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On the cover

The top photo shows assistant operator Noel Somers, skimming slag off of the new oxy-fuel furnace at the Copper Cliff smelter. The bottom photo is an interior view of the oxyfuel furnace in operation. Complete story and details on this new smelter innovation start on page 16.

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Inco donates nickel content for "Northern Ontario Dollars"



Waton Newman, right, president of the Ontario division of Inco Metals Company and Aurele Gervais, president of the Association of District Municipalities, lock over a model of the Northern Ontario Pavilion. Mr. Newman presented a cheque for \$11,500 to the Association to cover the cost of nickel used to mint 100.000 "Northern Ontario Dollars" coins.

Inco has donated the nickel control used in the mining of 100,000 "Northern Onlario Dollars " coins which have been struck to promote awareness of a permanent "Northern Ontario Pavilion" at Onlario Place

The coinage, with a face value of one collar during 1980, contains some 3,000 pounds of theo nickel valued at \$11,500. The (hereo of the pavilion, "Critario North Now" is depicted on the coinage.

"Ontatio North Now I will consist of eight mini-pavilions and a 60-toot diameter geodesic-type dome, each depicting a different aspect of life in Northern Ontatio including culture, industry, sports and recreation, natural resources, native people and wildlife.

The idea for an "Ontario North Now" Pavrion was initiated by the Association of District Municipalities which is comprised of municipalities from the ten territorial districts of Northern Ontario Emplementation of the project will be a co-operative venture of the Association, the Ministry of Northern Aflairs and Ontario Place.

The projected completion date for the exterior of the pavilions is May 30, 1990. Work on the interior displays will then commence and "Ontario North Now" will officially open on August 13, 1980, the Lirst day of the Canadian National Exhibition. The theme park will run concurrently with the 1980 C N E. In addicon, the Canadian National Exhibition has designated two days, August 20 and 21, as Northern Ontario Days at the C N E. with activities planned to focus on Northern Ontario and the theme park.

"Ontario North Now" will continue after the CIN Ellas a permanent exhibit at Ontario Place under the supervision of the Ontario Place Corporation

Ontatio North Now will offer northerners an opportunity to display the many facets of their vasi region and give visitors to the exhibit an opportunity to learn more about this lascinating part of Ontario," said Mr. Gervais, president of the Association of Distinct Monicipalities.

April Appointments

Ronald Aelick, division supervisor, mines engineering, Creighton live shaft

Tertiu Aho, terminal operator, engineering, Copper Cliff Gayle Akerman, corporate accounting clerk, Copper Cliff

John Anderson, 9 m. co-ordinator B', Freed mine Mike Anderson, poor soulout, Court

Mike Anderson, cost analyst. Copper Cl:*!

Christopher Bell, division supervisor, romes engineering, Frood mine Daniel Boyd, plant protection officer, Copper Chill

 Jacques Clement, smelter foreman, Copper Cliff.

Jean Cormier, process foreman, Copper Cliff

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Darrell Davison, industrial evaluator.

industrial engineering, Cooper Cliff,

Paul Donato, mineralogisti process technology, Copper Cliff Luclen Dufreshe, chemist, process technology, Copper Cliff Gaston Giroux, buyer, purchasing

; and warehousing, Cooper Cl."

- Robert Grant, research geologist 'B , geological research, Cooper Cliff Norman Koth, mill general foreman Froed-Stoble mill
- Joseph Lebeau, plant protection officer, Copper Clift

Mona Lefebvre, accounts payable clerk, Copper Citt Nadia Lisi, Senio: purchasing clerk

Durchasing and warehousing, Copper Circl Frank Relito, List and attendant

 Frank Malito, List aid attendant. Copper Cliff smelter

John Moore, service estimator, engineering, Copper Cliff

Edward Singbush, maintenance general loternan, Garson ming

Karen Stagg, secretary, Cooper Cliff, nicke, refinery

Brian Stoddarl, mill foreman, Clarabelle mill

Susan Stos, olerkistenographer, industrial engineering, Copper Cliff James Thomson, mine foreman, Creighton live shaft

Edward Woods, utilities engineer. Creighton rive shall

Fred Wright, Instand attendant, copper refinery

J. Roy Gordon dead at 81

J. Roy Gordon, who refired in 1967 us President of Inco Limited, died on April 4, 1920 at his home in Canclewood Islo, New Fairfield, Connecticut after a long it ness. He was 81

Mr. Gordon joined Incolin 1937 is director of the process research cepartment at Copper Cliff, Onlario In 1960, he was elected President of The International Nickel Company of Canada, Limited (now Inco Limited) and its United States subordiary. The International Nickel Company, Inc. and in 1965 Chairman of the Executive Committee of both companies, Incols J. Roy Gordon Research Caboratory, which was opened in 1967 at Shoridan Park hear Toronto, Ontario, is named in his honor.

Student Exchange Program

Children of Incolemployees in Canada who are between the ages of 14 and 16 as of January 1, 1980 will be eligible to participate in an Incol student exchange program

Employees' children in Porj Colborne, Shebandowan, Sheridan Park, Sudbury, Thompson and Toronto will travel to and from their local area to some other company location.

The ourpose of the program is to assist employees' children in gaining a better understanding and appreciation of the different Canadian (egions in which the company operates. The program also hopes to develop greater communications among inco employees and their families in different parts of Canada

The Ganadian Council of Christians and Jews, an organization which currently administers similar programs for many Canadian companies, will assist findo in making the selection of students

Application forms for the program will be available from the employed relations representative in your area. The deadline for submitting completed application forms is May 20, 1980. Full details of the program will be posted in all areas



Glen Gaffney "Art is a challenge to concentration"

The clang and hustle of a printing shop in England and the stark contrasts of life in South America normally don't have much in common. But the experiences have proven to be two main ingredients in the moulding of Glen Gatfney, a struggling artist who works in the tank house at the Copper Cliff copper refinery.

Glen learned the printing trade in his home town of Birdgend and had planned to continue in that line of work when he immigrated to Canada from Britain in 1967. He found, however, that changing technology had created a large pool of unemployed printers in Canada, so he turned his sights to Inco.

In 1973, as a bachelor looking for ways to spend money he took a holiday to South America, visiting Peru, Brazil and Argentina.

"A friend looked at the photos I took on that trip and said 'Glen, that's your subject matter'," Gaffney added.

Although his first attempt "was really pathetic". his work has advanced to the point where it's "sellable", although he's not "terribly motivated by money."

"When I first started, I wanted a hobby that was an individual thing, that I could do at home and was timeconsuming."

Although you can find him painting almost every night in his cosy apartment in Sudbury, he doesn't have a lot of paintings. 'I don't want to produce great quantities of work maybe nine or 10 works a year.'' He's currently working towards the completion of 12 sporting scenes and sees the work being used as a calendar.

His first step in a painting whether the subject matter is a soccer game or a milling crowd of shoppers — is to shoot off a roll of film.

"Most realism artists will confess they use photos as a guide." Gaffney said. "But then you alter the composition and improve the aesthetics."

Although most of his work is in the pointalistic or realism-style, he does

Karsh

dabble in abstract paintings from time to time simply as a tension release.

"Art," he says, "is a challenge to concentration and determination. As your art develops and your observation grows, you are always reaching points where you improve."

