

INCO TRIANGLE

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In a Copper Cliff Garden

(STORY ON PAGE 16)





In a simulated moon walk in the Kelly Lake area, Apollo 16 Commander Young and Lunar Module Pilot Charles Duke follow the procedure of transferring a scoop sample of soil to a numbered bag, at the same time reporting a description and number of the sample by radio to Mission Control.

Sudbury Basin Rocks Give Clues to Apollo 16 Mission

When John Young and Charles Duke go rock-picking on the moon next March, after the fifth U.S. manned lunar landing, they'll be a lot more knowledgeable in selecting samples to bring back to earth as the result of the three-day course they received in the famous Sudbury Basin area early this month.

The two prime crew members of the Apollo 16 Mission were key men in a party of 20 that engaged in field expeditions to familiarize themselves with the characteristics of rocks believed to have been smashed by a gigantic meteorite about two billion years ago. From these observations they will be able to tell whether a moon crater was caused by meteoritic impact or was volcanic in origin.

Back to the Beginning

Thus more invaluable information will be gleaned about the pro-

cesses that created the highlands which cover more than three quarters of the lunar surface—processes which are thought to have had their beginning soon after the origin of the solar system four and one-half billion years ago.

Accompanying Apollo 16 Commander Young and Lunar Module Pilot Duke (Command Module Pilot Thomas Mattingly couldn't make it) were Fred Haise, member of the back-up crew, and Tony England, training for future manned space flights, who will be one of the communicators with Apollo 16 operating at Mission Control in Houston, Texas. Also on the expedition were NASA geological authorities, technical experts, and equipment men. Mike Dence, a geologist with the Department of Energy, Mines and Resources, Ottawa, assisted members of International Nickel's geological research department in briefing the keen young astronauts. Inco's J. Guy Bray, manager of geological research, Toronto, and Don Phipps, senior research geologist at Copper Cliff, were the chief guides and advisers of the expedition.

Suits Too Cumbersome

Although complete space suits and equipment would have been too cumbersome for the exercises, compared to their reduced weight in the lower lunar gravity pull, the astronauts simulated moon walks in most other respects. Twenty-five pound imitations of their life-support packs were strapped to their backs, and they shot a continuous photographic

Apollo 16 Commander John Young examines a fragment of Sudbury breccia with J. Guy Bray (left), manager of geological research, Inco Toronto, and Don Phipps, senior research geologist, Copper Cliff. The shattered rock is evidence of a huge meteorite impact.



record with their specially designed electrically-driven still cameras which can make 180 color exposures without reloading. They used their regular instruments and procedures for gathering and bagging moon samples to take back to earth. And they remained in constant radio communication with "mission control", a base camp which was set up in the three areas where they carried out their explorations.

John Young occasionally injected some humor into the realism of his radio reports in the field. "Houston," he said as he regarded one particularly scenic view, "you're never going to believe this beautiful lake!"—a remark which, made in the course of an actual moon walk, would certainly cause astonishment back on earth.

The astronauts made their first traverse on July 7 in the territory south of Kelly Lake, where they learned to recognize Sudbury "breccia"—smashed rocks considered convincing evidence of a huge meteorite impact—and shatter cones, a peculiar conical form of fracture that occurs when rocks break under the force of a huge shock wave. Next day they went to the area near High Falls, on scenic Highway 144 en route to Levack, where they were shown more evidence of a cataclysmic explosion, including traces of glass formed from silicates in the melted rock. On their third and final traverse they visited the Creighton region, where they identified breccia and shatter cones within the granite formations. They gathered about 300 pounds of samples.

Ideal weather prevailed throughout the exercises.

Proposed in 1964

Acceptance of new theories explaining unique geological structures doesn't happen overnight, like the fashion world's whimsical switch from mini to maxi. Geologists are a cautious ilk, and take a lot of convincing. Nevertheless, although it was first advanced as recently as 1964, the theory of the origin of the Sudbury Basin (Triangle, February 1970 and February 1971) has already gained such credence that NASA

authorities had no hesitation in designating the site for an astronaut training project.

