



The Triangle
MARCH 1978

The Triangle

Editor,
Rudolph Kneer



ON THE COVER . . .

After polishing off mounds of steaming pancakes and sausages, some 500 cross-country ski enthusiasts hit the trail in Inco's third annual Loppet, held recently at the Voima Athletic Club on Sunnyside Road in Sudbury. Weather conditions were ideal, and participants enjoyed the fresh air, exercise and pleasant companionship.

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Levack West mine first aid team members Laurent Henri, left, and Clement Castonquay provide expert first aid care to a "patient" during the recent section "B" competition, held at the Onaping Community Centre. Keeping a close watch on proceedings is John Koval, a first aid instructor at the Port Colborne nickel refinery.

INCO 1977 ANNUAL REPORT

Copies of the 1977 Annual Report are now available.

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Public Affairs Department
INCO METALS COMPANY
Ontario Division
Copper Cliff, Ontario P0M 1N0



Meet Albert Peever and his family. Albert is a process laborer with the Copper Cliff smelter furnaces. He enjoys painting flowers and scenics in his spare time. With his wife Theresa are daughter Tammy, 9, and son Shawn, 6.

Family Album



An Incoite for over 30 years, George Nault is a drill fitter at Copper Cliff South mine. The entire family enjoys bowling and is already looking forward to fishing on Nepewase Lake as soon as weather permits. That's wife Jeanine, and sons Jerald, 22, and Donald, 18.



Coaching minor baseball in the summer and playing hockey in the winter keeps Doug Lytwyn, a specialist welder at the Port Colborne nickel refinery, busy in his spare time. That's son Ken, 12, wife Brenda, and daughter Janet, 10.



Here's the Frank Apollini family from Copper Cliff. Frank, a first-class mechanic with the Copper Cliff smelter roaster department, is already looking forward to gardening this summer. With wife, Josephine are, from left, Sergio, 19, Gordon 16, and Marzio, 21.



This is the Norm Mitchell family from Levack. A jumbo driller at the Levack West mine, Norm is an avid hunter and fisherman and also enjoys trail biking and hockey. From left, Scott, 18, Grant, 9, Lori, 14, wife Judy, and Jamie, 17.



Fred Mansfield, a plateworker in the Copper Cliff plate shop, is also the fire chief of the Copper Cliff fire department. In his spare time Fred coaches Minor League Hockey and Little League Baseball. That's wife Aileen, daughter Cathy, 22, and son Dave, 14.

Annual Report Highlights:

Inco Chairman and President call 1977 a disappointing year— reaffirm confidence in company's strength and long term future

Although 1977 was "one of the most disappointing years" in Inco Limited's history, chairman and chief executive officer J. Edwin Carter and Charles F. Baird, president, express confidence in the company's long-term future.

"We remain convinced that nickel is not going out of style," they say in Inco Limited's 1977 annual report, recently mailed to shareholders.

"We believe there will be some increase in the demand for nickel in 1978, but it continues to be extremely difficult to foresee market developments."

The report stresses that the company took corrective actions in 1977 to slow and reverse the deterioration in its primary metal's business and to maintain Inco's financial strength. The objective of these actions was to conserve cash.

"We are confident that the actions which we have taken, and the additional ones which we are fully prepared to take if circumstances require, will maintain Inco as the most commercially reliable and economically efficient nickel producer in the world," Messrs. Carter and Baird conclude in their message to shareholders.

Explaining the cash conservation moves, Messrs. Carter and Baird say, "Cash conservation actions have not been confined to Inco Metals (the company's primary metals unit). They have been implemented throughout the Inco organization. Planned capital expenditures have been sharply reduced. Operating expenditures are being brought under even tighter control. This has led inevitably to unfortunate but essential reductions in employment. Additionally, your Board of Directors decided last October that present and forecast future conditions required that the amount of the regular quarterly dividend on common shares be substantially reduced commencing in the fourth quarter and that no extra dividend be paid in 1977."

They stress, "Many of the actions taken have involved difficult decisions. This is particularly true of the reduction in employment at many Inco locations in

countries around the world. We regret the impact on the individuals affected, the loss to Inco of their skills and the consequential effect on the communities in which we operate. It is true, however, that these communities, specifically those in Canada, have greatly benefited over an extended period from the maintenance of Inco production and employment at levels which, by hindsight, were not justified."

Referring to the inquiry into the company's production curtailments and layoffs in Ontario by a select committee of the Legislative Assembly of Ontario, Messrs. Carter and Baird say, "This public inquiry into the specifics of the business judgments and decisions of a private company in a particular individual instance may well be an unprecedented political action which has troubled many in Canada and abroad, including many in governments. It has, however, provided us with a forum to deal with the facts of internal and external economic life as they relate to the nickel industry, and we believe that this has contributed to better public and governmental understanding of these facts."

Messrs. Carter and Baird caution that over the next decade, past growth rates in world nickel consumption may not be maintained. These had averaged 6 per cent annually from 1948 to 1976. They cite among reasons for the possibility that long-term economic growth rates among industrialized countries may be reduced, the oil crisis, transfer of

financial resources to the OPEC nations, the increase in the level of inflation and the increasing impact of environmental regulations.

They point out that, at present, total nickel production capacity in the non-communist world is about 1,500 million pounds per year. This includes Inco's approximately 460-million-pound Canadian capacity, as it is currently limited by environmental constraints. By 1980, the total capacity could rise to about 1,700 million pounds annually, including the approximately 130-million-pound capacity of Inco's Indonesian and Guatemalan projects.

