

The Triangle
FEBRUARY 1977

The Triangle

Editor,

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On the cover . . .

High, craggy mountains are rare in the Sudbury district, but that doesn't mean there isn't good skiing available to the dedicated cross-country ski enthusiast, as Bill Koivu, a ventilation assistant at the Copper Cliff South mine, demonstrates in this photograph, taken back of the Lively Golf Club.

From Christmas to the last lingering snort of the March chill (sometimes April) skiers and their favorite milieu are parted only when the demands of work, sleep or family intervene. Blessed with an abundance of snow, skiers in Northern Ontario need only look around if they want a lot of challenge and winter fun.

Cover photo by Peter vom Scheidt

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Inco Limited recently hosted a reception for members of the advisory council to the Laurentian University sports administration program. Many prominent Canadians, actively involved in the field of sports were on hand to discuss Laurentian's sports program, the only course of its type in Canada which concentrates on the two disciplines of physical education and commerce. Pictured with Ron Taylor, centre, president of the Ontario Division of Inco Limited, are Dr. Bob Wanzel, left, chairman of the sports administration program at Laurentian University, and Lou Lefave, president of the national sports and recreation centre. Jim Fanning, general manager of the Montreal Expos, Brian O'Neill, executive director of the N.H.L., Bill MacFarland, president of the W.H.A., were but a few of the many well-known personalities in attendance.

Appointments

Eric Allen, planner, Stobie mine.

Robert Bennett, project geologist, field exploration, Copper Cliff.

Larry Cochrane, supervisor, surface drills, Copper Cliff.

Earl Hanna, mine geologist, Creighton mine.

Wilmer Hughes, supervisor, cost control, engineering, Copper Cliff.

Milt Jowsey, assistant to the vice-president, mining and milling, Copper Cliff.

John Kelly, manager, Shebandowan.

Eric Kossatz, manager, Levack complex.

Jack Longston, supervising buyer, purchasing and warehousing, Copper Cliff.

Lloyd MacTaggart, water treatment technician, central utilities, Copper Cliff.

Paul Marsh, supervisor, development, purchasing and warehousing, Copper Cliff.

Raymond Picard, specialist, engineering, Copper Cliff.

Richard Predon, maintenance foreman, Garson mine.

Gerry Roy, senior timekeeper, Garson mine.

Duane Sly, senior geologist, Crean Hill mine.

Dr. Paula Tyroler, section leader, process technology, Copper Cliff nickel refinery.

Gary Tuomi, supervising timekeeper, Garson mine.

Carol Wing, stenographer, central utilities, Copper Cliff.

Dr. Walter Woychuk, M.D., occupational physician, occupational health department, Copper Cliff.



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Cecil Fleming is a senior timekeeper at Creighton No. 9 shaft. Cec and his wife Marilyn have two daughters, Tricia, 10, and Melanie, 5. Cec is an outdoorsman at heart and counts fishing as his favorite activity.



Meet the Pilon family from Sudbury. Father Andy is an audio visual technician at the Copper Cliff North mine training centre. He and his wife, Wanda, have three children. They are Melody, 16, Tony, 13, and Joycelyn, 2.



FAMILY ALBUM



This month's family from the Port Colborne nickel refinery is that of Ed Pusiak. An auto mechanic in the mechanical department, Ed enjoys building model airplanes. Wife Pauline is employed in a credit union office in Welland, where they live. Their children are, from left, Patrick, 4, Louise, 14, and Eileen, 16.



Bob Ross is a locomotive engineer in the transportation department. He and wife Marguerite have two children; Marc, 3, and Danielle, 6. They enjoy camping in summer, and skating during the winter months.



Rick Cholette, left, plant protection officer, explains the workings of a special first aid instruction mannikin, known as a Resusci-Ann, to Wes Lambert and Ron Bergeron, both process labourers in the smelter's furnace department.

two-day first aid at the Copper



Assuming the recovery position, Len McKerral, copper puncher in the converter department, proceeds to revive his "unconscious patient", Vic Lavigne, process labourer, furnace department.

It all began two years ago, as a pilot project at Coleman mine; quick success led to its immediate acceptance at Little Stobie mine, then it expanded to include Crean Hill mine, the Copper Cliff copper refinery, and central shops. Now, maintenance field forces and the Copper Cliff smelter are getting in on the act, and the iron ore recovery plant is next on the list.

We're talking, of course, about the company's relatively new concept in first aid instruction — two-day courses which offer, in capsule form, a program of instruction similar to the well-known annual fall instruction course.

The two-day sessions are offered by the safety and plant protection department and are available at most of the company's various locations. In this way, a foreman and his work crew, who work together daily, are kept together as a learning team. Because they're attending the course with people they know, they feel more at ease. And because the learning groups are kept fairly small —

course

Cliff smelter



Plant protection officer Dave Derochie, left, demonstrates the proper method of applying mouth-to-mouth resuscitation to an infant. Watching are George Keall, skimmer, converter department, and Vic Lavigne, process labourer, furnace department.

12 to 16 — the participants receive more individual attention. They're taught either on two consecutive days — as is the case with the smelter, where the course is held on a Wednesday and Thursday — or on one particular day for two consecutive weeks — as at central shops, where the course can be taken on two consecutive Saturdays.

Judging from the positive results and an increase in participants, it seems that the new method is really catching on. Hank Derks, chief first aid co-ordinator, feels that the longer the course runs, the better it gets. "Good use is being made of the audio-visual department at our training and development centre in Sudbury, which means that our presentations are becoming much more interesting. And we now have people assigned on a temporary basis to teach first aid."

The two days of instruction are followed immediately by an examination, which results in the participant obtaining a standard St. John Ambulance first aid certificate.



Showing the proper technique required for applying an arm sling are "patient" Ed Forget, left, process foreman in the converter department, and Parker Tanner, process labourer, converter department.



For the seventh time in the past eight years, the Royal Canadian Sea Cadet Corps Admiral Mountbatten has won the coveted Bartley Bull Award as the best sea cadet corps in Ontario. Positioning the trophy are, from left, Commanding Officer, Gerald Bradley; Navy League representative, Robert Yrcha, and local Navy League representative, Ian Sheppard.

Sudbury Sea Cadets



Five members of the sea cadets in Sudbury have been chosen from cadets all across Canada to attend a three-month Caribbean cruise. Commanding Officer of the corps, Lieutenant-Commander Gerald Bradley, points out some of the areas the cadets will be visiting. Cadets are, from left, Steve Mazalin, Mike Ransom, Rick Dlotte, Mark Aubertin, and Jim McIlveen.

Sub-Lieutenant, Andy McCullough, was recently awarded his Canadian Forces Decoration in recognition of over twelve years' continuous service with the Canadian Armed Forces Reserve. Andy, a senior analyst with Inco's environmental control weather office, received his decoration from Commanding Officer, Gerald Bradley.



... best in Ontario

Three sons and a daughter of Manfred Baader, who works in the estimating department of Inco's general engineering, are all members of the sea cadets' award-winning band. Standing are Tom, a snare drummer, and Mike, on soprano bugle; seated are Susan, soprano bugle, future cadet James, proud father, Manfred, and George with his mellophone.





Can you make them out? These minnows are anywhere from 2 3/4 to 12 inches long.



Minnows are dumped into special sorters to grade them according to size.



Five dozen "minnows to go"! — Tony prepares to pack an order for a local retailer.

From mining to minnowing . . .

It began as a simple idea, back in the early '50's. Inco's Tony Kritz couldn't seem to get enough minnows to satisfy his love for fishing, and plans to breed his own began to take shape.

Today, Tony's Marina in Skead wholesales about 200,000 minnows annually, to numerous outlets in Northern Ontario.

Tony, who joined the company in 1937, has been breeding and hatching minnows on a fulltime basis since retiring in 1969 from Frood-Stobie mine. He has the only such enterprise in our area, and is fully licensed by the Ministry of Natural Resources.

Hatching bait fish is a delicate process, requiring great amounts of skill, knowledge, patience, and instinct; Tony possesses all four qualities, in abundance. With enthusiasm clearly evident, he gave us an accounting of just what's involved . . .

Early spring is spawning time, the beginning; Tony gathers friends and family for an overnight trip to Sheguiandah on the Manitoulin, to obtain fertilized eggs — about a million and a half — which are then carefully transported back to the Marina in two 10-gallon milk cans. Hatching takes from 10 to 14 days, in constantly-moving water that's kept at 56 to 60 degrees. The babies learn to swim in 5 to 10 days — believe it or not, they can't swim a stroke, when they're first born! — and then they're taken to special "ponds", where they're fed daily. A growth cycle will last anywhere from 120 days to two years.

Next comes the "cropping of the ponds", which means skimming off the bigger minnows that are ready for sale. At the Marina, they're put through special sorters, to grade them for size . . . medium, large, extra large, and jumbo's, which, at 25¢ apiece, are anywhere from seven to 12 inches long!

Minnows stay in the ponds during the winter, but it's not a quiet time for Tony; he needs about 80,000 minnows to fill demands during winter months. "Seems I've always never had enough", he says, shaking his head. "A peak week in the summer, I've gone through as many as 500 dozen!"