A major step in his advancement came when he attended the Schneider School of Fine Arts in Tweed in 1976. Here he improved on his technique and studied the work of other artists. His work advanced to the point where, in 1977, his painting was selected from 900 paintings in a showing sponsored by the City of Montreal. The 150 final selections hung in a chateau in Mount Royal. Other than the competition of having the work accepted, there were no rankings involved.

"I like juried showings," Glen said. "It makes you smarten up."

And although these exhibitions give him the opportunity to sell his work — "I'm more positive about making money with my art now" — he knows too waiting for a buyer can be just that . . . a wait.

"I think there are more people working for a minimum rate than any other profession. It takes time for your name to grow in the art world, sometimes too long. "Your apprenticeship in art is usually over when you're dead ... that is what it boils down to," he adds, only half in jest.

But his name is spreading in Sudbury art circles and his work has been displayed at the Sudbury Museum and Fine Arts Centre, the Rothman's gallery and several businesses in the city.

And although his work is growing in popularity, he has no intention of making any drastic changes in his life.

with a paint brush

"I'm not a lover of big cities I find them very cold. Sudbury is about the size of the town I grew up in. And although there is a larger market for art and the prices are much higher in Montreal and Toronto, you also have 10 times the competition.

"Besides, there are some very positive points about working for Inco ... the money, the security and such. I don't have the best job in the world, but there are thousands out there who would like to have it."

"Sometimes we don't realize how much better off we really are," he stressed, recalling his trip to South America.

Perhaps it was this facet of his make-up that led him to give away his work in the past. But no more. Except for a recent painting he gave to a brother in Ottawa, there's a price attached to everything he does now.

Besides the expense and time involved in producing an oil painting, "people don't really appreciate art unless they have to buy it. But I still have to find out what the market price for my art is."

Besides money, he discovered his work with a brush can bring other rewards.

A while back he purchased an expensive watch, but to his dismay found its reliability was in no way proportionable to the price tag. Neither cajoling nor threatening the local jeweller brought any satisfaction so he tried another tack.

A picture of a large screw impaling both the watch and a self portrait of Glen was sent to the parent watch company in Europe. The message clear, he promptly received a new watch, with a guarantee.

When he starts a painting, there is no guarantee he'll find a buyer when it's completed. "But then, it is a nice way to spend a winter night."



One of Gien Gattney's pointalistic paintings

Chairman's last visit to Sudbury operations





Al Wilta, foreman of the component repair centre, briefs J. Edwin Carter prior to his tour of the centre. In background is Fern Roberts, left, superintendent of the divisional shops and Ashby McC. Sutherland, senior vice-president of Inco Limited.



Machine shop co-ordinator, Bruce Warren. left, gives Mr. Carter a tour of the new machine shop.

Bruce Warren and Mr. Carter chat with Jim Leggat a programmer on the N.C. lathe.

J. Edwin Carter, former chairman and chief executive officer of Inco Limited, visited the Sudbury operations of Inco Metals Company before his official retirement at the annual meeting in April.

The main item on his agenda during his visit was a tour of Inco's new divisional shops complex in the

Copper Cliff smelter. He was briefed on the function of each of the areas in the new shops building and then received a first hand look at the operations on a conducted tour.

While in Sudbury, Mr. Carter was also interviewed by members of the local media.



Bruce Warren and J. Edwin Carter inspect a brake shoe from a mine hoist.



These candid shots of Mr. Carter were taken while he was answering questions during a media interview.



Bunker C oil . . . Pipeline on Wheels



An Inco locomotive, operated by Bob Moore, a locomotive engineer in the transportation and traffic department, hauls seven cars filled with Bunker C oil to the unloading area.

It's often referred to as 'the pipeline on wheels'.

It's a special unit train consisting of 42 cars carrying only one commodity: over 3 million litres of heated (80 degrees Celsius) Bunker C oil to feed the reverberatory furnaces at the Copper Cliff smelter.

Bunker C oil, at room temperature, has the consistency of molasses and is not readily flammable. It must, therefore, be exposed to a high temperature to make it flow.

The Bunker C oil train originates from the Feedstocks and Energy Supply division of Union Carbide Canada Limited in Sarnia. Once a week, the train hauls the unit of cars filled with the warm residual fuel oil (another name for Bunker C) to Copper Cliff where the cars are unloaded by Inco's transportation and traffic department.

In the unloading process, the oil is drained from seven of the 42 cars at one time into seven receiving hatches in a trough situated underneath the track and surrounding concrete. "The unloading cycle for seven cars takes less than an hour," says Morris Bertrand, supervisor of rail operations in the transportation and traffic department. "From the time the valves on the cars are open to the time they are closed, some 25 minutes have elapsed. This includes drip time, allowing the cars to drain completely."

Safety precautions are taken when unloading Bunker C oil, Morris adds. "Each car is grounded before it's unloaded. Any static electricity on the car is neutralized, which prevents sparking. However, as a precaution, an automatic sprinkler system is in place and fire extinguishers are available in the unloading area," he explains. "Men working in that area must wear approved eye protection and must adhere to the 'no smoking' signs. Exhaust fans in the receiving area are activated for ventilation purposes."

From the receiving hatches, the oil flows through an insulated pipeline to storage tanks. The two tanks hold some 16 million litres of Bunker C oil. Each tank is heated to approximately 60 degrees Celsius to maintain oil fluidity.

"The oil is continually heated and flowing," explains Dave Hall, project engineer in the furnace department at the smelter. "At room temperature, Bunker C oil is very thick and therefore must be heated to a high temperature in order for it to flow easily and burn effectively. When it is heated, the oil becomes thinner and combusts more easily."

According to Dave, some 300,000 to 400,000 litres of Bunker C oil are consumed by the smelter daily, depending on the level of production. "The oil is used primarily for firing the furnaces, but can also be used as a back up system to fire the burners, normally fuelled by natural gas, which heats the converters and hot metal cars."

The system design is such that a portion of the Bunker C oil is continuously re-circulated.



Joe Vitiello of the transportation and traffic department activates a control valve which allows the oil to flow from the car to the receiving hatch.



After it drains from the train cars into receiving hatches. Bunker C oil flows through a pipeline to a storage tank adjacent to the smetter.

Inco's John Moland appointed Chairman of Sudbury Advisory Committee

John Moland, supervisor of skills training at Inco's training and development centre, was recently appointed chairman of the newly formed Sudbury Industrial Training Advisory Committee.

According to John, the committee was formed about a year ago because of a shortage of skilled labor in the Sudbury area. "There were shortages in trades such as industrial mechanics, machinists, tool and die makers, plateworkers and moulders."

The committee represents local industries, unions, and educational institutions and will be responsible for identifying problem areas and developing programs to help remedy the situation.

A survey in the Sudbury area will be conducted to try to get some basic information on the skilled job market. The survey is under the direction of Inco pensioner, Syd Stone. Syd worked for Inco for 44 years before retiring and was involved in training and developing skilled labor for the company for many years. Four years prior to his retirement, Syd worked at the training and development centre and during his years in the mechanical and maintenance departments, he was often responsible for training apprentices.

He will be contacting local employers with a questionnaire on skilled labor. He is aiming to have the survey completed by the end of summer.

