
The Trillo
APRIL 1978

The Triangle

Editor,
Rudolph Kneer, Copper Cliff
Associate Editor,
Les Lewis, Port Colborne

ON THE COVER . . .

Grade two students from DeWitt Carter Public School in Port Colborne visited the Sugar Bush demonstration near Vineland, Ontario, recently, where they received a first-hand view of how maple sap is collected and made into maple syrup. The three youngsters on the cover are, from left, Kerri Conley, whose dad Bob works in the shearing department; Glen Moreau, whose dad, Maurice, also works in the shearing department; and Wendy Pearce, whose dad Jack is with the mechanical department.

April, 1976 Volume 36, Number 4

Published for employees by the Ontario Division of The International Nickel Company of Canada, Limited, Copper Cliff, Ontario, P0M 1N0. 682-0631.

Prints of most photographs appearing in "the triangle" may be ordered from Dionne Photography, 170 Boland Ave., Sudbury, or call 674-0474. Cost: $3.00 each.

An added feature of this year's Inco Cup was the dual slalom event when two competitors raced side by side in two individual runs. Winner of this event was determined by placing rather than time.

The fifth and final race of the Inco Cup ski circuit was held at the Adanac Ski Hill in Sudbury on March 18 and 19. The two-day competition brought to a close the Inco Cup for 1976.

First place in the individual standings was won by Christine Heikkila in the ladies' division, with Richard Nieminen picking up first prize honors in the men's division. Winners of the overall first place team were the North Bay Ski Racers.

Sudbury's Christine Heikkila had the championship wrapped up going into the fifth race, however, the men's championship winner was not declared until the last event, the dual slalom, when Richard Nieminen, from Rouyn, and David Tafel, from North Bay, competed for top prize.

The final day was extremely warm and sunny, with temperatures hovering around the 10 degree Celsius mark. Spectators basked in the sun, and short sleeve shirts were the dress for the afternoon.

A first in this year's competition was the exciting dual slalom event that provided a fitting finish for the final day's events. In this race, two competitors start off at the same time on identical courses, laid out side by side. On the second run, sides are switched in case one course happens to be slightly faster than the other. And just to make the race more interesting, a three-foot jump is strategically located along the course. The winner is declared by placing rather than by total time. The clock is used only if there is a tie.

It is through races like the Inco Cup that future Nancy Greens or Kathy Kreiners are developed. For it is only through competition that racers' skills are honed to a fine edge and they learn to cope with the pressure involved in championship racing.

COUPE INCO CUP

Competitor blasts off snow jump in dual slalom event. The difference between winning and losing is decided here.

At a dinner held at the Copper Cliff Club, Richard Nieminen, left, and Christine Heikkila, right, individual men's and ladies' champs, were presented with trophies by Mel Young, assistant to the president, Ontario Division.

Inco to ask shareholders to approve

The Chairman and President say company is in "strong position" to serve customers during expected sales recovery

Inco shareholders will be asked to ratify a bylaw at their annual meeting on April 21, changing the company's name to Inco Limited. The annual report notes that the proposed new name "more accurately reflects the increasingly diverse character of Inco's activities and adopts the name by which the company has been familiarly known for many years."

L. Edward Grubb, chairman and chief officer, and J. Edwin Carter, president, said in their message to shareholders: "The worldwide recession, a continuing high level of inflation and one of the sharpest declines in metals deliveries in the history of the nickel industry affected our earnings adversely in 1975. Nevertheless, we believe that Inco has done well in meeting the challenges of a difficult period, has placed itself in a strong position to serve its customers during the recovery in sales which we confidently expect, and hence has served the interests of its shareholders."

Comparing 1975 with 1971, another recession year, Messrs. Grubb and Carter point out that in 1971 the drop in Inco's deliveries accounted for approximately 80 per cent of the overall nickel decline. Whereas in 1975, when there was a much greater fall-off in demand, "slightly less than 50 per cent of the total downturn appears to have been represented by the reduction in Inco's deliveries." Furthermore, they note Inco's 1971 earnings were down 56 per cent from the 1970 level, while earnings in 1975, during the worst recession since World War II, were down 37 per cent from the record 1974 level.

They state that while the decline in earnings "cannot be accepted with equanimity, we regard these results as evidence that Inco's marketing strategy, its continuing process improvement and cost-control programs, and other innovations have done much to mitigate the adverse impact of recession and inflation."

Expressing optimism for the long-term outlook for the nickel industry, Mr. Grubb and Mr. Carter state that "Inco's relatively strong position during the most recent cyclical downturn has also allowed us to proceed with significant investments for the future to meet both long-term and short-term demand for nickel. Toward this end, we have gone ahead with important investments in Canada and elsewhere. Construction of our overseas projects is continuing on schedule and we expect initial production in Indonesia toward the end of this year and in Guatemala during 1977.

"We have also invested substantially in inventory. At year-end 1975, our finished primary nickel inventory represented a five to six months' supply position. We are confident that this inventory will be needed by the market in the not too distant future and that it will serve our customers well during the next period of peak demand for nickel. We also consider this building of stocks a sound financial investment as well as a prudent and responsible means of providing, within the limits of our capability, stable employment in those communities in which we have production operations."

The report reasserts Inco's intention "to continue to seek orderly diversification, both internally and through acquisition, as circumstances warrant."

Regarding ESB and the January 1976 civil antitrust suit brought by United States Department of Justice, Chairman Grubb and President Carter state: "We believe that the acquisition does not entail anti-competitive consequences, just as we believe that the continued ownership of ESB is very much in the interest of Inco's shareholders. We will take all necessary actions to resist the government suit and to protect Inco's position."

Inco's nickel production in 1975 was 460 million pounds, down 50 million pounds from the record 1974 level. In 1976, nickel production is expected to be greater than in 1975 but below the record level of 1974, the report notes.

Net 1975 sales reached a new high of $1,695 million while net earnings dropped to $186.9 million, or $2.51 a share, from the restated 1974 record of $298.6 million, or $4.01 a share.

Capital expenditures for 1976 are expected to approximate $500 million, the major portion of which, as it was in 1975, are directed for the laterite projects and will be financed to a great extent by long-term loans arranged by the

new name

company's Guatemalan and Indonesian subsidiaries. In addition, the company will commence construction this spring of a facility in the Walden Industrial Park for the direct rolling of powders to produce strip suitable for coinage. Work has begun on a new mine, Levack East, which will be served by an underground shaft from the 2650 level of Levack mine. Levack East is about 2 miles from Levack mine. It is being developed to maintain production in the area, and is slated to begin production in 1984.

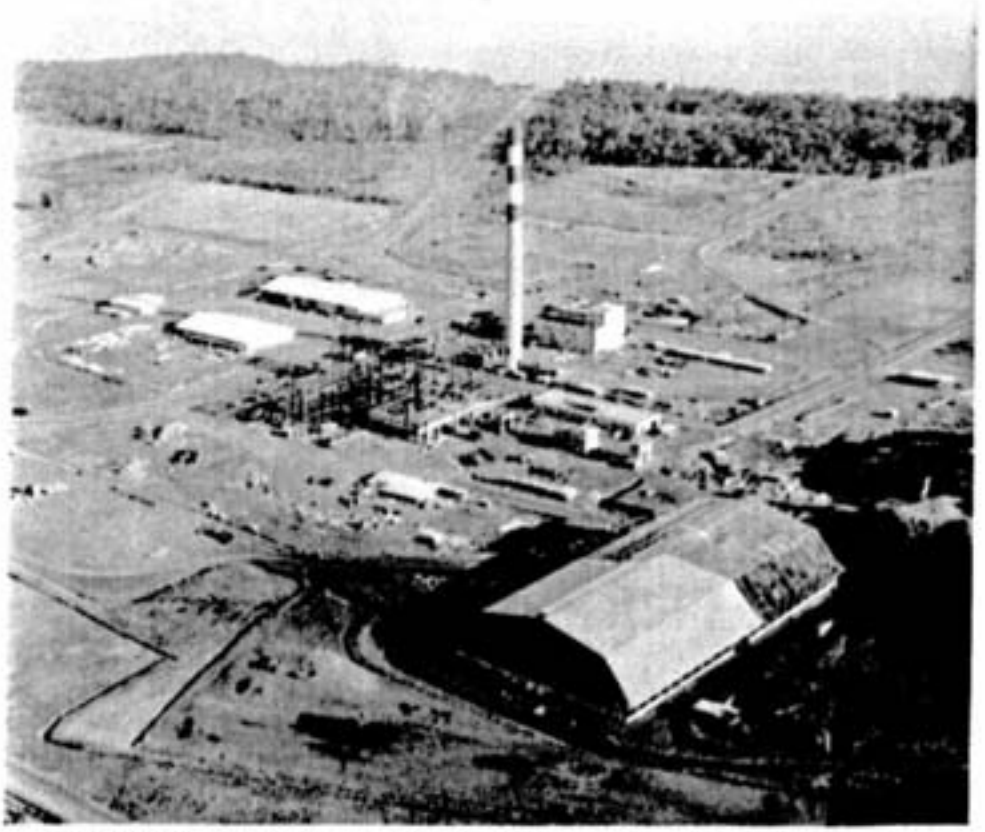
Exploration expenditures in 1975 amounted to $30.1 million, compared with $19.9 million in 1974. The increase, the report notes, was primarily attributable to expanded exploration programs for oil and gas.