Right now, Tony has two tanks for his minnows; each holds about 30,000 medium-size minnows. And you should see them! Why, some of his jumbo's are bigger than the fish some people catch!

Tony's Marina can accommodate some 40 boats; there are usually six or seven trailers on hand, and boats and motors are available for rent. "But I'll tell you, if I had to choose between handling the Marina and hatching bait fish, well, the minnows come first. I like to get away to the ponds, it's quiet and peaceful".

Sure sounds good!



The plastic bags are filled with air, then tied, packed on ice, and boxed for delivery.

There's still time to enter The Triangle's Photo Contest

We've been really impressed with most of the entries that have been submitted for The Triangle's Photo Contest. The high quality of work is going to make the judges' decision very difficult indeed.

If you haven't already entered, you still have until the end of February to send in your favorite photos. Remember, the contest is open to all Inco employees and members of their immediate families. For a complete list of rules, refer to the January Triangle.

The photos on this page are a few of

the entries we have received so far. Please keep in mind that these are only samples and not winners. None of the photographs will be judged until the last entry is received, which must be postmarked no later than February 28, 1977.

So enter now — enter often — remember, there is \$500 in prize money up for grabs! One last point, please make sure to enclose a stamped self-addressed envelope if you want your photos returned. The Triangle will not be held responsible for any photos received without the proper return mailer.



This photo was taken by Karla Jirasek, wife of Jiri Jirasek, an instrument analyst in the X-ray department at Inco Limited's J. Roy Gordon Research Laboratory in Mississauga. These two photos were taken with a 120 camera and pasted together. The resulting image was rephotographed to yield the final result.



This is Joey Lepack when he was three years old. The photo was taken by his mother, Patsy, wife of Kenneth, a driller at the Copper Cliff North mine. She used a Polaroid camera to capture the expression on Joey's face after he stubbed his toe. Joey is now six years old.

Photo Contest



This entry was submitted by Jean-Guy Leger, from Azilda. Jean-Guy is the 17-year-old son of Gerry, a drill fitter at Frood mine. The photo was taken with a 35mm camera just off a side road in Azilda. Jean-Guy is a student at Rayside Secondary School.



Joan Worsfold, left, YWCA program co-ordinator, and Dorothy Lundgren, from Sudbury's Visitors and Convention Bureau, go over the latest order of ore jewellery.

Jewellery with

The ore found in Inco's Sudbury area mines is known to produce many products besides the familiar copper and nickel; for example, how many of you know that the ore is also used to provide a unique line of jewellery created and assembled by the Sudbury YWCA?

The Sudbury "Y" utilizes high-grade ore from Inco's Creighton mine. The ore is fabricated into jewellery without being processed in any way and is therefore made available in its natural state, just as it's found underground.

Large chunks of ore are delivered to the Jarrett Centre in Sudbury, where they are broken into usable pieces of smaller size. These pieces are then taken to the "Y"'s main office, located in St. Andrew's Place in downtown Sudbury.

"We make a line of jewellery that can't be found anywhere else in the world," said "Y"' president, Diane Hoskins. Although reluctant to admit it, Diane was instrumental in designing some of the jewellery which has now been in exist-

ence for about three years.

The jewellery is put together by "Y" volunteers, who use a special epoxy resin glue in conjunction with a heat lamp. This particular treatment ensures a permanent bond between the ore and the metal which holds it. In addition, several residents of the YWCA are paid a nominal fee to assemble an exclusive line of tie-tacs and lapel pins, which are made expressly for the City of Sudbury's Visitors and Convention Bureau. In fact, last year more than 30,000 of these special items were distributed by the City to promote the convention trade.

Dorothy Lundgren, acting manager of the Visitors and Convention Bureau, stated that the pins are an extremely popular item. "We receive a tremendous response from people every time the pins are given out; they sure do the job of promoting Sudbury and Northern Ontario."

Pieces of jewellery, which are sold over the counter, range in price from

75 cents to six dollars. The greatest variety can be found at the "Y"'s headquarters on the fifth floor of St. Andrew's Place; other outlets in the city are Birk's, Robert Brown's, the Gift Gallery and the Cedar Gift Shop.

All proceeds from the sale of this special jewellery are used to cover day-to-day operating expenses of the YWCA which, by the way, is a distinct organization from the YMCA. Besides being oriented towards women, the YWCA provides many social needs that are not met by any other organization.

Currently, the YWCA is in the midst of a fund-raising drive and is using a mail campaign for the first time. "We can use all the financial support we can get," said YWCA program co-ordinator, Joan Worsfold.

So, next time you're looking for a unique gift that's exclusive to Sudbury, consider dropping by the YWCA's office in St. Andrew's Place. Besides obtaining an item that says "Sudbury," the money will be going towards a worthy cause.



Two "Y" residents, Theresa Cain, left, and Carmen Lajeunesse, assemble tie-tacs and lapel pins which will be shipped to the Visitors and Convention Bureau.



Gord Miles, an employee at the Jarrett Centre, breaks large chunks of ore into smaller pieces.

a difference



Edith Coleman, administrative assistant of the YWCA, proudly displays some of the unique ore jewellery.



The unique ore jewellery, sold at the YWCA and at various city outlets, is assembled by YWCA volunteers; above, from left, are Gladys Hawkins, Peggy Melkie and Alice Inkster. Thousands of items are shipped annually.

School Stope

... for better miners

Safety is a constant challenge. Around the Inco circuit new and different approaches to improve the type, style and effectiveness of safety programs are introduced quite regularly.

One of the most effective methods of safety familiarization takes place in the school stope, an underground classroom for miners, where the combination of realistic environment and experienced instructors helps to familiarize the newcomer and refresh the memories of veteran miners.

One example of Inco's educational facilities underground is the school stope at Copper Cliff South mine. Presently undergoing an expansion program, it is located at the 550-foot level. Here new employees receive a week of introduction to mining equipment and procedures and an additional week of work with employees in order to study the techniques of drilling. The next three weeks are spent at Copper Cliff North mine, where completed training facilities allow the novice driller a complete study of the drillers' manual.



One of Copper Cliff South mine's unique features is this cribbed raise used strictly by the school stope where novice miners are familiarized with nipping procedures. Here, Royce Blackwood, training supervisor, checks the nipping procedure of shoveller Ray Stephenson. Nipping involves the proper method of moving material from one underground level to another.

Learning the proper drilling techniques takes time, and three weeks of instruction give the beginning miners time to qualify as drillers. School instructor Wally Laalo, centre, points out an old cut to shovellers Robert Tranchemontagne, left, and Ray Stephenson.



Drilling in the right places makes for a safe, clean operation, and Copper Cliff South mine school stope instructor Wally Laalo, right, makes sure shoveller Ray Stephenson is in safe drilling distance from an old cut before operating a jackleg drill.



An Inco Employee For 14 Years:

Aurelle Chartrand Ponders Million Dollar Question—"What To Do With A Million?"

The million dollar question for Inco brakeman Aurelle Chartrand is what to do with the million dollars he won in the Provincial Lottery in January.

An Inco employee for the past 14 years, Aurelle, or "Shortie", as he is known at Levack, held ticket number 2670092 in the last Provincial Lottery. His number was one of five drawn for one million dollars.

"I was working graveyard the night of the draw," he said. "In fact I was working graveyard that whole week, and it wasn't until Thursday, six days later, that I stopped in at the credit union's office in Chelmsford and wrote down the winning numbers of the draw which were posted in the window."

"I checked the number when I returned home and realized that one of the numbers matched my ticket exactly."

"At first I thought that I had copied one of the numbers incorrectly so I took my ticket back for a double check. Sure enough, the numbers matched, but I still didn't believe it."

He visited his brother Henri with the news, and his brother confirmed the results. He definitely had the winning number!

"Shortie" sent the ticket by registered mail to Toronto, The Provincial's head office, and then went back to work for two more shifts before he decided to take time off and drive to Toronto to collect his winnings.

Questioned as to what he will do with his windfall, he said, "I need some time to think about it. The only thing I know for certain is that I'm going to build a house. Right now I'm renting an apartment, so come spring, I'll get myself a house."

"Shortie" has since taken time off to visit California where he'll ponder his

newly acquired fortune. Before he left he was asked if he had purchased tickets for the next draw.

"You bet," he replied. "I picked up two. After all, you never know when lightning may strike twice!"

Aurelle Chartrand, a brakeman with Inco's transportation department at Levack mine, is Canada's newest millionaire. He plans to build a house with some of his winnings.





For those who enjoy cross-country skiing, be sure to mark Sunday, February 13, on your calendar — the date for the Second Annual Inco Loppet and Pancake Breakfast.