The Sudbury Basin as it appears today, a pleasant farming and residential area about 17 miles wide by 37 miles long, surrounded by the rocky hills of the nickel irruptive dotted with mining plants, almost certainly was once the root zone of a crater possibly 75 miles wide and five miles deep. The meteorite thought to have blasted this enormous hole in the earth's crust would probably have been two or three miles in diameter, have an impact 200,000 times as powerful as the Hiroshima bomb, and trigger processes in the earth's mantle forcing molten concentrations of nickel and copper sulphides up into the crust. The breccia, shatter cones, and other evidence of the explosion now readily seen would have been uncovered, along with the mineralized outcrops, by the natural forces of erosion during the two billion years since the gigantic impact.

The Sudbury Basin is believed to be the largest and most accessible meteor impact site on earth.

Made Fine Impression

Newsmen and photographers from local and national media swarmed to cover the big surprise story of the NASA expedition. The extremely personable and highly intelligent astronauts and their courteous colleagues made an excellent impression on all who were fortunate enough to have contact with them.

Inco Golf August 7

A capacity draw of 288 golfers and near golfers will take to the fairways and bunkers at Sudbury's Idylwyld for the annual Inco golf tournament on August 7. Shotgun starts are scheduled for 7:00 a.m. and 1:00 p.m. The draw is already filled.

The Beattie trophy will be awarded to the low gross team, and the Lambert and Godfrey trophies to the low net teams in the "A" and "B" sections.

In charge of the arrangements this year is a committee from the Industrial Relations Department, with Bert Meredith as chairman.



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INCO FAMILY ALBUM



First Humberstone Scout Troop should be top first-aiders. Their leader, Bert Dekker, is an expert at the splint-and-bandage art — in 1970, he captained the Port Colborne Nickel Refinery team into the finals for the Inco first aid championship. Bert joined Inco in 1965 and is a carpenter 2nd class in the Mechanical Department. His wife Joy is an accomplished swimmer — a former lifeguard and instructor. However she is now kept pretty busy at home looking after Gary, 2, Teddy, 6, Doug, 5, and Cindy 3.



Charlie Brash started with the Company in 1950 at Copper Cliff Smelter but since 1964 has been at Crean Hill Mine where he is a diesel loader-man on 500 level. Charlie is from Westport, Ontario, near Kingston, and his wife Irene comes from Smiths Falls. The Brash family is living in Whitefish where Charlie is close to good hunting, fishing and snow-mobiling country. Seated in front with their mother are Marcia-Anne, 9, Dianne, wife of Crean Hill Crusherman Fred Falconer, and Lauren, 7; in the back are Charlene, 14, Jamie, 15, Ben, 16, and Charlie himself.



Aurele Henri started with the Company in 1946 after a four-year stint in Europe with the Canadian Army. He works as a cottrell helper in the Copper Cliff Smelter's No. 3 cottrell. Both he and his wife, Rita grew up in Hanmer but Azilda is now home. Seated in front with Mother are Irene (Mrs. Gilles Berube), and Louise, 13. In the middle row are Yvon, 4, Denise, 10, Juliette, 16, and Gisele, 11. Standing with Dad are Paul and Laurent, both drillers at Levack Mine, and Marcel, who works as a maintenance mechanic 2nd class at Murray Mine. Aurele and Rita enjoy gardening and card playing, and in winter are now snowmobile fans.