The report says our company had 37,755 employees in the primary metals, metals forming and related fields on December 31, 1975, compared with 32,459 at year-end 1974. The inclusion of 3,888 employees of Daniel Doncaster & Sons Limited, a U.K. metals forging and machining company acquired by Inco in August 1975 is the prime reason for this increase. ESB had 15,760 employees at year-end.

Sixty-four per cent of our 84,369 shareholders had addresses in Canada, 34 per cent in the U.S. and two per cent elsewhere.

Canadian residents of record held 48 per cent of the shares outstanding, United States residents of record 37 per cent, and residents of record in other countries 15 per cent.

An over-all view of Stage I of the Indonesian nickel project, which will begin producing late this year.



The plant that will process Exmibal's Guatemalan laterite ores takes shape on the edge of Lake Izabal.

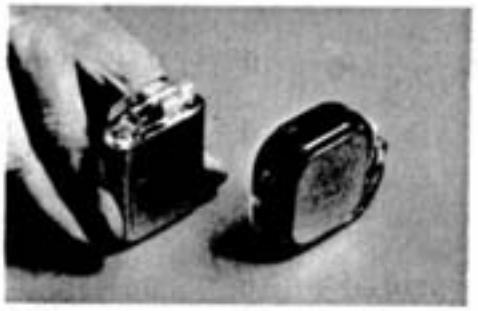
Lines of Ray-O-Vac flashlights, lanterns and dry-cell batteries continue to grow. ESB recently also developed a line of maintenance-free passenger car and truck batteries that do not require the addition of water during their expected service life. They are marketed under ESB's Exide and Willard* brand names.*

ESB Incorporated

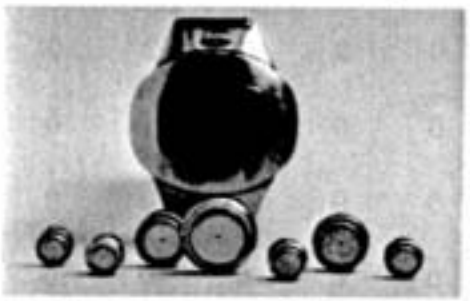
Acquired as a wholly-owned subsidiary August 1, 1974, ESB Incorporated is reflected for a full year in the 1975 annual report.

Although ESB's business reflected the depressed economy during much of 1975, there was significant improvement in the company's sales and earnings in the last four months of the year.

In the primary battery field, ESB's Ray-O-Vac Division, with its patented system, has taken a substantial lead in providing the energy source for the electronic watch industry through the development of a wide range of button cells to meet sharply increasing demand.



ESB's new heart pacer is half the weight and smaller than the model it replaces, at right.



Ray-O-Vac's Silver II button cells last longer in today's watches.* *ESB trademark

Daniel Doncaster & Sons Limited

Daniel Doncaster & Sons Limited, acquired August 17, 1975, employs a broad range of hot-shaping techniques in the production of high-stress metal components.

Forged and machined products for general engineering applications and for gas turbines are manufactured at seven plants in the United Kingdom. Technology developed in forming nickel and titanium alloys and stainless and other alloy steels has enabled the company to meet the high-precision requirements of components in the most advanced turbines and compressors.

The acquisition of Doncaster will, among other benefits, strengthen the long-standing roles of Doncaster and Wiggin in the gas turbine industry.

Display of typical forgings from Doncaster's Sheffield closed die works.

Watching maple sap boil off are, from left, Glen Moreau, Denise Holinhey, Bob Istok, Kerri Conley, Wendy Pearce and Annunziato Garofalo. The students learn the early history of maple syrup production as well as the modern innovations.

The Sugar Bush

Conservation officer, Glen Myers, shows grade two students from DeWitt Carter Public School how maple sap is commercially collected, in this case with a plastic tube. Students are, from left, Kerri Conley, Wendy Pearce, Denise Holinhey, Glen Moreau, Bob Istok and Annunziato Garofalo.

A good example of the wise use of a renewable natural resource is the Sugar Bush demonstration held each spring, just outside of Port Colborne, by the Niagara Peninsula Conservation Authority. The following information will be of interest to all maple syrup enthusiasts:

The tapping of maple trees for sap doesn't harm the tree; it merely draws off a surplus of plant energy in the form of sugar. The sap itself consists of approximately 96 per cent water, three per cent sugar, and one per cent mineral salts.

Frosty nights and sunny days are needed to stimulate the flow of sap, which will move from the roots of the tree towards the "tap" which is positioned about four feet from the base of the tree over a main root.

A ⅜-inch hole is drilled about two inches into the tree at a slight upward angle, then a spigot is positioned in the hole and a bucket hung on the spigot.

Nowadays, a plastic line is used to commercially collect sap. In this way, the flow from many trees can be tied in together and the sap can be pumped directly into the "sugar shanty" or picked up from a central collecting tank. This method also keeps the sap clean, making it higher in quality.

In the "sugar shanty" is the modern-day evaporator, consisting of three separate evaporating pans, a steam hood, smoke stack and a fire box. The sap is gravity-fed from a storage tank into the back pan, which is divided into three sections and corrugated. The sap then enters another float system and goes to the two front pans, where the boiling is continued. The product is then filtered and finished in a stainless steel evaporating pan, where the heat can be carefully controlled. Sap boils at approximately 100°C and reaches its correct density at 105°C. There's nothing added to make maple syrup — only water is taken away.

The colour of syrup is influenced by the slight burning of the sugar crystals in the sap, and the quality of the syrup for sale — Canadian fancy, light, or dark — depends on the colouring.

So next time you're enjoying pancakes or waffles, think about those maple trees — then pour on the syrup!

Hydronaut

Aird Romich applies elbow grease to the ice auger. With ice thickness up to three feet, it takes a considerable amount of time and energy to drill a clean hole.

This is just one example of the debris that is at the bottom of the lake. In this case a child's broken tricycle, probably lost summers ago and now forgotten.

"Hydronauts" — not a word that you use every day. In fact, the word doesn't even exist in the dictionary. But it's sure very much in existence right here in the Sudbury area as evidenced by a club called "The Nickel District Hydronauts" — an underwater diving club.

The club is a loosely knit group, comprising about 30 individuals who have but one burning desire — to explore under the surface of the water. Winter or summer — it makes no difference.

Everyone in the club uses S.C.U.B.A. gear, which stands for self-contained underwater breathing apparatus. Any of our readers familiar with the old "Sea Hunt" TV program knows what we're talking about.

The tanks, generally made of aluminum, hold compressed air at a pressure of approximately 2,700 pounds per square inch. The air is pumped into them by means of a special compressor that filters and dries the air. The compressor itself is lubricated by peanut oil so that no toxic fumes from conventional oils can contaminate the air. Peanut oil is not toxic to the body.

Air used in the tanks is taken directly from the atmosphere with nothing added or taken away. Since it will be used, in this case, for pleasure diving, no alteration is necessary. However, if a deep dive in excess of 150 feet is planned, special air mixtures are necessary, using inert gases such as helium or neon, to replace nitrogen which could cause "the bends".

"The Hydronauts" held an ice dive recently at Lake Penage, and "The

on Ice Dive

After the saw has done its job of cutting the perimeter of the hole, the block is pushed under the surrounding ice. This tricky process requires use of all available manpower.

Triangle" was on hand to capture the action. One member of the group we talked to was Aird Romich, a plate-worker in the Copper Cliff plate shop. "I've been interested in scuba diving all my life but I just joined the "Hydronauts" about a year ago," said Aird.

"I stopped in at a Sudbury garage to have my car fixed," Aird stated, "and I noticed a scuba diving centre next door, so I went over to investigate. I found out that a course given by Cambrian College was being offered at the Copper Cliff pool, so I enrolled, and here I am."

Where he was happened to be on the snow-covered ice of Lake Penage, getting ready for his first ice dive. Ice dives, unlike dives held in summer, are much more physically demanding — both on the surface and underwater since, in order to get in the water, you first have to remove the ice covering, which in some cases can be up to three feet thick.

Initially, an area about five feet square is cleared of snow, and four holes at each corner of the square are drilled into the ice with an ice auger. A saw is then inserted in the holes, and a straight line is sawed through the ice between each hole. Once the ice is free-floating, it is pushed under the surrounding ice so that open water is exposed, and the dive is underway.

In an ice dive, each diver is connected by a rope, so that he can always find his way back to the hole. Otherwise a diver could get trapped underwater and not be able to get to surface.

According to Aird, the water is incredibly clear and bright. A surprising amount of light filters through the ice covering, giving a visibility of 50 feet which is excellent for viewing close surroundings.

What did Aird find? Would you believe an old golf ball and a frog! Yep, a frog! It was apparently floating around in the water from last summer or had been disturbed from its winter hibernation.

It is club policy not to disturb anything underwater, so that things will remain for other divers to enjoy. It is also much easier to take photographs, which most of them do.

When the dive is completed, the ice that had been pushed under the surrounding ice is pulled back up and set into place. The whole area is then covered with tree branches and snow so that no one can accidently fall in. The hydronauts believe that everything should be left the way it was found. And in some cases they may even improve on the situation.

Ice dives may be held in freezing waters, but a welcome sauna is on the agenda when the dive is finished, and what a way to end a perfect day!

Once a hole is drilled, a saw is inserted and the long job of cutting through is started.

Arthur J. Smith, President of The Conference Board In Canada, Joining International Nickel

Arthur J. R. Smith, president of The Conference Board in Canada since 1971, will join The International Nickel Company of Canada, Limited as vice-president, responsible for public affairs, effective May 1, it was announced by L. Edward Grubb, chairman and chief officer.