The Loppet is a cross-country ski outing that is recreational rather than competitive in nature. So, come on out and enjoy yourself, along with members of

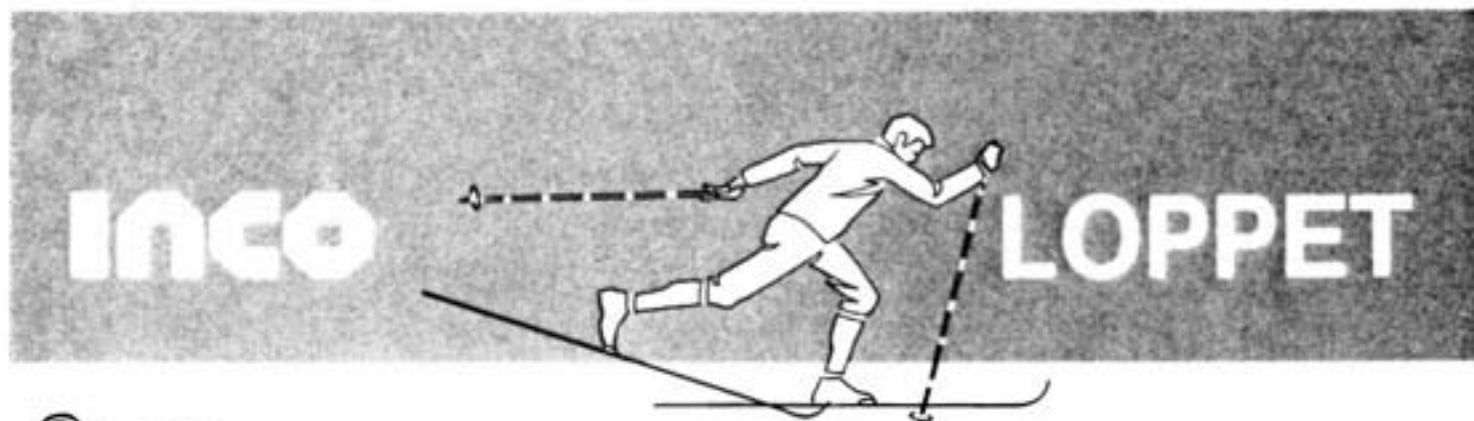
your family. Anyone can enter, and all entrants will receive a certificate of merit along with an Inco Loppet button regardless of how long it may take to complete the course.

This year's Loppet will be held at the Voima Athletic Club, located on Sunnyside Road in Sudbury. There will be three different courses to follow; 10, 15

and 30 kilometers in length — enough variety to suit everyone's needs.

The pancake breakfast will be held prior to the start, from 8:00 a.m. to 10:00 a.m. The Loppet will commence at 11:00 a.m., with everyone hitting the trails in a mass start.

If you haven't already submitted your application, why not send in the handy form at the bottom of this page?



Mail entry form to Simo Kalviainen, Site 38, Box 20, R.R. 4, Sudbury, Ontario, by February 4, 1977.

ENTRY FORM

Name

(Please Print)

Address

Telephone

I wish to enter 30Km (2 x 15km)

15Km

10Km

\$1.00 entry fee per person to be enclosed.

I hereby release INCO LIMITED, the Northern Ontario Ski Division, the Voima Athletic Club, agents, officials or anyone connected with the INCO Loppet from any loss, injury or damage whatsoever incurred from my participation in, or presence at, said Loppet.

Signature of Participant

Parent's Signature, if under 18

To Depths In Excess Of 5,000 Feet:

Deep-Hole Drill Probes For Additional Ore Bodies

A continuing exploration program is the mainstay of the mining business, and the Ontario Division of Inco Limited is no exception. Exploration diamond drilling is carried out on surface and underground in the Company's Sudbury area mines and properties in an effort to locate new ore bodies which can be mined in the future.

A new deep-hole diamond drill is one of two deep-hole machines currently employed in deep exploration of the Copper Cliff Offset dyke. Ore associated with this dyke is mined from the Copper Cliff North and Copper Cliff South mines. The drill, located about midway between the two mines, is probing the dyke at depths greater than 5,000 feet to search for extensions of known ore bodies and to test the potential for new mineral at great depth.

The surface drilling program is conducted by an outside contractor in the Copper Cliff area. The drill rig used is similar to a unit which drilled the deepest

diamond cored hole in the western hemisphere — 11,600 feet near Gaspé, Quebec. Because of drill tower limitations, the drill at Copper Cliff has a depth capacity of 10,000 feet, with an 85-foot tower which allows a 60-foot rod pull.

Some of the more unusual features of the drill include all automatic, hydraulic drilling controls and a recorder; automatic chucking; automatic load control on the drill string; power tongs for "breaking" rods and a high-strength wireline drill string with high pressure joints. The wireline drilling system allows the core to be hoisted rapidly through the drill rods, and a round trip in a 7,000-foot hole only requires about one hour.

The drill rig is operated by a three-man crew, and the drill runner spends more time pushing buttons than swinging a pipe wrench. The diamond driller today requires considerably more technical expertise than did his predecessors, who relied heavily upon the "feel" of the machine.



Larry Cochrane, Inco's supervisor of surface drilling, is busy logging core samples. The samples are collected in boxes, with each box holding 20 feet of core. A careful examination of these core samples will provide Inco geologists with detailed geological information of the area.



Bill Foster, left and Bruno Portler examine an NX Clappison wedge reamer. This specialized bit is used to deflect a diamond drill hole in the desired direction should the hole start to wander. Bill is an Inco diamond drill technician; Bruno is a foreman with Heath and Sherwood, drilling contractors.





A good start is essential for skiing to victory, and this young skier put an all-out effort into the opening race of the Inco Cup. Two days of slalom gave the participants a chance to prove themselves against the challenging course at Nipissing Ridge in North Bay.

Ladies' slalom medalists, from left, Judy Richardson, of North Bay, Christein Heikkila, of Sudbury, and Megan Armstrong, of Sault Ste. Marie, were congratulated on their victories in the second day's events by Ellis Hazen, secretary of the Northern Ontario Ski Division.



The Inco Cup, emblematic of skiing supremacy in Northern Ontario, got under way in early January, and the young skiers of

The first leg of the Inco Cup drew tough competition from the amateur ranks of the Northern Ontario Ski Division in early January. Two days of slalom racing on Nipissing Ridge in North Bay produced some excellent times for the young hopefuls who have been setting their sights on Canada's National Ski Team. The North Bay Ski Racers did exceptionally well in the competition. Under the leadership of coach Pogo Alford, the Gateway City's skiers took home nine of 16 available medals.

During the two-day event, names familiar to followers of the Northern Ontario Ski Division appeared regularly in the final statistics. In the first day's race, Megan Armstrong, of Sault Ste. Marie, took the gold medal, followed by Judy Richardson and Martha Trussler, both of the North Bay club.

Sudbury's own Christein Heikkila, disqualified from the first day's competition, came back in the second day to capture the gold. Judy Richardson again took home her silver medal, and Megan Armstrong dropped to third spot, still good enough to take the bronze. Sudbury's Angela Gougeon distinguished herself both days by picking up the gold medal in the juvenile category.



the northeastern area of this province are starting to pile up the gold, silver and bronze Inco Cup medallions.

In the men's slalom it was North Bay all the way for the first day's competition. Three young skiers from the North Bay Ski Racers took home the medals. First place went to Kevin Cox, second to Ian White, and third to Ian Richardson. Silver winner, Ian White, also took the gold medal in the juvenile category.

Another heavy favorite, disqualified from the first day's competition, Dave Tafel, of North Bay, made a strong comeback in the second day's races to take the top spot. Paul Girolametto, of Sudbury, who is making a name for himself in the national cycling circles as well as on the ski slopes, took the silver medal. Jim Hannigan, of the Soo, also came back from a disqualification to capture the bronze the next day.

The skiers will be looking forward to their next meeting early in February on the slopes of Mount Kanasuta in Rouyn-Noranda. This encounter will be followed by Inco Cup races in Sudbury.

In early March the competition will be held in Sault Ste. Marie.

Following the four events, the Inco Cup will be awarded to the club with the best aggregate showing, indicating a degree of consistency in the abilities of the skiers representing the various clubs.



David Tafel, of North Bay, was presented with a gold medal for winning the men's slalom on the second day of the Inco Cup races. David's father, Dick Tafel, past president of the North Bay Club, presented the medals. Paul Girolametto of Sudbury took the silver medal, with the bronze going to Jim Hannigan, of Sault Ste. Marie.

The North Bay Club took all three top honors in the first day of competition in the men's slalom category. The victors were, from left, silver medalist Ian White, gold medalist Kevin Cox and bronze medalist Ian Richardson. Ian White was also the gold medal winner in the juvenile category of men's competition.





Louis Beres, left, a mine foreman at Creighton mine, and "Red" Lawrence, a stope leader at Creighton No. 5 shaft, unpack their gear to get ready for a day's pickerel fishing on Armstrong Lake, some 30 miles west of Sudbury. The temperature on this particular day hovered around the minus 20 degree mark. Says "Red", "When you're properly dressed, you don't mind the cold."



A "Ski Boose", equipped with a propane heater, is ideal to provide comfort for the fishermen. Louis, "Red", Frank Larsson, a mine foreman at Creighton No. 5 shaft, and James Beres, a jumbo driller at Levack West, assembled the unit in less than 10 minutes. Equipped with runners, it was easily transported to its location by snow machine.