Although such capacities are far above current needs, they say, in the future, full capacity production from Inco's Canadian operations, as well as from the projects in Indonesia and Guatemala, will be needed to meet an increasing world nickel demand.

Inco Limited reported its sales and earnings for 1977 on February 6, 1978. Net sales for 1977 were \$1,953 million, compared with \$2,040 million in 1976, a decrease of 4 per cent. Net earnings in 1977 were \$99.9 million, or \$1.24 a common share, compared with \$190.8 million, or \$2.64 a share, in 1976.

Finished nickel inventory at year end totaled 341 million pounds, 29 million pounds more than the company sold in 1977 and very substantially in excess of the 100-million-pound level considered normal. Inco's finished nickel inventory

Right: This Port Colborne stockpile, containing 40 million pounds of finished primary nickel products, is part of the 341 million pounds in Inco's inventory at year-end.

Below: Inco Metals developed and is successfully marketing utility nickel shot and pig, which went into commercial production at Port Colborne in May 1977.



consisted solely of nickel from Canadian sources.

Nickel production in 1977 was 417 million pounds, while nickel deliveries — including nickel contained in deliveries of formed metal products — were 312 million pounds, a decrease of 24 per cent from total deliveries in 1976.

The average net price per pound realized for the company's various primary nickel products for the full year of 1977 was \$2.17, compared with \$2.15 in 1976. Inco's current average net realized price is at substantially the level of 1975, which, as noted in the report, was \$2.00 a pound.

Capital expenditures in 1977 totalled \$433 million, compared with \$459 million in 1976. Approximately two-thirds of the 1977 expenditures were for the Indonesian and Guatemalan projects, which were financed to a great extent by long-term loans arranged by the company's Indonesian and Guatemalan subsidiaries. The major portion of the balance of the year's expenditures was spent in Canada. In 1978, the report notes, capital expenditures will decline sharply to approximately \$220 million with the expected physical completion of the Indonesian project.

The report shows that Inco Limited's income and mining tax expense, consistent with the decline in pretax earnings, declined from \$150 million in 1976 to \$75 million in 1977. The company's effective income and mining

tax rate for 1977 was 43 per cent, the same as in 1976.

The report states that shareholders will be asked, at the company's annual meeting on April 19, to approve a by-law which provides that the company may offer holders of common shares the right to elect to receive, in lieu of a cash dividend, a stock dividend in the form of common shares commencing in 1979. Full details of this bylaw will be contained in the company's 1978 information circular and proxy statement, which will be mailed to shareholders early in March 1978.

The company's 1977 report reflects the completion in 1977 of the organization of its business around the company's three principal product groups — primary metals; formed metal products; batteries and related products.

Inco's production of copper in 1977 totalled 328 million pounds, compared with 345 million pounds in 1976. Copper deliveries of 341 million pounds in 1977 were 4 per cent lower than the previous year. For copper, in 1977, the company realized 63 cents a pound, on average, compared with 65 cents a pound in 1976.

Sales of the platinum-group metals and gold and of silver, at \$63 million, were approximately 11 per cent higher than in 1976.

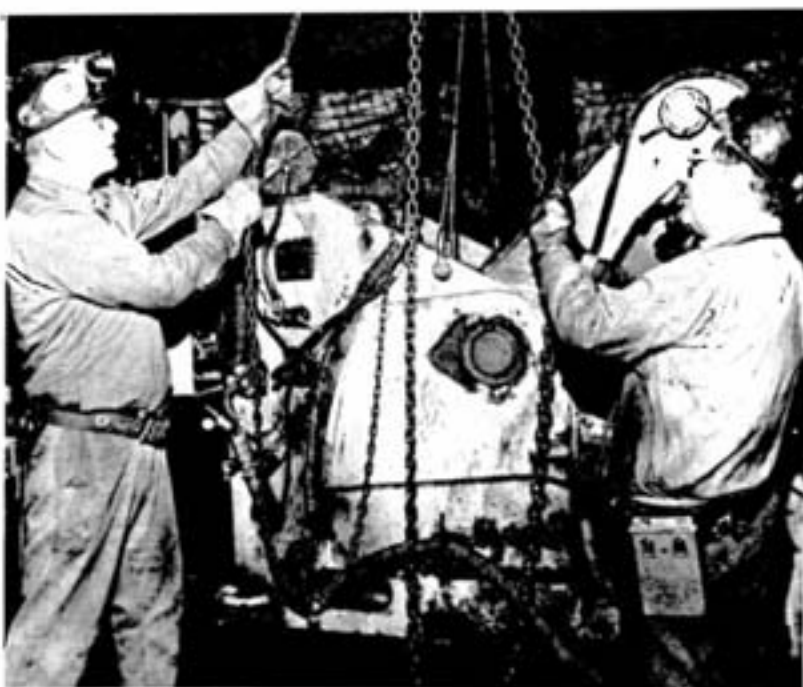
Net sales of the Formed Metal Products Group in 1977, the report states, were \$377 million, up 3 per cent over 1976. Rolling mill deliveries during the

year totalled 88 million pounds, compared with 91 million pounds in 1976. The formed metal products delivered to customers in 1977 contained 55 million pounds of Inco nickel purchased at prevailing market prices.