A distinguished economist, Dr. Smith was chairman of the Economic Council of Canada from 1967 to 1971, having served as director from 1963 to 1967.

From 1957 to 1963, he was secretary-treasurer and director of research for the Private Planning Association of Canada (now the C. D. Howe Research Institute) and served during the same period as director of research, the Canadian-American Committee, and secretary, the Canadian Trade Committee (1962-1963). From 1954 to 1957, he was Canadian economist with the National Industrial Conference Board. From 1950 to 1954, he was an economist with the Federal Reserve Bank of New York.

After receiving a B.A. degree from McMaster University in mathematics and political economy in 1947, Dr. Smith went on to Harvard University where he earned an M.A. and, in 1955, a Ph.D. in

economics. He is an honorary Doctor of the University of Calgary and holds an honorary Doctor of Laws degree from McMaster University.

Dr. Smith is a director of The Bank of Nova Scotia, Black & Decker Manufacturing Company Limited, IBM Canada Ltd., Interprovincial Steel and Pipe Corporation Ltd., The Manufacturers Life Insurance Company, and The Oshawa Group Limited. He is a trustee of The Forum for Young Canadians, and a member of numerous professional and educational organizations.

Shane MacKay Elected Regional Vice-President

Shane MacKay, vice-president of The International Nickel Company of Canada, Limited since April 1972, has been elected regional vice-president, with headquarters in Winnipeg, L. Edward Grubb, chairman and chief officer, announced. In addition to other corporate

responsibilities, Mr. MacKay will be Inco's corporate representative in Manitoba.

Mr. MacKay joined Inco in September 1967 as director of public affairs. He was an assistant vice-president of the company from April 1969 until his election as a vice-president.

Prior to his association with Inco, Mr. MacKay had been executive editor of the Winnipeg Free Press since 1959 and a director of the Winnipeg Free Press Company Ltd. from 1961 to 1967. A Nieman Fellow at Harvard University from 1951 to 1952, Mr. MacKay received his Bachelor of Arts degree from the University of Manitoba in 1946. He has had extensive editorial experience with The Canadian Press and the Reader's Digest Association of Canada, as well as with the Winnipeg Free Press.

Appointments

Divisional:

Hank Barkley, process supervisor, converter department, Copper Cliff.

Cesarino Battochio, senior drill technician, mines exploration, Copper Cliff.

Dick Beaver, assistant division comptroller, special financial projects, Copper Cliff.

Dave Browne, area geologist, Frood-Stobie area.

Thomas Callaghan, maintenance general foreman, Levack mine.

John Canning, mine foreman, Copper Cliff South mine.

Gregory Kuzyk, division supervisor, mines engineering, Frood mine.

Clive Lewis, superintendent, nickel refinery converters, Copper Cliff.

Fred Schuurman, senior process assistant, Iron Ore Recovery Plant.

Walter Shelegey, materials co-ordinator "B", maintenance construction, Copper Cliff.

Len Turner, division property analyst, Copper Cliff.

Walter Ukrainec, geologist, Creighton No. 5 mine.

Joyce Vallier, maintenance clerk-stenographer, Copper Cliff South mine.

Wim Vanderklift, geological assistant, Copper Cliff.

Hannu Virtanen, geological assistant, Levack mine.

Lenna Weatherill, computer operator, Copper Cliff.

Others:

Ken Brocklehurst, supervisor, budgets and sales accounting, Toronto.

Eric Carl, international service employee administrator, Toronto.

Ron Lee, supervisor, project accounting and contract administration, Toronto.

Gordon Lince, assistant to the director, Canadian Marketing Division, Toronto.

John Schope, manager, customer services, Canadian Marketing Division, Toronto.

Port Colborne On Ice

The worst ice storm in Port Colborne's history struck suddenly at 10 p.m. on Tuesday, March 2, and, coupled with high winds, left a trail of destruction.

Tree branches, heavily coated with ice, broke loose and came crashing down on power and telephone lines, completely shutting off the power supply and communications to homes in the southern section of the city. This resulted in widespread basement flooding and apprehension with regard to refrigerator and freezer defrosting.

With so many homes unheated and people unable to prepare meals, many of those not affected opened their homes up. Meals and beds were offered by people in both Port Colborne and Welland.

Those with fireplaces, aside from having a warm place where they could snuggle up for the night, found an abundance of wood.

Hydro work crews began immediately working around the clock to restore services, and with the assistance of Hydro crews from Hamilton, Oakville, Chippewa, Niagara Falls, St. Catharines, Thorold and Welland, had all power restored by noon on Saturday.

City clean-up crews were also working overtime to clear the streets of the debris piled up during the storm.

"Sudbury is Symbol of Accomplishment"

John McCreedy, Inco senior vice-president, addresses the 1976 convention of prospectors and developers in Toronto.

"As a symbol of the accomplishments of the mining industry, Sudbury is the source for a measure of comfort and hope for the mining business," John McCreedy, senior vice-president of Inco, told delegates to the 1976 convention of the Prospectors and Developers Association.

"After weathering 90 years, umpteen governments, shifting social and political sands, wars, depressions and roller-coasting markets, Sudbury is still doing business at the same old stand, churning out wealth for this nation, providing steady employment, generation after generation, and looking ahead as it has always done, now to the years beyond 2000," he said.

Mr. McCreedy noted that in earlier years, and extending well into the 1920's, there was a never-ending struggle for corporate survival in the face of keen competition and lack of markets. "The world did not beat a path to Sudbury for nickel. Rather, a thousand paths were beaten around the world in search of markets. A wealth of talent and money was invested in research over the years to make nickel a valuable Canadian product in world markets. Industrial applications were developed for Sudbury nickel and customers were created. It is interesting to note that the rich nickel ores of New Caledonia, which are easier to mine, were discovered before the Sudbury deposits. Yet it was Sudbury that became — and remains — the nickel capital of the world."

Mr. McCreedy told the delegates that Sudbury enriches Canada every year with hundreds of millions of pounds of newly-recovered metal. "Considering about 95 per cent of it is exported, its contribution to this country's economy becomes very significant. In 1974, exports of Sudbury nickel exceeded $700 million. With copper and other metals, 1974's export figure was over the billion dollar mark."

John McCreedy, whose mining career started with Inco in Sudbury over 25 years ago, said that Sudbury has provided tens of thousands of steady jobs for Canadians from all walks of life. "Sudbury's jobs were made the hard way, by fighting for sales against competing materials and nickel from other countries in international markets. No government can take credit for keeping Sudbury miners employed. Sudbury's jobs are the direct result of metal sales to customers in dozens of countries around the world."

John McCreedy, senior vice-president.

The senior vice-president said, "In telling our story, we should never forget to emphasize the multiplier effect from the hundreds of millions of dollars spent with suppliers in Canada. Estimates by the Mineral Resources Branch of the Federal Department of Energy, Mines and Resources indicate that Canada's total mineral-dependent labor force is about 1.5 million. Which just goes to show that many of our critics, in today's interrelated society, are biting the hand that indirectly feeds them."

Sudbury has also been the source of technical advancements that have not only benefitted the mining industry in Canada and other parts of the world, but have also done their bit in raising the standard of living for all mankind.

The development of more than half of the some 3,000 nickel alloys in use in the world today was stimulated by research fathered by Sudbury.

Sudbury has also stimulated technical progress in the industry too. In Sudbury, for instance, there was a time when the primary interest was in the nickel and copper contained in the ore. Today, 15 elements are recovered from Sudbury sulphides.

Sudbury pioneered the commercial use of oxygen in liquidphase pyrometallurgy; created a process for direct flash-smelting of sulphide concentrates with oxygen; and started a commercial plant for oxygen-flash-smelting copper flotation concentrates to copper matte.

"Since setting up a geological research section at Sudbury in the mid-1930's, we have mined many hundreds of millions of tons of ore," Mr. McCreedy continued. "Despite this, present ore reserves outlined by Inco's geologists in Sudbury are at an all-time high."

The airborne magnetometer was first used commercially in Precambrian terrain at Sudbury in 1947. It was notably successful in locating phyrrhotite and magnetite deposits, but it was the development of the first practical airborne electromagnetic system by Inco scientists and engineers at Sudbury, in cooperation with McPhar personnel, that constituted a breakthrough in exploration.

"Incidentally, a physicist who once worked on the development of the AEM system was assigned many years ago to the deep-ocean nodules project and is now working with the present Inco-initiated international consortium," the Inco senior vice-president stated. Nickel-containing manganese nodules are found on the sea floors of the Pacific, Atlantic and Indian Oceans. It is estimated that there are 1.5 trillion tons of mineral-rich nodules on the Pacific Ocean floor alone. Mr. McCreedy noted lateritic deposits and deep sea nodules as sources of nickel in the near and far future.

"I am making a point of mentioning other sources of nickel, because my company has, for a number of reasons, set an optimum production level of 520 to 540 million pounds of nickel annually for our Canadian operations. Sudbury will remain the nickel capital of the world for many years to come, but, inevitably, its role will diminish as production rises throughout the world to meet annual growth in demand, which we estimate at about 6 per cent. By far the largest available nickel reserves are lateritic. While these are not a threat at this time to Canadian operations, this may not necessarily be so in the future because of rising taxes and costs."

Sam Laderoute, left, and Jeff Ortankos lead the way during opening ceremonies of the Sudbury Bonspiel of Champions. Both are with the Copper Cliff Highlanders.