Ice Fishing In

"Red" and Louis are getting set to fasten the fishing line to a branch over the hole. As each angler is allowed two lines while ice-fishing, it is wise to make them up in the warmth of your own home. Also, to help others avoid accidents, leave a frozen branch by your fishing hole as a signal for other fishermen that there are holes in the area.



"People who don't know anything about ice fishing or who tried it only once and half-froze to death, tend to think winter anglers are a bit demented. They just can't imagine anyone spending a day outdoors in winter and enjoying themselves."

So says Louis Beres, a mine foreman at Inco's Creighton mine, who, along with a number of other Inco employees, spent a recent Sunday ice fishing at Armstrong Lake, located some 30 miles west of Sudbury.

"Anyone who attempts to make ice fishermen the butt of ill-informed humor," says Louis, "is only proving his own lack of basic outdoor knowledge. If they want to spend the winter hugging their fireplace and television set, fine, but the loss of a truly fine outdoor experience hurts them, not us."

According to Louis, a variety of equipment comes in handy for ice fishing. A sharp chisel or auger is a must for cutting holes in the ice. Any kind of fishing line — flax, nylon or monofilament will do — but buy the strength of line according to the size of fish you're after.

Perhaps the most important considera-



There's nothing like a hot drink of tea for an instant warmup. Here, Louis, second from right, does the honors. From left, Frank, 'Red', James and Larry Appleby, a maintenance mechanic at Froid mine. Most fishermen take along hot drinks and warm meals in insulated containers, so they can picnic in comfort beside their fishing holes. Coffee, tea or hot soup taste especially good outdoors.



An aerial view of the fishing spot, taken from a helicopter. The ice at this point was 14 inches thick, with the water some 50 feet in depth. Noted for its fine pickerel fishing, Armstrong Lake is four miles long and can be reached via the Old Cartier Highway. Not long ago, one avid fisherman caught a nine-pound pickerel through the ice. "He just about fainted," says 'Red'.

Canada's Great Outdoors

tion is the choice of clothes and footwear.

"A cold fisherman is a miserable fisherman," says Louis, "so don't short-change yourself on comfort." Nylon down-filled parkas, or snowmobile suits are best. Wear waterproof outer boots with a felt liner. "Don't cram your foot into the boot. Leave a gap for airspace to provide natural insulation."

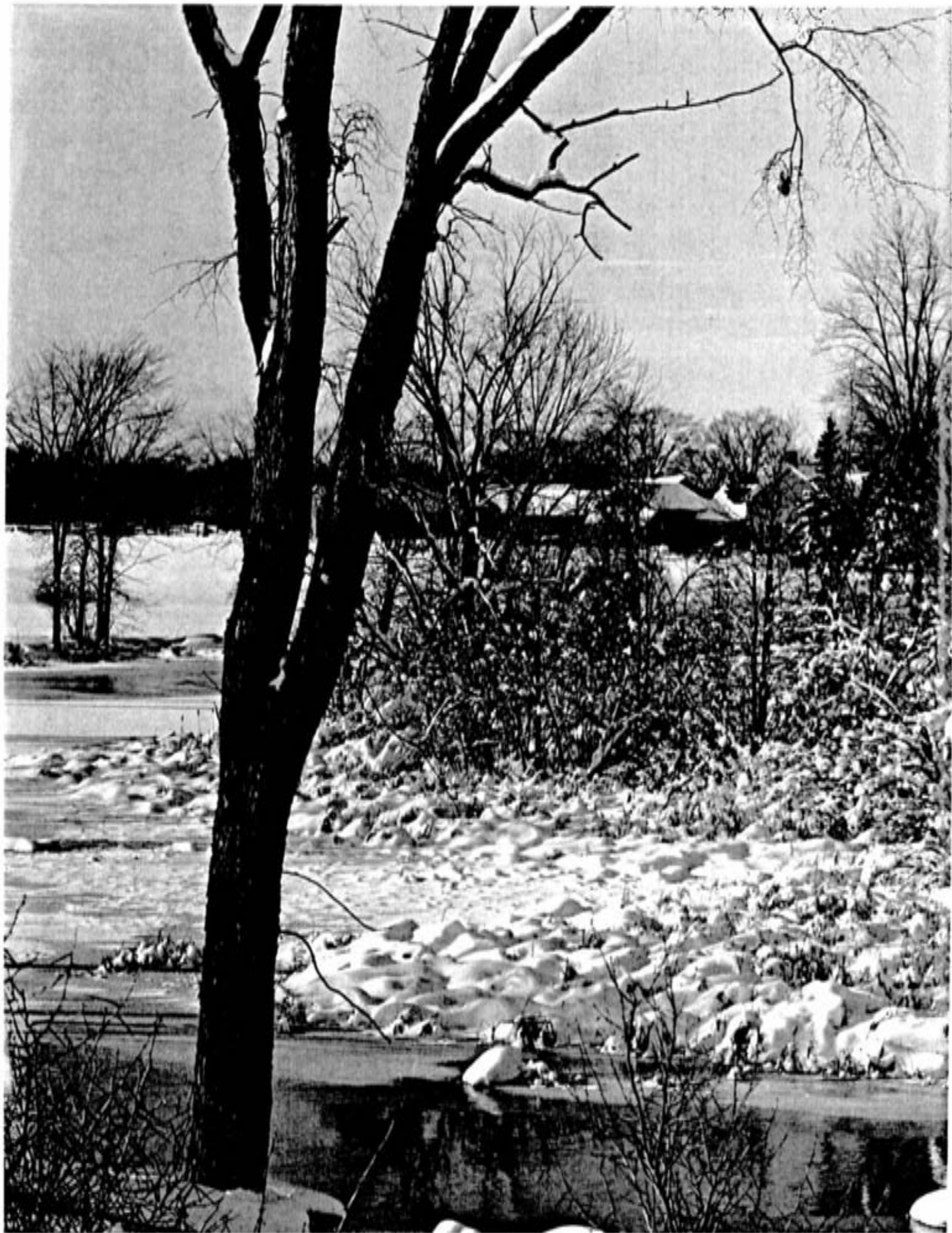
Louis and his friends like to fish near narrows, off points, around islands, or near creek or river inlets. They get into their favorite spots by snow machine. For best results, Louis suggests fishing in 10 to 50 feet of water for lake trout, five to 15 feet for pickerel.

Whether you use live bait or artificial lures, jig or gently move your line in the water, a strike will be exciting. When a strike occurs, Louis jerks the line smartly upwards to set the hook. Then it's a matter of bringing the line in hand-over-hand and pulling the fish on to the ice.

There are some easy guidelines to remember when crossing ice. A skier requires 1 3/4 inches of blue ice to support him; a man on foot needs two inches; a man on a snow machine needs at least five inches of blue ice; and a car or half-ton truck needs eight inches.

Here, Frank and James are using an ice auger to cut a hole in the ice. This particular unit is razor-sharp and will cut through several feet of ice almost as quickly as it takes to talk about it. It's ideal if you lack local knowledge and you want to try different spots and different depths quickly. Any way you look at it, ice fishing beats sitting in the house all winter.







In Winter's Grip



Happy Valentine's Day



Text and illustrations by Amy-Lynn Kneer

The romance of Valentine's Day dates back to Ancient Rome where the feast of Lupercalia was celebrated as a festival for young lovers. Held on February 15th, this occasion presented young men and women with the opportunity to choose partners by drawing names by chance from a box. After having exchanged gifts, some couples continued to court after the festival was over, and a few even ventured on together into marriage.



Today, the original meaning of Valentine's Day remains, although it is now celebrated on February 14th. This is due to a change made by Pope Gelasius in 496 to convert the pagan festival to one with a Christian meaning. It has taken on the name of the saint after whom it was thus named. Each year, it is celebrated on the anniversary of the martyr's death.

There exist today two arguments as to the identity of the St. Valentine after whom the holiday on February 14th was named. Both seem to have been living at approximately the same time in Rome. One involves the life of a priest who was jailed under the Emperor Claudius II for having aided persecuted Christians. It is rumored that this St. Valentine miraculously cured the jailkeeper's daughter of blindness. In A.D. 270, he was beheaded at the site of an old altar to Juno, the Goddess of Marriage. After his death, a gate in Rome became known as PORTO VALENTINI.

The other St. Valentine is recorded to have been the bishop of Terni, near Rome. He was beheaded in Rome in about A.D. 273, having been persecuted for converting a Roman family into Christians.

Many of the superstitions practised in past centuries on Valentine's Day are no longer popular. Nevertheless, such rites are indeed still fascinating to note. If one is desperate to get married, they may prove to be fruitful as a last resort. A few charms are listed below. Only unmarried women are capable of extracting power from these practises:

In order to discover the identity of one's future husband, it is advised to write down the names of one's boy-friends on small strips of paper, and then to roll these in a piece of clay. Next, the clay is to be dropped into water. The name of one's true Valentine should be found written on the first scrap to rise to the surface.

Another superstition involves eating a hard boiled egg and pinning five bay leaves to one's pillow on the eve of Valentine's Day. One should be placed at each corner and in the centre of the pillow. Should this magic charm prove to be effective, one should be able to see one's future husband in a dream that night.