A reorganization of ESB Incorporated, effective January 1, 1978, created a holding-company structure for this wholly owned Inco Limited subsidiary, the report states. The company was renamed ESB Ray-O-Vac Corporation. Sales by ESB Ray-O-Vac were \$706 million in 1977, compared with \$598 million in 1976. Of this 18 per cent increase in sales, approximately one-third was attributable to the inclusion of sales of AB Tudor of Sweden, a company acquired in January 1977.

The company's venture capital investment portfolio was profitable in 1977, according to the report. It has grown to about \$7 million and represents minority positions in 20 businesses, principally high-technology companies.

At year-end 1977, the report states, Inco Limited had 77,875 Common shareholders of record and 924 Preferred shareholders of record, compared with 78,014 Common shareholders of record on December 31, 1976. Of the shares having general voting rights, i.e., the Common Shares and the Series B Preferred Shares, Canadian residents of record held 53 per cent, United States residents of record 33 per cent, and residents in other countries 14 per cent.



At Copper Cliff North mine's 2200 level garage, Bill Ziminski, left, second-class rigger, and Larry Bertrand, first-class rigger, hoist an ST-8 scooptram's front frame section for subsequent loading onto a truck and eventual hoisting to surface.



A five-yard scooptram, operated by first-class garage mechanic Paul Blais, right, carries part of a 1 1/2-yard scooptram. Watching are rigger helper John Dutresne, left, and drill fitter Gary Laforge.

North mine dismantles production equipment

As a result of the company's decision to curtail operations at Copper Cliff North mine, a program has been implemented calling for the dismantling and removal of production machinery from the various underground workings of the mine. The machinery will be made available to other Inco facilities, and will be used as either

additional inventory or as replacement equipment. This way, company expenditures can be further reduced.

Affected by the plan are such items as scooptrams, drill jumbos, Unimogs, two-boom muck conditioners, graders, bulldozers, diesel and battery locomotives, mine cars, ditch diggers, mucking

Rigger helper John Dutresne, left, and rigger leader Henry Prinoski dismantle the front section of a Jarco 130-A scooptram in preparation for loading onto a lowbed truck and subsequent tramping to the shaft for hoisting to surface in the cage.



In the 1200 level garage, Garry Laforge, left, drill fitter, and Paul Blais, first-class garage mechanic, remove the T-bar from the front of a scooptram by using a one-inch air impact gun.





First-class garage mechanic Harold Reid repairs a scooptram's starter so the scoop can be driven into the garage at 2200 level. The scooptram will be used to move scoop parts previously dismantled.



In the main south drift at 1200 level, rigger helper John Dutresne, left, and Henry Prinoski, rigger leader, inspect the chassis on a bunk truck to ensure that it's properly secured before moving it to the shaft station and then to surface by cage.

machines, raise borers, slushers, jackleg drills, tugger hoists, diamond and longhole drills, and mine timber trucks. The dismantling and removal of all outgoing equipment is expected to be completed by the end of April, according to John Brodie, who's been with the company for 36 years and is currently

maintenance superintendent for Copper Cliff mines.

The mine's cage, which is used between surface and the 4130 level to transport men and material, will be used to hoist all machinery affected by the program. The cage is capable of carrying up to 15,000 pounds at a conveyance

speed of up to 1,500 feet per minute. The interior is eight feet high and will accommodate a load up to a maximum width of 59½ inches.

Once the equipment is out, a maintenance crew will be kept on to service conveyances, ropes, and pumps at both North mine and Murray mine.

Cage tender Raymond Bouchard, left, waits while Eddi Graham, drill fitter, and Dieter Rothe, second-class rigger, secure a five-yard bucket onto a lowbed truck in the cage for hoisting to surface.



First-class garage mechanic Walter Hayduk, left, and first-class garage mechanic George Raymond change the studs on the rear wheels of a scooptram's engine section, which will then be shipped out for use at the Creighton mine complex.



Happy Hobby

A pensioner for going on 14 years, Frank Fielding's Inco career consists of 40 years with the transportation department, beginning as a brakeman in 1916, and subsequently spending time as a conductor, dispatcher, and yardmaster.

Since his retirement, Frank has become actively involved in the care of local wildlife; in fact, his backyard shed serves as a hospital for wounded ducks and geese. He's a familiar figure at Inco's wildlife management area in Copper Cliff and mentioned that some 18 geese inhabit the area right now.

In addition to his wildlife interests, Frank spends much time in his basement workshop in Copper Cliff; to date, he figures he's made about 60 duckhouses, 45 birdfeeders, 30 rocking horses, 20 lawnchairs, and 19 wishing wells that are now located from Montreal to Vancouver.

He works mainly with birch and white pine, and will often work from 5:00 a.m. til 10 at night to provide his friends with their requests.

Not bad for a 76-year-old!

Frank Fielding, who had over 40 years with the company when he retired almost 14 years ago, now builds rocking horses, bird feeders, duck houses, lawnchairs, wishing wells . . . you name it!

At the tender age of 76, Frank spends many of his hours in his basement workshop in Copper Cliff. Here, he sands down two duckhouses which will be used at Inco's wildlife management area in Copper Cliff.

Frank's specially-designed bird-feeders are unique in Canada, in that they're held together by only one bolt.





Much of the credit for the realistic set goes to planner John Lennie, carpenter shop foreman Gino Foresi, and Jim Crawford.



Marcel Desmarais, left, of the maintenance No. 1 team, reads off information regarding the simulated accident to Orvil Martin.