The winning rink — from left, Bob Collez, lead; Ed Thompson, second; John Usakis, vice, and Orest Meleschuk, skip. The foursome hailed from Winnipeg, and skip Meleschuk was the 1972 Brier winner. Inco Ontario Division vice-president, Charlie Hews, right, did the honors at the Idylwylde Golf and Country Club.

Sudbury Bonspiel of Champions

The Paul Savage rink, from Toronto, in conference during the final end of the game which they eventually lost. In competition of this caliber there is no room for errors.

The staccato sound of two brooms slapping ice in perfect unison echoed through the frigid air. It was bolstered by shouts of "Yes! Yes!" which reached a crescendo and then died. The centre of all this attention was a 40-pound chunk of granite and a two-pound handle, sliding along the pebbled surface of a sheet of ice.

We're talking about curling, of course. But not just your friendly neighborhood match. This is championship curling, with rinks from all across Canada competing for $15,000 worth of copper and nickel products.

The title of the tournament was the Sudbury Bonspiel of Champions. It was billed as the premiere curling event of the season, and it certainly lived up to expectations.

Held at the Idylwylde Golf and Country Club, the bonspiel was officially opened by Joe Fabbro, chairman of the Regional Municipality of Sudbury throwing the stone to a broom held by Ron Taylor, Ontario Division president, with Jim Gordon, Sudbury Mayor and Dick Dow, Regional Vice-Chairman, sweeping. Competing teams were piped in during opening ceremonies to the skirl of bagpipes from the Copper Cliff Highlanders.

Spectators could watch the three-day event from bleachers set up in the lounge of the Idylwylde. As the final day arrived, curling fans jammed the bleachers to watch the championship match, carried live over CKSO-TV.

The Paul Savage rink from Toronto met the Orest Meleschuk rink from Winnipeg to determine the overall champion. And what a match it was! The result was in doubt right down to Savage's second stone in the 10th end.

Meleschuk was lying two at the top of the four-foot circle. To the side on the eight-foot circle was the white stone of Meleschuk and the black-handled stone of Savage.

After a lengthy discussion among his crewmates, Savage chose to raise his rock to the inside of the two shot rocks. Thus Savage would be protected with Meleschuk throwing last.

Unfortunately, Savage's throw came down the wrong side. The shot, having failed to nudge Savage into scoring position, meant that the Sudbury bonspiel was over and Meleschuk was the "champ."

In accepting the winning trophy, Meleschuk said, "This is one of the most exciting matches I've curled in, but on top of that, it was really Sudbury's northern hospitality that made this event."

HOTLINE comes to the PORT

Dial 835-2454

Effective the first of April, Inco's HOTLINE picks up its first extension phone, and that is in Port Colborne.

The number of callers dialing the Sudbury number has grown almost every day until it recently reached over 1,200 in a day. Now it is hoped that the Port Colborne employees and others will have access to a HOTLINE that will be tailored just for them.

Dianne Dionne will be the hostess on this edition of HOTLINE as well as the Sudbury set-up, and the daily information service will involve many Port Colborne Incoites in their various fields of expertise.

And the big news is that the Port Colborne HOTLINE will be at 835-2454. That will be the number for Port Colborne. Sudbury callers, growing in number daily, will still call 682-0626. For those Sudbury callers outside the Sudbury exchange, the long distance toll-free number remains Zenith 10170.

Featured on the Port Colborne HOTLINE will be news and notes that are important to those in the Niagara Peninsula. The HOTLINE will be changed before nine each morning, seven days a week, and will have the capability of being up-dated as required more than daily.

HOTLINE commences in Port Colborne April 1st. The number is 835-2454. Dial it and see, it will become a happy habit.

Spring Tune-up

There's no doubt about it — cars cost big money. And today's higher new-car prices are forcing many motorists to squeeze an extra year or two out of their present cars. The decision is one of simple economics, but there's a price to pay . . . more maintenance, and more replacement parts.

Right about now, the emphasis is on that oh-so-familiar spring tune-up, but before you head for your favourite garage or dealership, a piece of advice . . . don't just go through the motions; there's a lot more to a proper tune-up than a quick oil change and new plugs and points!

A complete, full-scale tuning not only promotes longer life for your car, but also goes a long way in conserving Canada's energy supplies.

Tune-up Tips:

The fan belt should be inspected and adjusted, and the carburetor air cleaner examined. A dirty air filter can act like a choke on a car and cut gasoline mileages by as much as 10 per cent.

The choke must be checked to ensure that it's functioning properly. If slow or stuck, it can force the engine to draw too much gasoline, thus not only increasing gas consumption by up to 30 per cent, but quite possibly causing damage to the engine.

Spark plugs should be cleaned, regapped, and changed as needed — usually about every 10,000 miles. Just one faulty plug can mean a loss of as much as two miles per gallon.

Ignition points should be checked, and the timing set according to manufacturer's specifications.

Engine oil should be changed; the oil filter, which removes solid impurities from the oil, should be changed every 4,000 miles or so.

Be sure your car is fitted with the proper thermostat; an engine running too hot or too cold will burn extra gasoline. Have the cooling system checked, including hoses. Flush out and replace radiator antifreeze.

Be sure tires are correcly inflated; under-inflation will increase rolling resistance and burden the engine, thereby using up extra gasoline. A wheel balance might be in order, particularly after a winter of northern driving conditions.

And just for the record . . . the Canadian Automobile Association tells us that fuel economy drops noticeably at speeds above 50 m.p.h., and falls off at an increasing rate at higher speeds.

Again, just for the record . . . a car pool of only four people would save each driver as much as 75 per cent of his total monthly driving. That means that just by increasing the present 1.3 passenger load to 2.3, Canada could save about three million gallons of gasoline each day!

Family Album

From Sudbury, meet Frank and Colleen Malito and their three children. That's Anthony, 11, beside dad, Lisa, 10, in front of mom, and Dean, 8. Frank is a security guard in the Copper Cliff area and enjoys a good game of hockey in his spare time.

This is the Carl Gourley family from Lively. He and his wife, Bunny, have four children. Beside Carl is Gordon, 18, and Albert, 10, while daughters, Nancy, 17, left, and Beth, 14, bring up the front, with dog "Snoopy". Carl is chief mines geologist with the mines exploration department in Copper Cliff.

This is the young family of Dale and Judy Duetta. Dale is a project leader with process technology at the Iron Ore Recovery Plant. Wide-eyed Kory, 1, sits on mom's lap while Colin, 2, gives dad a place to rest his hand.

From the Port Colborne nickel refinery we have Paul and Roseanne Ivanich with Danielle, 1, and Christian, 3. A member of the electrical department, Paul almost made it to the C.F.L. when he was a member of the Port Colborne High School football team.

Levack Mine Captures R. D. Parker Shield

Representing the Copper Cliff mines are, front, from left, Gary Patterson, captain, and Wayne Jennings; back, from left, Ray Haert, Ray LaBelle, and Brent Palmer.

From the Frood-Stobie complex are, front, from left, Gord Evans, captain, and Bruno Serre; back, from left, Bob Leonard, Mike Forget, and Gord Black.

Representing the Creighton complex are, front, from left, Perry Kirkbride, captain, and Gordon Blackwell; back, from left, Conrad Moxam, Robert Zyrma, and Alan Walker.

Representing the Garson complex are, front, from left, Ivan Moore, captain, and Marcel Potvin; back, from left, Bill Glogger, Bill McDonald, and Flemming Jensen.

From the Levack area are, front, from left, Al Weiman, captain, and Stan Allan; back, from left, Gerry Gravelle, Marcel Larabie, and Andy Lalonde.

In a tense and exciting battle at the Sudbury Inco Club between the Ontario Division's best first-aid teams, the Levack mine group, coached by Al Weiman, won the Parker Shield as 1976 Inco Ontario Division inter-plant first aid champions.

The maintenance field force entry, captained by Paul Prudhomme, was the runner-up for the coveted title.

A realistically staged accident at the "Sure Fire Exploration and Mining Company" gave the teams plenty of scope to display their first aid knowledge and skill. Employees were drilling a number of test holes when the call for help was received by the first aid teams.

As usual, the problem for the final competition produced plenty of surprises to test the ability of the first-aiders in a crisis, such as a "surprise accident" that occurred as a result of an explosion in another area of the initial calamity.

The competing teams were allotted 45 minutes each to complete the problem, with warnings given at the 35 and 40-minute marks.

The victorious Levack mine first aid team — division champions and winners of the coveted R. D. Parker Shield. Looking remarkably relaxed after a gruelling competition, from left they are, Marcel Larabie, Andy Lalonde, Ontario Division president Ron Taylor, who made the presentation, Marvin McLaughlin, coach, Al Weiman, captain, Stan Allan and Gerry Gravelle.

Runner-up in the R. D. Parker Shield competition was the maintenance field force first aid team, under the direction of captain Paul Prudhomme. Here part of the team is involved in hoisting an accident victim. At the top, from left, they are Phil Perras, Ken Glynn, bystanders, and team captain Paul Prudhomme. Assisting from below is Rod Burns.

staff opportunities program

Three years ago, the Ontario Division introduced a "staff opportunities program," aimed at filling vacant, non-supervisory positions from within the company.

The original purpose of the program, then as now, was to provide a better means of informing employees of job openings as they became available, thus giving staff members first chance at furthering their careers.

