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Letters and comments are welcomed and should be addressed to the editor at Inco Limited, Public Affairs Department, Copper Cliff, Ontario P0M 1N0. Phone 705-682-5425.

On the cover

This month's cover features the Science North medallion which was unveiled during a recent ceremony at the new Science North complex in Sudbury. The medallion employs a unique Inco developed gold-on-nickel process and was supplied by Inco at cost to Science North for use as a fund raising device. For more information on the coin and the process see story on page 19.

Going on vacation?

If you are an Inco employee or pensioner you might want to take advantage of the following discounts.



OML membership

Any Inco employee or pensioner residing in the Sudbury area is eligible to receive a discount on membership fees if they join the Ontario Motor League.

Employees will receive \$10 off of

their membership fee, while pensioners qualify for a \$15 discount.

If you are interested phone the OML office on Regent Street, the number is 522-0000. Ask for Kelly McCaw or Sandy Szilva. They will be happy to explain the procedure.

Canada's Wonderland

Canada's Wonderland

If you are planning a trip to Canada's Wonderland be sure and pick up your discount coupons from the employee relations office in your area. Coupons can also be picked up at the public affairs office in Copper Cliff. Pensioners residing out of town can write or phone the public affairs office to receive their coupons.

With the coupon you will save \$4 per person for each pay-one-price passport — a \$15.95 value for \$11.95. Each passport includes admission to the grounds plus all regular shows and rides in operation on day of use.



Magic Kingdom club

Employees or pensioners planning to visit Disneyland in Florida, California or Japan should apply for membership in the Magic Kingdom club.

Membership in the club will make you eligible to receive a number of benefits including reduced prices on selected ticket media, discount on accommodations, a reduced rate on green fees at Walt Disney golf courses and many other benefits too numerous to outline here.

For information and registration phone or write the public affairs office in Copper Cliff.

A reminder to Inco pensioners

Inco Pensioner's Days will be held this year on June 25, 26, 27 and 28 at the Elk's Lodge on Windy Lake north of Sudbury. Pensioner's will have the opportunity to participate in games of bocce, horseshoes and crib. Buses

leave from the Inco Club on Frood Road every morning between 8:30 and 9:30 a.m. Pensioners have been notified of this popular annual event by mail. Anyone wishing further information please call 682-5507.

Lucky winners

Ten employees in the computer department in Copper Cliff took the concept of team work a little farther than the office and wound up sharing one of the early bird prizes in the Kinsmen Showcase Sweepstake II draw in April.

Debbie Presniak, a programmer, thought it might be a good idea for a

number of her fellow employees to share a \$100 cost of a Kinsmen Showcase Sweepstake II ticket. In addition to early bird prizes the main prize is a \$90,000 house in New Sudbury.

Gale Mangiardi, a programmer analyst, agreed and set about the task of signing up people interested in sharing in the ticket. It wasn't long before she had ten shareholders.

Part of any successful venture is a positive attitude and this certainly was not lacking in this group. Debbie explains that the collective feeling of the gang was that they would win the big prize and maybe an early bird prize. The one prize they did not expect to win was the brand new Camaro. On Easter weekend, their ticket was drawn and they won the car.

"Pleasantly surprised" is the way Debbie describes the reaction of the group. A few people in the department who turned down the opportunity to join the venture might now be regretting the fact that they did so.

The Kinsmen offered a cash settlement for the automobile which the winners gladly accepted. Each shareholder received a cheque for \$1,331.61. Some used their new found wealth to repair their old cars. Others bought furniture. One individual bought his wife pearls after he purchased a set of golf clubs for himself. One couple banked the money for a rainy day.

The ticket was returned into the drum where it will have a chance to be drawn for another early bird award or the house that this group fully expects to win.



Sharing a winning ticket in the Kinsmen Showcase Sweepstake II early bird draw are, clockwise, from left, Diane Patterson, computer operator. Gale Mangiardi, programmer analyst. Cheryl Massey, computer operator. Mark Evans, programmer. Fred Stanford, industrial engineer, Don Keegan, programmer, Denis Ramarr, programmer analyst, Debbie Presniak, programmer, Rita Arthur computer operator and Joe Bukatowicz, systems analyst.

Mine rescue — a close contest



Wint Newman, right, president of the Ontario division presents the mine rescue trophy to the 1984 champions from Creighton/South complex. Team members, from extreme left are, Phil Fournier, Al Simpson, Tony Love, Leo Seguin, Tom Tario, Charlie Burton and Brian Vallier.



Teams representing the Frood/Stobie/Garson complex, Creighton/South complex and Levack/McCreedy complex competed in the annual mine rescue competition held at the Coniston Arena in May. Emerging from the gruelling test of mine rescue skills as champions were the men of the Creighton/South complex squad.

The contest was a typically close one. Frood/Stobie/Garson and Creighton/South were virtually tied after the written examination and the field test. Levack/McCreedy was not far behind. In the end it was a time demerit that assured victory for Creighton/South. They had taken a few moments less to complete the rescue of nine miners in the mine fire simulation.

Once again the mine rescue competition revealed the high calibre of mine rescue personnel at Inco. Creighton/South complex represented Inco at the provincial mine rescue competition in Timmins on June 8 to 9.*

Some familiar faces were evident in the mine rescue challenge. Charlie Burton, Leo Seguin and Brian Vallier of Creighton/South complex, were members of Inco's provincial champion mine rescue squad last year. Their experience no doubt aided their squad's cause considerably. Their former team-mates, Jim McLellan and Jack Lacey, provided Frood/Stobie/Garson with the same experience and contributed to that team's excellent showing.

The Creighton/South team rushes to fit an air pack on another "victim."

* As we were going to press, the Creighton/South complex proved that they were the best mine rescue team in Ontario by capturing the top spot in the provincial mine rescue competition in Timmins. More details on this will be included in the next issue.



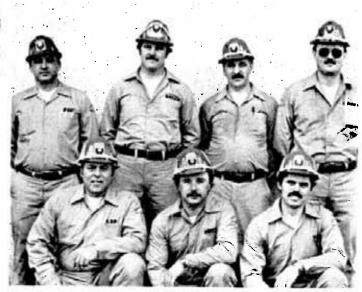
The Creighton/South complex squad prepares its gear under the scrutiny of the judges.



Captain Charlie Burton leads the team through the "smoke."



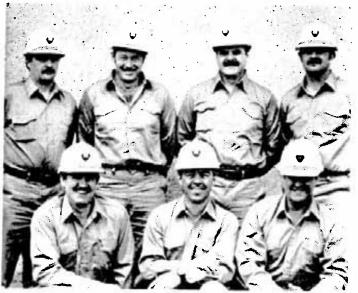
A "victim" of the simulated mine fire is removed by members of the Creighton/South team.



Creighton/South Complex: Front row, from left, Leo Seguin, Tony Love, Tom Tario. Back row, from left, Phil Fournier, briefing officer, Brian Vallier, Al Simpson, Charlie Burton, captain.



Frood/Stobie/Garson Complex: Front row, from left, Ron Charbonneau, Guy Guerrette. Jim MacLellan. Back row, from left, Gary, Smith, John Lacey, captain. Gil Lavoie. Bob Neville, briefing officer.



Levack/McCreedy Complex: Front row, from left, Gilles Trottier, briefing officer, Marcel Henri, Barry Milligan, Back row, from left, Clem Castonguay, Robert Nerpin, captain, Roger Gosselin, Peter Zielniewski.

Mended Hearts



A first for Canada is one way of describing it. But to the 107 members of the newly formed Sudbury chapter of The Mended Hearts it means much more than that.

Ask Wes McNeice what it means to him. Or ask Harry Moorehouse or any of the 350 patients who underwent heart surgery last year at Sudbury Memorial Hospital.

"Patients and their families have a great deal of apprehension before and

after a heart operation," said Wes McNeice, an Inco pensioner and the first president of the Sudbury chapter. "The number one priority of The Mended Hearts is to visit people who are about to have heart surgery or who are recovering from heart surgery. but we don't do this unless we are requested to do so."

Most of the members bring with them the voice of experience. That's because most of them have undergone open heart surgery and as Wes says "we've been there". They know what it feels like to be scared to death. They know what it feels like to be depressed. But they also know that heart operations bring with them the gift of a better life where once there was little hope.

The Mended Hearts is a non-profit service organization that was incorporated in the United States in 1955. The Sudbury chapter was formed after Dr. A. Mathur, a heart surgeon at Memorial Hospital, heard about The Mended Hearts while attending a medical seminar in Dallas, Texas.

Upon his return to Sudbury, Dr. Mathur suggested to the nursing staff at the hospital that an organization of this nature could prove extremely beneficial in the treatment of heart patients.

In order to see what kind of interest there was, Memorial Hospital staff invited patients who had undergone heart surgery to a meeting. About 130 people showed up for the first meeting. The majority of these people were very enthusiastic and fully supported the proposal to form a Mended Hearts chapter in Sudbury. Sixteen of those present volunteered to form a steering committee to proceed with the necessary spade work to bring this idea into being.



Janice Love, left and Ev Townend chat with Harry Moorehouse after Harry's open neart surgery. Janice is the head nurse for Memorial Hospital's cardiovascular unit and Ev is a social worker in the unit. It wasn't long after that Sudbury Chapter No. 154 of the Mended Hearts Inc. was given approval by the national executive board and thus became the first chapter in Canada. The first membership meeting was held in September 1983 and on October 15th the first visitation seminar was conducted at Memorial Hospital. On completion of the seminar 33 members received accreditation which meant that they were now officially qualified to visit patients.

Anyone interested can become a member of Mended Hearts. It is not necessary to have heart surgery before you can join. The Sudbury chapter holds their meetings on the second Wednesday of every month at the Memorial Hospital cafeteria. The meetings start at 7:30 p.m. and everyone is welcome.

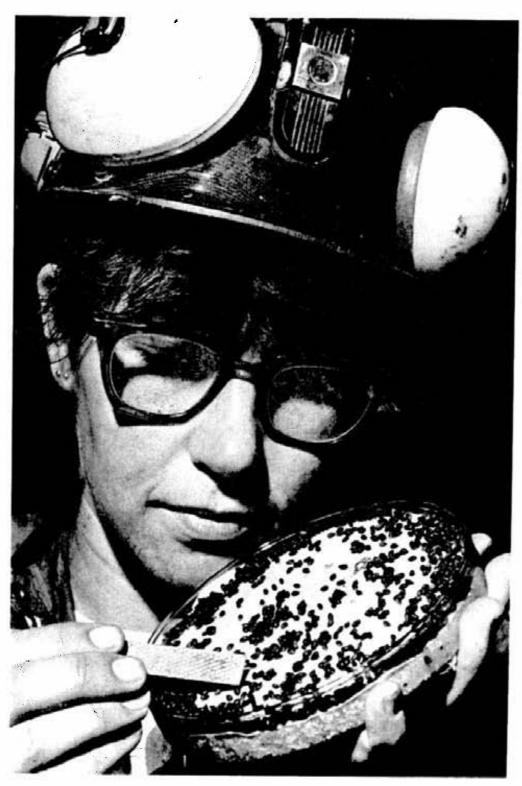


Queenie Moorehouse, left and Irene McNeice share experiences in dealing with open heart surgery. Irene is secretary of the Mended Hearts and the wife of Wes. Queenie's husband Harry recently had open heart surgery.