Fred Randall, involved in a simulated crash, receives careful attention from members of the "B" shift team — from left, Steve Bronozvich, Mike Mascitelli, and Andy Rollin.



Mike Rezo of the yard and shearing team works on accident "victim" Dave Roberts.

Port Colborne First Aid Competition

In a close competition between three teams, the maintenance No. 1 squad emerged victorious and was awarded the H. W. Walter Memorial Shield, emblematic of first aid supremacy at the Port Colborne nickel refinery. The team will represent the refinery at the upcoming Finlayson Trophy competition. The "B" shift entry, captained by Charlie Campbell, was the runner-up and received the M. Walker Memorial Shield.

The simulated accident involved a snowmobile which struck a parked taxi. Driver and passenger were thrown from the snowmobile and received "multiple injuries". The problem, created by Roger Bedard of the Copper Cliff safety office, was further compounded by a surprise casualty — a heart attack victim near the scene of the accident.

Judges for the competition were Roger Bedard, Hank Derks and Jack Corrigan.

Marcel Desmarais, left, and Clint Minor loosen tight clothing on Harley Kramer as part of the treatment for simulated heart attack symptoms.



Competition winners — front row from left, Danny DeLuca, Marcel Desmarais, John Cormier; back row from left, Clint Minor, Archie Ferguson, Jim Walter and Barry Bitner.

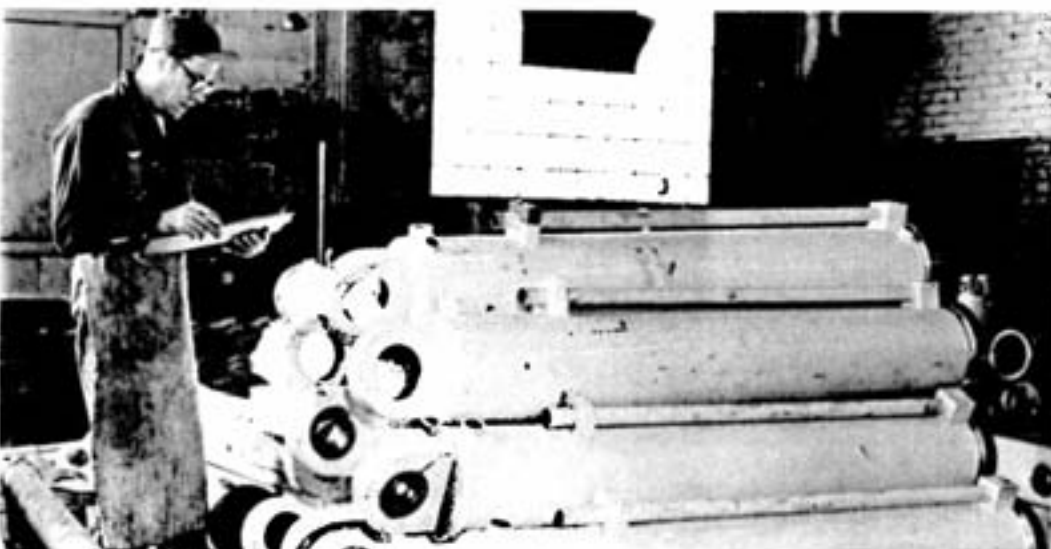




First-class garage mechanic Dennis Dowdall dismantles an FLT transmission from a Dorman diesel locomotive prior to repair.

Making the company more self-sufficient—

Component Repair Centre



Delphis Menard, first-class maintenance mechanic, catalogues ST-8 dump cylinders in order to maintain an up-to-date inventory listing which is required at all times by the component repair centre.

As of the first of this year, the Froid-Stobie central repair depot has become affiliated with Copper Cliff central shops and is now known as Inco's component repair centre, soon to be re-located in the new Divisional Shops Complex.

Says Al Witta, shop co-ordinator, "We're a repair facility for all mines in the Ontario Division, and we've become very critical of quality control. Where possible, all replacement parts are original equipment and we're striving to increase the scope of our repair work. For example, we used to contract out the testing for our fuel injectors; now, the shop has a special area set aside for this work, which helps the company to become more self-sufficient."

According to Al, the purpose of the CRC is to rebuild components; in fact,

First-class garage mechanic Gerry Barnett, left, and garage mechanic leader Alex Dure repair a Bosch starter.



First-class garage mechanic Roland Lefebvre reassembles a Unimog 416 transmission following its repair.



Steve Dominick, second-class garage mechanic, removes valve seats from the cylinder head of a diesel engine.





In preparation for repair work, first class maintenance mechanic Reg Lalonde removes the rod assembly from an ST2A hoist cylinder.



Vic Pregell, left, and Delphis Perrier, both first-class garage mechanics, replace a cylinder sleeve assembly in a Deutz engine block.

some 700 different items can be repaired, from the smallest of pneumatic valves to a 12-cylinder engine. The four main areas of repair are categorized as engine rebuilds, power train repairs, air, hydraulic and electrical repairs, and hydraulic cylinder repairs. Accordingly, the centre works on Deutz, Mercedes and Dorman diesels, transmissions, torque converters, axle assemblies, differentials, brake assemblies, pneumatic valves and cylinders, hydrostatic pumps and motors, air compressors, electric starters, and all hydraulic cylinders from scooptrams right through to drill jumbos.

Added Al, "We're very anxious to move into our new 'home' so we can better provide for the needs of the company. Like Oscar Goldman says, 'We Have the Technology'."