The way it works, is . . . when a permanent vacancy develops within a department, the department head first of all tries to promote someone from within. If this isn't possible, our staff opportunities co-ordinator, John Spec, is advised, and he, in turn, will advertise, either on bulletin boards at readily-accessible office locations, or by circulating memos to small work groups located in the more remote areas of operation.

This advertising continues for seven days. All permanent employee applications are directed to the staff opportunities co-ordinator, and the most qualified candidates are interviewed by the department head involved. The successful applicant is transferred as soon as possible, and all others are made aware of the final decision either by letter or telephone.

Does the system work?

You bet!

Since inception, over 600 vacant positions have been advertised, representing a total of over 1,850 applications. More than 370 positions were filled from within the company, with the balance filled by established hiring procedures.

The success of the program is attributed to "the warm response of qualified employees who have indicated a genuine desire to shoulder increased responsibility, reinforcing the belief that employees involved in the management of their own careers can contribute more effectively to their own success, and, therefore, to that of the company".

Members of the employee benefits department stop for a moment to check a staff opportunities bulletin board. From left are Richard Myher, benefits counsellor, and stenographers Deborah Caverson and Kathy McKie. Photo was taken just prior to Deborah's March 15 transfer to the Copper Cliff nickel refinery as receptionist.

From the Copper Cliff copper refinery are, front, from left, Frank MacKinnon, captain, and Austin Burns; back, from left, Tim Morse, Michel Danis, and Rick Brignolio.

Joffre Perras, compensation claims administrator with Inco's safety department, was the creator of this year's test problem. "The setting was one of the most difficult to date," said Joffre. "We've never been able to dig a hole in the floor, so this time we created a simulated hole by using scaffolding and tarpaulins."

Ontario Division president Ron Taylor presented the R. D. Parker Shield to the victorious Levack team and prizes to the runners-up. Mr. Taylor congratulated team members for their skill and calm thinking under pressure and also expressed appreciation to the judges and others who contributed their efforts to the program.

To reach the Parker Shield final, a total of 14 teams worked their way through semi-final competitions for the D. Finlayson and H. J. Mutz trophies. The nine surface plant teams who competed for the Finlayson trophy are shown on the right, while teams from the five mine areas who competed for the H. J. Mutz trophy are pictured at the left.

Representing the Copper Cliff nickel refinery are, front, from left, Wayne Sawyer, captain, and Claude Belanger; back, from left, Chris Nadjiwan, Gerry McIntaggart, and Dick Delorme.

This is the maintenance field force team. They are, front, from left, Paul Prudhomme, captain, and Bob Vendramin; back, from left, Ed Norquay, Rod Burns, and Robin Erickson.

From the transportation department we have, front, from left, Larry Stevenson, captain, and Jim Kmit; back, from left, Bob Ross, Bob Paradis, and Norm Quesnel.

From the Copper Cliff smelter are, front, from left, Ernie Fournier, captain and Mike Bellehumeur; back, from left, Reg Gareau, Gerard Benedetti, a Jim Johnston.

Representing the I.O.R.P. are, front, from left, Jim Barclay, captain, and Charlie Fraser; back, from left, Curt Osborne, John Vera, and Bill Meesen.

Representing the Port Colborne nickel refinery are, front, from left, Barry Bitner, captain, and Archie Ferguson; back, from left, Jack Pearce, Joe Torok, and Kyle Crawford.

Representing maintenance construction are, front, from left, Guy Bidal, captain, and Maurice Paquette; back, from left, Al Fierman, Frank Kuznik, and Julien Savage.

Representing matte processing are, front, from left, Al Burns, captain, and Mohan Dhillon; back, from left, Gary Muise, Adrienne Lachance, and Terry Closs.

Ron Santala, left, senior system operator, and Joe Harris, supervisor of operations, power section, discussing possible changes to the power system.

Inco Sudbury Operations:

Electric Power Bill for 1976 Estimated to Reach $22 Million

Inco Generating Plants Provide 17 Per Cent of Annual Electrical Energy Requirements

Back in 1973, Inco's Sudbury operations' power bill amounted to $13 million. In 1976, the total electric power bill is estimated to reach a staggering $22 million! Little wonder, therefore, that the power section of the central utilities department is always looking for means to hold the line on ever-escalating power costs.

One way of controlling power costs is by controlling the peak of power purchased from Ontario Hydro, which provides approximately 83% of our total requirements. The remaining 17% of the annual electrical energy requirement for the Sudbury operations is provided by Inco's own generating facilities.

Since an industry such as Inco is billed not only for the total monthly power consumption but also for the peak rate, it is important to keep this peak as low as possible.

In other words, the ideal condition would be one in which the average consumption of power used would be at a level or constant rate. A "load factor" of 100% could then be achieved under these conditions, provided that the power consumption and the set peak were identical.

Although this is practically impossible due to the nature of our operations, this is the target, because for every one per cent increase in the load factor, the power bill is cut by approximately $80,000 annually.

It was much easier to maintain high load factors during the 1960's, because Inco was operating mines and plants on a seven-day basis. Today, however, the situation has changed considerably, with most mines working only a five-day week. Loads tend to fluctuate over a weekly period, dropping on weekends and picking up during the week. In view of this, the 92.8% load factor for February 1976 is quite impressive, since load factors of over 91% are rarely achieved.

There are several good reasons for this achievement. One of them is the monthly

setting of the Hydro peak which is established at a regular meeting of a group from the central utilities department. The group contributes information related to the setting of the lowest practical Hydro peak.

This information includes water availability and generating capability of Inco's electric generating plants, the operation status of the I.O.R.P. steam turbo generators, the status of mine and plant electric power requirements for normal operation, as well as information regarding new equipment starting up and planned shutdowns of major loads on the system. An example of this could be the shutdown of the No. 2 oxygen plant which makes up 5% of the total 60-cycle system load.

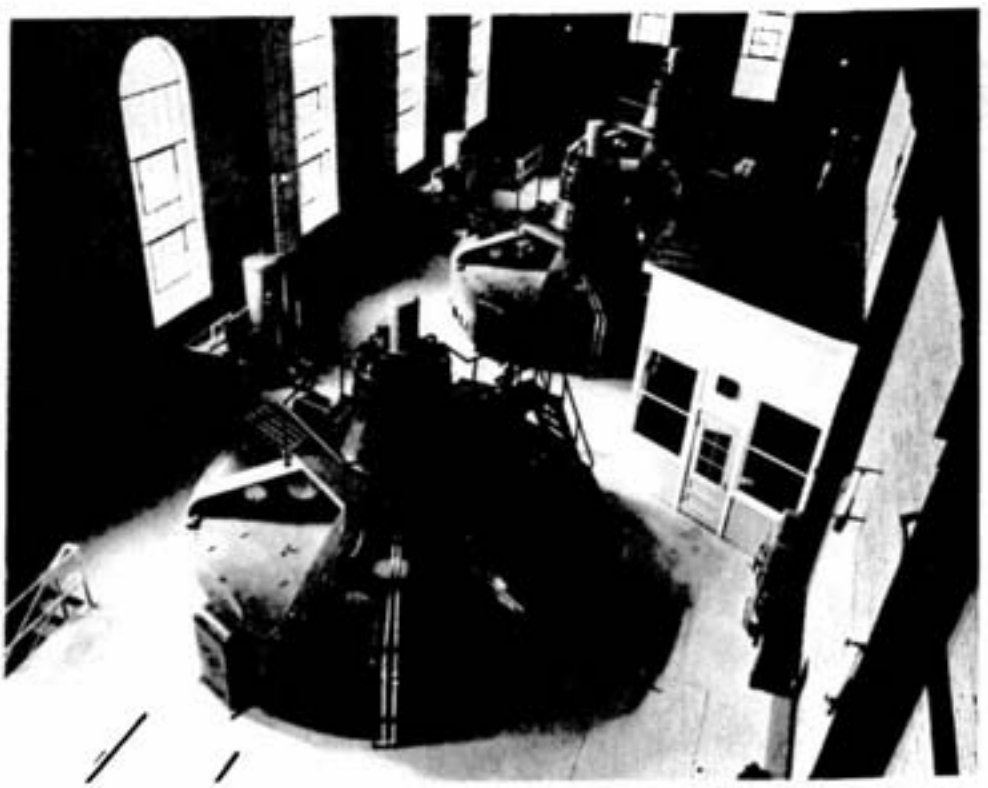
Once this peak has been established, it is then up to the system operator in the main control room at No. 1 sub-station at the Copper Cliff smelter to try to maintain this peak at the set level. Equipment in the control room is constantly monitored, and when a situation arises in which the set peak might be exceeded, the operator uses "peak control" which is made up of normal and emergency control.

Peaks are set so that they can be readily maintained by using only normal peak control. This includes regulating Inco generating output, shutting down electric furnaces, cutting back power to the electrowinning tank house rectifier and holding start-up loads of 500 H.P. or over until system conditions permit.

Emergency controls are used in situations where temporary failure of the supply of Inco generation occurs. These controls include requesting reduction of mill loads and reducing skip hoisting up to two hours per day at certain mines.

Credit must be given to the Inco generating plants that not only assist in holding down peaks, but also provide some 17% of the annual electrical energy requirements for the entire Sudbury operations.

Yves LeBorgne, left, system operator at No. 1 sub-station, and Reg White, system operator trainee, at one of the main power distribution control panels.



A view of the three generators in the "Big Eddy" powerhouse, located one mile upstream from High Falls. It is Inco's largest power plant, with an output of 24,000 kilowatts.