An unmarried girl can also discover if her Valentine loves her by striking her forehead with a folded rose petal. If the petal cracks, he is indeed her true love.

Valentines bearing sentimental messages have replaced the expensive gifts which men once presented to their sweethearts on Valentine's Day. The first man known to make a Valentine card was the Duke of Orleans, who wrote love poems (or Valentines) to his wife in France while he was a prisoner in the Tower of London in 1415.

Today, the art of creating elaborate Valentine cards is dying. Instead of





One of the love poems which has endured the test of time is the one written by Elizabeth Barrett for her lover, Robert Browning.

SONNET XLIII

*How do I love thee? Let me count the ways,
I love thee to the depth and breadth and height
My soul can reach, when feeling out of sight
For the ends of Beings and Ideal Grace.
I love thee to the level of everyday's
Most quiet need, by sun and candlelight.
I love thee freely, as men strive for Right;
I love thee purely, as they turn from Praise.
I love thee with the passion put to use
In my old griefs, and with my childhood's faith.
I love thee with a love I seem to lose
With my lost saints — I love thee with the breath,
Smiles, tears, of all my life! — and, if God choose,
I shall but love thee better after death.*

taking the time to sincerely express one's love through one's own creativity, most people have adopted the easier method of buying a ready-made card. The majority of the people, men especially, who do this, may argue that they could never make cards that would equal in beauty and wit the ones which are already at their disposal.

However, one soon forgets that women, who receive the majority of Valentines, tend to be more impressed or touched by things that come directly from the heart, despite the lack of perfection they may have. To force oneself to be creative in expressing one's feelings — such is the test of true love. Isn't it a pity that such a relatively small number accept the challenge!

February 14th was once believed to be the date on which birds set out to choose their mates.

Cupid, who was known to have relatively good aim, was capable of filling a mortal with love simply by piercing his heart with an arrow.



Garson Mine Employee Receives \$1,035 For January's Top Suggestion Award



Kinahan Hill \$1,035



Ronald Grigg \$455

There were many Inco employees bringing home big money this month from the company suggestion plan. The top prize of \$1,035 went to **Kinahan Hill**, of Garson mine, for a suggestion to allow for a larger opening in roofbolt dollies.

Another big winner this month was **Dennis Bean**, of Copper Cliff South mine, who scored on two ideas. Coming up with a method to separate transmitting and receiving systems on pump controls put \$735 in his pocket. He also teamed up with **Vic Samuels** and found a way to automatically reset pump-failure alarms. The two split \$555 for that suggestion.

Ronald Grigg, of Creighton mine, came up with a method to utilize supply trucks for transporting lugger boxes and won \$455.

Don Hinds and **Ron Morin**, of Garson mine, split \$255 for suggesting the use of scrap pieces of plate to protect the ends of breaker plates.

Marcel Bray, of Little Stobie mine, came up with an idea to transport two vent pipes in a scoop bucket at one time and was awarded \$200.

At the Copper Cliff smelter, **John Toporowski** picked up \$180 for recommending the installation of air conditioning condensers at the number seven reverb lunchroom and the nickel converter shift bosses' office.

The team of **Alex Dure** and **Arthur Mousseau**, from the Frood central repair depot, split a \$120 award for recommending disassembling the Tu-Ilo 500 compressor pulleys by means of a hydraulic motor, operated by the test bench pump.

There were seven winning suggestions in the \$75 category. The team of **Antoine Amayotte** and **Don McGraw**, from Copper Cliff North mine, suggested the use of a collaring bushing on the RMB-7 raise borer to keep the rod string on line; **Mike Campanale**, of Little Stobie mine, came up with an improved method of securing "H" beams to ore pass gate cylinders; **Dave Cochrane**, of Creighton mine, suggested the installation of a light system to clear the

ramp area at Creighton No. 3 shaft in case of emergency; **Romeo Fournier**, of Copper Cliff North mine, suggested the use of lexan shims instead of plywood for guides in the shaft; **Oscar Groulx**, of the Iron Ore Recovery Plant, came up with revised pipe lines going to Eimco disc filters; **Leslie Hunt** and **Normand Bernatchez**, of the Iron Ore Recovery Plant, came up with the recommendation to install an access door on the nickel dryer screw conveyor; **George Sabat**, of Creighton mine, designed a water-blast fogger for air and water lines.

Suggesting modifications to the No. 4 evaporator jet plate at the Copper Cliff copper refinery put \$70 in the pocket of **Dandolo Peroni**.

One award of \$60 was presented to company employees this month as the team of **Gus Lemieux** and **Richard Lemieux**, of Creighton mine, picked up the award.

In the \$50 category, awards were presented to **Robert Charsley** and **Lawrence Coulas**, of Copper Cliff North mine; **Michael O'Neill**, of Central Shops; **John Ralche**, of Copper Cliff North mine; and **Rino Tassarolo**, of Stobie mine.

Awards of \$40 were presented to **Charles O'Reilly**, of Central Utilities, and the team of **Terry Sagle** and **Ben Proulx**, of Levack mine.

Wilfred Salo and the team of **Morris Bilinsky** and **Stefan Bilyj** each split awards of \$37.50 at the Creighton mill.

In the \$35 category, awards were presented to **Weldon Cecile** and **Ernest Schwemline**, of Matte Processing, and **Chris Barker**, of the Frood-Stobie mill.

Awards in the \$30 category were presented to **Marc Delongchamp**, of the Copper Cliff smelter; **Robert Rolison**, of Creighton mine; **Francis Ross**, of the Copper Cliff smelter, and **James Tomasini**, of Central Shops.

The \$25 category saw awards going to **Larry Baker**, of Copper Cliff South mine; **Arthur Dubery**, of Transportation; **Thomas Jennings**, of the Iron Ore Recovery Plant; **Thomas Kozemchuk**, of Central Shops; **Achille Lisi**, of Transportation; **John Miron**,

of the Iron Ore Recovery Plant; **Secondo Moschetta**, of Transportation; **Charles Moss**, of Central Utilities; **Jim Shannon**, of Copper Cliff North mine; **James Tomasini**, of Transportation; **Harold True**, of the Frood-Stobie mill; **Allan Wingrave**, of the Iron Ore Recovery Plant; and **Thomas Winter**, of Garson mine.

Suggestion plan awards of \$20 were presented to **Charles Anstey**, of the Copper Cliff smelter; **Thomas Blanchette**, of the Copper Cliff copper refinery; **Ernest Belanger** and **Robert Fraser**, of the Copper Cliff smelter; **Raymond Dube**, of the Copper Cliff smelter; **Gary Dupont**, **John Miron** and **Bob Turner**, of the Iron Ore Recovery Plant; **Edward Gibbons**, of the Frood-Stobie mill; **Mervin Gibbons**, of the Copper Cliff smelter; two \$20 awards went to **Vaughn Hildebrand**, of the Iron Ore Recovery Plant; **Reg Lemieux** and **Rick Lemieux**, of Creighton mine; **Roger Lalonde**, of Matte Processing; **Reginald Park**, of the Iron Ore Recovery Plant; **Bruno Marassato**, of the Iron Ore Recovery Plant; **Blair Purvis**, of Creighton mine; **Jean-Guy Rivard**, of Central Utilities; **Robert Ross**, of Transportation; **Gerald St. Amant**, of Matte Processing; and **Raymond Wakegijig**, of the Iron Ore Recovery Plant.

In the \$15 category winners were **Gordon Black**, of Creighton mine; **Rheo Charlebois**, of the Copper Cliff smelter; **Robert Charron**, of Creighton mine; **Douglas Corrigan**, of Central Shops; **Gary Dupont** and **John Miron**, of the Iron Ore Recovery Plant; **Jean Paul Gauthier**, of the Copper Cliff copper refinery; **Tom Gauvreau**, of Little Stobie mine; **Vaughn Hildebrand**, of the Iron Ore Recovery Plant; **Raymond Lajeunesse** and **Reg Pilon**, of the Iron Ore Recovery Plant; **Ray Newman**, of the Copper Cliff smelter; **Weikko Pajunen**, of Garson mine; **Clarence Robertson**, of the Iron Ore Recovery Plant; **Roger Russell**, of Creighton mine; and **Don Smith**, of Central Shops.

Winners of \$10 awards were **Jim Campbell**, of Stobie mine; and **Edgar Dore**, of the Iron Ore Recovery Plant.



John Toporowski \$180



Marcel Bray \$200



Vic Samuels and Denis Bean \$555



Don Hinds and Ron Morin \$255

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With a total of 27 "In-the-Hole" drill units now in operation at Inco mines in the Sudbury district, it is imperative that a good supply of new and reconditioned rods is on hand at all times. Present drill rod inventory is in excess of 1,200, with sufficient back-up to maintain scheduled drilling when a replacement string may be required. Above, **Al Kinney**, left, of Rotary Drilling Service, and **Bob Jach**, Ontario Division drilling specialist, inspect culled rods prior to their reconditioning process. Below, a reconditioned rod is being inspected to ensure that it meets required specifications. Measuring the rod for acceptability is **Ernie Weaver**, centre, of Bristol Machine Works, Sudbury. It is interesting to note that over 1.25 million feet have been drilled at Inco's Sudbury district mines since the advent of "In-the-Hole" drilling in 1973.