First-class garage mechanics Vern Schroeder, left, and Richard Lampman set up a six-cylinder Unimog engine for dynamometer testing, which will break in the engine following its repair, thus ensuring reliability.

First-class garage mechanic Gerald Taylor inspects the piston assembly of a hydrostatic pump.

Sylvio Jean, first-class garage mechanic, pumps a fuel injector tester in order to determine the spray pattern and release pressure of an injector nozzle which has been sent in for minor repair work.



INCOmetrics

explaining the SI terminology ...



Joe Montes, junior storeman, points to metric measure on carton of hand cleaner. In the picture below, Bob Bray and Sammy Moussa, packing and shipping operators at the Copper Cliff nickel refinery, check metric measures on barrels.



SI is the abbreviation or symbol for International System of measurement adopted by 14 states are not now in the process of changing. Even the symbol "SI" will be used throughout.

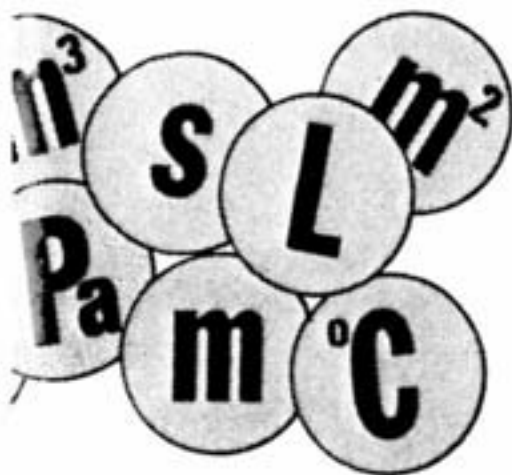
SI is the newest metric system. It was established in 1970. All countries, even those that have not made changes to use SI. Likewise, people who prefer some changes, although the most commonly used have not changed.

In SI each unit has a distinct name, and each unit has a symbol. For example, there is only one unit for length which the symbol is the small letter m. Incidentally, some units used with SI, have symbols which

Some examples of units and their symbols are:

QUANTITY
length
mass
time
pressure
area
volume
capacity
temperature

SI is a decimal system. This means that in going from one size of unit to another it is only necessary to multiply or divide by factors of 10. For example, one kilometre is equal to 1,000 metres, whereas in familiar units one mile is equal to 1,760 yards or 5,280 feet, obviously not convenient decimal multiples. The commonly used decimal multiples are given names called prefixes, which may be combined with unit names to form the larger or smaller units required.



nal System of Units which is the modern
5 countries. Only Liberia and two Yemen
g to SI, so the system is truly international.
t the world.

ublished in 1960, and the last change was
ditionally metric countries, have to make
viously used metric measurements will see
used units, the metre, litre, and gram have

name has an abbreviation or symbol. As
measurements and it is the "metre" for
tally, as with the symbol SI, all SI units and
are precise and are used internationally.



Pat Beaudry, garage mechanic leader, takes a metric micrometer reading on the crankshaft of a Deutz diesel engine.

UNIT NAME	SYMBOL
metre	m
gram	g
second	s
pascal	Pa
square metre	m ²
cubic metre	m ³
litre	L
degree Celsius	°C

THESE ARE THE MOST
COMMON PREFIX SYMBOLS
AND THEY ARE ALSO
RECOGNIZED INTERNATIONALLY:

NAME	SYMBOL	MEANING
mega	M	million
kilo	k	thousand
centi	c	one hundredth
milli	m	one thousandth

EXAMPLES OF THE USE OF SOME PREFIXES ARE:

one megapascal = one million pascals or
1 MPa = 1 000 000 Pa

one kilogram = one thousand grams or
1 kg = 1 000 g

one centimetre = one hundredth of a metre or
1 cm = 0.01 m

one millilitre = one thousandth of a litre or
1 mL = 0.001 L

Most of us regularly use just a very few units of measurement and when using SI we will actually use fewer unit names. For many years we have operated and maintained some machines and equipment which were designed in metric units. During the last year many supplies have been received and issued by our warehouses in metric quantities and sizes. In the last few years we have all been purchasing sugar, ice cream, drugs and other items in metric units of measurement. The use of SI will continue to increase in sports, construction and in all home, recreational and industrial activities until the time when we are all using the SI language of measurement for just about everything.



Charles Paxy, a long-time employee at Creighton mine, adds the finishing touches to one of his latest wood sculptures.

Well-known Creighton Craftsman Retires

Recognized as a leading wood sculptor and painter, Charles Paxy retires after 25 years with the company.



The figures depicted in Paxy's works are carved from basswood, which is soft enough to allow for fine detail work.



Base and shell for the carvings are usually of fir, while various presentation pieces will have a walnut base.



The technique depicted here by "drillers in a cribbed raise" has now been replaced by raise boring.

The incredible talent of Charles Paxy needs little or no introduction. Reputed to be the only artist in Canada to deal specifically with mining sculpture, Charles has carved some 400 pieces for Inco during his 25 years with the company. In addition, he has created a permanent collection which depicts the overall mining operation and historically records the various mining methods used over the years.

Working with a set of finely-honed chisels, Charles uses soft basswood for his figures, which have taken the shape of everything from ballerinas to firemen to raiseborers. "First I do a drawing to fix the whole thing in my mind; then it just seems like my subconscious transfers it to sculpture," says the more-than-modest Paxy.

Charles retired at the end of February. He plans to continue carving and painting, and hopes to spend a good deal of time demonstrating the art of wood sculpting in schools.