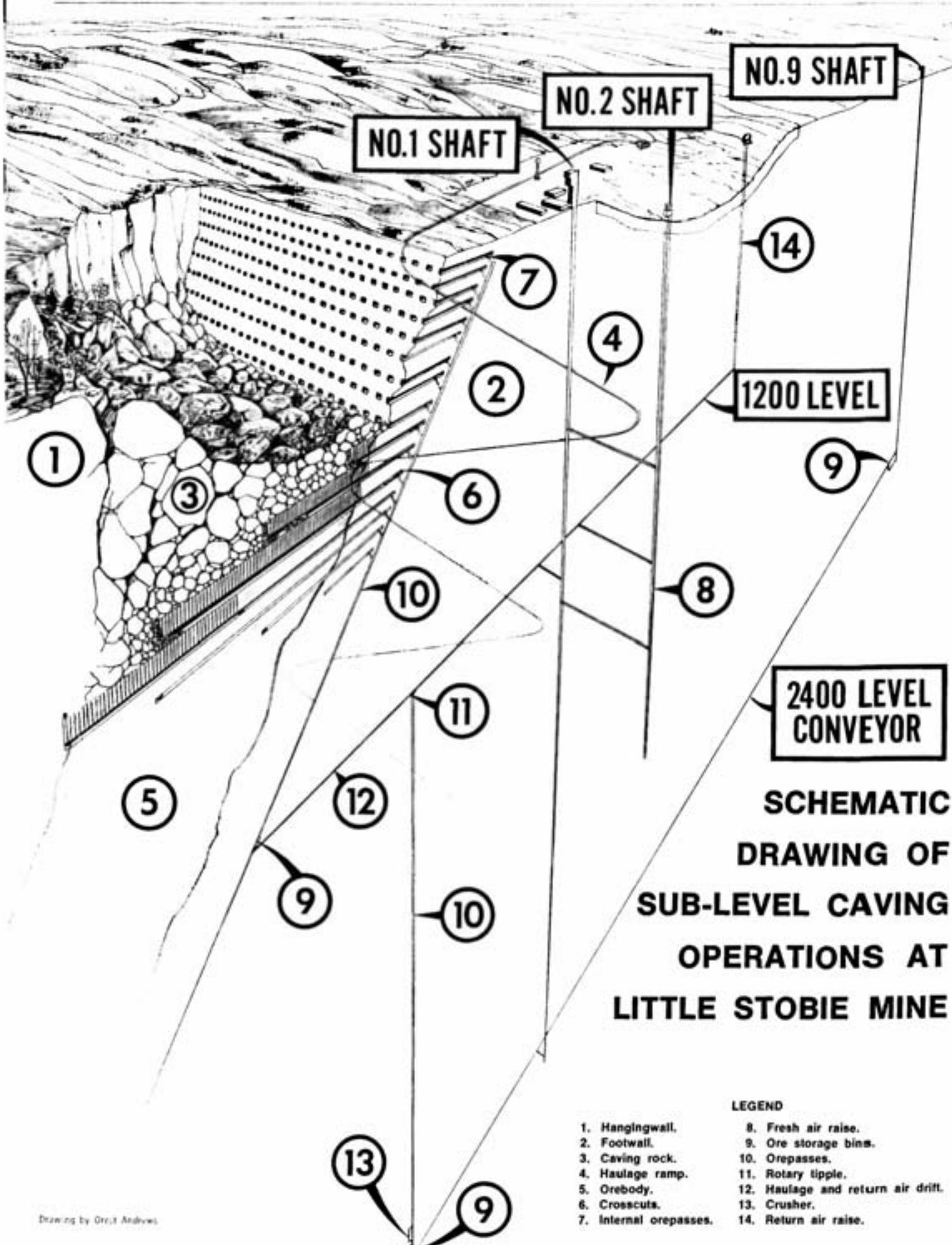
Machinery, light and heavy, is important to the Garnet Gould family of Hanmer — on the job the head of the household is a bulldozer operator at the Clarabelle Open Pit, and a good amount of his spare time is spent in his small custom repair shop at home. Garnet is originally from Pembroke and started with the Company at Froid in 1952; his wife Violet's home town was Foleyet. Their children are Ann (Mrs. Dan Richer), Gordon, 16, and Wallace, 9. Mrs. Gould enjoys knitting and sewing, and Garnet gets a big kick out of deer and moose hunting.



Keith Ferris is a maintenance mechanic 2nd class on the 4800 level of Creighton's No. 5 Mine. He joined the Company in 1947 after working two winters doing bushwork in his home town area of Parry Sound. The family's completely outfitted truck camper has taken them from their lively home to both Canadian coasts, while two snowmobiles keep them on the move in the winter months. Left to right are Marilyn, 16, Susan, 18, Keith and his wife Dorothy, and Jimmie, 11. Keith has three brothers working at Inco, all at Creighton: Mel is a garage mechanic 1st class and John is a shaft hoistman while Lloyd is a shaft inspector.