The underground ramp is becoming a common sight at many Inco operations in the Sudbury district. Ideally suited for moving both men and equipment from the surface to underground workings, the ramp provides a steep road down to the workings of the mine. Here, **Chris Cobbledick**, right, a planner at Little Stobie mine, indicates his approval of the excellent driving demonstrated by geologist **Jack Varleur**. Judging by the smiles of planner **Ian McPhee**, left, and bitman **Allen Janke**, the driver can handle the Unimog like a true professional.



Ken Byberg, left, mines equipment coordinator, and **John Murray**, mine general foreman at Copper Cliff North mine, are co-authors of a technical paper on "Mine Slimes Disposal", which will be presented at the CIM Underground Mining Conference, to be held in Winnipeg later this month. The paper outlines the various slimes problems created from the increased use of hydraulic sandfill, both regular and cemented, at Inco mines in the Sudbury District. It also describes the many modifications made to the mine drainage and pumping systems as well as the various slimes reduction, collection, disposal and clean-up methods.

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Keeping equipment in top operating condition at Ontario Division plants requires the talents of experienced maintenance personnel. At the Iron Ore Recovery Plant this includes the assembly of a double suction centrifugal pump. Here **Ralph Cuomo**, second class maintenance mechanic, and **Morris Gaudette**, first class maintenance mechanic, install the pump's rotating assembly. The unit will go into service as a thickener underflow pump in the IORP pelletizing department. Below, first class machinist **Dick Brown** machines a magnetic separator bearing housing in the IORP machine shop.



Business As Usual

After a delayed start caused by the installation of its ice-making plant, the Copper Cliff Curling Club is back in operation. Ladies', business girls' and men's leagues are all functioning, as is a mixed curling social group. Permission has been obtained from the Ministry of Labor to utilize all sections and facilities of the club, and now it's **BUSINESS AS USUAL!** If you're interested in curling, please phone 682-4861.



That's the new Hagglund Loader and Shuttle Train in operation on the 2050 level of the Copper Cliff South mine. Considered a major improvement in underground drifting, the new system consists of a loader and a number of special cars. The bottom of each 22-ton capacity car is equipped with a chain conveyor which facilitates the transfer of rock from one car to the next. The discharge end of each car is adapted to fit the loading end of the car behind. Thus the chain conveyors form a single, train-long unit. Consequently, regardless of the size of a blasted round, loading and haulage can be carried out in a single, continuous operation. The photograph at right demonstrates a shuttle car discharging its load.



Jim Rutherford, centre, mines ventilation engineer, met recently with first-line supervisors from Copper Cliff mines to discuss mine ventilation, with special emphasis on dust control. Using a number of audio-visual aids, Jim gave informative blackboard talks at each session, including a review of dust sampling instruments. The three-hour sessions were held in the conference room at Copper Cliff South mine.

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Knowing the ropes on the safety circuit has resulted in an excellent safety record for the electrical department at Little Stobie mine. The crew has gone nearly 2,000 safe shifts without a dressing. Some of the members are, from left, **Jack Anderson**, **Bruce Killah**, **Keith Godin**, **Ed Ceming**, maintenance general foreman **Wayne Bontinen** and **Roger Gagnon**. Other members include **Leo Hamilton**, **Eugene Maleszko** and **Denis Santerre**.



Blaster boss **Jack Sinclair**, left, and mine foreman **Ron Aelick** throw the switch that triggered the 480,000-ton blast at Crean Hill mine recently. Although the actual explosion lasted only one thousandth of a second, blast preparations took over two years to complete. This included the drilling of 70,000 feet of longholes, 1,400 feet of "In-the-Holes" and the loading of over 100 tons of explosives. The broken ore will be extracted on the 1800 level.



As part of Inco's continuing program to test hearing thresholds of employees, the audiometric test unit recently visited Copper Cliff South mine. Before the actual testing begins, **Mike Armillotta**, second from left, audiometric technician with the unit, takes care of the necessary preliminaries. Those being tested are, from left, **Pat Landry**, **Joe Aniol**, **Dave Banks**, **Eddie Walach**, **Larry Johnston**, **Maurice Arcand** and **Gary Lonsberry**.



Marlene Moreau of the shipping department at the Port Colborne nickel refinery helps prepare a large poster publicizing this winter's physical fitness program. The schedule runs through April and includes calisthenics, basketball and volleyball at the Inco Recreation Hall every Tuesday, 7:30 p.m. to 9:00 p.m., and swimming at the Centennial Pool on Thursday evenings, from 9:00 p.m. to 10:30 p.m.

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An elated group at the Crean Hill mine recently took delivery of the **All Mines Safety Trophy** for 1976, presented annually since 1961 to the mine with the most outstanding safety record. The presentation was made by **Tom Parris**, Ontario Division vice-president, responsible for mining and milling, far right. The Triangle takes great pride in adding its congratulations for the men's exemplary safety work.



In the Iron Ore Recovery Plant safety office, conveyorman **John Day** performs a daily check on a Scott Air Pack. Needless to say, careful inspection of all safety equipment ensures its peak performance at all times, and attention to equipment, combined with a constant attitude to work safely, have given the IORP an outstanding safety record.



Here is a group of employees of P.T. Inco at Soroako, Indonesia, celebrating three million man-hours without a lost time accident. While this was not achieved under full operating conditions, it is a considerable achievement in that the great majority of employees had little or no experience in heavy industry prior to joining Inco. The record period began May 20, 1975 and is continuing.

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Looking after the logistics for Inco's field exploration department in Copper Cliff is a sizable chore. However, with the help of experienced dispatchers, exploration crews are assured of a constant supply of required equipment. "We supply them with everything but their food . . . mattresses, fridges, lanterns, and even prefabricated cabins," says dispatcher **Reg Foulser**. Above, Reg, left, and assistant dispatcher **Al Beauchamp** take a test run on one of the 23 snowmachines stored at the field storage building in Copper Cliff. The snowmachine tent shelter is used to protect equipment in the field and can be packed and hauled as a sled. Below, prefabricated cabins are disassembled and stored in the building between uses by the exploration teams.



Keen competition among curlers has given that sport a history of success in the Sudbury region. That success promises to continue into the future, judging by the number of people taking part in the sport each year. Some of the area's veteran curlers guarantee a good season with the formation of a new 12-team league, comprised of the best teams in each club. Above, from the Sudbury Curling Club, the Don Harry rink is a team to watch. Standing from left, team members include **Don Harry**, skip, **Peter Wong**, **Spike Boal**, and **Brian Bilodeau**. Below, looking to take top honors is the Bob Coulter rink from the Copper Cliff Curling Club. Team members include, standing, from left, **Bob Coulter**, skip, and **Brian Rodgers**. In front, from left, **Del Borgogelli**, and **John Hause**.



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A walk along the train tracks at Inco's slag dump nearly ended in tragedy for old "Jimmy," the dog who lost his tail under the wheels of a train. Transportation department employees found the dog after the accident and rushed him to the veterinarian, who said it was incredible that the dog should survive such an ordeal. **Dr. Frank Flowers**, left, inspects the battered mascot along with trackman **Ray Sasseville**, centre, and pensioner **Roy Spencer**, a retired foreman at the slag dump. "Jimmy lives up at the dump," said Roy, who last saw the dog seven years ago. "I first saw him in 1959 when he was just a pup, and he adopted the place as his home. Not only does he have a man on each shift providing him with food and a place to sleep, but he's everybody's friend."



If the old adage that "Diamonds are a girl's best friend" holds true, **Dorothy Bell**, of the Copper Cliff bit shop, has thousands of "friends" right in her office, even if they are industrial diamonds, to be used in drill bits for exploration and development drilling. Dorothy is responsible for buying the diamonds from dealers in North Bay, Toronto and New York; and they are weighed and sorted before shipment to Toronto, where they are set into bits. Dorothy is inspecting about 2,000 karats, worth over \$10,300.