Needless to say, his many talents will be greatly missed, particularly by his peers at Creighton mine.



Charles Paxy, left, and Bill Peacock, first-class maintenance mechanic at Creighton mine, examine the movable parts of Paxy's "train dumping on a grizzly". The carving was done to scale, one inch to the foot.



Bert Blackwell, maintenance general foreman at Creighton mine, takes a close look at Paxy's "loading an ore train with a jimpull". The piece is part of a collection that preserves the history of various mining methods.



"Spring Thaw" in acrylics, by April Petryshyn.



"Old Barn on Old Burwash Road", an oil painting by Adam Petryshyn, ventilation engineer.

Father and daughter art exhibition features oils, acrylics, and watercolors



Following a year of preparation, the father-daughter team of Adam and April Petryshyn recently exhibited their works in Sudbury.

Adam Petryshyn, ventilation engineer at Levack mine, and his daughter April have just completed a successful exhibition of their paintings and sketches held at Rothman's of Pall Mall in Sudbury.

"It feels great, it's exciting for us both," said Adam. The exhibition followed a full year of dedicated preparation, resulting in a varied showing of oils, acrylics, watercolors, and pencil sketches.

Adam, who has 30 years with Inco, seriously began to develop his artistic talents in his early teens. Basically self-taught, he took night courses and attended the occasional workshop with other art enthusiasts. Working mainly with oils, he enjoys recreating landscapes of local Sudbury scenes; his style reflects the rugged beauty and vivid colors of Northern Ontario.

Daughter April, now in her 13th grade at Lo-Ellen Park Secondary School, prefers to work in acrylics and is aiming at a B.A. in fine arts.

So for 56-year-old Adam and daughter April, art is alive and well, and thriving in Sudbury!

NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . . .



Arnie Walli, right, a copper puncher with the converter department in Copper Cliff, was the lucky recipient of a substantial cash award recently. The award, presented here by **Bob Neal**, manager of the Copper Cliff smelter, went to the group with the most improved safety performance within the smelter complex for 1977. After the converter department was selected the winner, it turned out that Arnie won the draw for the award money. Arnie has elected to visit his native Finland this summer and says the money will come in handy to defray a major portion of the expenses.



Hundreds of delegates to the 50th annual convention of the Ontario Federation of Anglers and Hunters, held in Toronto recently, viewed this Inco exhibit, complete with slide show, depicting the company's story of the Copper Cliff Wildlife Management Area from the announcement of its creation to its present state. **Jim Savage**, of Inco's agricultural department, is pictured here adding final touches to the exhibit prior to its move to Toronto. It is interesting to note that enquiries have already been received regarding the availability of the exhibit for use at other outdoor-oriented activities.



When it comes to applying a realistic make-up, leave it up to **Al Buzzd**, left, of the Port Colborne nickel refinery. During recent first aid competitions, part of the problem was to treat the victim of a heart attack. Here Al applies a grey colored make-up on Hartley Kramer's face to simulate the complexion of a heart attack victim. Needless to say, Hartley played a convincing role on the set.



Here are the proud winners of the **P. F. McDonald Trophy** which represents the top award in the Copper Cliff complex section "B" first aid competition. The trophy was presented to members of the Copper Cliff welding shop by **Bill Buchanan**, manager of matte processing. From left, **George Kain**, **George Dempsey**, **Wayne Butler**, **Bill Buchanan**, **Gerald Regimbal**, **Bill Van Allen**, superintendent of central shops; **Dorval Gouvin**, coach; and **Gordon McCandless**.



A member of Inco's sales tax staff in Copper Cliff, **Gerry Dellalre**, above, was Inco's entry in the 100-mile Snowarama return run at Onaping, promoted recently by the Ontario Society for Crippled Children, in co-operation with the Onaping Falls Snowmobile Club, the Kinsmen Club of Hamner and Valley, and the Lions Clubs of Levack-Onaping and Azilda. Snowarama is a favorite winter sports event in which snowmobilers select a 100-mile course and obtain sponsors on a pledge-per-mile basis and, of course, enjoy a day in the great outdoors. Below, Gerry, centre, presents Inco's \$500 donation to **Gerald Stokes**, president of the Onaping Falls Snowmobile Club, while **Joe Riddell**, president of the Levack-Onaping Lions Club, looks on. Monies collected will provide service to physically handicapped children.



Appointments and Re-assignments

James Amson, industrial evaluator, industrial engineering, Copper Cliff.

William Bateman, shift foreman, Iron Ore Recovery Plant, Copper Cliff.

Connie Bertrand, train dispatcher, transportation and traffic, Copper Cliff.

Morris Bertrand, transportation foreman, transportation and traffic, Copper Cliff.

Omer Bellmore, safety foreman, transportation and traffic, Copper Cliff.

Robert Bozzato, safety auditor, Port Colborne nickel refinery.

Dale Brown, train dispatcher, transportation and traffic, Copper Cliff.

Lloyd Denault, train dispatcher, transportation and traffic, Copper Cliff.

Eddie Katerynuk, transportation foreman, transportation and traffic, Copper Cliff.

Don Marlon, plantfitter foreman, Port Colborne nickel refinery.

John Mathias, senior production costing analyst, Copper Cliff.

Dennis Millan, design engineer, maintenance engineering, Copper Cliff.

Gall Miller, clerk-stenographer, Iron Ore Recovery Plant, Copper Cliff.