Harry Moorehouse visits with Wes McNeice and Marnie Longfellow, two members of the visitation committee for Mended Hearts

Underground trees



In recent years the agricultural department has conducted well-known experiments at Creighton mine growing vegetables in an underground environment. Now it is turning its attention to growing forestry seedlings in the depths of Creighton nine shaft

The project is being carried out on the 4,600 level of nine shaft by Alex Gray, project leader, Mike Peters of the agricultural department and Nina Naumenko, a Laurentian University graduate student. Nina will be analyzing the project, more particularly "hardening-off", the process which allows forestry seedlings to acclimatize to the natural environment, and the subsequent out-planting of mine-produced seedlings for her Master of Science degree.

Growing coniferous seedlings underground is nothing new, Nina explains. "The technology has already been devised by the Bunker Hill Mining Company in Kellogh, Idaho, in the mid-1970's." Forestry seedlings have been cultivated with great success in mines.

Following specifications for growing seedlings set down by the Ministry of Natural Resources and Bunker Hill and using some of the processes and procedures for irrigating, lighting and fertilizing developed in the underground vegetable project, the forestry seedling experiment began in February.

Three thousand red pine and 3,000 jack pine seeds were planted at Creighton mine. They germinated in the warm, insect free underground environment.

Nina Naumenko gives a close-up view of the tree seeds.

By the end of May the seedlings, in their little containers of soil and nutrients, will be ready for "hardening-off". This involves exposing seedlings to the natural environment over increasing longer periods of time to minimize the shock of transportation.

Nina says she will experiment with five different hardening-off treatments to determine which is the most effective in reducing the loss of seedlings.

Nina will plant the 3,000 trees in different areas twice this year, once in May and again in September. One site will be a land reclamation area and the other is a control site in the Worthington area. She will study the anatomy and physiology of the outplanted seedlings to determine differences in the "hardening-off" treatments.

The remaining 3,000 trees will be planted by the agricultural department on Company property. More seedlings for experimentation will be planted later this year.

In the future, an underground seedling program may be an

important source of container seedlings for the Company. Most seedlings purchased by the company are of the bare root variety. This type of transplants have a lower rate of survival than do container seedlings. Container seedlings are more difficult to obtain and are relatively more expensive than bare root stock.

With Inco planting 20,000 to 30,000 tree seedlings annually, the underground seedlings program may evolve into an assured means of supplying container seedlings for tree planting.

continued on next page



Ellen Heale and Nina Naumenko, right, plant a tree seed in each tube-like container while Mike Peters lowers growing lights into the appropriate position.

Nina Naumenko seeds each container at the 4,600 level of Creighton mine.



Underground trees



Ellen Heale, left, and Nina Naumenko plant tree seeds in containers.



Ellen Heale fills seedling containers with a growing medium for the nascent trees.



Mike Peters and Nina Naumenko examine tree seeds.

A Quarter Century of service

The most revered of Company traditions, the meeting of the Sudbury and District Inco Quarter Century Club, was held on May 16 and 17. Two hundred and eighty four

employees were inducted into the honored society which recognizes people with 25 years of service with Inco.

As has been the custom since the

Club's inaugural gathering 54 years ago, the inductees were wined and dined in fine fashion. They were treated to a dinner of cornish game hen and white wine. The top notch entertainment that followed included singer Leisa Way, banjo player Borgy Bergerson, magician-comedian Bill James and the music of Billy Williamson and his orchestra.

Wint Newman, president of the Ontario division, Roy Aitken, senior vice-president, Inco Limited, Walter Curlook, executive vice-president, Inco Limited, and Charles O'Neill senior vice-president, Inco Limited and president, Inco Tech, were on hand to welcome the new members of the Quarter Century Club. Each praised the dedication and the valuable contribution made these special employees over two and a half decades.

Judging by the loud applause, the animated conversation and smiling faces, the event, organized by George MacMillan, special functions coordinator in the public affairs department, was once again very successful. The tone for this Quarter Century celebration, some say, was set by the miner from Garson who could not contain his enthusiasm and gave the audience an impromptu and very well received display of dancing a jiq.

Copper Cliff's Leisa Way won the hearts of the audience during the entertainment section of the evening.



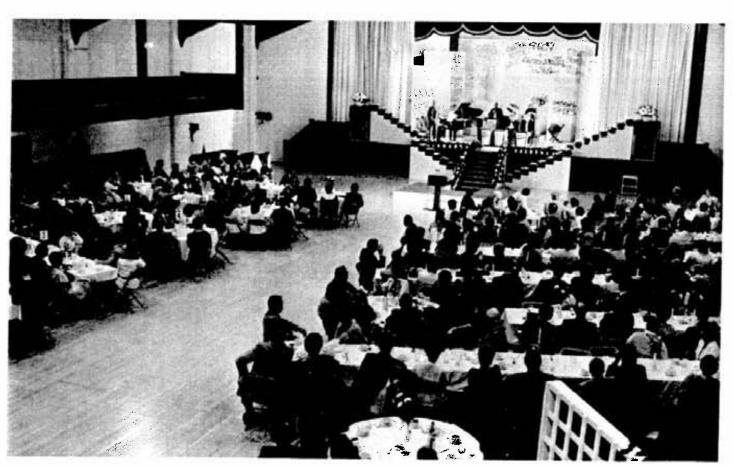
Note to Port Colborne employees:

The timing of the Port Colborne quarter century club precluded us from covering it in this issue. It will be featured in the next edition of the Triangle.





Memories from two nights in Sudbury



Quarter Century













Biggest energy user battens down the hatches

Consider the facts. Forty per cent of the energy consumed in the Ontario division is consumed at the Copper Cliff smelter. It burns enough BTUs in a year to provide light, heat and hydro for 60,000 households. One third of production costs at the smelter are tied up in energy, the cost of energy increased by 450% from 1975 to 1983.

The smelter is by far the Ontario division's biggest energy user. "Obviously", begins Jim Middleton, a supervisor in the smelter process technology department and chairman of the smelter energy committee, "it behooves the smelter to be the biggest conserver of energy as well."

Reducing energy consumption in

such a large and diverse operation as the smelter cannot be accomplished by turning off light switches or caulking windows. It is a complex problem for which there are no simple solutions. Any conservation plan must be process oriented, Jim says, it must be tailored to production in the smelter.

Over the last five years steps have been taken to curb the smelter's appetite for energy. An initial hurdle to be overcome before any substantial gains in energy conservation could be made, lay in the higher grades of nickel concentrate required to meet stricter emission limits imposed by the Ministry of Environment. High grades

lead to increased difficulties in roasting and smelting which resulted in lower (furnace or roaster) throughputs and higher fuel requirements.

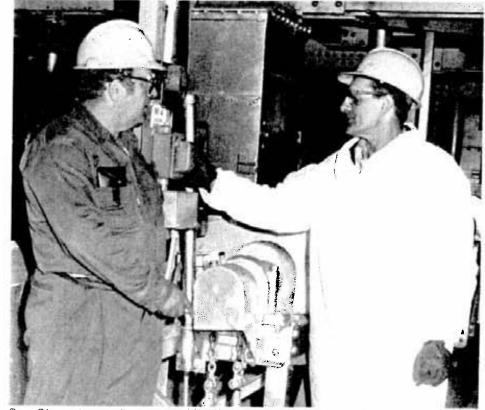
One way in which the smelter people improved energy use was by increasing the throughput through the roasters and furnaces. If more nickel can be produced in each operating unit, fewer units would be needed. Consequently heat loss would be reduced, each unit would be more efficient and fuel would be saved.

Other conservation moves were made since 1979 through improved combustion and particularly with a switch from air to oxygen in fueling the reverb furnaces. Known as the oxy-fuel system, Bunker C oil is fired with 95 percent pure oxygen. Previously, oil was fired with air to produce the flames to bring the reverberatory furnaces up to about 2300 degrees Fahrenheit. The oil burns much more efficiently with oxygen and more nickel can be produced with less fuel.

This effectively altered one of the production processes in the smelter. Change a process, however minimally, and it affects the rest of the production process, Jim stresses. In the case of the oxy-fuel innovation, the realized efficiency also meant that less heat was going up the stack. The temperature inside the stack began to drop; at some point acids begin to condense and can pose a threat to the stack's lining.

Energy balances showed that there was an excessive amount of air infiltrating into the plant's flue system. The "tramp" air cooled the gases in the stack.

So energy conservation efforts focussed on repairing leaks and reducing draft in the flue system. It was estimated that 1,000,000 CFM of



Rene Pilon, right, cottrell operator and Neil Wiebe, cottrell foreman adjust the damper control on the number four unit of the #2 cottrell.

air had to be removed from stack gases. This was accomplished by eliminating outdated and unnecessary flues as a source of in-leakage, sealing obvious leaks in the remaining flues and tailoring the draft at the cottrells to the fewer pieces of equipment and reduced length and number of flues that had to be operated. "Eliminating avoidable fuel consumption required the cooperative efforts of many individuals from many different departments both with and without the smelter," states Jim. "In 'tramp' air elimination, we are currently over our objective (1,000,000 CFM) for a two furnace operation." Significant amounts of energy are being saved due to the impressive conservation efforts.

The measures to reduce draft and maintain the heat of the stack were sufficient to cover the loss of heat that resulted from the shutdown of the waste heat boilers in 1982. These boilers used waste heat from the furnaces to produce steam and worked very efficiently while we operated five or more furnaces. With the decrease in the number of furnaces and the advent of oxy-fuel technology, there was insufficient waste heat to produce steam, and natural gas had to be burned to permit the boilers to continue producing steam. This operation was very inefficient and the waste heat boilers were replaced by efficient package boilers at the Copper Cliff mill.