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

Over 150 curling enthusiasts turned out for this year's 12th Annual Invitational Bonspiel, sponsored by Inco's general engineering group. According to chairman **Chuck Mossey,** the two-day spiel saw 36 teams competing for valuable prizes. The Stan Morrow team, consisting of **Stan Morrow,** skip; **Ed Nevala,** vice; **Ed Gionet,** second, and **Dave Paganucci,** lead, took first prize honors. It was readily agreed that members of the bonspiel committee, **Henry Flacconi, Jack Perron, Carl Rollo, Doug Moxam, Denis Noel, Benney Falcioni** and **John Jack,** did an outstanding job of organizing the popular event.

Back In 1871 . . .

An item of interest to our many carpoolers: . . . there's been a lot said about carpool members who smoke, eat, or have other habits which may offend fellow passengers. The following rules were developed by the most experienced ride-sharing firm of its day — Wells, Fargo & Company. These dos and don'ts were posted in each stagecoach in 1871, and may be helpful to modern-day carpoolers:

"Abstinence from liquor is requested, but if you must drink, share a bottle. To do otherwise makes you appear selfish and unneighborly."

"If ladies are present, gentlemen are urged to forego smoking cigars and pipes as the odor of same is repugnant to the Gentle Sex. Chewing tobacco is permitted."

"Gentlemen must refrain from the use of rough language in the presence of ladies and children."

"Don't snore loudly while sleeping or use your fellow passenger's shoulder for a pillow as friction may result."

"Firearms may be kept on your person for use in emergencies. Do not fire them for pleasure or shoot at wild animals as the sound riles the horses."

"In the event of runaway horses, remain calm. Leaping from the coach in panic will leave you injured, and at the mercy of the elements, hostile Indians and hungry coyotes."

"Gents guilty of unchivalrous behavior toward lady passengers will be put off the stage. It's a long walk back. A word to the wise is sufficient."

Larry Harbour, ham radio operator and Huntington Alloys employee, provided the missing link for communication lines broken between Canada and Guatemala during the Guatemalan earthquake this past February. **"Bob Simmons,** president of Huntington Alloys, Inc., called me at home," Larry explained. "He said he'd heard I had the communications equipment to reach Guatemala, and he and Canadian officials needed my help. They thought it would be easier for someone in West Virginia to reach South America than someone calling from Canada. Naturally, I told him I'd be happy to do what I could." Through Larry's efforts, Inco's employees at Exmibal were informed that help and assistance were on their way.

Photographed in 1911, this was the Creighton Mine baseball team, winners of the Ontario championship that year. Players and other associated members of the team were, front row, from left, **"Touter" Leckie,** captain; **Jim Irish,** mascot; **Pat Potvin** and **Herb Stokie.** Second row, **Casey Jones; Jim Swain; Pat Patterson; Van Vansickle; Nick Nichols,** manager;**Ollie Golinsky; Chuck Roberts; "Sleepy" Somerville** and **"Fat" Wilson.** Back row, **Dr. Bennett; Jim Regan; "Slim" Campbell; Jerry Avard; "Polly" Winks; "Fat" Henderson,** and mine manager **Captain Hambly.**

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

Winter golf schools are indoor ventures commencing generally in early January and operating until golf is being played in the spring. Primarily, they serve two basic functions: firstly, it is an excellent opportunity for the beginner to learn the proper grip and swing, while secondly, the better players can use the facilities to keep their golf swing in shape over the winter months. The Port Colborne High School operates this school as an adult education course. The instructor is **Pat McNulty,** a well-known amateur golfer in the Niagara area. Here **Gladys Hanham** is receiving some instructions from Pat on the proper grip and alignment of the club while her husband, **Doug,** supervisor of analytical services at the Port Colborne nickel refinery, lends an attentive ear. Although Doug has some previous experience, Gladys is a beginner, but both are looking forward to some fun and exercise on the fairways this summer . . . FORE!

* * *

A reminder that the full-size 25 by 20-inch **R. D. Wilson drawings** are again available for $10 per print. Make cheques payable to "The Triangle", The International Nickel Company of Canada, Limited, Copper Cliff, Ontario, P0M 1N0. A receipt will be sent, and your prints forwarded in non-crushable tubes as soon as your order is received.

Harry Moorehouse, superintendent of Sudbury's mine rescue station, centre, explains the workings of a Drager BG174 self-contained, closed circuit breathing apparatus to mine rescue team members, from left, **Mike Archambald,** Creighton mine, **Keith Taylor,** Copper Cliff North mine, **Bruce Galt,** Stobie mine, and **Bernie Haaland,** Creighton mine. The two-day course, which is presented by the Ministry of Natural Resources, trains personnel in the proper handling of equipment used in fighting underground fires and other mine related emergencies. Once the basic course is completed, men are required to return for a one-day refresher course every two months. On the right, Harry attaches the "Drager" to **Dr. Pat Dyer,** occupational physician with Inco's Occupational Health Department. The unit uses compressed oxygen at 3,000 P.S.I. pressure and boasts a filtering device to recirculate the oxygen without any of it entering the environment.

* * *

Pete Pula, assistant superintendent, maintenance and engineering, with P. T. International Nickel Indonesia, has sent along a copy of the first edition of "The Pelita", a community newsletter produced by interested people in Soroako, with the help of Inco's recreation department. While the main purpose of the paper is to inform, a secondary objective is to draw different localities into a more closely-knit community. The "Pelita" — means "lamp" or "light" — contains items in both English and Indonesian, and is directed to members and families of Inco, Dravo, and Bechtel. "The Triangle" sends wishes for success to those involved in this new communications venture.

Your call's are invited to the

Inco Hotline

Sudbury

682-0626

Port Colborne

835-2454

For callers outside the Sudbury exchange, the long distance toll-free number is ZENITH 10170.

Keep up-to-date on company news, appointments, safety, weather, company benefits, etc.

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

Vi Taylor, left, wife of Inco Ontario Division president **Ron Taylor,** presented a $10,000 cheque to the Sudbury Y.W.C.A. on behalf of the company. **Joan Fraser,** chairwoman of the campaign committee, accepted the cheque during an afternoon tea held at the Church of the Epiphany in Sudbury. The money will go into the general fund and will be used for many of the "Y's" community activities. In addition to the Y.W.C.A. residence in St. Andrew's Place, the "Y" also runs "La Paix", a crisis center operated within the Y.W.C.A. by the Sisters of Charity. The bulk of the "Y's" program is geared toward activities for women and children.

Lamproom attendant **Jim Basalle,** of Creighton No. 9 shaft, carefully places a cap lamp into the charging rack after a shift's usage underground. Jim, Creighton's lampman for the past eight years, says, "Looking after 1,350 lamps is quite a responsibility. Not only do they have to be fully charged at the start of shift, but they also have to be in top working condition." Jim is proud of the fact that the boys appreciate his fine service. "I know what it's like to have a reliable lamp underground", said he, "after all, I was a driller for over 16 years before I started on this job." It is interesting to note that a weak cap lamp can be fully recharged in four hours.

Agricultural specialist **Garry Simmons** carefully tags a tree adjacent to the property where Inco's Canadian Alloys Division rolling facility will be constructed. According to Inco's agricultural department, everything is being done to minimize the impact of construction on the natural vegetation at the construction site. Operations are expected to start in mid-1977.

That's Inco's fleet of lift trucks, operated by the transportation department in Copper Cliff. Boasting an average lifting capacity of 6 to 7 tons, the trucks are sent to different plants and mine sites from the dispatcher's office. For a more efficient operation, a number of the units have been equipped with two-way radios. The skilled operators are, from left, **Roger Spencer, Pete Parisotto, John Turner, Walter Precholko, Walter Pihursky, John Berube, Felix Lalonde** and **Reg Lamirande.**

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

An interesting note from Copper Cliff North mine . . . **Paul Selzer,** of Haileybury, toured the mine on November 12 of last year. He recently wrote to **Grant Bertrim,** superintendent of the mine, mentioning that, while on tour, he lost his 10K gold castletop signet ring with blue sapphire stone and the initial "P". The ring was "placed in a set of size 42 coveralls, in the lefthand pocket, and I forgot to remove it. Could you please tell me if this ring has been found?" On February 11, Grant was able to return the ring, which had been located at Sudbury Steam Laundry!

* * *

It's hard to believe, but in excess of **10,000 tons of "salt-sand",** a mixture of sand with a minimum salt content of five per cent, have been spread on roadways and lots within Inco's Copper Cliff complex so far this winter. Said **Ken Johnston,** manager of transportation: "What with all the snow during the past few months, our spreader trucks have been kept on constant alert. Hopefully, spring will come early. Believe me, it's been one snowy winter!"

* * *

Jane Moore, Inco's supervisor of recruitment and benefits in Toronto, discusses the Inco Participating Scholarship Program with the selection committee chairman, **Dr. W. M. Williams,** head, department of mining and metallurgy, McGill University, centre, and **Dr. J. M. Pepper,** head, department of chemistry and chemical engineering, University of Saskatchewan, at a recent meeting of the six committee members in Toronto. The selection committee consists of two representatives from universities in the western provinces, two from Ontario and two from Quebec and the Atlantic provinces. Following the meeting, 42 participating scholarships in engineering and the physical sciences were awarded by the company to students at 15 Canadian universities for the 1976-77 academic year. Started in 1971 and known as The International Nickel Company Participating Scholarships, the awards have a possible tenure of two years and provide, during the summer, an opportunity for employment with Inco. Awards are made on a year-to-year basis, and may be considered for renewal for one additional year. Each award provides for tuition and fees for the recipient plus a grant of $300 for miscellaneous expenses and an aid-to-education supplement of $500 to the department or division of the faculty in which the student is enrolled. The participating scholarships are part of International Nickel's extensive educational aid program.