Stephen Palfrey, operations assistant, Iron Ore Recovery Plant, Copper Cliff.

Bob Ross, train dispatcher, transportation and traffic, Copper Cliff.

Joe Rossi, safety foreman, safety and plant protection, Copper Cliff.

Leo Sabourin, transportation foreman, transportation and traffic, Levack.

Steve Schofield, transportation foreman, transportation and traffic, Copper Cliff.

Bruce Schroeder, process supervisor, Iron Ore Recovery Plant, Copper Cliff.

Gerry Snow, transportation foreman, transportation and traffic, Copper Cliff.

Joan Soler, secretary, Port Colborne nickel refinery.

Donald Wylie, shift foreman, Iron Ore Recovery Plant, Copper Cliff.

INCO METALS COMPANY
TORONTO OFFICE

Alex M. McCualg, assistant to the vice-president, employee relations.

You May Earn Up To \$10,000

by submitting your ideas on safety and operating improvements through the Ontario Division Suggestion Plan. Don't delay! Your idea may qualify for the maximum award!

NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . . .



Ron Taylor, president of the Ontario Division, Inco Metals Company, has announced the appointment of **Jack Holtby** as manager, purchasing and warehousing. Jack replaces Bill Thorpe, who has elected to retire after over 37 years' service with the company.



Charlie Hews, right, Ontario Division vice-president, Inco Metals Company, was the guest speaker at a recent meeting of the Data Processing Management Association. In welcoming the over 100 delegates to the two-day conference, Mr. Hews outlined the many challenges facing today's economy. "Among our most pressing needs are improvements in productivity and efficiency," he said, "and the purpose of this conference is to examine how you might improve your skills and methodology." In his closing remarks, Mr. Hews stated that in a relatively short time, since the evolution of the computer, we have witnessed a significant contribution to the business process. "I am convinced you have only scratched the surface. There is much to be done. The potential is still unlimited. You have the equipment and skills necessary, and we never needed you more than we do now." Pictured with the guest speaker are **Randy Cave**, left, Ontario Division manager, computer systems, and **Leo Laturnus**, centre, conference chairman and Ontario Division superintendent of computer operations and technical services.



Copper Cliff's **Nancy-Jane Newburn**, Miss Teen Canada, recently toured the Copper Cliff copper refinery. Accompanying the charming teenager, centre, on a most informative tour were, from left, process technology's **Bill Whittaker**, who acted as tour-guide; Nancy's father, **Tom Newburn**, assistant divisional comptroller, Ontario Division; **Elaine Anisman**, National Pageant coordinator, of Cleo Productions Limited, Toronto; and **Peggy Sheffield**, public relations manager, Sarah Coventry Canada Limited.



Completing a program begun in 1976, first-class electricians **Fred Wright**, left, and **Mark Pennarun** splice a new mine shaft power cable running from surface to the 2200 level of Copper Cliff North mine. The additional power supply is designed to provide for increased electrical consumption in the lower levels of the mine.

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The Triangle photographer caught these two members of the Copper Cliff reverb furnaces team in the process of taking an assessment of injuries on "patient" **Ed Lachance** during the recently staged section "B" first aid competitions. **Wayne Jarus**, left, steadies the leg, while teammate **Loren Drisdelle** conducts the examination. Judge **Tom Talbot**, of Levack mine, gives close scrutiny of the procedure, while **Lino Filippini**, background, looks over another "casualty".



With well over 20,000 electric motors to look after, the Copper Cliff winding shop is seldom stuck for work. According to foreman **Cam Campbell**, maintaining the thousands of motors throughout the Ontario Division is only part of the shop's many responsibilities. Above, Cam watches as **George Niemi**, a first-class winder, is in the process of rewinding the armature of a 4-ton Goodman locomotive. Below, **Larry Solski**, a second-year winder apprentice, rewinds a 15 h.p. ventilation fan motor, recently received from Creighton No. 9 shaft.



Dr. Allan Coode, centre, chief mines geologist for Agnew Lake mines, was the recent guest speaker at the regular monthly meeting of the Sudbury Branch of the Canadian Institute of Mining and Metallurgy. A large gathering listened to Dr. Coode's informative address on the "Mining and Leaching operations at Agnew Lake mines". Flanking the guest speaker are **Milt Jowsey**, left, past chairman, and **Merv Dickhout**, vice-chairman, Sudbury Branch, CIM.



LOGOWRITER



Kathy Savage

Our logo writer this month is 17-year-old Kathy Savage, whose dad Jim is ground superintendent with Inco's agriculture department.

Kathy was recently accepted into the chorus line of the Ice Follies, following an audition at Toronto's Maple Leaf Gardens. According to the organization's manager, her performance was "definitely Follies material".

The Follies will take the lively youngster to Toronto and Montreal, and she will also tour most major cities in the United States. Kathy, who has never done any extensive travelling before, is very excited about her upcoming involvement with the Follies and feels she will probably sign a one-year contract, then perhaps stay on for a second year.

The grade 12 student has no definite plans for the future other than skating with the Follies, and claims that "I won't be married until I'm at least 24 or 25, because I have so many things I want to do on my own first".

Kathy is currently being coached by Joyce McKenzie of the Copper Cliff Skating Club.

Copper Cliff Mines Association Annual Retirement Party

A reminder to all employees, especially former employees of Copper Cliff North mine, that the annual retirement party will be held at the Caruso Club on Saturday, April 1, 1978, commencing at 5:30 p.m. in honor of all retired members and an evening of enjoyment. Music will be supplied by the Commodores. For tickets call Copper Cliff South mine, 682-0202, before March 25, 1978.