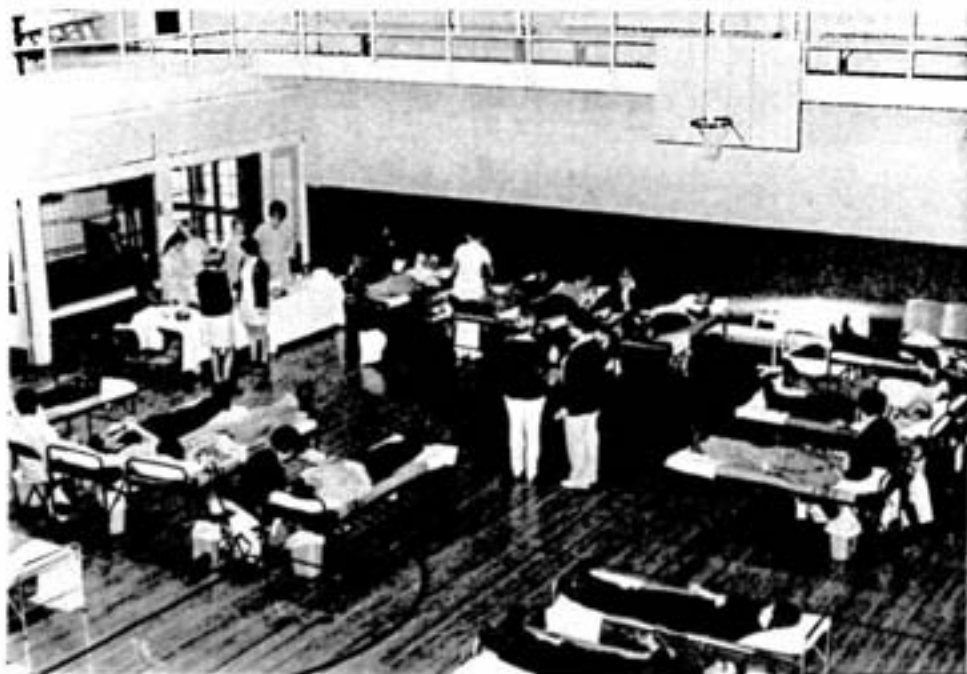


At Inco Limited's Exmibal operations in Guatemala, this boom-type structure is a wet ore stacker, emitting crushed lateritic ore. Mining has begun, and ore is being stored for trial production runs during the spring of 1977. Production of nickel in a 75% nickel matte form will begin later this year. From the stockpile, a loader transports the ore along the enclosed upper ramp, right, to provide feed for the dryer.



A request for clothing from the Lions Club in St. Lucia was met with enthusiastic response from the Azilda Lions Club. The town of Vieux-Fort on the island of St. Lucia in the West Indies had a desperate need for used clothing, so the town, with help from the local Lions Club, turned to their friends in Canada for help. The Azilda Lions had previously donated books to St. Lucia, so their help was again requested when clothing was needed. The Azilda Lions collected over 3,000 pounds of clothing during the course of several months. All of the clothing has since been flown to St. Lucia with the assistance of Air Canada. Packing some of the clothes are, from left, **Mike Hurteau**, a maintenance mechanic at the iron ore recovery plant; **Vik Davelkis**, a foreman at the Copper Cliff copper refinery; **Roland Dugas**, a warehouseman at Levack mine; **Marcel Landry**, an instrumentman at the Copper Cliff nickel refinery; **Stan Murray**, a maintenance mechanic at the Copper Cliff nickel refinery, and **Esko Laasko**, a machinist at the Copper Cliff machine shop.

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An emergency Blood Donor Clinic was held at the Inco Recreation Hall in Port Colborne recently to replenish supplies which dwindled dangerously low during the past holiday season. **Joe Rossi**, safety supervisor at the Port Colborne nickel refinery and blood donor chairman of the local chapter of the Red Cross, made a personal appeal to industrial and civic leaders in the community, resulting in 436 donations; 51 of these were first time donors. The next regular clinic at the Recreation Hall will be held on May 24.



The harbour and parts of the Welland Canal in Port Colborne are usually the winter home to a fleet of some 20 ships. With one of the coldest winters to hit the area, early freezing prevented many of the boats from reaching their winter berth. This is the stern of a ship docked in Port Colborne, with thick ice encrusting its rudder and propeller. Only ten ships will spend the winter in the Port — half the usual number.



Employees and staff representatives gathered recently for the regular monthly meeting of the operations, safety, health and environment committee to discuss ideas concerning the transportation and traffic department. Committee members include: seated, from left, **Rocco Cuomo**, supervisor of track construction and maintenance, **Morris Bertrand**, safety foreman, OSHE co-chairman **Marshall Duffy**, and lift-truck operator **Ron Duffy**. Standing, from left, **Darrel Shields**, supervisor of train operations, **Don Prevost**, supervisor of services, **Wes McNeice**, superintendent of operations, **Benny Kunat**, labourer, **Don Primeau**, brakeman, Waterloo University student **Ross Goard** and trackman **Randy Taylor**.



Lou DeLuca, left, a foreman in the Copper Cliff central shops, presents a clock radio to **Martial Labrosse** during his last day on the job. The boys in the car shop collected money to buy the radio for Martial as a token of their appreciation. Martial, a car repairman, had worked for the company almost 34 years prior to his recent retirement.

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Ice and snow don't stand in the way of progress, even when it comes to boring a 400-foot vertical ventilation raise, seven feet in diameter, on the Copper Cliff North mine property. Although ice does accumulate on the cement pad which acts as a base for the raise borer, **Mike Brisson**, left, raise borer helper, **Wally Kelm**, centre, raise borer helper, and **Brian Dumonski**, raise borer operator, eliminate the problem by spraying calcium on the base until the enclosure that will shelter the equipment from the elements of winter is completed. The temporary enclosure will also house a reactor and hydraulic unit.



One of the coldest winters in many years has caused the waters of Lake Erie to freeze over weeks earlier than usual. The shipping industry has suffered, with navigation brought to a halt much earlier than during the past several years. However, ice fishermen in the area are in their glory by having their season extended considerably. This photograph shows the frozen northern shoreline of Lake Erie, just west of Port Colborne.



A prime example of keeping one's mind on the job is this crew of riggers from Levack mine who have worked one full year without a dressing. Members of the safety conscious crew include, seated, from left, **Armand Brideau**, **Roger Brideau**, **Jerry Perrin**, **Ray Cormier** and **Ken Taylor**. Standing, from left, foreman **Ron Rafuse**, **Bob Langstaff**, **Ron Vallancourt**, **Martin Nowoselsky**, **Hank Bagnell** and maintenance general foreman **Dan Cuomo**. Other crew members include **Cec Chaters** and **Sincialr MacKenzie**.



Operated by contractors since 1949, the Ontario Division of Inco Limited has taken over the operation of the Garson Mine Sandpit, effective January 1, 1977. Located east of the mine site, the pit encompasses 845 acres and supplies 2,200 tons of alluvial sand per day to support the Garson mining operations. An added 200,000 tons per year are also allocated to filling the old workings in the No. 1 shaft area. The above photograph shows the newly-acquired eight-ton loader discharging a load into one of the four 30-ton trucks which transport the fill to the mine site.



During a recent visit to P. T. International Nickel Indonesia, a majority-owned Inco subsidiary at Soroako on the island of Sulawesi, **Tex Davis** was surprised by the size of rhinoceros and elephant beetles found in the area. "The beetles were so big, I didn't think anyone back in Canada would believe me," Tex said, "so I brought a few of them back with me." He captured the beetles after they became attracted to the light outside his billett. "They can fly," he said, "and they're so powerful that they often knock out lightbulbs." At the Iron Ore Recovery Plant in Copper Cliff, Tex, left, displays the insects to **Brad Fitzsimmons**, centre, electrical apprentice, and **Fred Davis**, an electrician. These beetles, incidentally, are quite dead; they were pickled in vodka at the Soroako site and switched to alcohol once back in Canada!



According to **Dennis Lepage**, suggestion plan coordinator, there were nearly 4,300 recommendations submitted to the plan in 1976, with awards totalling over \$61,000. Whereas an average of 82 suggestions per week were submitted last year, it is expected that this figure will increase throughout 1977. Here Dennis, left, discusses one of the many suggestions under consideration with **Peter Souler**, manager of industrial engineering.



An entire shift at Shebandowan mine has gone a full year without a lost-time accident. In honor of the occasion, members of the shift were presented with personalized, inscribed wallets at a safety-award dinner. Front row, from left, **Peter Hodder**, **Bruce Arnberg**, **Greg Hodges** and **Archie Hogan**. Back row, from left, **Dwayne Gorrell**, "Mac" **Rodgers**, **John Kelly**, superintendent of milling and maintenance, **Hans Erl**, mine foreman, and **Ted Chudak**, maintenance foreman. Other members were **Hank Wallinga** and **Bob La Haye**.



You think it costs you money to keep tires on the family car? How would you like to foot the bill for these monsters? Tires for the 75-ton haulage trucks used at Clarabelle Open Pit cost \$4,000 each. The combined weight of tire and rim tips the scales at 3,600 pounds, and it takes a two-man crew 1½ hours to change a tire. **Bernie Castonguay**, left, and **Cal McLeod**, from United Tire in Sudbury, are hard at work replacing one of the tires on this giant truck. The tires last an average of 2,300 hours before retreading is required.

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A faster, more accurate method of arranging business travel has been introduced to Inco's travel office in Copper Cliff with the installation of a Reservac II. The terminal gives the travel office direct and instant communication to Air Canada's computer in Toronto and is capable of booking hotel and plane reservations. The new terminal can also supply information on weather, limousine services, connecting times of flights and many other special services. "It should also eliminate plenty of telephone work," says **Gail Assmann**, Inco's Ontario Division travel coordinator in Copper Cliff. Gail, at left, pays close attention as clerk-stenographer **Ruth Santi** books reservations with the new machine.



A touch of the old country has been added to the office of Copper Cliff North mine superintendent **Grant Bertram**. Grant, second from left, was presented with two miniature figurines depicting a Polish miner and a young lady in native dress. The miner, incidentally, wears an off-duty uniform which indicates the nature of his job at the mine. Examining the models are, from left, **Mike Zakrzewski**, dryman; **Grant Bertram**; **Felix Strong**, car repairman underground; and **Bob Dembek**, construction leader.