Shebandowan mine geologist **Don Moses,** complete with balaclava which he wears as protection against the cold, doesn't look any the worse for wear as he arrives for work at the plant site. Prior to freeze-up, it takes Don some 25 minutes to drive his car to work. Once winter sets in, however, his means of transportation reverts to a snowmobile. By crossing Lake Shebandowan, his distance is cut to three miles which he negotiates in seven minutes!

This photograph proves that the Sudbury and Shebandowan areas didn't get all the snow this winter! It was taken along Lakeshore Road at Guenther's Grove, just west of Port Colborne. During the summer months, this particular spot on the north shore of Lake Erie is a beehive of activity as **Dillon Guenther, Jr.,** continues to operate the trailer park and camping ground started by his father many years ago. The senior Dillon had been an Inco pensioner after 26 years of service at the Port Colborne nickel refinery.

NEWSMAKERS . . . NEWSMAKERS . . . NEWSMAKERS . .

Safety supervisor **Leo Pevato,** centre, carefully checks over a 35-mm color slide with I.O.R.P. operations assistant **Len Shore,** left, and I.O.R.P. safety supervisor **Don Elliott,** right. Leo has been assigned to Inco's Exmibal operations in Guatemala for the preparation of an extensive safety program. He has spent recent months with safety personnel at Inco plants in Ontario and Manitoba to develop a detailed outline of major sections of the various operations and adopting these proven ways and means to satisfy the safety need in Guatemala. "Thanks to the valuable assistance from our many safety supervisors at Canadian operations," said Leo, "an extensive operations and maintenance training program has now been initiated at Exmibal. It is aimed directly at equipping Guatemalan employees to perform the duties and functions required for each assigned job."

Like it or not, it's "that" time of year again. And once again, most of us will find that the tax forms are most "taxing" — if you'll pardon the pun — but whether you have to pay, or can claim a refund, that 1975 return must be filed by April 30, 1976. A couple of new items may affect your return . . . there's a pension income deduction which will reduce taxes for most pensioners; an expanded interest and dividend income deduction; more deductions can be transferred between spouses; there's a special investment tax credit to stimulate Canadian business investment, and this year, you can be credited for Ontario political contributions. So check the tax guide, grab your calculator, and get going!

* * *

Brenda Blais, a first-year geology-technology student at Sudbury's Cambrian College, is all smiles as she accepts a $100 CIM bursary award from **Milt Jowsey,** chairman of the Sudbury Branch of the Canadian Institute of Mining and Metallurgy. The award is presented annually to the student with the highest marks in the geology study field.

A new film titled "The Inco Regatta" was recently premiered at the Copper Cliff Club. Produced on location at Sudbury's Lake Ramsey, the film depicts the first annual Inco Regatta, held last June. The seven-minute film had the audience recall lazy summer afternoons when all one had to worry about was the wind in the sails. There was even a sailboat, complete with mast, inside the Copper Cliff Club to refresh the memory. Discussing sailing are, from left, **Gary Janz,** film-maker, **Jim Balleny,** commodore of the Sudbury Yacht Club and **Larry Banbury,** Inco Regatta chairman for the Yacht Club.

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

A clerk at Shebandowan mine, **Line Loynachan** recently presented a $150 cheque on behalf of the company to **Mike Fogan,** president of the Thunder Bay Wrestling Club, and hoistman at Shebandowan mine. According to Mike, the money was used for the purchase of sweat and warmup suits.

* * *

Ovila Vincent, day foreman at the Iron Ore Recovery Plant, has been officially honoured for his 12 years of service with St. John Ambulance in the Sudbury district. Following a banquet at the Chateau Laurier in Ottawa, a special presentation was made at Ottawa's Government House by **Governor-General Jules Leger,** designating Ovila as a "Serving Brother". Ovila is naturally quite pleased about the whole affair, and on behalf of our readers, the "The Triangle" says "congratulations and good work."

* * *

Copies of **Inco's 1975 Annual Report** are now available. Send your request to the public affairs department of The International Nickel Company of Canada, Limited, Copper Cliff, Ontario, P0M 1N0.

Walking away with first prize honors in a competition that has 2,253 participants vying for top prize is no easy accomplishment. But **Blair Woodley,** 17-year-old son of **Warner Woodley,** Inco's director of administration, did just that at "Quarterama 76", the largest single-breed horse show, held in Toronto recently. Blair accumulated the most points throughout the show, against participants from all corners of the North American continent. Blair is pictured with "Pussy-Jay", his 15-year-old quarter horse, as he is getting ready to accept the "High Point Canadian Youth 14-18" trophy.

* * *

Wilf Rochefort, general mine foreman, Creighton mine, and **Bob Corrigan,** mine captain at Falconbridge North mine, will be guest speakers at the April 1 smoker meeting of the Sudbury Branch of the Canadian Institute of Mining and Metallurgy. The session which will cover the application of electric load-haul-dump equipment, is under the chairmanship of **George Johnston,** superintendent of Inco's industrial engineering, mines and mills. The meeting gets under way at 8 p.m. at the Northbury Hotel.

* * *

A sure sign that spring is fast approaching — the Sudbury Horticultural Society is well underway with display and competition plans for the 1976 season. The African Violet show takes place on April 25, and the spring flower show will be held May 30, both at St. Andrew's Place, second floor activity area. The Inco competiton — Class "J" Gardens — is open to residents living within a 15-mile radius of Sudbury, including Levack, and offers prize money and awards on the basis of the best home surroundings, with consideration given to site, attractiveness of layout, neatness and quality of growth of lawns, shrubs, flowers and gardens. Membership in the Society is not required for this particular competition.

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

The Copper Cliff Peewee Allstars were on their way to a hockey tournament in Noranda when this picture was snapped. Some 40 teams from Quebec and Ontario participated in the competition, sponsored by the Kiwanis Club. This year, for the first time, there was no body contact allowed. "It was beautiful hockey to watch," said team manager **Gerry Bertrand,** "we just sat back and enjoyed it." Gerry works in the pay office at Copper Cliff and was accompanied by **Dominic Brunelle,** the team's official bus driver, **Gerry Mills,** team coach, who works in the Copper Cliff warehouse, and trainer, **Les Osborne,** with safety and plant protection at Creighton mine. The Copper Cliff Peewees were out of town for four days and ended up with a one win and one loss record. On the way back from Noranda, the bus broke down outside of Wahnapitae and team members shivered in the cold for an hour before an alternate bus could be found to take them home. All in all, it was an enjoyable and satisfying trip, and you can bet everyone slept well that night!

Garson mine motorman **Peter Wszko,** left, and powderman **Tauno Perla** discuss the day's powder requirements prior to pulling a load of explosives into the Garson mine headframe, from where it will be sent to different levels underground. Special care is taken, and proper procedures followed, when handling explosives at all Inco mine sites.

That's Garson dryman **Henry Everett** at the controls of the new automatic floor scrubber. Says Henry: "Naturally, it's a most welcome addition and makes for an easier and much better cleaning job. Needless to say, it sure beats mopping the floors!"

Copper Cliff South mine held its second blood donor clinic in March, producing 109 pints of the valuable red stuff. In order to catch both shifts, the clinic was held on two consecutive Tuesdays; twelve beds were set up, and ten Red Cross people were on hand. According to **Pat Dinan,** the mine's safety foreman, the Red Cross requires some 150 pints of blood every week — 10 pints are usually needed for open heart surgery alone. Pat also mentioned that plans are already underway for another clinic later this year. **Stan Haskett,** left, plant protection officer, waits his 16th turn as a donor, while **Gordon Hayden,** raise borer operator, gets the needle for the 17th time; **Cheryl Faddis,** a Red Cross volunteer, administers the necessary blood sampling.

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

Tuesday night sessions of the fitness class at the Inco Recreation Club in Port Colborne are still available for those who wish to get into shape and be ready for all that physical activity necessary with the coming of spring and summer. The two-hour program is under the critical eye of Mr. Universe himself, **Jim Babirad.** Getting set for some more push-ups in the above picture are, front row, from left, **Ermanno Santarelli, Lino DiPasquale** and **Mike Rezo.** Back row, from left, **Victor Gojak** and **Ray Wilcox.** An added attraction to the fitness program is the swimming at the Centennial Pool on Thursday nights, between 9 and 10:30 p.m. In the pool for their weekly swimming session are, from left, **Eldred Smith, Don Herbert, Bob Airhardt, Albert Kerekes, Paul Radzikoski, Ferdinando Perrella, Archie Ferguson, Pat Gilday, Joe Torok, Fern St. Louis, Guido Ciccale, Sam Hill, Nick Bailin** and **Louis Bernache.** Just a few hours a week can help you with that weight problem, so you may once again get that old feeling of being in reasonable shape. Enjoy life to the fullest. Take care of that body of yours!