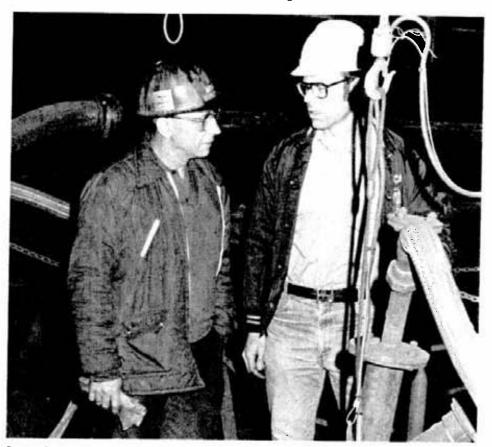
A national objective for industries to reduce energy consumption by 15 percent by 1985 was set by the government in 1975. The smelter's energy conservation program has easily surpassed this objective. The energy used to produce nickel in the smelter in 1983 is 33 percent lower than it was in 1975. That translates into millions of dollars and countless BTUs.

Jim says the program is a continuing one with every part of the massive smelter complex coming under scrutiny for energy savings by all of the smelter's employees.

Currently, smelter people are trying to

adapt an improved, more efficient burner for keeping hot metal cars warm. Over the next year, they hope to realize substantial savings in Bunker C oil and natural gas through improvements in fettling in the reverb furnaces, through improved combustion in the roasters and in the

reverb furnaces and better use of natural gas in converters and fluid bed roasters. An experimental oxygen-gas burner system is being used in number two furnace to allow the company to take advantage of any future differentials in price between oil and gas.



George Danyliw, left, project leader and Dave Hall, project engineer inspect an oxy-fuel burner in one of the smelter furnaces.



Discussing repairs to the flue system in the smelter are, from left, Warren Shellshear, project leader, Barry Bowerman, section leader, Rick Flesch, mechanical foreman and Jim Middleton, supervisor, process control.

Impressions of the South Pacific

Gerry Lafantaisie and Mike St. Laurent were part of a contingent of several Inco employees that left in early 1981 for Tiebaghi, New Caledonia where the Company, in partnership with a French firm, was about to begin recovering chromite ore. They started on their 9,000 mile journey anticipating the challenge of starting a new operation and living in a distant land, immersed in a different culture.

For two and a half years Gerry acted as general foreman of the Tiebaghi mine while Mike was planning engineer for the project. Gerry was responsible for the overall operation of the mine, including the

training of 90 miners. Mike, in addition to making layouts of the mine, was in charge of the survey crews. He also designed the main blast at the mine in December of 1982, which saw 300,000 tons of ore blasted with 80 tons of explosives.

The challenges they hoped would meet them in New Caledonia were present, they report. This chromite deposit, for example, was characterized by a lot of joints and faults. When mined, it has a tendency of crumbling. Consequently, Gerry says, extra safety precautions had to be taken. Few of the local people that were trained to work at Tiebaghi had no previous knowledge of hardrock mining "but they were willing to work", he continues.

Mike describes the work in New Caledonia as a valuable learning experience. "We got a chance to do our own thing there," he says. It was he adds, the first time that a chromite ore body of this size had been mined using the vertical retreat method. In the end the Tiebaghi project proved to be a favourable undertaking for all concerned. States Gerry: "Tiebaghi is a big success. We finished under budget, ahead of schedule and there were no serious accidents .. and it's making money." They agree that Tiebaghi succeeded only because there existed good cooperation between all concerned. It is proof that any challenge can be undertaken and overcome if you have teamwork. Both are very appreciative by the good reception and excellent treatment they were afforded by Roland Gilbert. director of Inco Oceanie, and his people.

Part of the lure of the New Caledonia job offer was the island's South Pacific location. Both Gerry and



A panoramic view of the Tiebaghi operation. The actual mine is located at the foot of the mountain. On top of the mountain, just below the clouds, is a ghost town, site of a Union Carbide chromite mine that operated in the early part of this century.



Incortes celebrate Christmas of 1982 in New Caledonia. Shown here, from left, are Gord Annis, Karen Annis, Gerry Lafantaisie, Reina Lafantaisie, Luc Lafantaisie. Lestie Annis, Brad Annis, Lynn St. Laurent. Mike St. Laurent and Rocky Lafantaisie.

Mike acknowledge that it was fairly easy and inexpensive to visit exotic places like Australia, Tahiti, Fiji and Hong Kong. Canadians working at Tiebaghi took advantage of this and toured these areas knowing that the cost of such trips would be prohibitive from North America. "A once in a life time chance," they call it.

Neither Gerry nor Mike experienced any difficulties adapting to their new temporary, tropical home and a colonial French culture. Immersed in their work six and sometimes seven days a week in the early stages, they were too involved to be affected by culture shock. Gerry admits that his wife, Reina, found it harder to adjust to the new environment because they were separated from their children who remained in Sudbury to attend school. The kids did spend their Christmas and summer vacations with their parents in New Caledonia.

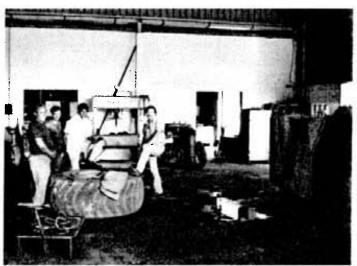
The Incoites found the constant, though humid, 30 to 35 degree Celsius temperatures very much to their liking. They did not miss, they say, the snow and chills of our northern winters. Naturally their pastimes were typically tropical, such as fishing, sunbathing and scuba diving. Mike, a scuba buff, managed to do plenty of diving and was

involved in starting a scuba club. Other than family and friends, the thing he missed most was the camp near Sturgeon Falls. Though there were sandy beaches and the second largest body of coral in the world to explore, it wasn't quite like the camp, he insists.

Being immersed in a French-Melanesian culture introduced the Canadians to a myriad of different customs. The French had brought with them the institution of the long, leisurely dinner. Gerry and Mike, self-professed practioners of the eat-and-run philosophy, marvelled at how their hosts could extend a supper into a



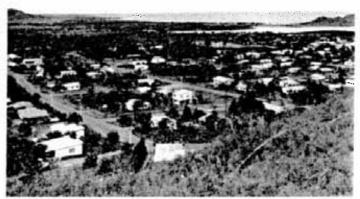
Chromite being loaded into a truck at the Tiebaghi mine.



Ray Dupuis, right, and a number of New Caledonian employees in the Tiebaghi maintenance garage.



The Lafantaisie home at Koumac



A view of Koumac, the town where Inco people resided during their stay in New Caledonia. Some, like Gord Annis and Ray Dupuis, are still there.

two, three and even four hour extravaganza of food and conversation. The food was exquisitely prepared and usually business was the main topic of conversation. If you're not used to these marathon dinners, Gerry explains, it is entirely possible to find yourself falling asleep

part way through the evening. It was a source of great wonder to him how his hosts stayed trim with all they ate at their evening meal.

The handshake is a custom with which Canadians are familiar, but not the way it is practiced by New Caledonians, who inherited it from

their French forefathers. While we reserve handshakes for new acquaintances or friends we haven't seen in a while, the inhabitants of the island will shake hands with friends every day. Gerry found that, as "chef de mine", a position of respect in the rigidly stratified class society, he was expected to greet all 90 employees each morning with a handshake. The second time the handshaking business started, Gerry abruptly ended it. To sooth any offended parties, he explained that as a Canadian, he was not used to the custom. That seemed to safisfy them.

Whether it was the dinners, the handshakes, the topless beaches or any of the many other facets of New Caledonian culture, they provided the Canadians with an educational glimpse at another part of the world. Combined with the positive professional development provided by working in a chromite operation, it gave Gerry and Mike an invaluable adventure of a lifetime. Should a similar opportunity arise again, Gerry and Mike say they would probably go again.

New Caledonia has left a favourable impression with this pair of Inco employees. Mike, currently a planner at North mine, says he would at some point like to return to the South Pacific island to see what changes have taken place and to meet old friends. Gerry, an industrial engineer, at South mine, is a little more definite, and says he is making plans to return for a visit in the near future.



While some of us were shovelling snow for a hobby during the winter. Mike St. Laurent, spent his spare time scuba diving and spear fishing. He speared this 40 pound monster on one occasion. Another time, he and his friends, show a catch of fish and huge crayfish.

"Go for the gold" — Sudbury

Officials of government and industry gathered recently at the North's glittering new science centre — Science North. The purpose of the gathering was to formally unveil the newly-minted Science North medallion, now available to coin collectors and to the public across Canada.

The medallion, minted in pure Ontario gold and pure Ontario nickel by the Royal Canadian Mint in Ottawa, features a unique coinage process developed by Inco at the Company's J. Roy Gordon Research Laboratory in Mississauga. Proceeds from the sale of the medallion will give financial support to Science North, Sudbury's world-class science centre, set to open on June 19.

"Everyone I have spoken with who has toured Science North agrees with me when I say that it is breathtaking — absolutely world-class," said Walter

Curlook, executive vice-president of Inco Limited. "It is hoped that these sales will generate not tens, but hundreds of thousands of dollars for Science North. We at Inco are pleased to provide this beautiful collector's item at cost as another vehicle in our efforts to assist the ongoing operation of Science North," he said.

In keeping with the gold-on-nickel theme, Olympic medal hopeful and Sudburian, Alex Baumann, considered by many to be Canada's best hope for a gold medal at this year's Los Angeles' games, participated at the launch ceremonies, encouraging the public to "Go for the Gold!"

The medallion measures 38 millimetres (1 ½ inches) in diameter. It depicts Science North on the obverse side and mining, the primary industry in Sudbury, on the reverse side. The

gold and nickel used in the medallion were mined and refined in Sudbury. The coinage strip was produced at Inco's Canadian Alloys Division rolling mill in Walden. A presentation version of the medallion is available to the public from Science North in Sudbury for \$10.95.

In 1979, Inco Limited officials and community representatives discussed the concept of establishing a science centre in Sudbury. In 1980, Inco funded a \$200,000 feasibility study and a year later committed \$5 million toward the construction of the science centre.

Following the unveiling ceremony the Triangle talked with Dr. Walter Curlook to get an insight on the significance of Inco's new coinage process and what the coinage market means to Inco. The results of that interview follow.



Dr. Walter Curlook, left, and Alex Baumann exchange official greetings at the unveiling ceremony.

Triangle: The new medallion was provided at cost to help Science North raise extra funds but we also realize that the coin will be used to promote Inco's gold coating process for which a patent has been applied. In light of this, could you comment on the significance of the coinage market to Inco?

Curlook: Regarding the coinage market, in general, the largest single end use of nickel is for coinage accounting for about three per cent of total worldwide nickel consumption. Now, the stainless steel industry accounts for more than half of all nickel consumed, but what we're talking about here is single, specific end uses. In that sense, coinage is number one. Furthermore, one of the attractive things about the application of metal to coinage is that it is a

"terminal" market, metal in coinage does not find its way back into the market as recycled material.