Froid Mine Powderman Sylvio Mallet hails from New Brunswick as does his wife, Fernande. Sylvio started with Inco at Levack in 1957, transferring to Froid in 1959. Their children are Michel, 13, Paulette, 11, and Rachelle, who is just two months old. The Mallets live in Val Caron where Sylvio has contributed to community service as president of the Valley East Minor Hockey League for the past three years. The family likes to go fishing with Dad.



**SCHEMATIC
DRAWING OF
SUB-LEVEL CAVING
OPERATIONS AT
LITTLE STOBIE MINE**

LEGEND

- | | |
|------------------------|-----------------------------------|
| 1. Hangingwall. | 8. Fresh air raise. |
| 2. Footwall. | 9. Ore storage bins. |
| 3. Caving rock. | 10. Orepasses. |
| 4. Haulage ramp. | 11. Rotary tippie. |
| 5. Orebody. | 12. Haulage and return air drift. |
| 6. Crosscuts. | 13. Crusher. |
| 7. Internal orepasses. | 14. Return air raise. |

Little Stobie Has Unique Features

Little Stobie Mine came into production this month with the distinction of being International Nickel's first mine to have an access and service ramp planned as an integral part of its underground system. Ramps at many established Inco mines have been added following a Company swing to mechanized equipment in 1966.

Boosting the Ontario Division's total of producing mines to a round dozen, Little Stobie has a daily rated capacity of 8,000 tons of ore and, when in full production, will employ some 420 personnel.

Long Ride Underground

The new facility differs from other Inco mines in another major respect. Ore is not hoisted to surface at Little Stobie. Instead, it is transported underground by a 4,676-foot 42-inch belt conveyor on the 2400 level of the mine to Frood-Stobie 9 shaft, where huge 20-ton skips bring it to surface and dump it directly into the Frood-Stobie mill storage bins.

About one mile north of the Frood-Stobie Mill, the new mine carries the same name as an enterprise that was started on the same site by the Mond Nickel Company in 1902, some seven years after prospector James Stobie discovered mineralization outcroppings there in 1885. Records show that 1,584 tons of ore were mined from the three shallow pits that can still be seen adjacent to the new mine.

Sinking of two shafts at Little Stobie started during early summer of 1966. The No. 1 shaft, which is used solely for servicing the mine and for rock hoisting, was bottomed at 2,650 feet in December of 1967. Installed at the top of the shaft's 185-foot concrete headframe, a four rope friction hoist operates a double-deck cage and a 12-ton bottom dump skip. Powered by a 900-hp motor, it has a hoisting speed of 1,500 feet per minute.

The No. 2 shaft, which was used for mine development, bot-

tommed at 1,994 feet in April of 1967. This shaft is now being converted into a fresh air raise. The mine ventilation system is designed to supply 627,000 cubic feet of fresh air per minute.

Sub-Level Caving Used

The two separate ore bodies at Little Stobie will be mined by sub-level caving. A bulk mining method, sub-level caving (Triangle, February, 1969) can be described briefly as a method of mining an ore body from a system

(Continued on Page 6)



Nearly a mile long, this 42-inch roof-suspended conveyor is located on the 2400 level and carries ore from Little Stobie Mine to Frood-Stobie No. 9 shaft. With a belt speed of 481 feet per minute, it can deliver 1,000 tons of muck per hour. It is powered by a 250-h.p. motor. The endless belt has a total length of 9,400 feet, weighs 1,034 tons, and carried a price tag of close to \$200,000.



Entering the mine portal and heading down the ramp, this husky load-haul-dump machine is carrying a 7-ton load of crushed rock that will be used for road bed. Driven at an incline of 20%, the ramp is 16 feet wide and 12 feet high. Now down to the 600 level, the winding road is 3,250 feet long.

Efficiently grouped around the base of the concrete headframe, Little Stobie's surface plant buildings contain administrative and engineering offices, changehouse with facilities for 452 men, collarhouse and warm room. A warehouse and maintenance shop are on the left, a compressor house on the right. Its shape identifying the mine from the many others in the district, the streamlined water tower holds 100,000 gallons.





Each of these huts houses the upper ends of six stainless steel wires. The lower ends of the wires are anchored in the hangingwall close to the Little Stobie orebody on the 100-, 150-, and 200-foot levels. A ground control system, they monitor rock movement during the preliminary stages of sub-level caving. Using extensometers to measure changing strains in the wires, engineers are able to plan precisely controlled caving of the hangingwall rock.