The results of the survey will be used to set up specific training programs which will be designed to help employers train new employees. Most of the training will be directed towards secondary school graduates and will come in the form of apprenticeship programs with employers.

Sudbury has difficulty, at present.



John Moland, left, and pensioner Syd Stone discuss training.

attracting new industry to the area and the main reason is because prospective employers can't find the skilled people they need. In some cases, local industries cannot bid on contracts due to a lack of skilled labor," said John.

Training people to fill the gap can be very expensive and may be a losing proposition for many local employers. They may not have the equipment needed to train the necessary people and are unable to spare the skilled people they do have, to train others.

For these reasons, the Ontario government has set aside as much as \$10,000 per student for training purposes. The total amount, however, may not be necessary in Sudbury, as there are many training facilities in the city and the student would not be forced to leave Sudbury for the training.



40 Years Ago

Capturing front page honors in the Triangle of April, 1938 was the annual interplant first-aid competition. Coniston won the championship and the R.D. Parker Shield by edging out runners-up ORCO. It was the seventh time in eight years that Coniston won the competition.

The teams were presented with an "accident" and a two minute consultation period after which they administered treatment to the "victim." Doctors also gave each squad member an oral quiz.

Points accumulated in the two-part contest were totalled to determine the winners. Coniston's contingent consisted of captain W. McKee, O. Lapore, R. Moorehead and E. Albert.

It was 42 years ago that the Triangle reported the official opening of the spanking new Employees Club. Even before the formal ribbon cutting ceremony, the Club had become very popular among employees. Among the athletic activities undertaken by visitors were badminton, boxing, wrestling, table tennis, volleyball and billiards. Bowling was one of the most popular pastimes as an average of 700 to 800 games per day were played on the club's alleys.

At the building's opening ceremonies general superintendent R. D. Parker called the structure "a material expression of The International Nickel Company's confidence in the city of Sudbury and the solidity of the industry."

20 Years Ago

In April 1957 this description was given of an old friend's last day on the job:

After bidding her many friends at the loco shop farewell, she quickly but sadly steamed through the lower yard, holding herself proudly with the dignity befitting a lady of her years. Out the gate she sped, passing the new office edition she'll not see completed, and with a short toot of her whistle and a last saucy smoky puff, made for Clarabelle and thence on to Coniston. There she is slated for standby duty the same as has been her lot for many years past at Copper Cliff.

Such was the departure of old No. 22, the last steam locomotive in the company's service. Built in 1911 at the Montreal Locomotive Works, No. 22 worked for six years at the Welland Canal before being assigned to Copper Cliff. Over the years she worked in the roast yards at O'Donnell, the Garson sand pit and Copper Cliff. By the time No. 22 retired, the steam locomotive had been replaced by the electric engine.

10 Years Ago

Ten years ago the Coniston Band. celebrating its 35th year under the guidance of director Dan Totino, was featured in the Triangle following a typically great performance at St. Paul's School. The article reminisced about the band's debut made in 1937 at an Inco Amateur Nights performance at Stanley Stadium. That night long ago the Coniston musicians were resplendent in their red and blue capes with white trousers. Through the efforts of director Totino and the support of the community, the Coniston Band flourished through all those years.



From the April 1957 Triangle is this photo of old No. 22 about to start on her final run at the Copper Cliff smelter. She was the last of the steam locos to be used at Inco.

New supervisory development



At right, Doug McMorran, training supervisor at the copper refinery discusses a subject in the supervisory development program with trainee Kerry Moxam, center, and Bob Fleming, a process clerk in the training department.

In recent years, the role of the supervisor in industry has taken on added dimensions. Not only does his job require a full knowledge of all phases of operation — from industrial relations to timekeeping, from cost control to energy control, it also requires an increased awareness of the working environment, labour regulations, safety and health. Each is an integral part of production. To meet these needs, a new supervisory development program has been initiated.

The program originated at the Copper Cliff copper refinery and was established to upgrade existing supervision and develop new supervisors. Copper refinery training supervisor Doug McMorran was one of the principle designers of this program. According to Doug, the company has provided supervisory training courses for many years but this particular program is the first of its kind.

All employees who participate in the program must first go through a pre-selection process which includes a detailed assessment by their foreman, general foreman and superintendent. "The selected candidates must not only have a good basic knowledge of their immediate work area, but must also have leadership qualities, be people oriented and desire to improve themselves," says Doug. "Response to the program has been very positive in all respects."

The program offers both classroom and field supervisory training. In the initial stages, the trainee learns the fundamentals of supervision through a supervisory induction program, which is an Inco-developed course and the nucleus for the entire program. "The trainee takes all

program established



Bruce Pattison, a trainee of the supervisory development program at the copper refinery, looks over his notes before participating in a group discussion.

functional modules relating to his own department before he undergoes field training," Doug says.

The first eight weeks of field training are spent with two separate shift supervisors, then the trainee goes solo for four weeks or one complete shift cycle. "During this period, the trainee has the opportunity to interface with most of the plant service departments," Doug adds.

The development of communication skills is a very important phase of the training program. Courses in personto-person communication, coaching and counselling, and instructional training for supervision, greatly assist the new and experienced supervisor to communicate in three directions to his superiors, to his subordinates and to his peers. He is trained not only to be a good listener but also to be responsive to his workers' needs.

"The trainee's performance as a supervisor is closely monitored and assessed," Doug says. At the





Dick Botinen seated, a senior process assistant responsible for environmental monitoring in the process technology department at the copper refinery, discusses monitoring procedures with from left, Ray Dumais, George Thompson and Kerry Moxam, trainees in the supervisory development program. At right is Doug McMorran, training supervisor at the copper refinery.

completion of each phase of the program, both the trainees and the resource people make an assessment. "It helps to improve the program," Doug explains. When the trainees go out on the floor to apply their newly acquired expertise, they in turn are assessed by the area supervisory personnel. "There is no guarantee that each new trainee will become a supervisor," Doug points out. "However, the participants will have significantly improved themselves and will come away with a better understanding of the company and their role in it. People are our greatest resource."



Three members of the Historical Society examine wax cylinders and cylinder gramaphone owned by past president Gary Peck. They are, from left, Alvin Dickle, Gary Peck and Bob Boudignon.

Show 'N' Tell Popular for History Buffs

Artifacts and memorabilia were examined by wide-eyed youngsters and the appreciative elderly. The purpose and operation of strange tools was explained at the display tables and turn-of-the-century tales were retold at the coffee urn. Bill Beach summed it up simply: "There's always something new (to learn) in history."

Beach is the president of the Sudbury and District Historical Society and the recent gathering at St. Andrew's Place in downtown Sudbury was the group's Show 'N' Tell big event of the year.

For Bob Boudignon, who sifts through ledgers and accounts at Inco's accounts payable department in Copper Cliff when he's not scrutinizing historical data, the evening was one of satisfaction and pride in a job well done.

"We've got 35 display tables here tonight," said Bob, who co-ordinated the show. "It's bigger than ever, both in the number of tables and the turnout." About 75 per cent of the displays were done by members of the Historical Society, the rest were by selected invitation. Both the Copper Cliff and Flour Mill museums displayed artifacts from their early days.