Regarding Inco's coinage business, in particular, Inco has become in recent years the largest supplier of nickel coinage strip to the Royal Canadian Mint. Since 1981, for instance, Inco's Canadian Alloys Division powder rolling mill in Walden has supplied the Mint with some 9 million pounds of product. And, as a result of our increasingly close relationship with the Royal Canadian Mint, we have expanded our coinage business in foreign markets. For instance, we have recently completed agreements to supply our product to Israel, Algeria, Austria, Barbados and New Zealand. We are also in the midst of discussions with officials in India.

However, the coinage business, as with the metals business in general, is extremely competitive. Today there are many rolling mills and mints competing in a worldwide market where demand has decreased. For

Inco, this has meant our coinage business has grown more slowly than planned and financial results have been less than satisfactory. A circulating Canadian dollar coin, of pure nickel or nickel-based, would be a real shot in the arm for the coinage business.

Triangle: Is Inco actively pursuing the coinage market? Why?

Curlook: Historically, Inco has been a pioneer and a driving force in the application of nickel and cupro-nickel (copper/nickel) in coinage to a point where today, as we have seen, it is an important worldwide business. A major new piece of business could come about if the Federal Government, responding to public demand, issues a new circulating one dollar coin.

First of all, it should be pointed out that, if this coin comes about, it would be much smaller than the current silver Canadian dollar. To better ensure public acceptance, it would have a diameter slightly larger than the Canadian 25-cent-piece. Officials of the Royal Canadian Mint have indicated that should this dollar coin come about, they would prefer that it be gold in cofor. Inco, itself, believes that the dollar coin shoud be pure nickel and that "gold" should be reserved for the higher denominations which might follow, such as a \$2 dollar and a \$5 dollar coin. Given the Mint's preference, Inco believes that an ideal choice for a golden coin would be our newly-developed product that applies a very thin layer of Ontario gold to a base of pure Ontario nickel. The very first incarnation of this process is the Science North Medallion which demonstrates both its esthetic appeal and its outstanding durability.

Triangle: Does the Inco process make the coin more durable than the coinage which is presently in widespread circulation? If so, could you estimate how much longer the coins would last?



Displaying the Science North medallion are, from left, George Lund, president of Science North, Dr. Walter Curlook, executive vice-president of Inco Limited. Alex Baumann member of Canada's Olympic swimming team, Walter Ott, master engraver with the Royal Canadian Mint and Winton Newman president of Inco's Ontario division.

Curlook: In general, a dollar bill in circulation might last in the order of about half a year before it has to be replaced — however, a typical nickel coin might stay in circulation for 30 or 40 years or longer. Now, regarding the Inco-developed process, we have conducted intensive research on the durability of the gold-on-nickel coinage process and the results were very encouraging indeed. Accelerated wear-testing at special consumer firms specializing in this area has shown that a coin utilizing the gold-on-nickel process would maintain its good looks and surface throughout its useful life.





Triangle: Does the process have any other industrial application beside the coinage market? For example, could it be used in producing things like electronic circuit boards?

Curlook: Inco has applied for a patent on this new process and, so far, our focus has been on its application as coinage or medallions. However, other applications have yet to be tested, particularly for use in products which come in daily contact with the human hand which place a premium on providing a permanent, durable gold finish. Generally speaking, there is nothing to say that the thousands of products that utilize gold-plating either in industrial or consumer applications couldn't be enhanced by utilizing this Inco-developed process which has the built-in advantages of a pure nickel base.

Triangle: Without revealing any trade secrets, could you indicate how long it took Inco to develop this process and who was responsible for the project?

Curlook: The coinage process has been under active development for the past 14 months at our J. Roy Gordon Research Laboratory at Sheridan Park in Mississauga. As with most of our achievements, no one person can accept the credit — it is

the culmination of very effective teamwork. Because I've had personal involvement in the project, I know that Dr. "Sandy" Bell and Bruce Conard came up and demonstrated some of the critical aspects of the new process.

Triangle: Who designed the Science North medallion?

Curlook: With guidance from both Inco and Science North, the medallion was sculpted by the craftsmen at the Royal Canadian Mint under the direction of its Chief Engraver, Walter Ott who has been four decades at his craft and who enjoys a well-deserved, worldwide reputation.

Triangle: What has been the general reaction to the Inco process and the Science North coin?

Curlook: The response to the Science North medallion has been extremely positive. Science North is by everyone's standards a world-class science centre. The feedback we're getting is that, in keeping with Science North's deserved reputation, the medallion is itself equally world-class. Inco is very pleased to supply the medallion, at cost, to Science North for raising funds on an ongoing basis. I expect medallion sales will generate hundreds of thousands of dollars for Science North.

Inco's gold-on-nickel coinage process

The Inco coinage process electrolytically plates a layer of pure gold on a nickel or nickel-plated base. Because of the price of gold, the layer of gold applied to the base is extremely thin. In fact, that layer is only about 0.3 microns thick — about 3/10-millionths of a metre!

In order to ensure that such a thin coating of gold sticks to the base, the gold is hardened by Inco before minting.

Testing of the Inco process has shown that the coinage it produces displays superior wear and corrosion resistance qualities when compared with other gold-colored coins now in use around the world. In fact, independent testing suggests that the probable life of an Inco gold-on-nickel coin would be about 50 years.

In the case of the Science North medallion, pure nickel strip produced at Canadian Alloys Division is blanked and rimmed by the Royal Canadian Mint. Then, the blanks are gold-plated. Next, the gold is hardened. Finally, the gold-on-nickel blanks are returned to the Mint for striking.

Family Album



Pat Raymond hired on with Inco in 1970 and worked in the Sudbury area operations until nine years ago when he transferred to Shebandowan. Presently he is a grade control technologist. He and his wife Denise have three children. Tyna, 12, Renee, 8, and Dawn, 3. Pat's hobbies include golf and hockey while Denise enjoys playing the piano. Tyna is also musically inclined and studies the piano and flute. Pat is the past president of the Shebandowan Recreation Association and he has been a member of the Shebandowan mine rescue team.

Family Album Photos

If you are an Inco employee and would like your family to appear in the Family Album section of the Triangle please let us know by calling 682-5425, or send in your name to the address on the masthead.



Andy and Lise Baronette make their home on Rideau Avenue in Coniston. Andy has been with Inco for the last 12 years. Presently he is an electrician at Frood three shaft. The Baronettes have two children, Eric 5, and Jean Marc, 2. Andy enjoys hunting, fishing, blooperball and hockey. The whole family goes camping.



Andre Charlebois is a 30 year veteran with Inco. Most of that time he has been a stope leader at Levack mine. He and wife Jacqueline have five children. In the back row, from left, are Lyne, now Mrs. Serge Demers. Diane, who is married to Don Mainville, Nicole, the wife of Marc Poiner, and Chantal, Michel, 14, is a student at Champlain Separate School in Chelmsford. There are three grandchildren one of which Jacqueline babysits on a regular basis. The Charlebois' enjoy playing cards, taking long walks and watching television.

—Dedicated Officials—

Basketball officiating...it's a tough job that three Inco employees love doing. Cec Goudreau, Harold Kinnear and Terry Sasseville are three respected referees who patrol courts throughout the district and help maintain a high calibre of basketball for young participants, many of whom are sons and daughters of Incoites.

Cec Goudreau

When Cec joined Inco's accounting department 15 years ago his supervisor happened to be Bill Prince, who among other things, was a long time basketball official. Aware that Cec had played basketball at high school and college and always scouting for new talent, Bill invited Cec to try his hand at officiating.

The transition from player to referee was, Cec says, a difficult one. It was the difference between being an active participant and a very special spectator who "watches for violations of the rules and fouls that create an unfair opportunity for a team."

Beginning at the high school level, Cec has officiated women's league, men's league, college and university basketball. In addition to local championships he has refereed provincial high school championships, provincial university championships, national junior women's championships and most recently, the Canadian Women's University Championships in Winnipeg last March.

People wonder, Cec admits, why he and others undertake the considerable challenge of officiating, given the time that must be expended to become qualified, the many hours put in throughout the basketball season and the occasional abuse fans, players and coaches heap upon them. "Is it for the money or is it a big ego trip?" they ask. Cec answers: "I really think it is that I love the game. And I think you do it for the kids."



Cec Goudreau clarifies a point with minor officials prior to a senior high school basketball game at Laurentian University.

Basketball officials, Cec notes, must be knowledgeable. Exams they write annually in which 86 per cent constitutes a passing grade, ensure this. They should, he adds, be respectful when dealing with players and coaches. "If you treat them properly they will treat you the same in return. In that sense I think an official is a teacher."

Consistency is the key to an official controlling a game, Cec continues. Consistency in calling a game helps to establish a good flow which in turn makes for a better game for all concerned, players, officials and spectators.

From the first time he had the opportunity to do a provincial high school championship in 1978, Cec has set higher goals for himself in the realm of refereeing. He realized one of those ambitions when he was one of eight officials from across the nation selected to officiate the CIAU women's championships in March. He is the first Sudbury-born official to officiate a national tournament outside of the province.

One of his greatest thrills was officiating a game between the Universities of Winnipeg and Calgary.



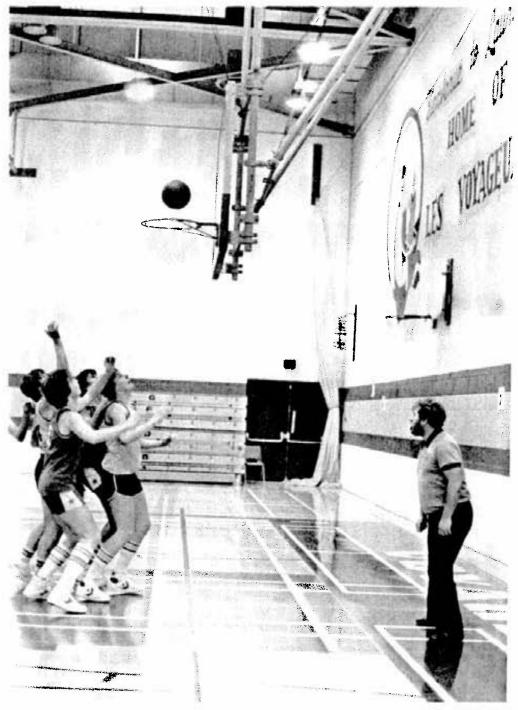
Cec prepares to put the ball back into play.

