Pit.

Dan's wife is the former Therese Bonin of Chelmsford. They were married in Sudbury in 1935.

Dan likes hunting, especially moose, and working in the rock garden at the Roys' Sudbury home. The couple also enjoy short trips in their truck camper.

ANDREJS SEGINS

Andrejs Segins, known as "Andy", spent all his Inco years at Froid Mine. He started with the Company in 1948 and worked as a slusherman on the 600 and 1000 levels.

Andy was born in Latvia and came to Canada in 1948 with his



wife, the former Spodra Bosse. They were married in 1940 in Riga, the pre-war capital of Latvia. They have one son and three grandchildren.

Andy likes reading, gardening and travel. Mrs. Segins shares his interest in the garden but finds time for needlework and grandmothering as well.



At a party given jointly for Adelard Perrin and his boss, Ray Forth, the men and their wives were toasted by over 200 couples at the Caruso Club. The big party was organized by their shift's pension and welfare association. Reverb superintendent Bob Neal thanked the men for their long service on behalf of the Company while wishing them a happy retirement. Bob had his hands literally full when he posed with Adelard (right) and Ray. As well as the traditional safety hats inscribed with the names of all their workmates, the pensioners also received purses and commemorative plaques from the association.

ADELARD PERRIN

Adelard Perrin's start with the Company in 1933 was preceded by three years' work at the paper mill in his birthplace of Sturgeon



Falls, followed by three years on construction in the Sudbury area.

Adelard started with Inco in the Copper Cliff Smelter converter building but transferred a year later to the reverbs department. He spent 25 years as a tapper on the reverb furnaces.

Married in 1926 at Cache Bay to Laurencia Grandchamp, Adelard is the father of five children and the grandfather of 18. Mrs. Perrin was born at St. Gabriel de Brandon just east of Montreal. Two sons, Gilbert and Donald work in the Copper Cliff Smelter as 1st class masons.

Like many pensioners, Adelard spends a lot of time hunting and fishing and enjoys the family cottage near Verner.

KEN WEAVER

Ken and Louise Weaver will have plenty to do in Ken's retirement years. Both are antique lovers — Mrs. Weaver collects dishes and Ken collects and restores old steam engines and firearms. Readers who travel Walford Road in Sudbury may have seen the big steam engines Ken stores in his back yard. As well as her dish collecting, Mrs. Weaver also teaches needlework, specializing in quilting and rugs.

Ken was born at Prince Albert, Saskatchewan, but grew up in Wingham. He started in 1936 in the Copper Cliff Smelter receiv-

ing bins. He transferred six years later to the Froid Open Pit and to the Clarabelle Open Pit when



it opened. His last 10 years were spent as a 1st class garage mechanic.

Married to Louise Wilkins in Sudbury in 1936, Ken is the father of three and the grandfather of nine. Mrs. Weaver was born in Paisley, a southern Ontario town.

EARLE NOLAN

One of the men who kept tabs on the quality control of ore reduction, chemist Earle Nolan has hung up his apron after 30 years with the Company.

Earle was born at Depot Harbour near Parry Sound. Prior to



coming to Inco in 1941, he worked for seven years in Temagami as a chemical assayer. He started in the Copper Cliff Smelter, transferred to the sample house and soon after to the control lab. His work as a chemist began in 1950.

The former Shirley Hawkyard became Earle's wife in Sudbury

in 1936. Mrs. Nolan was born in Toronto. They have two children and two grandchildren.

AKSEL PALGI

Aksel Palgi, known affectionately by his workmates as "Pope", welcomes the new found spare time of retirement —

now he can apply himself fulltime to his musical and hobby interests. For the past 20 years, he has been the teaching director of the St. Matthew's Lu-

theran Church choir and in addition has held the same position for the past six years with the Sudbury Finnish Male Choir. Gardening and nature photography are his hobbies.

Aksel was born in Estonia, came to Canada in 1949 and started a year later with the Company at the Copper Cliff Smelter. He transferred shortly after to the Coniston Smelter where he worked as a trackman throughout his service. Before coming to Canada, Aksel had been a teacher in Estonia for nine years.

He married Parja Loderaud in Estonia in 1942. Mrs. Palgi died in a wartime flight from their homeland two years later.

LEO TOFFOLI

Born in northern Italy, Leo Toffoli came to Canada in 1926. After 10 years' masonry work in Montreal and southern Ontario,



he came to Inco. Leo worked as a cottrell operator in the Copper Cliff Smelter roaster department.