Boudignon explained that the Society doesn't ask for the involvement of private business unless it has a genuine presentation. The Ontario Motor League's history of automobile transportation in the area, or Bill Scott's display of early outboard motors, were two examples of business involvement.

Bob also emphasized that the solid co-operation he received from



Inco pensioner Reuben Phillips was on hand with his collection of bells.

members in the Society ensured an appealing presentation, both in the variety and quality of the displays.

"We're quite an active society," noted past president Gary Peck, who has been writing a weekly column on Sudbury's history for several years now.

The Society began in Canada's Centennial year, 1967, but initial interest waned until it was revived under Peck's presidency in 1975. Since that time it has grown to an organization with over 100 members.

The society meets seven times a year, either at St. Andrew's or at the Museum and Arts Centre on John St., depending on availability of accomodation.

"Right now we have a committee working on the establishment of a major museum for Sudbury," Peck revealed. "The interest is there, but funding may be a problem."

The proposed museum would be a reflection of the entire history of the area, covering the spectrum from economical and industrial to sociological.

Beach, who admits he is feeling his way around the presidency after Peck's five-year tenure at the reins, said the society may explore the possibility of working with the municipal government towards landing a Wintario grant for the museum.

While awaiting the dream of a permanent home for their treasures,



Alan Prusila's collection of cameras caused many visitors to stop and chat. In photo are, from left, Joe Kaksonen, George Prusila and Alan Prusila.

members awaken the public to the history of the Sudbury area with the annual Show 'N' Tell evening of discoveries.

But while the displays were sudden revealations for the casual visitors to the show, delving into history is almost continual for members of the society.

Beach, for example, always had an interest in the past, so much so that he majored in history at university. He has an inquisitive nature, but also the determination to satisfy his curiosity. "I've searched my family tree back to 1643 . . . and that project required a trip to the Congressional library in Washington."

Trips half-way across the continent are personal ventures, but the club does go on excursions as a group. Last May, for example, the members went on a bus trip to Massey, with a guide on hand to reveal the early days in that community.

The discussion with Bill was postponed by a tug on his jacket. Each of the hundreds of articles on display had a story to tell and his son wanted an interpretation.

It might have been the gramaphone with an Edison recording reel or maybe Reuben Phillip's remodelled cage-tenders bell presented to the first aid attendant when he retired in 1978. Perhaps a charcoal-heated iron used by homemakers in days gone by or a speller from a one-room school.

Whatever it was, that's what Show 'N' Tell and history - is all about.

Oxy-Fuel Smelter Innovation

From the outside, number five furnace looks almost the same as any of the other reverberatory furnaces at the Copper Cliff smelter. And except for two tapping chutes on each side, the casual observer would probably not notice any difference between this furnace and any of the other reverberatory furnaces.

But number five furnace is special. It is an oxy-fuel furnace and there is no other furnace used for similar applications in North America.

In a conventional reverbatory furnace, flames from the front fired burners may blast out over half of the 110-foot length of the furnace. The flames are produced by burning Bunker C oil with air. A large part of the heat in the combustion gas radiates directly to the charge. At the same time a substantial part radiates to the furnace roof and walls and is reflected down to the charge - it reverberates in the furnace - hence the name reverberatory.

But in an oxy-fuel furnace things are different. Instead of front fired burners, there are a series of 12 roofmounted burners each burning Bunker C oil and 95 per cent pure oxygen instead of air.

"This makes for a much more efficient system," said Bob McDonald, projects general foreman at the smelter. "By using roofmounted burners and oxygen we get a much better heat transfer to the charge and derive 35 per cent more heat energy from the fuel used. And because of the higher flame temperature, (4.000 to 5,000°F as opposed to 2.800°F in a conventional furnace), we get a better through-put of material."

This means if you had two furnaces of equal size, and one was conventional and the other was oxyfuel, then the oxy-fuel furnace would produce more in the same amount of time and use less fuel to do it.

The design for the special roof burners was developed by smelter operations personnel and was made into a working blueprint by the general engineering department. The burners were made at the divisional shops and installed by the central maintenance department. The oxy-fuel furnace itself was designed and constructed in a slightly different way than the other reverb furnaces. It has reinforced steel with the brickwork, which allows higher liquid levels than are normally carried by conventional reverb furnaces.

In addition there are two chutes at the front of the furnace to receive converter slag. There are also two tapping chutes on each side of the furnace so that the molten matte product can be taken off more efficiently.

An additional benefit with the oxyfuel furnace is the lower maintenance level of the refractory brick. Because the heat from the flames is transferred directly to the charge instead of bouncing off the roof, the brick doesn't develop hot spots as easily. This means that the bricks are not stressed as much as in conventional furnaces and consequently will last longer.

"We're always trying to increase productivity and use energy more efficiently," said Bob McDonald. "It looks like we may have been able to do both this time."











- Going over the theoretical aspects of the oxy-fuel furnace are, from left, Tom Antonioni, superintendent of the furnace department, Bob McDonald, projects general foreman at the smelter and Carlos Landolt, a section leader in the process technology department.
- 2 From the project team, Wayne Jaruis, left, gives assistant furance operator Cec Baird instructions on adjusting oil flow to the furnace.
- Furnace operator Albert Labelle, left and furnace helper Bill Dane make sure number five furnace has a smooth tap.
- 4 The successful completion of any new project involves many areas of expertise. Some of the people that keep the oxy-fuel furnace operating are, from left, Doug Naykalyk, smelter foreman, Albert Labelle, furnace operator, Dave Hall, plant engineer and Wayne Jaruis a member of the project team that helped develop the furnace.



Family Album

Al Zelinsky, an electrician at the Creighton mine complex, spends much of his spare time in the winter months snowmobiling and ice fishing with his wife Joan and children David, 14, Michael, 11, and Lori, 13. When the warm weather arrives, Al and his family move out to the cottage, spending most of the summer there. Restoring old cars at their home in Walden is also a popular past-time for Al and Joan. Since they took up the hobby some years ago, Al and Joan have restored three old cars which they plan to give to each of their children when they are older.



Roger Battista has been with the Port Colborne nickel refinery for 15 years and is currently a floorman in the anode department. He has been a coach in house league hockey for the past six years. His wife, Francis, enjoys cooking and has learned the art of real Italian cuisine. The Battistas have recently moved into a larger house which means more space outside as well. That allows Roger to have a bigger garden and also gives the Battista children. Lorrie, 9 and Lindsay, 3 more room to play



A yard operator at the Copper Cliff nickel refinery, Roy Hilliar has been with inco Metals for 14 years. He spent five years at the Port Colborne nickel refinery prior to coming to Sudbury. Roy and his wife are avid hunters and spend as much time a possible during the summer, campling and fishing. Boy competes every year in Inco's first-aid competitions, and is a very active member of St. John's Ambulance. During the winter months he trains two local hockey teams. The Hilliar children are: Darrell. 1. Darlene, 5 and Dianne, 2.



Prior to his appointment as chairman and chief executive officer of Inco Limited, Charles F. Baird made a presentation to security analysts in Toronto and New York. He summarized the operations and contributions of the Formed Metals Products Group (FMPG) which is, Mr. Baird said, "the single most important customer for the Company's nickel."