It was a fast paced, well-played cliff hanger that had his adrenalin flowing constantly. "You're so totally into the game that you can't even hear the coaches screaming at you," he comments. The sense of exhilaration is so great that "you feel like you're walking two feet off the floor."

While the thought of officiating Olympic basketball is briefly entertained by Cec, his big ambition, he claims, is to do that kind of adrenalin pumping game again. The officiating fraternity is always looking for new people to join its ranks. Those interested can contact Cec.



Harold Kinnear takes a break during a junior contest.



Harold Kinnear

Harold Kinnear, an assistant operator at the oxygen plant, had been involved in basketball as a player, coach and manager in his native New Brunswick before coming to Inco in 1970. In 1974 he answered a radio advertisement that appealed for recruits to officiate local high school basketball. He's been with it ever since.

Harold says there are a number of reasons why he became a basketball official. "I wanted to get in better shape than I was," he states. The constant running involved helps him keep fit.

"I wanted to stay with the game." Harold continues. "I have a keen interest in the game." Officiating is a perfect way of doing this.

More importantly, Harold says, officiating gives him an opportunity to help youngsters improve their skills on the court. "I like to see kids develop," he comments. "You see them when they come in at the midget level and their skills aren't so special. In four or five years time they're pretty good ball players."

Harold has refereed all levels of boys and girls high school basketball over the last decade. He has been involved in provincial girls' tournaments and high school finals. For the last five years he has been the assigning official for girls' high school basketball in the area.

Consistency, Harold agrees, is the key to good officiating. Being consistent in calling basketball games establishes an official's reputation among players and coaches. They know what to expect from him and they play accordingly. "If you walk off the floor after a game and nobody notices you going, then you know you've done a good game," he says.

From the beginning of the season in September to its culmination at the end of February, Harold spends up to three nights a week and often two nights on a weekend officiating. Not

Both Harold and the players wait for the bail to fall through the noop

an easy schedule for a man who works three shifts and has a wife and child to think about. Yet, he says he "thoroughly enjoys officiating" and calls it an "addiction. "I like doing games," he adds. "It makes the old blood flow."

Terry Sasseville

Terry Sasseville of the reverb furnaces in the Copper Cliff smelter was still a student at Lively High School when he first donned the referees jersey. He played senior basketball for Lively and assumed the responsibility for officiating midget basketball games.

Terry's reasons for doing the tough referee's job are the same now as they were then. "I just like the idea of refereeing," he states. "Money is secondary. I like the game. I like basketball."

When Terry went to the University of Waterloo he continued officiating high school basketball in the Waterloo area. He also officiated university exhibition games. In 1974 he returned to Sudbury and continued to do local

high school games. He temporarily ceased his officiating activities in 1977 and came back to them this year. This past season he has refereed boys and girls basketball at the high school level.

"I'm still learning," he comments, acknowledging that his experience may not be as extensive as others. "I'm letting Cec be my guide. I'm planning to stay with it now."

One of his immediate goals in the realm of officiating is to successfully meet the qualifications set by the International Association of Basketball Officials and become a certified "IABO official." He looks forward to officiating university and college basketball games.

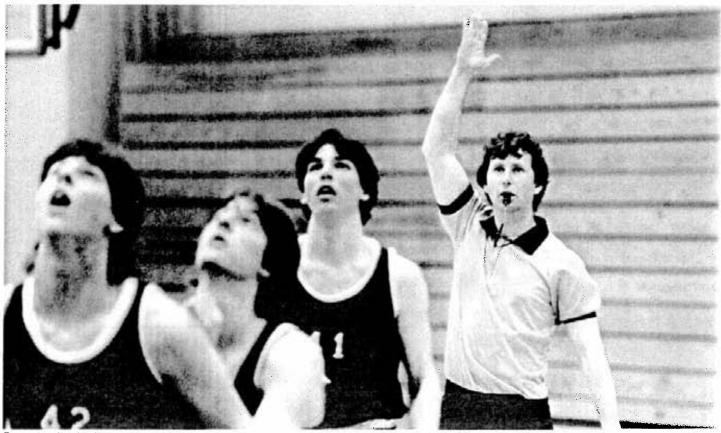
Terry lists "a love of the game," "discipline" and the ability to maintain "composure" in the heat of a game as important qualities for an official to have. A referee is there to call infractions of the rules, he says, "you call what you see." It is the players who control the flow and outcome of a game, he adds. "No game has been won or lost by one call. I'm not out



Terry Sasseville calls a foul in a midget high school playoff game at Cambrian College.

there to determine who is going to win."

"It's not that this is a profession," he says, "however you have to be as professional at it as possible." If there existed a means of officiating for a living, Terry says, he would do it. "The ultimate would be Sudbury getting an NBA franchise and me doing it for a living."



Terry signals a basket.

Sudbury suggestion plan awards



Bud Mullen, left and Rosy Bussolaro split \$4,510

- **\$4,510** Rosy Bussolaro and Bud Mullen of the Copper Cliff mill suggested the elimination of one spray tank system in the dewatering area. This resulted in considerable labour and energy savings.
- **\$1,289 Bill Gagnon** of **Creighton mine** pointed out that the gib plates on Joy MSF-S-MS2 drills are made of hardened steel which is too brittle to withstand the vibrations of the drill. This caused the plates to fracture at the holes. He recommended that the plates be fabricated from mild steel flat bar to impart more resilient qualities.
- A trio at the Copper Cliff smelter, Ivan Kovacs, Claude Pharand and John Potvin shared an award for suggesting that a high pressure air line to the Copper Cliff mill be rerouted outside instead of inside a tunnel. This resulted in material and labour savings in maintenance of this air line.
- **Robert Sanders** at **Garson mine** put forth the idea of purchasing a 12 volt lamp charger to salvage discharged 12 volt wet cell batteries. Savings are realized when batteries are recharged.
- **Roland Boesch** and **Paul Lavigueur** at the **Frood-Stobie mill** proposed that the mechanical flow switch on XRF cooling water be replaced with an impedance module to monitor the return water running back into the tank. This has proven more reliable and less costly to replace and maintain.
- \$355 At the **Stobie warehouse, Gerald Forest** found two identical HYD filters were stocked under two different codes. One of them was eliminated which cut costs.
- **Edward Brosseau** of the sand plant at **Levack mine** came up with a new method of unplugging lines carrying sand to the mixing tank. It proved to be a more efficient method of dealing with this problem.
- At Creighton mine Felix Santagapita suggested that the ½ section on either side of "Y" or "T" ventilation pipe be eliminated in order to make it easier to transport from surface to sites underground.
- Three men at **Stobie mine, Alexander Jerome, Ernie Contini** and **Cornelius Staalstra** put forth a suggestion to remove the high speed drive line bearing on ST-8 scooptrams with a bearing puller rather than with a burner. This minimizes risk of damage to the bearing housing, reduces downtime and eliminates the fire hazard.
- **Serald Bourre** at the **Frood Stobie mill** suggested that a system of water sprays be installed on conveyor belts to reduce friction and assist rubber scrapers in cleaning the belt. This was found to reduce maintenance costs and cut down time and labour costs.



Bill Gagnon pocketed \$1,289

A bumper crop of 175 suggestions paid a total of \$37,530. Not bad for a days work! Due to space limitations we are not able to publish all the names.

\$200	Gordon Storey of the separation building in the matte processing department of the Copper Cliff smelter advised the use of a one spray system instead of two on M1-A and M1-B slurry automatic samplers. The elimination of one spray system resulted in material and labour costs.					
\$230	Antti Suosalo of the bucket shop at Creighton mine suggested a modification to bulldozer blades which involved putting a ¾ inch steel strip and three gussets (brackets) behind the wear plate. This reinforced the wear plate and reduced wear plate breakage.					
\$185	Antti Suosalo's second winning suggestion of this edition was to replace the bad order portion of the center bracket on D4D bulldozer blades with ¾ inch 400 echelon plate rather than replacing the entire bracket. This cut material costs.					
\$180	James Tomasini of divisional shops came up with a better method of repairing car puller drums. This cut labour costs.'					
\$150	Arie Diethelm of the Copper Cliff nickel refinery suggested the use of profile plates as an alternative to inertia filters on the H & V unit. This proved to be a slightly better method and ensured the required flow of air to the burners.					
\$150	Bruce Friend of the sulphur products department at the Copper Cliff nickel refinery recommended the installation of a remote control system to operate a recycle valve. This proved to be more efficient than the manual method.					
\$150	Ernie Savelli and George Hudac of the separation building of the matte processing department of the Copper Cliff smelter suggested using plastic feed gates instead of stainless steel gates to eliminate build-ups of feed and to cut maintenance costs and downtime.					
\$150	Howard Pardy of the Copper Cliff smelter proposed removing the planks on the walkway to the sand bins and replacing them with a cat walk. This prevents a build up of sand improving safety and cutting costs associated with cleaning up sand spills.					
\$150	Alphonse Lavigne of Levack mine suggested that 4" sandfill lines be piped without the use of the rubber gaskets inside the clamp. This is an easier and faster method of piping.					
\$150	Ted Callaghan and Robert Gervais of the Copper Cliff nickel refinery shared an award for recommending improvements to the backwashing of five raw water and side stream filters.					
\$150	At the oxygen plant Gilbert Depatie proposed that the blower used to reactivate oxygen dryers be eliminated and that nitrogen from the main plant be employed for the heating and cooling cycles. This cut maintenance and operating costs.					
\$150	Louis Prete of the Copper Cliff smelter found it was difficult to undo a new high pressure line on nickel converters because it lay flush to the bussel pipe. He remedied the situation by putting forth the idea to add a short extension to the line.					



Paul Suominen, left, and **Kerry Ellis**, right, explain their winning project to Dave Huggins, manager of process technology, during the annual Science Fair in April.

Midget champs

The Burgess Esso midget hockey team completed a very successful 1983-84 hockey season. The team captured the Midget AA championship of Sudbury. It also gave excellent

showings in two tournaments, The Silver Stick and the North Bay Golden Puck. The Burgess boys won the consolation award in both these events.



Members of the Burgess Esso hockey club, winners of the Sudbury AA Midget championship, are front row, from left, Russ Tilson, and Robin Guerin; second row, from left, Ray Tilson, coach. Rob Doyle, Dean Guitaro, Scott McCulloch, Cam McMorran, Terry Hallick, Wayne Stryde, son of Cyril Stryde of Frood mine, and Dwayne Brown (coach), third row. Chris Bardeggia, Ray Poitras, Shane Barr, son of Don Barr of Frood mine, and Ron Perrault; back row, from left, Ken Hallick, manager, Gary Labelle, Ron Sherbey, Terry Corbeil, Eugene Webkamigad and Lloyd Rainville, trainer and an Inco employee.