Little Stobie Has

(Continued from Page 5)

of sub-levels, in a series of vertical slices, and removing the broken ore with the assistance of controlled caving of the hanging-wall rock.

In preparation for utilizing this method, the top portion of the upper orebody is now being mined by sub-level stoping. During this preliminary stage, pillars of ore are being left to support the hangingwall. At a carefully calculated depth these pillars will be blasted and the hangingwall will cave in a precisely controlled manner.

Once this controlled caving is established, regular mining operations will commence in which, on each sub-level, ore is removed from a series of crosscuts spaced at 40-foot intervals. Fan drill rigs drill off the overhead ore in 5-foot slices and, after blasting, load-haul-dump machines remove the muck. The caved hanging-wall rock follows down by gravity to fill the opening. The machines haul the muck to a system of ore passes leading to the 1200 level.

On the 1200 level the ore is loaded into 260-cubic-foot tippie cars and trammed by electric locomotive to a rotary tippie. The ore drops down to a 48-inch by 66-inch crusher located below the 2200 level.

Automatic Skip-Loading

Crushed ore falls into a 3,500-ton storage bin discharging onto a 60-inch picking belt which feeds the nearly mile-long conveyor across to a 6,500-ton storage bin at Frood-Stobie No. 9 shaft. The skip-loading equipment there can be operated automatically or manually.

Since development work started at Little Stobie, over 12 miles of drifts have been driven, and more than one million tons of rock has been broken and brought to surface where it is used for yard fill.



On the 50 level while on an inspection tour, Mine Engineer Don McLeod and Little Stobie Mine Superintendent Sam Pataran are seen with Survey Assistant Gerry MacIsaac and Layout Engineer Charlie Pitts. The survey instrument was being used to install lines for ring drilling.



This is the control centre that handles loading of the two skips operating in Frood-Stobie No. 9 shaft. A fully automatic system, it can be switched to manual operation if required. Pressure-sensitive electric load cells control the flow of ore to the station's two 400-cu.-ft. measuring boxes which dump into the skips. Skip tender Lorne Palmer is seen checking the hoisting schedule with the hoistman.



In the collarhouse at Frood-Stobie No. 9 shaft, this is one of the 20-ton bottom dump skips, largest in the Ontario Division, in which Little Stobie Mine ore is hoisted to the Frood-Stobie Mill storage bins. Operated by a 4,200-h.p. 4-rope friction hoist, the skip travels at 3,000 feet per minute. Dwarfed beside the huge conveyance are Riggers Frank Kuznik, Moses Roy, Tony Pinard and Gerry Vincent.

Nickel in Coinage

Since 1881, 63 countries have used pure nickel for 159 denominations of coins in 237 types.

A typical group of tourists, including 22 members of the Evergreen Club from Vancouver, see for themselves that grass can be made to grow in the barren sand at the Tailings Farm. In the background is one of the two Inco buses used on the plant tour.



Expect 6,000 Visitors on Plant Tours

Tours of Inco at Copper Cliff, run twice daily except on weekends, have long been one of the Nickel District's most popular tourist attractions and this summer more than 6,000 people from all over the world are expected. Last year 5,700 visitors were registered.

Since May the tours have been the responsibility of the Public Affairs Department, and have been extended so the public can see more of the Company's operations. Nine local university students, including girls for the first time, are acting as guides for the summer. The girls wear an attractive uniform consisting of a light blue suit and contrasting blouse, and the young men sport light blue blazers. Headquarters for the guides and greeting centre for the tourists is the big foyer at the curling rink. Two guides remain there to answer enquiries. Tours leave there at 10:00 a.m. and 1:30 p.m.

Until this year, the tourists visited only the smelter where they saw matte and slag being tapped from the reverberatory furnaces and matte being treated in the converters. Now the casting building, where they can see the 25-ton moulds of bessemer matte being slowly cooled, the Clarabelle Open Pit, and the Tailings Farm have been added to the tour.