"FMPG is a sizeable business in its own right," Mr. Baird stressed for those analysts who may not have been fully aware of the Group's extensive activities and market penetration. "Based on its 1979 sales, it would rate number 457 among the U.S. Fortune 500. We have an investment in fixed assets and working capital in this business of half a billion dollars, and it employs over 8,000 people."

The Group has manufacturing operations in the U.S., the U.K. and Canada. It sells its products in many more countries, Baird pointed out. It makes two important contributions to Inco's earnings, he noted - first, through its own manufacturing profit, and secondly, through the earnings Inco Metals Company derives from its sales to FMPG.

In describing the operations, products and customers of each of the five components of FMPG, Baird noted that "even though they all form metals, they form different metals into different shapes for different customers."

Huntington Alloys

Huntington Alloys, Inc. (HAI) has a rolling mill plant in Huntington, West Virginia. The rolling mill was built in 1921 in order to develop new markets for nickel. Production there began in 1922 while the mines at Sudbury were closed for lack of business. The initial products were "A" Nickel and "B" Monel.

Inco's Number 1 Customer

Today Huntington Alloys produces over 60 nickel alloys in the form of wire, rod, strip, sheet, plate plus welding products for use in joining its own as well as competitive alloys. Auntington's alloys are used primarily in the construction of plants in the chemical and petroleum industries. Among its other customers, increasingly important ones are the power industry and the aerospace market.

Henry Wiggin & Company

Henry Wiggin & Company Limited's plant at Hereford, England produces a more diverse line of alloys than HAI, and in most of the same forms. Wiggin's sales are much more oriented to the aerospace market. The current boom in the commercial aircraft business is expected to continue through the next decade. Its largest customer is Rolls-Royce, although that company accounts for only a small portion of Wiggin's sales.

Daniel Doncaster & Sons

Daniel Doncaster & Sons Limited, a group of companies, is diverse compared with HAI and Wiggin. The Doncaster group consists of six operating subsidiaries and its products can be divided into two groups - a forged and machined products group and a turbine products group.

Among the first group, Doncaster Sheffield, the original unit, is a forging company. The automotive market is a major source of business, although no single application dominates the forge-stamp market. Doncasters Moorside produces hollow blades for aircraft turbines, flanges for oil, gas, petrochemical and marine applications, and unique bolts which can be hydraulically tightened. Whittingham and Porter makes drop forgings for general engineering applications.

In the turbine products business, Doncasters Monk Bridge produces compressor and turbine blades for the aerospace industry and for stationary turbines. Doncasters Blaenavon makes rings and casings for aircraft and stationary turbines. Hingley Rings produces structural rings for industry and aerospace.

Some 44 per cent of the overall Doncaster business is dependent on the aerospace industry, while the balance is divided equally between capital equipment and transportation industries.

Canadian Alloys

Canadian Alloys Division (CAD) is just beginning its production at its new plant in the Sudbury District of Ontario. CAD produces low-cost strip directly from powder by means of an Inco-developed continuous process. The facility will help meet the substantial demand for nickel and copper-nickel coinage strip from mints around the world.

Daido Special Alloys

Daido Special Alloys Limited is a joint venture of Inco and Daido Steel Company of Japan. Established in 1974, it sells to the Japanese market materials produced by HAI and Wiggin, plus HAI-type alloys melted and fabricated by Daido Steel. Its sales are small but growing rapidly.

"On the whole," Baird stated. "FMPG's near-term outlook is good. We have been able to raise the prices to reflect increased costs of nickel, molybdenum and cobait and higher manufacturing costs. The Group's profit margins have also improved during 1979 for a variety of reasons.

"While we recognize the potential effects of the much-discussed recession in the U.S., we have been pleased with the improvements and prospects for this important segment of our business."



North Bay

The Inco Cup ski series is over for another year. It was a good season as approximately 150 Northern Ontario skiers trained eagerly with the Inco Cup glearning in the back of their minds. The training and sweat paid off for some, but for others it was an indication to work a little harder next year.

The series began in January and was held in North Bay, Rouyn-Noranda, Sault Ste. Marie and finished in March in Sudbury, where the final points were tallied and the winner declared: the North Bay Ski Club, clinching the individual ladies' and mens' and team championships. "The North Bay club was a powerhouse in these competitions."

Don Pecore from the Elliot Lake Ski Club drives into a turn during dual slalom event in Sudbury.

Jamie Smedley from the Sault Ste. Marie club goes to the air in the dual slalom event in Sudbury.



powerhouse captures Inco Cup final

says Gary Foy, chief of timekeeping and calculations at the Inco Cup Ski Series and industrial relations supervisor at Frood-Stobie. The North Bay Ski Club won the Inco Cup for the second consecutive year.

Gary, a former ski champion, along with Ron Pink, general foreman at Stoble Mine, were responsible for setting up the timing devices and ensuring their operation. Gary was also responsible for maintaining a safe finish area for the skiers, one which was well-protected with fencing and cushioned with bales of hay.

"Generally speaking, the weather was good during the series, but ski conditions could have been better. We needed more snow but did manage with what we had," says Gary.

Participating in competition like the Inco Cup is a great experience for any skier, Gary believes. "For some skiers, this series is a stepping stone to national competitions such as the Pontiac Cup, which provides Canada with ski racers for international competitions like the Winter Olympics," he explains. "For others, the race gives them a good opportunity to get out and enjoy the thrill of competition even if they aren't winners."

Gary's son Darren, 14, has participated in many ski races, including the recent Inco Cup. Darren has established himself as the top male juvenile skier in Northern Ontario. Because of this, Gary looks at this competition from a more personal point of view. "For my son, participating in this event has been a character-building process. He has learned how to be on his own when competing since much travel is involved. He has made friends at every race, a friendly bond is established among the youngsters from all over Northern Ontario.

"The racers know defeat and accept it. Defeat doesn't prevent them from going on to other competitions," Gary says. "They develop a sense of self-confidence. Losing a race gives them even more incentive to win."



After races held at four Northern Ontario locations, the North Bay Ski Club won the team championship and the Inco Cup trophy. Accumulating the most points in the men's division was Jock Sloat, left, from the North Bay Ski Club. Peter Vassboten, centre, representing the winning team, proudly displays the Inco Cup. He is aided by the womens' division champion Michelle Vandekka, also a member of the North Bay Ski Club.



____PEOPLE

This 100-ton electric locomotive was completely overhauled by the locomotive shop crew of the transportation and traffic department recently. According to Alex Killah, general foreman of the loco shop, the overhaul job, which took 1½ months to complete, involved changing the loco's truck assembly, wheels and rewiring its electrical system. Members of the loco shop crew are, back row, from left: Alex Killah, Ron Tennant, Harry Sawkiw, Steve Maltby, Lauri Maki, Pat Fike, Ernie Everitt, Clarence Wheatley, Mike Chertow, Tony Campagnolo, Albert Zega, Gerry Lamothe, John Juhas; front row, from left: Mike Rogers, Bill Storozuk, Gerry Pollack, Wilbert Spencer, Evo Pevato, Dick Gattoni, Ivan Hall, Carmen Miceli, Morris Leonard. Bob Pawson is missing from photo.