The weekly hockey games between the staff and "C" shift on Monday nights in Port Colborne continue to flourish. In the beginning, the staffers took a commanding lead, but "C" shift has been coming on strong of late, led by their high-scoring trio of **Fern Plouffe, Tony DiBartolomeo** and **Ivan Smith,** plus the addition of **Peter Robitaille** between the pipes. In a desperate bid to bolster his drooping forces, head coach **John Lacroix** held a secret draft of research station personnel and came up with some help in **Peter Ryan, Barrie Wilson** and **Keith Colburn.** In addition, defensemen **Ken Burke** and **Don Martin** have been given an ultimatum to shed some suet or end up on the permanent fire patrol. According to **Gil Gagnon,** "it's not exactly the type of hockey played by the Philadelphia Flyers as no body contact is allowed, but for pure enjoyment, good fellowship and physical exercise, it can't be beaten. Members of the "C" shift team are, front row, from left, **Gaetz Audit, Mike Cossette, Peter Robitaille, Fern Plouffe, John Lacroix, Tony DiBartolomeo.** Back row, from left, **Barrie Wilson, Don McInnis, Sam Masotti, Ivan Smith, Curt Huffman, Les Smith, Peter Ryan, Bob Green** and **Flo DiBartolomeo.**

* * *

PLEASE BEAR WITH US

Quality of paper available to us at this time prevents the usual standard of reproduction to which you have become accustomed.

Hopefully, paper supplies and their availability will improve in the foreseeable future.

* * *

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

Cambrian College in Sudbury held its annual awards luncheon recently, and eight students received awards from Inco. Six students received Inco Engineering Technology bursaries valued at $150 each, and two students were awarded the Inco Open Scholarship. The bursaries are presented to help qualified and deserving students to continue their education and encourage students to enter engineering technology courses to ensure that a continuing supply of qualified technologists will be available for the future. Students are selected by the Ontario Council of Regents, the governing body for community colleges in Ontario. **John Koski,** above, president of Cambrian, congratulates three of the students, from left, **Don Malette, Anne Dechaine** and **Patrick O'Link.** Below, **Tom Semadeni,** dean of technology, extension and adult education, did the honors for the Inco Open Scholarships. Awards were presented to **Darcy Luoma,** marketing, left, and **Frank Chiappetta,** mining technology. The scholarships are presented to two students in their second year who have the highest academic standing in their division. The award covers the cost of tuition as well as a cash grant of $300.

For Up-To-The- Minute Information, Call the

INCO HOTLINE

Sudbury 682-0626 Port Colborne 835-2454

This photograph of Creighton No. 3 shaft was taken back in 1917 as miners, complete with carbide lamps and lunch buckets, are waiting for their cage. Note the inclined shaft with its four skip and cage compartments. The headframe was dismantled in 1971, and the shaft is now being used to carry a number of service lines.

That's the new Hy-Rail Line repair truck, recently acquired by Inco's power department in Copper Cliff. Capable of operating both on roadways and track, the unit is used to repair and maintain trolley lines and other electrical installations throughout Inco's Sudbury operations. Here **Bill Carmichael** and **Ron Pagan,** on platform, attend to repairs of the trolley line as **Joe Marion,** right, is at the controls. Line superintendent **Gino Baggio** is shown at the far left. With the hydraulic boom fully extended, the unit has a reach of 42 feet. Standard clearance for trolley lines is 22' 6" from base of rail.

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

Power department crews recently installed the first transformer at the new site for Inco's Canadian Alloys Division rolling facility which will be built on a 70-acre tract in Walden Industrial Park, near Copper Cliff. Lining up the transformer are members of Inco's power department, from left, **Ron O'Shell, Dave Sinclair,** foreman **Bucky Basso,** and **Dewar Williamson.**

* * *

Object of much attention lately is the "International No Smoking Prescription" card, now prominently displayed in the Occupational Health Department of the Copper Cliff Hospital and recently forwarded to "The Triangle" by Inco's medical director, **Dr. Ken Hedges.** A recent appeal sent to all Canadian physicians by the Minister of National Health and Welfare stated that "physicians especially, cannot ignore the large number of their patients with asthma, chronic bronchitis and emphysema who suffer respiratory, psychogenic, or other distress when exposed to cigarette smoke." By signing and displaying the card, Dr. Hedges hopes to encourage people to refrain from smoking.

℞

As of early March, fund receipts and pledges for the Sudbury Regional Guatemalan Earthquake Relief Fund totalled $114,000, with nearly 100 employees at Inco's Toronto office contributing more than $6,500 and the Copper Cliff office contributing over $2,000. **Toni Harlock,** treasurer of the Toronto office effort, is shown above receiving contributions from **Anna Langley,** centre, and **Marilyn Gold,** right.

* * *

EMPLOYEE BENEFITS

The company provides various health and life insurance plans for the protection of you and your dependents. Some of the plans require the naming of a beneficiary in case something happens to you. If you have been recently married, divorced or if your beneficiary is deceased, it is very important that you notify your personnel officer or the employee benefits office at the earliest date. By failing to do so, you may deprive your loved ones of the benefits they rightfully deserve. Information concerning beneficiaries may be obtained by phoning Employee Benefits at 682-4438 in Copper Cliff.

"On the brighter side, the safety foreman says you can take the rest of the afternoon off!"

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

A new ore body in view? **Ian Gray,** pointing, Inco's director of field exploration, and his team of regional managers gathered recently in Sudbury for a week-long planning seminar on the geological, economic and political aspects of mineral exploration and mining around the globe. With Ian Gray are, from left, **Richard Agar,** U.S.A.; **Eoghan Laing,** Australia; **Herb Stewart,** Canada; **Beni Wahju,** Indonesia; **Warren Delaney,** Philippines; **Steve Malan,** South Africa; **John Dowsett,** manager, applied geology and geophysics; **Steve Sopher,** Brazil; **Al Spence,** manager, field exploration, foreign; **Allen Shelto,** Mexico; and **John Guy-Bray,** manager, field exploration, North America. In the picture below, varied reactions as participants, including geologists from Thompson, Copper Cliff, Toronto and Sheridan Park consider a knotty problem in the J. A. Pigott Auditorium.

Inco's **Karl Paxy,** long noted for his beautiful wood carvings, proudly displays his latest creation, an ore train, complete with cars and battery locomotive, as it is being loaded from the chute above the gangway. Below, another fine example of his skill, a carving of two raise miners as they drill off a round for the next blast. Karl finds nothing incongruous about combining mining with sculpting. "Art must express life," he said, "and the miner at work is a very vigorous, graphic model of life. The nature of his job, toiling underground to win the ore from the rock, takes on a heroic aspect in the eye of the artist." The pleasant, soft-spoken craftsman also gets a lot of satisfaction from the fact that his work is valuable in the promotion of safety. "That is like icing on the cake," he said.

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

The fellows at Lawson Quarry are pretty happy these days, and with good reason. Their efforts at attaining and maintaining an outstanding safety record - the quarry has been accident-free since May of 1974 — were recently recognized by the presentation of a Karl Paxy wood carving depicting a Haulpak dump truck and cargo. Gathered for the presentation were, front from left, **Adelard Riengeutte,** crushing plant operator; **Ron Brown,** manager, Creighton area; **Art Martel,** services foreman, Crean Hill; **Charlie Dagenais,** garage mechanic. Back row, from left, **George Quilty,** superintendent of Lawson Quarry; **Lloyd Shellswell,** electrician; **Don MacDonald,** haulage truck driver; **Rod Aellck,** shovel operator; **George Guy,** maintenance mechanic; **Doug Anderson,** general foreman, safety, Creighton area. Absent at time of photo was **Percy Gravelle,** haulage truck driver.

Members of the Copper Cliff maintenance field force are presently removing the settling chamber of the No. 9 flash furnace. This became necessary since the flash furnace is undergoing a complete rebricking job. The settling chamber removes dust particles from furnace off-take gases before they go through the scrubber system. From there they are transferred to the C.I.L. plant for further refining. The rebuilding program is carried out on a three-shift, seven-day basis over a 28-day schedule.

A member of Inco's Board of Directors since 1967, John J. Deutsch, C.C., died Thursday, March 18. Dr. Deutsch, who was 65 years old, was Professor of Economics at Queen's University, Kingston, Ontario.

Hans Wiemer, left, co-chairman, and **Armand Belanger,** chairman of the Junior Conservation School of Algonquin Zone No. 2 of the Ontario Federation of Anglers and Hunters, proudly display a citation which they presented to Inco as a token of their appreciation for the company's services in the interest of natural wildlife. According to Armand, a cagetender at Frood mine, Inco's recent $1,000 donation will be used to offset costs for this year's Junior Conservation School, which will be attended by 50 local youngsters.

This is the logo of Inco's majority-owned subsidiary in Guatemala, Exploraciones y Explotaciones Mineras Izabal, S.A., better known as EXMIBAL.

Printed in Canada.

This month's logo writer...

Mr. Peter Cottontail

Talk about lucky! We weren't even looking for him, and there he was . . . Peter Cottontail, hopping down the Sudbury bunny trail on a trial run for the real thing later this month.

Being the modest little fellow that he is, Peter at first tried to get away with making us think his name was Simon, but we know the real thing when we see it. And we must admit that once Peter realized he'd been caught in the act, he became most amenable, and not only agreed to provide our logo for this Easter issue, but even posed for a picture, too.

It's got to be a first for "The Triangle", and we're pleased as punch with the piece of luck that allowed us a first-hand glimpse of Mr. Cottontail. Guess we went too far, though, when we tried to coax a couple of Easter eggs out of him — he gave us a look that could only be interpreted as indignant, told us we'd have to wait till he made his official rounds on the 18th, and hopped away.

Oh,well.

We'll be watching for you, Peter.

Illustrations by Amy-Lynn Kneer.