Young scientists

The 15th annual Sudbury Regional Science Fair was held in April, at the Cambrian College Convention Centre in Sudbury. Students from area schools in grades 7 to 13 presented their scientific projects and experiments in the categories of Life Sciences, Physical Sciences, and Engineering Sciences.

Over 100 exhibitors competed for major awards including four trips to the Canada-Wide Science Fair at St. Mary's University in Halifax. Once again Inco donated \$500 to the Sudbury Regional Science Fair; \$250 each to the

first and second place finishers in the senior division of the Engineering Sciences. Dave Huggins, manager of process technology, attended the awards ceremony and presented the winners with their cheques.

This year's champions in the senior engineering category were Paul Suominen and Kerry Ellis of Nickel District Secondary School for their computer-related exhibit entitled "Byte the Dust." The runners-up were also from Nickel District S.S., Kathy Belyea and Paul Ogilvie for their project "Pusher Propfan Propulsion."



It's never too late

Zenon Labelle 69, an Inco pensioner who retired in 1973, walks down the aisle with his new bride, Evelyn Lalande, 61,

At this stage of life Zenon Labelle proved that it's never too late to do anything. On April 7th he escorted Evelyn Lalande to the altar in St. Mark's Church in Markstay where they were wed. After a reception that 350 friends and relatives of four generations attended, the happy couple departed for a honeymoon in Toronto.

This is the second marriage for both the bride and the groom. Zenon's first wife died two years ago while Evelyn's husband died eight years ago. They have known each other for many years. Evelyn, who for a long time resided in Welland, returned regularly to Markstay to visit relatives.

The newly-weds are now residing at their home near Ratter Lake. Their hobbies include hunting, fishing and camping.



Super safety

Stobie mine's electrical maintenance crew has quite the safety record going for it. The last time it suffered a lost time accident was October 27. 1979, almost five years ago. It has also worked since March 16, 1982 without a medical aid injury. This record of safety is a significant one with respect to maintenance crews at Incomines in the Ontario division.

Bob Harkins, the crew's foreman, reports that everyone

in the group is very aware of the safe record they are building and it is something of which they are very proud. They bring that awareness to the workplace every day and translate it into good, safe work habits. Bob says the Neil George Safety System with its five point format has helped the men in maintaining this attitude. It provides a checklist for everything from personal protective gear to properly functioning equipment.

This electrical maintenance crew is going into its fifth year of work without a lost time accident. It consists of front row, from left. Rolly Maisonneuve, Rod Burns, Ivan Budgell, Bob Keyes; middle row, from left, Bob Harkins, electrical foreman, Doug Jeffrey, Dave McCann, Roger Oman; back row. Vince Wierzbicki, Dermott Kinsella, Marcel Garneau and Ron Piette. Not in photo. Arnold McMillan. Denis Laframboise and Fred Grylls.

Highest guiding honor awarded



Suzanne Boudignon, International Camp advisor for Girl Guides of Canada. left, presents **Tammy Kutschke** of the First Copper Cliff Pathfinders with the Canada Cord.

Tammy Kutschke, the 16 year old daughter of Leonard Kutschke, a stationary engineer at the Copper Cliff smelter, was given the highest award in Girl Guides, the Canada Cord, at a ceremony at the Copper Cliff Community Center recently. She is a member of the First Copper Cliff Pathfinders, part of the Girl Guide movement in

Canada. To qualify for the Canada Cord award she had to fulfill 30 different "challenges". In four general areas; community, outdoor, home, world and camping.

Tammy is a Grade 10 student at Lockerby Composite School. She has aspirations of becoming a dental hygienist.

Staff Appointments

Darling, George — safety foreman. Copper Cliff south mine

Heffern, Gordon — shift foreman, NRC, Copper Cliff nickel refinery

McDonald, Michael — maintenance

foreman, Copper Cliff mill

Morbin, George — shift foreman.

MP. Copper Cliff smelter

Stevens, Garry — water regulator, operating central utilities

Sutton, Rodney — senior specialist, central maintenance

True, Laurel — payroll clerk, division comptroller

Vincent, Gisele — clerk stenographer, Copper Cliff transportation

White, Reginald — shift foreman, NRC, Copper Clift nickel refinery



Veikko Laakso, newly inducted member of the Copper Cliff Maintenance Pension Club, thanks organizers for the gift of a gold watch at the annual banquet in April. Bob Roberti, left. vice-president of the club, and Bill Doherty, right, look on.



Part of the throng of over 600 that attended the Copper Cliff Maintenance Club annual get-together.

Maintenance pensioners honor new members

One of the most venerable institutions at Inco. the Copper Cliff Maintenance Pension Club held its 45th annual banquet in April. Over 600 club members attended the affair and welcomed 53 new pensioners to their ranks. New members were presented with a gold pocket watch.

The pensioners were feted with a dinner and

entertainment at the Caruso Club. Many of the guests had travelled from throughout the province to attend the special function. The Company was represented this year by Tom Prior, superintendent of divisional shops. The Copper Cliff Maintenance Pension Club is sponsored by maintenance employees at Inco's Sudbury operations.



Thomas Webster, newly inducted member of the Copper Cliff Maintenance Pension Club, accepts his gold watch from club vicepresident **Bob Roberti** while master of ceremonies **Bill Doherty** looks on.

Best goaltender

Dinesh Sirvastava, the 16 year old son of Suresh Sirvastava, an analyst at the Copper Cliff copper refinery lab, is making winning a habit.



Support the United Way

His excellent play this past season in the midget ranks of the Sudbury Minor Hockey Association earned him the nomination as the league's best goaltender. This marks the third time that he has won a best goalie award.

He received the same recognition when he played peewee and bantam hockey.

A grade 11 student at Sudbury Secondary School, Dinesh hopes that he will be drafted by a junior A hockey club this year, preferably the Sudbury Wolves. He has aspirations of playing professional hockey in the future.



Dinesh Sirvastava polishes the latest addition to his growing collection of hockey awards, a trophy for being the best goalie in the midget ranks of the Sudbury Minor Hockey Association

Employees educate

Many Inco employees participated in education week which was held recently at Sudbury district schools. During that time students had the opportunity to display some of the things that they had been doing. They also got a chance to see some of the skills and equipment that

are necessary in the workplace.

One such exchange took place at St. Dominique's School when five employees from the Frood-Stobie-Garson complex gave the students a demonstration of mining techniques.



Leo Foisy shows sudents Dan Michaud, left and Gwynneth Balley some of the equipment used in burning and welding.



Students, from left, **Brendon Ashcroft, Alan Portelance** and **Chantal McLean** get close up to look at one of the slides held by **Gilbert Quesnel. Gilbert** showed a slide presentation on the mineral industry to the class.



Yvan Forgues explains the importance of following safety procedures and the danger associated with blasting caps. His message to all children is "Play it safe — stay clear!"



Students Lise Dufresne and Romeo Richard get a lesson on sighting a transit from Andre Tessier.



Gilles Charbonneau has an appreciative audience as he points out some of the features in different ore samples.



PORT COLBORNE EMPLOYEES AND PENSIONERS GOLF TOURNAMENT

Date: July 25, 1984

Place: Port Colborne Golf & Country Club

For more information contact Les Lewis 834-6672

or

Elaine Arnold 834-3611



Sudbury Golfing Pensioners

Date: August 14, 1984

Place: Lively Golf and Country Club

Entry fee: \$10, includes meal and green fees

All entries must be received no later than August 7, 1984. Registration is limited to the first 160 entries

so get your name in early.

For more information phone Jim Bryson 675-8236

Entry forms available at local golf clubs or send in this one to:

Jim Bryson 630 Pine St. Sudbury, Ont. P3C 1Y8 Name

Address

Phone Number

Golden Anniversaries



Leo and Lillian Gies

It was on April 23, 1934, up at Spragge, that Leo Gies and Lillian Folz were married, and on the 28th of that month this year, their 11 children arranged a big celebration for them at the local Oddfellows Hall. Many friends were there along with their 11 children, 27 grandchildren and five great-grandchildren.

Leo had retired from Frood back in 1965, he had some heart trouble. He was born in Sudbury but later lived in Blind River where his dad helped build the mill and that is where he met his wife.

At the time of their marriage Leo was working for the government for \$5 a month, it was the height of the Depression, so they lived at her mother's place for a time until they could afford to go out on their own.

"We started with almost nothing," said Mrs. Gies with a big smile. "And we've both worked hard. But it certainly hasn't hurt us and I sometimes think that is what helps hold marriages together."

Way back in November of 1950 the Gies family appeared in the family album of the Triangle, but there were only 10 children then. They are very

proud of their "brood" and they often wonder today how they raised them all in a small home.

The five sons are: Leo in Burlington; Bill with Falconbridge; John at Stobie; Larry with Ontario Hydro, and James with Sears. The six girls are: Barbara, whose husband Ray Levesque is at South mine; Sally, Mrs. Harry Beute, who lives near Perth; Emma, Mrs. Dan Goodhuis, and Linda, Mrs. Claude Ouellette, both husbands are Frood men; Deanna is Mrs. Wayne Richert of Ft. Francis, and Noella is married to Don Latimer of Sudbury.

And all of those in the area visit their parents quite regularly, and Leo and Lillian like that. They have lived on Keen St. in the Minnow Lake area since 1953.

Prior to the celebration, at the Holy Redeemer Church, they had a special ceremony at which their rings were blessed. They also received congratulatory messages from leading political figures, and among other gifts, a purse of money.

Their family range in ages from 30 to 49 and as Mrs. Gies says quite happily; "When they were home there was never a dull moment." Both she and Leo are in reasonably good health and continue to enjoy each other's company.

Gus and Hazel Carthew

Gus and Hazel Carthew celebrated their 50th Wedding Anniversary on April 14th, 1984 by greeting more than 155 neighbours, friends and relatives at an open house held in their honour. The guests came from all over Ontario and New York state, bringing them many gifts, flowers and cards of good wishes. Representatives from

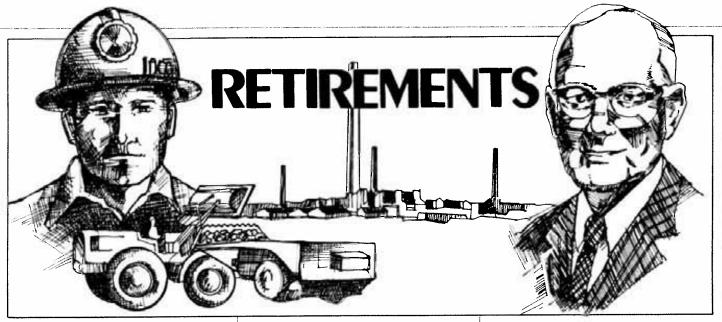


every level of government also came by to bring certificates commemorating the happy occasion.