Bob Bertrand of Walden, a teacher of auto mechanics in Garson, was quite impressed by Marty Tomasini's display of homemade hydraulic compressors. Marty, 13, is a student at Copper Cliff Public School. His father, Jim, is a specialist welder working in Inco's central shops.

Science Fair for

Each year the Sudbury Board of Education sponsors a science fair for grades seven and eight. The event held at Cambrian College, attracted over 100 projects and many more students from area public schools.

All projects entered in the fair fell under three categories; engineering science, physical science and life science. Winners were awarded with first, second and third prizes and a few honorable mentions.

According to Marty Varpio, a member of the science fair

The underground crew of mine shift foreman Chuck Bell at the Creighton mine complex recently earned the record of one year without a medical aid injury for an underground shift at the complex's no. 3 shaft. Members of the crew are, back row, from left to right: Chuck Bell, John Loverick, Dollard Dolbek, Harry Linnard, George Sabat, Mike Lackmenec, John McCormack, Ray Head, Peter Boyer, Ilmer Manninen; front row, from left: Obed Canning, Andre Philion, Louis Sieve, Bill Peacock, Lloyd Olson.



JEOPLE

Jim Lister gave Linda James, a continuing education counsellor at Cambrian College, a microscopic view of his biology project. Jim is a grade seven student at Copper Cliff Public School. His father, William, works as a maintenance foreman at Inco's copper refinery.

grades 7 and 8

committee and a teacher at Churchill Public School, the science fair is the first step in a series that go all the way up to provincial and national events. They are designed to give the students the opportunity to display their knowledge.

"There is always something exciting to see at these fairs. There are some very novel experiments done. This year, for instance, we had a project on how a goldfish reacts to color."

The fair was well attended by both parents and public. Says Marty, the fair gives the parents a chance to see what their children are learning in the school system.

A retirement party was recently held in the converter building at the Copper Cliff smelter for **Jack van Exan**, maintenance foreman in charge of mechanical crane repairs. On hand to extend best wishes to Jack were members of the electrical and mechanical crane crews as well as **Morris Hucal**, maintenance general foreman, who presented Jack with a miniature driver wheel from an overhead crane as a momento of Jack's 37 years of service.



A cheque for \$1,200 was recently presented to the Operations, Safety. Health and Environment (OSHE) committee representing the furnace department at the Copper Cliff smelter by Bob Neal, manager of the smelter, for the most improved safety performance over the previous year in any department within the smelter complex area. Participating in the presentation were, from left to right, **Tom Antonioni**, superintendent of the reverb furnace department at the smelter and co-chairman of the OSHE committee, **Andy Lefebvre**, a crane operator in the reverb furnace department and cochairman of the OSHE committee, **Armand Michaud**, a feederman in the flash furnace department and an OSHE committee member and **Bob Neal**, manager of the Copper Cliff smelter.



PEOPLE



Doug Ogston, right, and his son Robbie make some minor repairs to the family snowmobile. Doug, a controller in the divisional shops, has just been elected president of the Ontario Federation of Anglers and Hunters. His interest in conservation began as a teenager with the Junior Copper Cliff Rod and Gun Club and after several executive positions he was elected president of the senior club. Doug has been a Federation director for the past 11 years and last year alone he was Big Game Committee Chairman, All Ontario Pitch-in Chairman and first vice-president.

Joe Bryant right, believes that he and his son Dave, are a first for the skimming area of the Copper Cliff smelter. They have worked together as skimmers on the same shift and only one converter apart.

"There have been other fathers and sons working here . but not at the same time, as far as I know," says Joe.

With Joe working on number six converter and Dave on number eight, both men found it easy to spend time together over a cup of coffee or a sandwich.

Joe has been with Inco for almost 40 years, the last 11 as a skimmer. Dave started with Inco 14 years ago and was recently promoted from skimmer to a supervisory postion.



Junior members of the Lively Ski Club, all 13 years of age and under, recently won the Northern Ontario Nancy Greene Ski League Trophy at the annual team competition held in North Bay. The Lively team, consisting of children of employees of Inco Metals, beat out seven other teams from Northern Ontario to clinch the title. Members of the winning team are, back row, from left to right: Ian Perry, David Jones, Danny Foy, coach Gary Foy, industrial relations supervisor at Frood-Stobie. Sherri Clair, Robert Mellow, Steve McQueen; front row, from left: David Stanley, Elaine Perry, Matthew Foy, Robbie Sitko, Todd Warren, Julie Dewulf, Jeffry Dyck.



PEOPLE

Ed's Radiator junior ringette team from Sudbury not only won the All Ontario Junior Ringette Championships held in North Bay March 31, but went on to clinch the National Ringette Championship - Junior Belle Division held in Kitchener-Waterloo April 9-12. Members of the ringette team are back row, from left: John Leonard, assistant coach and mine foreman at Copper Cliff south mine, Laura Harbin, Maureen Pagen, Cara Brown, manager Norma Knight, Dale Peltola, Susan Knight, Cindy Annela, Heather Bonas, Joanne Fortin, coach Eddie Stuart; front row, from left: Sandra Daigle, Marijan Walker, Patti Leonard, Darquise Gervais, Paula Giacomin, Sharon MacDonald, Karline Michael.





The Nickel Riders Motorcylcle Club recently held a draw to raise money for club activities. The prize, an 80 cc dirt bike, was won by Creighton mine machinist **Bill Blackwell**. "I buy tickets on every kind of draw or lottery thatiyou can think of. But this is the first time I've even won anything," quipped Bill. Club members who presented the motorcycle to Bill are, from left. **Sandy Jacobs** from accounts payable, **Jim Robinson**, president of the club, from product costing, **Dave Butler**, club vice-president, a maintenance assistant at Creighton mine and **Marty Carey**, secretary treasurer, a process assistant at the Copper Cliff nicket refinery.

Jerry Potvin, a drilling specialist from Inco's mines engineering department, spoke to the graduating classes of Mining and Geology at Cambrian College recently. His talk gave the students some background on the history and applications of drilling and brought the class up to date on research presently going on in that area. The students showed a keen interest in mining and fired numerous questions at Jerry. With Jerry are students, from left, Lise Villeneuve from Sudbury. Dan Laforest from Markstay and Mike Palkovits from Sudbury. Jerry is explaining some of the 'fishing' tools that are used to recover rods and hammers which are sometimes lost in drilling operations.

____PEOPLE

The Levack Figure Skating Club presented Alice in Wonderland recently, thrilling an audience of several hundred. Alice was portrayed by **Kathy Kaitola** during the afternoon performance, with **Suzanne Tambeau** as Little Alice. **Sylvie Lavigne** played Little Alice during the evening performance. As Alice roarned through Wonderland, she met many forest creatures and flowers. These were portrayed by junior skaters. Alice went on to meet the March Hare, **Laura Kay** and the Mad Hatter, **Michelle Purcell**. No walk would be complete without the beautiful birds, bees and butterflies (junior and intermediate skaters).

In addition to the Alice in Wonderland production, the Levack Figure Skating Club took part in the Interclub Competition, placing fifth. The competition was between 14 local clubs.

The Queen of Hearts and her ladies in court also entertained with Alice in Wonderland. They are, bottom row, from left, Mary-Shannon Conners, Linda Labillios, and Michelle Purcell. Top row, from left, Kathy Kaitola, Ethel Steele, Lee-Anne Frohlick, Tammy-Jane Conners, Nicole Gosselin, Sherri Jalsich, Laura Kay and Janice Furchner.