A Montreal girl, Anna Croce, became Leo's wife in 1931. Of their three children, son Rudy is safety supervisor at the Frood-Stobie Mill and daughter Evelyn is married to Steve Gazdic, who works as a plateworker 1st class at the Clarabelle Open Pit. The Toffolis have 11 grandchildren.

The couple enjoys gardening and their efforts have won them the prize for the best garden in Azilda for the last two years.

NICK DUDAR

Both Nick Dudar and his wife, the former Wasylika Martynshyn, came to Canada from the Ukraine, she in 1930 and he in 1926. They were married in

1934 in Creighton where Nick worked for the Company for 38 years. He worked as a powderman for the last 10 years of his service.

The Dudars enjoy gardening at their Waters Township home, and fishing and hunting at their Augusta Lake cottage. Visits from their two children and two grand-



children are also a regular source of enjoyment for the couple.

The Dudars hope to visit the Ukraine in the near future.

Nick asked that the Triangle publish a *thank you* to his friends at Creighton who presented him with a purse on his retirement.

ALEX McDONALD

Alex McDonald started in 1942 in the Copper Cliff Smelter blacksmith shop. Prior to coming to Inco, he tended bar and worked on farms in his hometown area of Thetford, between Sarnia and London. At Inco, Alex was a welder in the blacksmith shop for six years and later worked as a maintenance mechanic in the copper reverbs and coal plant.

His marriage to Margaret Pat-



erson took place in 1935. Of their three children, two are with the Company: Don works in the crushing plant at Copper Cliff, and Loretta is married to Garson Driller Cliff Schroeder. The McDonalds have seven grandchildren.

TOM AMBLER

Tommy Ambler's birth certificate lists Yorkshire, England as his birthplace. Before leaving for Canada in 1930, he worked as a 14-year-old coal miner, a mechanic's apprentice and later as a double-decker bus driver.

Tommy's start with the Company was in 1935. He worked as a maintenance foreman in the Copper Cliff Smelter nickel converter building for 12 years and for the last three



Members of the Maintenance Staff Club gathered at the Italian Club in Copper Cliff to give Tommy Ambler a sendoff. Sectional maintenance superintendent Tom Prior presented him with the traditional cheque for retiring members. Seen in the foreground is Fenton Carson whose retirement was also celebrated that evening. Jack Lilley, manager of smelters, thanked the men on behalf of the company for their long service.

years of his service worked as a zone planner at the Copper Cliff Mill.

Wedding bells rang in Sudbury in 1936 when he married Irene Snowdon. A graduate nurse, Mrs. Ambler is from Manitoba. Their only son, Barry, a motorman underground at Creighton

No. 5 Mine, has presented them with five grandchildren.

Although the Amblers have lived in Copper Cliff for many years, they will move to Manitoba this spring. Tommy will be busy remodeling their new home between trips in the Amblers' travel trailer.

MAC FORSYTHE

Few couples are held in higher regard by more people in the Sudbury area than Mac and Agnes Forsythe. Testifying to this feeling was the packed house at the Caruso Club in Sudbury that gathered to honor the Forsythes on the occasion of Mac's retirement.

Mac was born in Hagersville and grew up there and in nearby Hamilton. After receiving a B.Comm. degree from Queen's



University, he came to Inco at Copper Cliff. His first four months were spent as a puncher on the converters. Shortly after, he transferred to the warehouse and a year later, he moved to the purchasing department. He was general purchasing agent from 1953 until retirement.

Mac passed up a potential hockey career when he turned down a tryout offer with the Chicago Black Hawks but stayed active in the sport by playing five sea-

sons in the old Nickel Belt Hockey League. Active in community affairs, he was president of the Copper Cliff Legion for two years and held the same executive post for one year in the Copper Cliff Curling Club.

Mrs. Forsythe is originally a Copper Cliff girl. Daughter of the late David Small, she was born in Dundee, Scotland, but came to Canada as a girl of 6. The Forsythes were married in Copper Cliff in 1941 and have two children and one grandchild. Mrs. Forsythe was also active in community affairs. A Commissioner in the Girl Guides, she was active in that movement for 12 years; she was associated with the IODE since its inception in Copper Cliff and worked for a dozen years with the Sudbury branch of the Canadian Cancer Society. She was especially involved with the society's follow-up clinics and will resume that work when the Forsythes return to Sudbury for the summer months. They established a winter home in Florida six years ago.

For part of this summer, the couple will visit the United Kingdom. The trip was the gift of the sendoff party organized by Mac's associates in the purchasing department.