On the extended tour the visitors travel by special bus. Over the intercom, the guides in their "spiel" point out various features

of special interest, such as other plant operations, recreational facilities, the park with its trees and floral displays, and original log cabins on Clarabelle Road which were the homes of Copper Cliff pioneers.

Interest in Pollution Control

The most frequent question they're asked is about pollution, the guides say. They answer by explaining that the new 1,250-foot superstack, with its extensive flue system and additional dust collection units, will result in vastly improved environmental control. They also compare the early outdoor heap roasting to modern smelting methods, and describe the progress in dust prevention made on the Tailings Farm with its 700 acres of grains and grass. The guides say that many tourists are surprised to learn that International Nickel recovers 14 other elements besides nickel from its orebodies.

What brings the visitors in? Some come on the suggestion of the Sudbury Chamber of Commerce office, others see the stacks from the highway and just drive in to investigate, but most have read of Inco's operations and planned to see them. Usually the organized groups write or call the Public Affairs Department in advance to schedule tours.

Educational Attraction

Classes of school children make



The smartly dressed Inco tour guides prepare some of the material for the next group of visitors, including safety hats and glasses, and copies of descriptive booklets, "The Land Above The Ore Below", and "Man and Nickel". Shown above are, front, Paul Beauchamp, Karen Penman, Cleason Martin, assistant community relations officer, and Mary Springer; back, Pat O'Grady, Helle Iives, Judy Frey, Darlene Klein, Bob Annis, and Jim Somers.

up the bulk of the groups in May or early June. When school is out the tourists begin, over half of them Americans from all states in the Union. Overseas interest in the free world's largest nickel mining and smelting complex annually brings in individuals from many countries of the world, including for instance such groups as agricultural students from England, and exchange students from Finland.

Some who will be guests of Inco on the tour this summer include groups of high school and university teachers, local tourist guides, journalists, lodge members, and convention delegates.

Appointments

The following appointments have been announced in the Ontario Division:

R. M. Brown, assistant to the general manager.

S. J. Sheehan, assistant to the manager of mines;

W. D. Collis, area superintendent, Froot-Stobie and Little Stobie Mines;

K. Henderson, area superintendent, Crean Hill and Totten Mines;

J. Murray, mine superintendent, Stobie Mine;

S. Pataran, mine superintendent, Little Stobie Mine;

F. J. Kelly, mine superintendent, Crean Hill Mine;

P. Parker, underground superintendent, Creighton No. 5 and No. 9 Mines.



One of the many large groups scheduling a tour at Inco were delegates to the first Sudbury convention of the Ontario Division of the Canadian Red Cross Volunteer Corps. They were photographed at Clarabelle Open Pit with Ken Fyall, community relations officer of the Public Affairs Department, and Stan Dobson, Open Pit superintendent. Second from left is Miss Celie St. Amand, chairman of the Sudbury Corps.



Mrs. Erna Jussila, whose husband Toivo is a maintenance foreman at Garson Mine.

Mrs. June Fletcher, whose husband Ken is a maintenance zone planner at the Iron Ore Plant.



Mrs. Carmella Scinto, the wife of Tony Scinto, moulder 1st class at the Copper Refinery.

Mrs. Marie Young, Copper Cliff, is the wife of Mel Young, manager of mines, Ontario Division.



Wives Shared in Big Event

"Roses are my favorite. It was a beautiful thought and I really appreciate them". . . .

"I think this is a very lovely gesture on the part of the Company. I particularly enjoyed Mr. McCreedy's letter". . . .

"I'm proud of my husband's 25 years of service. These roses celebrate an important event in our family". . . .

"I have always thought it's such a nice thing to remember the wives as well as honoring the men."

These were some of the sentiments expressed by the delighted wives of new members of the Quarter Century Club when a dozen red roses were delivered to them along with a letter of appreciation from Vice-President John McCreedy prior to the annual banquet at which their husbands were presented with Inco's gold 25-year badges.

"In honoring your husband we will be mindful of the important part you have played in establishing his fine record through your help, interest, and understanding over the years," Mr. McCreedy said in his letter to "the other half of the team".



Mrs. Irene Graham is the wife of Art Graham, chemist at the Coniston Smelter.