Below . . . the main attraction was Little Alice and her animal friends. They are, bottom row, from left, Jenny-Lynn Lacroix, Suzanne Tambeau, and Doris Mitchell. Top row. from left, Craig MacDonald, Angele Dagenais, Sara Wolfe, and Sylvie Lefebvre.



At the Copper Cliff copper refinery, Lauri Wuorinen, second from left, a member of the copper stripping crew, was recently presented with a plaque honoring his 38 years of accident-free service. On hand to extend congratulations to Lauri were, from left: Al Cruthers, superintendent of refining. Benito Serafini, relief craneman of the stripping crew. Mark Pataran, general foreman of the tank house and fellow workers.





PEOPLE







The Sudbury and District Red Cross moved into the training centre at Clarabelle mill for a day recently and collected 49 units of blood. **Will Benoit**, a 30-year-veteran of Inco, working as a maintenance mechanic, relaxes as he gives the gift of life. Rinks from smelting and refining recently competed against rinks from mining and milling in the Maintenance Staff Bonspiel. The bonspiel took place at the Copper Cliff Curling Club with 28 teams participating. The winning rink was skipped by Hilton Fowler, manager of central mills.

Above: Curlers, from left, Harry McKinnon, a maintenance foreman at Clarabelle mill, Pat Weir, a maintenance foreman at the Copper Cliff smelter and Maurice Curlook, a maintenance supervisor at the Copper Cliff smelter, sweep up a storm.

Below left: Murray Pripc, a maintenance foreman at South mine, displays some of the concentration necessary for a winning shot.



A tour was conducted recently at the Copper Cliff smelter for guests from the Canadian Centre for Occupational Health and Safety and representatives from union safety and health committees. **Dr. Jose Blanco**, superintendent of operatons at the smelter, hosted the tour. In the picture are, from left: **Larry Banbury**, superintendent of safety and plant protection (smelting and refining), **Dr. Jose Blanco**, **Dr. Gordon Atherly**, president of the Canadian Centre for Occupational Health and Safety in Hamilton and **Keith Rothney**, general chairman of the safety, health and environment committee of Local 6500.

____PEOPLE



Rachel Ayotte, left, and her daughter Dianne are both actively involved with guides. Rachel was invested as a guide leader on the same night as Dianne was awarded her Canada Cord, the highest award in guiding. Dianne has been working on her Canada Cord for about four years and had to obtain 26 badges and five emblems before she was awarded her Canada Cord. Proud husband and father Marcel Ayotte, a planner at Copper Cliff South mine, was on hand for the occasion.



Sudbury Minnow Lake Lions tweens ringette team captured the provincial championship in North Bay. Team members are, back, from left; Barb Guzzo, Tom Hall manager, a garage mechanic at Garson, Louise Paradis, Tammy Brideau, Jackie McCullagh, Elaine Brown, assistant coach, Suzan Guyan, Lisa Brown, Joanne Grenier, Gary Brown, coach. Front, from left; Caroline Paradis, Cathy Hally, Joanne Pelletier, Jane Leonard, Jackie Diotte and Louise Lemieux.



Dr. Mike Sopko, vice-president of smelting and refining, left, recently made a presentation to employees of the Copper Cliff smelter at the Copper Cliff Community Hall. The series of employee presentations, held at various plants and mines of Inco Metals, Ontario Division, were directed towards communicating to employees what Inco Metals is doing, where it is going in terms of production and what it has achieved in recent years.

According to John Malysh, administrative assistant of smelling and refining, and co-ordinator of the employee presentations, employee participation has been excellent.



The Garson Crosstown Olds NOHA Atoms won the NOHA Atom 'B' championship held in the Garson arena. Members of the winning team are from left: Neil McNamara, Perry Rollins, David Venn Jr., Todd Johnstone, Robert Cecutti and Kirk Patrick. Second row from left: David Venn, team manager and stope leader at Stobie mine, Bill Johnstone, team trainer, Dean Jalbert, Eddy Lowe, Todd Lalonde, Rolly Gosselin, team coach and a maintenance mechanic at 1.O.R.P. Jamie Gosselin, assistant trainer. Absent from the picture were: Carl James, Steven Conrod, and Martin Kretzchmann.



Duncan White \$1,885

Aurele Larose \$1,730

Over 100 employees shared in more than \$15,000 in award money for this month's suggestion plan. Some of their money-making ideas were quite involved, while others were very simple. But one of the things they all had in common was that employees took the time to submit their ideas to the suggestion plan. So why not dust off that idea that has been germinating in the back of your mind and perhaps collect some money for it? And don't forget that as the price of energy continues to climb, energy saving ideas are more important than ever and can be one area where significant cost savings can pay off for you and the company.

\$1,885	Duncan White	C.C.C.R.	Modify anvil to repair anode and fine copper tap hole bars
\$1,730	Aurele Larose	Frood mine	Replace air control valves on Gardner Denver jumbos with less expensive valves
\$1,535	Pete Diakow Gerald Regimbal	Divisional shops	Make a positioner to support mine scrapers when repairing them
\$1,000	Thomas MacDonald	Creighton mine	Install a timer on loading pocket bin probes
\$750	George Parri	Divisional shops	Cut pockets out of graphite moulds with Do-All saws
\$725	Norman MacLean	Divisional shops	Modify underground hanging brackets
\$595	Ernie Hywarren	Central Utilities	Replace anti-surge controls on No. 2 oxygen plant main air compressor with Foxboro control loop
\$595	Allan Chevier	C.C.N.R.	Discontinue use of powder decomposer consolidator gland checking stations
\$520	Bernard Pharand Bruno Stephen	Coleman mine	Construct tripod for pulling sandfill casing pipes
\$335	Ernesto Contini	Stobie mine	Design a centering tool to align disc brakes on ST8 scooptrams
\$245	Patrick Murphy	Garson mine	Eliminate drilling drain hole from settling sump to the new No. 1 & No. 2 Clearwater sump, 4000L