First aid training for employees at Inco Limited's Exmibal operations in Guatemala is an integral part of its accident prevention program. Subsequently, Exmibal has initiated the development of safety-consciousness by providing a two-day first aid seminar for its supervisory staff. To better understand the principles of artificial respiration, an "Ambu Simulator" was employed by the instructor, **Leo Pevato**. Demonstrating their first aid skills here are, from left, **Fernando Castaneda** and **Juan Menchu**, of process technology; **Antonio Morales**, of maintenance; and **Ricardo Henry**, of ore processing.



Efforts paid off for graduates of a recent first aid instructor course held at the Port Colborne nickel refinery: when plant manager, **Warner Woodley**, left, presented the men with their certificates. Port Colborne nickel refinery employees receiving the certificates included, from left, **Al Buzzi**, **Wilson Johnston**, **Frank Frangescangel** and **Lino DiPasquale**.

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Inco employees in the Ontario Division set a new record for purchases of Canada Savings Bonds, according to **Jim Fowler**, comptroller of the Ontario Division. In the recently concluded sales campaign, employees bought \$5,492,000 in bonds, compared to \$5,161,400 the previous year. The average bond purchase went up to \$1,086 from \$1,032 in 1975. That's on 5,057 bond applications. In 1975, 4,998 employees bought bonds through the convenient Payroll Deduction Plan. The 1976-77 series offers a coupon of 8.5 per cent in the first year, and 9.25 per cent in each of the remaining eight years, giving an average yield of 9.13 per cent to maturity in 1985. Financial experts describe the new series as having an attractive yield, some saying it's higher than they expected. Thousands of Inco people tend to agree. Checking the final results of the sales campaign in the above photograph are, from left, **Bill Rolison**, hourly paymaster, **Jim Fowler**, and **Jerry Bertrand**, senior deductions clerk.



"Be careful for them" is a common safety slogan around Inco operations, and a smart rule to remember in any situation. Being careful for the children on their way to and from school is the job of crossing guards, a common sight around Copper Cliff. Crossing under the careful supervision of guard **Jim Taylor** are, from left, **Scott Greenough**, **Gerry Lynch**, **Donald Greenough** and **Chris McDermott**, of the Copper Cliff Public School.



Self-described as "the nerve centre of Levack operations", the fellows in the Levack mine time office do play a major role in keeping things running like clockwork. **Ray Holm-Andersen**, seated, points out an interesting item to, from left, **Gord Bennett**, **Marcel Lavoie**, **Leo Paul Montpellier** and **John Bryant**.

Annual First Aid Competitions

Here's your chance to watch
your favorite team in action!

Annual first aid competitions are currently being held for all mines and plants. Arrangements for the section "B" competitions are now complete and will commence as follows:

Copper Cliff Nickel Refinery	Inco Club, Sudbury	Feb. 1	7:30 p.m.
I.O.R.P.	Inco Club, Sudbury	Feb. 2	7:30 p.m.
Copper Cliff mines	Inco Club, Sudbury	Feb. 3	7:00 p.m.
Frood-Stobie complex	Inco Club, Sudbury	Feb. 6	7:00 p.m.
Garson mine	Garson Community Arena	Feb. 6	7:00 p.m.
Smelter complex	Copper Cliff Community Hall	Feb. 10	8:00 p.m.
Port Colborne Nickel Refinery	Port Colborne Recreation Hall	Feb. 10	7:30 p.m.
Creighton complex	Creighton Community Hall	Feb. 11	7:00 p.m.

Quonta Drama Festival

The **Sudbury Theatre Guild** will be host to the annual Quonta Drama Festival in 1977. It will be staged on March 31, April 1 and 2 at the Inco Club on Frood Road. Chairman of this year's Festival is **George MacMillan**, of Copper Cliff. The three-day festival will have entries from the Gateway Theatre Guild, North Bay (Lion in Winter); the Sault Theatre workshop, Sault Ste. Marie (Much Ado About Nothing); and the Sudbury Theatre Guild (Flowers for Algernon). The winning entry in the 1977 Quonta Drama Festival will represent Northern Ontario at the Theatre Ontario Festival in which they will compete for a spot in the Theatre Canada Festival.



Congratulations! Iron Ore Recovery Plant Again Wins All-Plants Safety Award

For the sixth time since 1969, the **Iron Ore Recovery Plant** has again won the coveted **All-Plants Safety Award**. These smiling faces belong to a cross-section of IORP employees who posed for The Triangle photographer with their impressive, hand-carved trophy. According to **George Nowlan**, manager of the IORP, winning the award for his plant's safety standing in 1976 was the result of a concentrated team effort. "Naturally, I'm elated," said George, pointing out that credit for the fine showing should go to each IORP employee.



Dr. Arthur J. R. Smith, vice-president of Inco Limited, was a recent visitor to company operations in Exmibal, a majority-owned subsidiary in Guatemala, where he provided the expatriates with a brief description of the political and economic events in Canada. Here, Dr. Smith presents Certificates of Achievement to graduates of Exmibal's mobile equipment operator and maintenance skills training program. Other personnel assisting in the graduation exercises were **Dieter Schoenefeld, Frank Bocock, Roberto Polanco, Augusto Diaz and Enrique Arce Behrens.**



Originally acquired by Inco in 1930 to provide the Copper Cliff smelter operations with a high silica content sand (80%) used in the smelter operations as flux, the **Garson Sand Flux Plant** was operated by a contractor from 1940 until January 1, 1977, when the Ontario Division took over its operation. Here the sand is excavated, screened, dried and loaded into 80-ton railway cars, which are shuffled with a Trackmobile to the CN pick-up point. Scheduled production calls for 8,500 tons per week. The pit had total reserves of 29 million tons, of which 15 million tons have been removed and 14 million tons are remaining. Once the sand reserves have been exhausted, Inco Limited's land reclamation program has provisions to create a one-mile-long lake with a sandy beach and appropriate vegetation. Supervisor for the pit is provided by **Eric Jacobson**, Garson mine foreman, while maintenance is looked after by the Garson mine maintenance department.

Record Crowd Visits Copper Cliff Greenhouse

A record 6,571 visitors toured the Copper Cliff greenhouse during the 1976 Christmas season Open House, according to Ontario Division agriculturist **Tom Peters**. For the third consecutive year, Inco invited visitors to enjoy the sight and smell of Christmas plants and exotic species from around the world. Highlights of the 1976 show ranged from the first-ever crop of bananas in Copper Cliff to displays of tropical Bromeliads and hanging wall baskets. Visitors were first welcomed to the greenhouse in a scheduled Christmas season program in 1974, when visitor numbers were not recorded. In 1975, 5,200 signed the guest book. While the majority are normally from the Sudbury Region, this year saw visitors from across Canada, ten U.S. states including Texas and California. They also came from England, Finland, France, Italy, Chile and India. Senior tour guide, **Tom Plexman**, said more than 15,000 people toured the Copper Cliff complex during the mid-May to Labor Day period, in the company's regular 1976 tour program. During the remainder of the year, about 4,500 people, mostly in school or service club groups, participated in tours. While total visitor numbers were down in 1976, this can, in great part, be attributed to the year-long U.S. Bicentennial celebrations and the Summer Olympic Games in Montreal, Plexman said.

Road Information

Information on winter road conditions may be obtained around the clock by telephoning the following MTC offices in Ontario:

Toronto	248-3561
Chatham	354-7504
London	681-2047
Stratford	271-3550
Hamilton	527-9131
Burlington	637-5625
Owen Sound	376-7350
Port Hope	885-6381
Kingston	544-2220
Ottawa	745-7049
Bancroft	332-3220
Huntsville	789-2391
North Bay	474-0044
New Liskeard	647-6761
Cochrane	272-4333
Sudbury	522-9380
Sault Ste. Marie	256-5682
Thunder Bay	577-6451
Kenora	468-6494

Logo writer

A school stope instructor at Copper Cliff North mine, Al Cyr is this month's logo writer. With 34 years of mining experience to his credit, Al has come into contact with most aspects of underground mining operations.

Starting at Frood mine as a timberman and driller, Al has worked at the Frood Open Pit, Lawson Quarry, the Copper Cliff smelter, and Levack mine prior to his move to Copper Cliff North mine in 1970.

Needless to say that Al's well-rounded experience in mining, particularly the drilling aspects, have helped numerous underground workers to learn the proper procedures. Having witnessed the many changes in the mining industry over the years, Al has adopted a philosophy which

he applies when instructing in the school stope.

"We want to develop thinking people," Al says. "We are looking for individuals who will be able to adapt to the continually-changing mining industry."

Thinking and changing are not confined to his job, and Al makes sure he also applies it to his personal life. Currently, he is learning to play the guitar his wife, Loretta, presented him with at Christmas. His long-range plans include building a solar-heated cottage on the Vermillion River. "It's still in the planning stages," Al says.

Al and Loretta have seven children, ranging in age from 12 to 20.



Al Cyr, school stope instructor at the Copper Cliff North mine. His hand penned this month's cover logo.