They had met while both were singing in the choir at St. George's Church in St. Catharines and eventually were married in that same church in 1934. They moved to Port Colborne in 1936 when Gus landed a job with Fraser Brace Construction helping to add new units on the electrolytic nickel refining building. In the fall of that year when construction was completed he was hired by Inco and stayed with the company until his retirement in 1977. Gus is an amicable fellow and made many friends during his stay at Inco.

The Carthews have five children that helped them celebrate their 50th Anniversary. They are: Marlene, Mrs. Tony Edwards, Jackie, Mrs. Alfred Marinelli, Jim of Port Colborne, Richard of St. Catharines and Bill of Wawa, Ontario. There are also seven grandchildren in the family, five boys and two girls.

Since retiring from the Port Colborne nickel refinery, Gus and his wife have enjoyed travelling and camping in their house trailer. They have spent most of the winters in Florida enjoying the warmer climate there. Gus is currently president of the Beachcombers Senior Citizens an active seniors group, and when he is not involved in one of their activities, he spends time looking after his neat home on Derby Road in Crystal Beach. He also likes to drop a fishing line in water when he can. Hazel looks after the interior of their home and enjoys many of the activities of the seniors group.





Valere Turmel

Valere Turmel was known as "Super Star" by his fellow workers at the Port Colborne nickel refinery.

Now, after 41 years service with the Company, Valere has retired on disability pension. However, he admits missing the gang at work. In addition, he is grateful to the Company. "I want to thank Inco for giving me a steady job all those years. I received a good pension and have no complaints."

Born in St. Adolphe Duswell, Quebec in 1924, Valere first tried lumberjacking for a couple of years in his native province. He then came to Port Colborne in 1943 and started at the refinery the same year in the shears department. He also did most of the jobs in No. 5 building before moving on to the shop in 1947 and becoming a first class pipefitter.

Valere married Rhea Laurette of St. Therese-de-Gatineau, Quebec on May 17th, 1944. The wedding was in

Sacred Heart Church, Welland. The couple have four married daughters: Florence Winn of Utica, N.Y., Louise Doan of Lowbanks, Helen Parent of Ottawa, and Jean Pelkey of Edmonton; two sons: Maurice, a Doctor of Psychology in Winnipeg and Donald, a welder at John Deere in Welland. There are 10 grandchildren.

Valere and Rhea are looking forward to a family reunion this July to celebrate their 40th wedding anniversary. "We are planning a big day when all the children come home", Valere says.

The couple share many activities and will be busy now that retirement has arrived. They are members of the Golden Age Club and enjoy bowling on Sundays and playing cards on Tuesdays. In addition, they take care of their house and do lots of walking. Last year, they visited their son Maurice in Winnipeg.

Tonino Detiberiis

Tonino Detiberiis says it feels good to be retired after 32 years of service at the Port Colborne nickel refinery.

Born in Manoppello, Italy in 1931, Tony, 20 years later, found himself moving to the former Humberstone Township area of Port Colborne. He worked for a short time at both Maple Leaf Mills and Robin Hood Multifoods before coming to the refinery in 1952. He started in No. 4 building as a laborer, then moved into No. 5 building and later to the shop. He was a first class painter for three years before taking an early retirement.

Tony married the former Nancy Venditti of Italy. The wedding took



place in Thorold on September 24th, 1955. They have two sons: Sandy of Thorold, who works for the Ontario Paper Company, and John, at home.

Tony had his comfortable and spacious Coronation Drive home built in 1966. Tony and Nancy enjoy travelling and have taken memorable bus trips to Daytona Beach, Florida.

With plenty of property, Tony says he keeps busy taking care of the lawn. He also plants a garden each year, and enjoys friends visiting in the summer for barbeques on the back patio.

Ross Lever

Ross Lever plans to do plenty of pickerel fishing now that he has taken a special early retirement after 44 years of service at the Port Colborne nickel refinery.

An avid angler for the past 20 years, Ross can likely be found at his favourite fishing holes in Gull Lake, Lake Nipissing or Lake Erie this summer.

Born in Humberstone Township in



1922, Ross landed for his first job at the Humberstone Shoe Factory. He stayed there for only ten months before joining Inco in August of 1940. He started in the warehouse, and worked 20 years as a laborer in the scrap wash department. He was transferred to the shop in 1964 and remained as a carpenter until retirement.

Ross married the former Sylvia Sewell of Humberstone on September 1, 1951. They have three daughters: Janet who is a secretary in Windsor, Linda, a records clerk at St. Joseph Hospital in Hamilton, and Catharine Atamanuk of Grimsby, and two sons: Rick who works at John Deere in Welland and Jim, a post office employee in Ajax. They also have four grandchildren.

To reach their favourite island retreat on two-mile Gull Lake, Ross and Sylvia must journey by their 14 foot aluminum boat. During their stay, they camp out on the deserted island and enjoy great fishing. "I go for the pickerel. There are big ones up north, but you also can catch plenty in Lake Erie." Ross says.

When not fishing, Ross shoots in the low 80's at various area golf courses. He is also a volunteer fireman with 30 years service. Presently, he is finishing off his basement recreation room.

The couple have also managed to squeeze in some travelling during their busy agenda. They have visited British Columbia, Thompson, Manitoba, Red Lake, Ontario, and across the United States. A trip to the east coast is next in their retirement plans.

William Macdonald

After 31 years at the Port Colborne refinery, William Macdonald has elected to retire on disability pension due to surgery the past two years on his knees and legs.

Bill was born in 1923 in the same Charlotte Street house that he now resides in. He began at Inco in 1941 with the yard gang, and transferred to the electrical shop before joining the RCAF in October of 1942. He served three years in Canada and overseas and came back to Inco for a short period in 1945 before taking a business administration course at Hamilton Business College. He returned to Port Colborne and entered into the general insurance and real estate business under the name of Macdonald Insurance Agency. In December of 1945, Bill returned to Inco in the labour pool, then moved into the warehouse as a weigher. He later became a locomotive driver and in 1966 moved to the electrical shop as a substation operator for 14 years.



He remained in the electrical shop until 1982 and then took a two year leave of absence to undergo four operations to both legs.

Bill married the former Margaret Fisher of Edinburgh, Scotland in 1958 at Port Colborne. They have four daughters: Laura, a laboratory supervisor in Kitchener, Linda Gallup of Welland, Lois Gilbert of Reebs Bay, and Wendy Mester of Fort Erie, and two sons: William, a laboratory technician with the Ministry of Health in Toronto, and lan, a chef in Calgary, Alberta. They also have 12 grandchildren.

Bill recently enrolled in a computer

course to keep abreast of today's fast changing technological world. He also enjoys playing the organ and is an ardent fan of the big band sound.

He is a member of the Canadian Corps, Blue Bird Club, and Arthritis Society, and is a past member of the Chamber of Commerce. Margaret enjoys bowling each week in the local five pin league.

The couple have travelled to Scotland several times, and also to Western Canada. This June, a big reunion is planned at the Macdonald home when 11 relatives will be visiting from Scotland.

Aurel Duhaime

Aurel Duhaime was born and raised on a farm in St. Charles. Until he was 23 years of age he worked on the farm and in the bush with lumbering firms. In 1945 he came to Sudbury looking for work of a less seasonal nature.

Aurel started with the Company in that year at Frood mine. He spent six months in the stopes before transferring to surface and the transportation department. He was in transportation for eight months. Then he moved to the Copper Cliff smelter where he stayed for the next 36 years.

In 1947 he married Pierrette Gauthier in Sudbury. They have five children. Daniel lives in Ottawa. Roger is in Sudbury. Daughters Camelia, Marie and Aurelie are all in Sudbury. There are four grandchildren.

Playing the fiddle is Aurele's premier joy in his spare time. Hunting is another hobby he enjoys every year.



Bill Burgess

Sometimes, there just isn't enough hours in the day for Bill Burgess to keep up with the odd jobs around his home now that he has taken early service retirement from the Port Colborne nickel refinery.

Bill, who describes himself as a "Jack of all Trades", admits he is always thinking of new projects, whether it be tinkering with lawn mowers or remodelling his Rosemount Avenue home.

Born in 1924 at Port Colborne, Bill was raised on Colborne Street right under the shadow of the former No. 1 building chimney stack. He delivered groceries and worked at the shoe factory for about a year before starting at Inco in 1940 in the cutters' department. Bill joined the Royal Canadian Navy in 1943 and



remembers spending his 21st birthday in India. "I travelled all over the world while in the navy. Maybe that is why my wife can't get me to travel", he said. Bill was one of 250 volunteers from his outfit that went ashore in open boats for the surrender of Hong Kong. "I was in the engine room branch with the navy, but there were no marines with us, so they asked for volunteers to land at Hong Kong. I spent five and a half months at the garrison there."

While in the service, Bill also became welterweight boxing champion. "I almost got a chance to fight the welterweight champ of the United States Navy in Australia, but at the last minute we got orders to sail in the opposite direction," he said.

After being discharged in 1946, Bill returned to the refinery in the

machine shop. He became maintenance foreman and retired as a safety training co-ordinator.

While on a nine day pass from the navy, he married Irene McTaggart of Napanee on March 4, 1944, in the Port Colborne United Church. The couple have five children: Mrs. Don Green (Linda) of Wainfleet, Mrs. Norm Hendrycks (Shanon) of Bramalea (who is a former Inco scholarship winner). Jeffery, an IBM employee in St. Catharines, Paul of Welland, who is a machine operator at Fleet Industries in Fort Erie, and Cindee, at home, who just completed her first year at the Mack School of Nursing in St. Catharines. They also have five grandchildren.

Bill, who was a member of the 1942 Port Colborne Junior B Championship hockey team, has been involved for a number of years with coaching and instructing the youth of the community. He was behind the movement to start the Royal Canadian Sea Cadet Corps Valiant in 1946 and continued with the Corps for a number of years. He helped organize the Port Colborne Minor Baseball Association and coached for several seasons.

While both Bill and Irene share in the home improvements, Bill admits his wife plays more golf than he does. While he doesn't plant a garden, Bill enjoys growing flowers, tomatoes and peppers from seed in his greenhouse. His father operated a greenhouse business in the community for many years. Bill is also a member of Branch 56 Royal Canadian Legion.

Lucien Montpellier

Lucien Montpellier was born on a farm in the Chelmsford area in 1923. His grandfather had the original farm where the golf course is today. Lucien had stayed on the farm until joining Inco in 1942.