Pete Diakow and Gerald Regimbal \$1,535

Tom MacDonald \$1,000

\$225	Conrad Robillard	Coleman mine	Reinforce frame for front axles pin on bulk loaders
\$175	Ross Franklin	I.O.R.P.	Install s.s. ball valves on roaster perm sample points on "D" floor
\$150	Normand Brouillatte	Frood mine	Fabricate different type of belly plate for JS-500 scooptrams
\$150	Phil Bonhomme	Garson mine	Install reinforcing plate on steering assembly of ST4 scoops
\$150	Jack Jodouin	Levack mine	Modify car dumper to enable man cars to be taken to the car repair room on 1600 level
\$150	Harry Bergman		
	Elmer Zinkie	C.C. Smelter	Replace counterweight cables on copper converters with chain
\$130	Camillo Parisotto	C.C.C.R.	Replace Eimco filter feed pump with a larger one
\$125	Louis Cousineau		
	Gilbert Prevost	Garson mine	Install isolation switches on No. 1 and No. 2 mix tanks
\$125	Ivan Hartley	Levack West mine	Method to secure rotation units on COP6 down hole machines.
\$110	Pay Clattenburg William Weber	Garson mine	Relocate electric control and valves to top of portable heaters at sand flux pit
\$100	Dennis Bean	C.C. South mine	Install conveyer motion switches without timers
\$100	William Lockman Morley E. Reilly	Creighton mine	Construct a silk screening vacuum printing table in Inco shops
\$100	Robert Venedam Jim Martin	Creighton mine	Install "H" beam for chain block for changing tires in scoop parking area on 6800 & 7000 level
\$100	Stanley Brown	Frood mine	Install larger brake oil pressure tank on No. 1 & No. 2 skip hoists at No. 3 shaft
\$100	Saverio Guido	I.O.R.P.	Install overflow line on discharge line of No. 1 to No. 4 scrubbers to maintain seal
	\$225 \$175 \$150 \$150 \$150 \$150 \$125 \$125 \$110 \$100 \$100 \$100 \$100 \$100	\$225Conrad Robillard Ross Franklin\$175Ross Franklin\$150Normand Brouillatte\$150Phil Bonhomme\$150Jack Jodouin\$150Jack Jodouin\$150Harry Bergman Elmer Zinkie\$130Camillo Parisotto Louis Cousineau Gilbert Prevost\$125Ivan Hartley\$110Pay Clattenburg William Weber\$100Dennis Bean Morley E. Reilly\$100Robert Venedam Jim Martin\$100Stanley Brown\$100Saverio Guido	\$225Conrad Robillard Ross FranklinColeman mine I.O.R.P.\$175Ross FranklinI.O.R.P.\$150Normand BrouillatteFrood mine\$150Phil BonhommeGarson mine\$150Jack JodouinLevack mine\$150Jack JodouinLevack mine\$150Harry Bergman Elmer ZinkieC.C. Smelter\$130Camillo ParisottoC.C. C.R.\$125Louis Cousineau Gilbert PrevostGarson mine\$125Ivan HartleyLevack West mine\$110Pay Clattenburg William WeberGarson mine\$100Dennis BeanC.C. South mine Creighton mine\$100Robert Venedam Jim MartinCreighton mine\$100Stanley BrownFrood mine\$100Saverio GuidoI.O.R.P.



George Pari \$750

\$90 awards were	presented to:
Michael Lewis	1.O.P.R.

\$85 awards were presented to:

Angelo Cassolato	1.O.R.P.
Erwin Schmitt	1.O.R.P.
Ernest Schrader	1.O.R.P.

\$80 awards were presented to:

Harrold Ross I.O.R.P. Ray Lapointe I.O.R.P. Reginald Park I.O.R.P. Clifford Cardinal I.O.R.P. Raphael Busschaert I.O.R.P.

\$75 awards were presented to:

Art Reid	Garson mine
Gilles Grandmaison	Garson mine
Michael Lewis	1.O.R.P.
Lionel Benham	1.O.R.P.
Ernest Schrader	1.O.R.P.

\$70 awards were presented to:

Claude Joly	1.O.R.P.
Gordon Davidson	1.O.R.P.
John Hogan	1.O.R.P.
Maurice Paradis	Central Utilities
Jack Violette	C.C.C.R.

\$65 awards were presented to:

Roy Manning Central Utilities	y Manning	Central Utilities
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\$60 awards were presented to:

William McAuliffe	Creighton mine
Derek Polmateer	1.O.R.P.
Michael Lewis	1.O.R.P.
Ernest Schrader	1.O.R.P.



Norm MacLean \$725

Robert Beaulne	1.O.R.P.
Samir Ayoub	Matte proc.

\$55 awards were presented to:

Hector Constantine I.O.R.P. William Leach Central Utilities

\$50 awards were presented to:

Howard Ryan Edgar Dore Joseph Bergeron Austin Lane Ray Lalonde Leonard McGuire Maurice Jennings Clarabelle Mill I.O.R.P. Matte Proc. C.C.C.R. C.C.C.R. C.C.C.R C.C.C.R

\$45 awards were presented to:

William Leach Dave Baker Leonard McGuire Don Peroni

Central Utilities C.C.C.R. C.C.C.R. C.C.C.R.

Garson mine

Garson mine

Clarbelle Mill

Matte proc.

mine

McCreedy west

Little Stobie mine

\$40 awards were presented to:

Richard Tincombe Art Lysionek Ben Proulx Robert Beauchamp Raymond Gervais Patrick Lacelle Gary Usitalo Jack Tupling Robert Morris

\$40 awards were presented to:

John Landry Matte proc. Bob Morris Vern Whiting C.C.C.R.

Ernie Hywarren \$595

Erik Lovin C.C.C.R. Michel Desormeaux C.C.C.R. Vernon Whiting C.C.C.R.

\$35 awards were presented to:

Jack Dube Division shops Louis Turcotte C.C.C.R. Vernon Whiting C.C.C.R. Hector Gervais C.C.N.R. Lionel Bourcier Creighton mine

\$30 awards were presented to:

Laurier Charette Matte proc. Richard Thyme Phillip Lapointe

\$25 awards were presented to:

Jean-Louis Belanger 'Garson mine David Lee Garson mine Camile Brosseau Clarbelle Mill C.C.Smelter Bruce Banfield Allan Maslakow Matte proc. James Rafuse Matte proc. Ernest Everitt Divisional shops Roger Houle C.C.C.R. Gabrial Prevost C.C.C.R. Vernon Whiting C.C.C.R. Garry Timmins C.C.C.R. C.C.C.R. Roger Houle **Richard Chene** C.C.C.R. Michael O'Shell C.C.C.R.

\$15 awards were presented to:

Richard Thyne	Matte proc.
Laurier Charette	Matte proc.
James Rafuse	Matte proc.

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First Aid Courses Now Centralized

In the future, most first-aid courses at Inco's Sudbury operations will be conducted at its new first-aid training centre located in the office building of Nickel Basin Properties Limited near Murray mine. Occupying the second floor, the first-aid training centre offers a large lecture room and office and storage facilities.

"We saw the need for more space to conduct first-aid training and plant protection courses." explains Hank Derks. Inco's chief first-aid coordinator.

"The centre's facilities will be used primarily for the continuous training of plant protection personnel. Courses in first-aid and plant protection, such as standard and advanced first-aid, heart saver, cardio-pulmonary resuscitation, security and administration, will be conducted there." All employees of Inco Metals Company may use the centre's facilities, Hank adds.

According to Hank, the centre can hold a maximum of 20 people per course, depending on the type of course. Two members of Inco's safety and plant protection department are full-time instructors at the centre.

"It's the safety and plant protection department's own operating area. All our equipment is now at one central location, so we will be able to do the majority of our training there," Hank says.



First-aid trainee Wayne Wilson opens the airway of patient Bill Rose as first-aid instructor Dave Derochie (left) oversees the procedure.



Myles Zettler of Inco's safety and plant protection department, left, checks for foreign bodies in the obstructed airway of a model as instructor Dave Derochie looks on.



First-aid instructor Rick Cholette points out an abnormality on a human spine to members of Inco's safety and plant protection department. They are, from left. Myles Zettler, Bill Rose, Wayne Wilson, Romeo Roy, Peter Brett and first-aid instructor Dave Derochie.