Celebrity Bowl at the Notre Dame Bowl in Sudbury recently drew large crowds, as well-known personalities from throughout the area showed up to participate in Big Brothers' annual fund-raising Bowl-a-thon. Above, **Bill Bird**, left, of Falconbridge Nickel mines, and **Harry Tompkins**, right, director of public affairs, Ontario Division, Inco Metals Company, make sure that Triangle editor **Rudolph Kneer** sets up on the proper line. Below, **Keith Lovely**, left, recording secretary, Local 6500, United Steelworkers of America, and **Jack Gignac**, right, president, Sudbury Mine, Mill and Smelter Workers Union, Local 598, are getting set to watch a "strike" by **Ray Thomson**, president, Local 6855, USWA. A province-wide endeavor, Celebrity Bowl was part of a week-long effort to raise required funds to support the community work of the Big Brothers organization.



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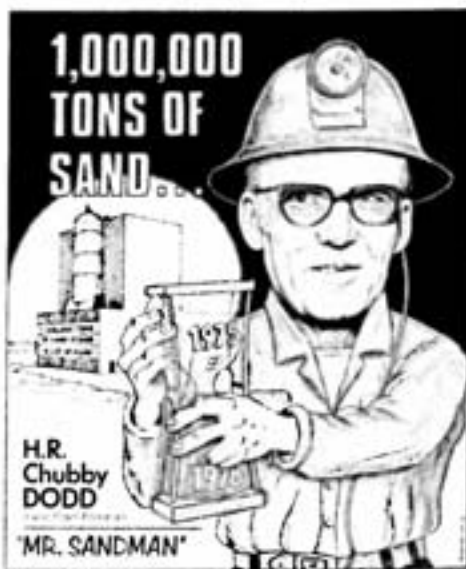
Hundreds of friends and business acquaintances of **Bill Thorpe, Morris Laplante, Phyllis Lewis, D'Arcy Meehan, Gerry Marcotte** and **Mike Solski**, of the purchasing and warehousing department, gathered at the Caruso Club in Sudbury recently to bid them a hearty and fond farewell on their retirement. Following a delicious meal and the usual speech-making, along with individual presentations, guests and retirees enjoyed dancing to the tunes of the Jack Smith orchestra. Above, one of the honored guests, Bill Thorpe, right, retired manager of purchasing and warehousing, accepts a beautiful water color painting by Copper Cliff's Frank Homer from **Charlie Hews**, Ontario Division vice-president.



These are the Copper Cliff Redmen Atom All-Stars, who recently travelled to Sault Ste. Marie to participate in the Pee-Wee Atom hockey tournament, promoted during the 5th annual Bon-Soo' festival. The boys were accompanied on their trip by trainer **Glenn Lavallie**, manager **John Gilbert**, coach **Gerry Mills**, and referee **Pat Dobson**.



Rolf Schwedhelm, right, ventilation supervisor at Copper Cliff South mine, explains the workings of a personal sampler pump to scooptram operator **Don Duhamel**. The unit, which is worn by alternate mine employees over an 8-hour period, monitors dust particles contained in the mine atmosphere. As part of an extensive preventative air sampling program, over 100 Copper Cliff South mine employees have been "sampled" so far over the past 9-month period.



News item — Copper Cliff South mine sandfill plant has now poured a million tons since the plant's start-up in March of 1975.

**You May Earn Up To
\$10,000**

by submitting your ideas on safety and operating improvements through the Ontario Division Suggestion Plan. Don't delay! Your idea may qualify for the maximum award!

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Sam Moussa, a packing and shipping operator at the Copper Cliff nickel refinery, is in the process of loading nickel powder into this 300 lb. barrel. He is wearing the new Racal Amplivox anti-dust helmet, which is presently undergoing extensive tests. The helmet, which comes equipped with a battery-operated fan, filters out impurities from the air.



Proud father in this picture is **Frank Apolloni**, a first class mechanic in the Copper Cliff smelter roaster department, as he proudly admires son Gord's Junior Golden Gloves Trophy. **Gord** also won two medals for two knock-outs in the first part of the elimination bout for the Golden Gloves Championship, held in Wisconsin recently.

For up-to-the-minute information,
dial

Inco Hotline

Sudbury 682-0626
Port Colborne 835-2454



Thomas Parris, second from left, Ontario Division vice-president, and vice-president of District 3, Canadian Institute of Mining and Metallurgy, was the recent guest speaker at a meeting of the Sudbury Branch of the Association of Commercial Travellers. He informed the gathering of the aims and accomplishments of the CIM and invited those present to attend future monthly meetings of the institute in order to gain a broader insight into Canada's vast mining industry. An informative slide presentation, recently compiled by the Sudbury Branch, CIM, concluded the well-attended meeting. With the guest speaker are, from left, **Jim Carrey**, Sudbury Branch president, ACT; **George Reed**, Sudbury Branch chairman, CIM, and **Conrad Houle**, a member of the ACT and CIM.



That's **Sid Forster**, Ontario Division community relations supervisor, left, in conversation with Incoites **Donna Martyn**, **Gerry Martyn** and **Bill Kolvu**, just prior to this year's start of the Inco Loppet. Over 500 ski enthusiasts participated in the event, blessed with perfect weather conditions.