His father had the mail route for R.R. No. 3 since 1937 and it is still in the family. Lucien recalls delivering the mail by truck, horse and in real bad winter weather, by dog sled. His brother presently sees that the mail goes through.

Starting at Levack in 1942 when J.B. Fyfe was superintendent, Lucien worked there until 1945 when he quit, just prior to the layoff. He went north to the gold mines at Timmins and later worked for a time with

Falconbridge before rejoining Inco in 1951 at Murray mine. In 1962 he returned to Levack and worked there until his recent retirement on an early service pension. "I've had a problem with my back for several years," he said. "So I thought it better that I retire." He had worked at most jobs in the mine, including stopes, pillars and tramming crews.

Married in 1943 to Jeanne Beaudry of Azilda, they have four children and six grandchildren. Son Ronald is at Little Stobie; Maurice is in Hanmer and Norman in Chelmsford. Daughter Lise is at home and works at the tax data centre.



Lucien has lived at Chelmsford all his life and they have a very comfortable home there. At one time, from 1951 to 1969, they ran a dairy farm with a herd of some 80 head. "We worked hard," they both agreed. "And after the boys left home it got to be too much for us so we sold it." They sold all their milk to the Levack dairy. Lucien is one person who was happy when the milk marketing board was introduced.

Lucien and his wife enjoy camping and have visited many provincial parks with their camper. They have also travelled to both coasts in Canada and hope to see the west coast again. Lucien is somewhat limited in his physical activities but is an ardent hockey and baseball fan. He also likes to read and finds the local library a great boon.

Mrs. Montpellier has worked for many years in Stedman's store in Chelmsford and she enjoys it and hopes to continue working. Lucien does find the time a bit long although last year he was busy building a new recreation room in his basement. Other than his back problem both he and his wife are enjoying good health.

Vacys 'Bill' Stepsys

Born on a farm in Lithuania, Bill Stepsys came to Canada in 1952. But before coming here he had worked in both Germany and in England. He was taken to Germany in 1944 for farm work, then after the war went to England in 1947 where he spent three years on a farm and a couple of years in factory work.

In Canada he worked for a time in the bush before coming to Sudbury and a job at the crushing plant in 1952. "I worked on the loading bins for 20 years and I liked it there," Bill said. "It was hard work but I was used to that."

When the crushing plant closed he went to the Copper Cliff mill for a time then spent the rest of his Inco years at the Frood-Stobie mill. Bothered with arthritis he decided to take an early service pension. He was born in 1920.

Through correspondence and the exchange of pictures he returned to his homeland in 1960 to meet his bride-to-be, and in four weeks they were married. She was Ann Durtis before their marriage and was not able to join Bill in Canada until a year had elapsed.



Their son Paul is with the Canadian Armed Forces in Manitoba, and there are two daughters: Magdalena, married to Gediminas Remeiks of the local police force, and Theresa attending Laurentian University. To date there are two grandchildren.

Bill and his wife have lived in the Donovan section of Sudbury for many years and will remain there. Bill does a bit of gardening and has a couple of apartments in his building to look after. He likes to walk and is an avid reader. He watches very little television except for some sports such as hockey and soccer. He meets many of his friends on his daily walks to the local City Centre.

Bill and his wife belong to the Lithuanian Society and in general, are in good health. Bill has no plans for returning to his homeland, even for a visit, he is quite happy right here in Sudbury.



W. Shorty McOrmand

Shorty McOrmand first started with Inco in 1943 but his career with the Company was interrupted by a duty of another kind. He joined the armed forces that same year and served as a Sherman tank gunner in the British Columbia regiment. He was wounded in Germany in 1945. He was discharged a year later.

After taking a radio course, Shorty returned to the Copper Cliff smelter. From that time to when he took his pension recently, he worked in the roasters and in the cottrells. A native of Sturgeon Falls, he first entered the labour force as a driver of a horse and wagon for Jessup's Store in Sudbury. He went to Nordale Construction in 1942 and worked on the erection of Murray Mine.

In 1948 Shorty married Marion Graham, a gal from Coe Hill, Ontario. They have three children. Sandra is married to Jerry Strong of Elliot Lake. Nancy is married to Allen Mourot also of Elliot Lake. David is at home. There are five grandchildren.

Shorty's hobbies include repairing radios and televisions and taking courses at Cambrian College. Now that he is retired he will probably be travelling a bit more in his trailer throughout the summers.

Gerry Charron

Gerry Charron says he began farming as soon as he could walk on the family spread in Sturgeon Falls. Later, as a teenager, he worked in a lumber camp for six seasons. He came to Sudbury in 1947 looking for steady work and he found it with Inco.

Gerry started in the roaster department of the Copper Cliff smelter, performing the various jobs in that department until 1969 when he went on staff. He spent ten years on staff. In addition to the roasters, he worked in the reverb furnaces and the sand bins.

In 1951 he married Rita
Beauparlant of Verner. They have
three children. Gilles now lives in
Quebec. Donald is with the
mechanical maintenance department
of Public Works Canada in Sudbury.
Suzanne is a registered nursing
assistant in Sudbury. There are two
grandchildren.

Gerry lists fishing and gardening as hobbies he enjoys. Reading and playing cards are two other favourite pastimes. One of his ambitions now that he is retired is to see more of Canada.



Alphonse Dechaine

Al Dechaine retired recently from the garage at Copper Cliff on an early service pension and is enjoying his new life in retirement.

Born at St. Paul, Alberta in 1920 he was raised on the family farm there along with his nine brothers and sisters. He was in the services from 1941 until 1946 and was stationed in England just before D Day.

He returned west for a time after the war then went to work for a couple of years in Toronto as an auto mechanic and later worked at that same trade in Espanola. When he was laid off there he came to Sudbury. A day after his arrival he was working with Jock Rennie's 'Misfits'. He had worked at the mill, the iron ore plant and Coniston and later for Tom Strong at the concentrator. From there he moved to the garage to work for Tommy O'Connor and remained there until his retirement.

"This has been a good place to work," Al said. "And I have made a good living. I'm glad I came here."



Rita Lachance was working in New York but her home was in Espanola and on one trip home Al had the pleasure of taking her from the airport at North Bay to Espanola. And that led, in a few short months, to a wedding in New York. Their two sons Dennis and Gerry are both working in Edmonton, and daughter Iona, Mrs. Keith McRae, is in Ottawa. To date there are four grandchildren, three boys and one girl.

Al and his wife still live in the Minnow Lake area of Sudbury where they have been for 29 years. Both enjoy gardening as a hobby. Al is trying out some Siberian tomato plants that are supposed to mature in the colder northern climates. He says they are fine but the fruit is a little smaller.

They enjoy their trailer and travel to many parks in summer. All is a member of Branch 76 of the Legion and is fond of baseball and football. They are members of the Country Music Travellers Club and are also ardent square dancers.

They like to visit with their family and are both enjoying good health and now with more time, they hope to travel more. It is quite obvious that they are enjoying retirement.

Mykola Kuchtaruk

Nick Kuchtaruk was born in a small village in the Ukraine where lumbering was the prime industry. Nick says they had some virgin timber there that took two men to span the trunk.

He grew up there and after his schooling became a bookkeeper during the war years, 1941 to 1945. He recalled that when the Germans were retreating in their direction he left, went to Czeckoslovakia for a time and then to Germany where he worked on the railroad for a couple of years. In 1947, he was in a French displaced persons camp and when offered the chance to come to Canada, wasted no time.

Originally sent to Noranda, he worked there from 1948 to 1950. Then an offer came to come to Sudbury and play soccer for the famed Ukrainian Sich soccer team. He



came, played soccer and got a job at Frood mine.

After a year underground, he transferred to the mechanical department, then worked for a time in the rockhouse and the open pit crusher. As the result of a cutback he went to Murray mine where he eventually became a hoistman until that mine closed. Then it was back to Stobie until he moved to South mine as a toplander and later as hoistman, the job he retained until his recent retirement on early service pension.

Nick married Eugenia Molodowec in Sudbury in 1953 but his wife died in 1978. He is rightfully proud of his three children. Son Yaroslav, a dentist in Chatham and Andrew a doctor in Sudbury. Daughter Irene is a pharmacist in Toronto. None are married to date so there are no grandchildren.

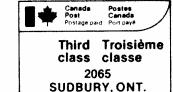
Nick has lived on Edmund St. in Sudbury since 1956 and has a fine garden there. His hobby is wood carving, his father was a carpenter and Nick likes working with wood. He has a small boat and likes to fish and has caught some good sized pike right in Lake Ramsey.

He is active in church work, sings in the Ukrainian choir, likes to read and watch soccer on TV. He is enjoying good health and hopes now to travel more and possibly see more Canada.

Pensioners' and Employees' IN MEMORIAM

Name	Age	Died	Service (Years)
Anderson, Henry B. Armstrong, Guy	78	May 4	26
	74	April 14	45
Bertrim, Grant E. Blight, John W. Bouillon, Arthur	67	April 10	40
	72	April 7	34
	66	April 9	39
Caron, Peter Carriere, Joseph P. Castanza, Ricco Chenier, Fernand Chudczak, Joseph Codd, John Cote, Joseph A.	63	April 28	31
	72	April 30	23
	59	May 18	38
	71	May 17	24
	80	May 7	20
	70	May 10	26
	67	April 24	30
Dube, Alfred Gazzola, Victor Ivan, Andrew	63	April 20	38
	77	May 12	34
	83	April 21	33
Kirkwood, John	80	May 19	31
Kruze, Imants	59	April 23	33
Laamanen, Alex	78	April 28	29
Leduc, Patrick	80	April 25	23
Leroux, Joseph O.	77	May 3	27
Livingstone, William	75	April 16	39
MacDonald, Roy	85	April 16	33
Myllynen, Taisto	69	April 12	27
Myszkowski, Bogdan	59	April 27	32
Pietrasiak, Lucjan	63	April 24	31
Reynolds, Mary Schneider, George P. Shigwadja, Albert Suckow, Basil Tepuric, Branko	97	April 24	20
	80	April 16	27
	78	April 18	24
	84	May 7	26
	67	May 21	15
Tremblay, Leonard	61	May 8	22





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If you wish to save postage and handling charges you can pick the coins up in person at Science North. There is also a double presenta-



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Medallion in clear plastic capsule		\$9.69		Please charge my credit account:
Name				My credit card account number
Address				Expiry Date
, 1001 0-13				Signature
City	Prov.	Postal C	ode:	nghature
_	PTIDE TO	Science North, 100 Rams	Laka Baad	Order form must be signed by the car holder to be valid.