Mrs. Nellie Stelmakowich's husband "Lefty" is a maintenance electrician 1st class at Levack Mine.

Mrs. Dolores Charbonneau is the wife of Omer Charbonneau, hoistman at Creighton No. 5 Mine.



Mrs. Gwen Ross's husband Pete is a maintenance electrician 1st class at Stobie Mine.



Mrs. Nora Garrioch's husband Francis is a maintenance mechanic 2nd class at the Iron Ore Plant.

Mrs. Rose Schitka's husband Konnie is a senior process assistant, Process Technology, Copper Cliff.





New Quarter Century Club member Ken MacKinnon of the Iron Ore Plant is congratulated by Vice-President and Divisional General Manager John McCreedy. (Centre) Cecil Dennie of Copper Cliff Reduction Plants

receives his gold badge from Senior Executive Vice-President James C. Parlee. Another new member, Levack Mine's Ed Shalla is greeted by Mr. McCreedy during induction of 123 men to the Copper Cliff QCC.

2,000 Had Great Time at Annual QCC Gathering

It was a sultry evening outdoors, but inside the Sudbury Arena the atmosphere was alive with fellowship, good humor, and memories of shared experiences at the 22nd annual meeting of the Copper Cliff chapter of the Inco Quarter Century Club on June 17.

A gathering of 2,000, representing all phases of the Company's activities in the Sudbury District, stood to applaud the 123 new members who had qualified by completing 25 years of service during the past year.

The "Class of 1971" were personally congratulated by James C. Parlee, senior executive vice-president, and John McCreedy, vice-president and Ontario Division general manager, who presented them with their gold membership badges. As they came forward the new members were introduced by the managers of the operations in which they work, M. E. Young (Mines), J. B. McConnell (Reduction Plants), E. G. Stoneman (Iron Ore Recovery), and G. A. Dick (Copper Refining).

Among the head table guests taking keen interest in the presentations was Vice-President Jack Pigott of Toronto.

In his address later Mr. Parlee, who started his career with the Company in 1933 as a miner at Frood, said that he felt especially

close to the Copper Cliff chapter, having worked with so many of its long-service members in the mining, milling and smelting operations. He noted that there were now 4,018 on its roll, of whom 2,657 were still active employees. "These experienced and dedicated people," he said, "are the backbone of the Company's operations here."

Pensioners Acclaimed

In a toast to the 1,361 pensioners of the Sudbury District operations, Robert Saddington, assistant to the divisional general manager, declared "This program would be far from complete without acknowledgment of the lasting contribution made to the progress and development of our Company by its employees of earlier days. We are happy to have a large number of them here tonight. I hope they are enjoying this annual reunion with old friends and workmates, and that they still feel they are very much a part of Inco.

"Many pensioners would hardly recognize some of the working areas they knew so well in their working years. We have come a long way, but in the midst of modernization we have not lost sight of the part they played in their time. We have lasting admiration for what they accomplished, for their long and loyal service, and for the contribution they, their wives and families have made through their citizenship in the community."

Alton Browne, recently retired 35-year veteran, spoke in reply to Mr. Saddington's toast. He thanked the Company especially

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FACING THE REALITIES



James C. Parlee

In a frank survey of the outlook for Inco in the highly competitive world nickel industry, James C. Parlee in his address to the Quarter Century Club put strong emphasis on the importance of the human element. The senior executive vice-president pulled no punches in describing the increasing challenge to the future level and scale of nickel mining in the Sudbury District. "To a significant degree," he said, "all who work here can and will control that level and scale."

Sales and deliveries of nickel fell off in the last quarter of 1970, Mr. Parlee noted at the outset of his remarks. The decline continued in the first quarter of this year and shows no signs of improvement at this time, he said. "While deliveries and thus revenues have declined, costs of all types continue to rise — employment costs and service and supply costs, plus increased interest costs on the additional amounts of money we have borrowed to finance our Canadian construction program.

"Although we have, as you know, nearly eliminated overtime, production is outstripping deliveries, and thus inventories are on the increase.

Long-Term Faith

"However, our long-term faith in the nickel market continues, and thus, unless conditions deteriorate quickly, or fail to pick up in a reasonable time, we do not expect to be forced to resort to production curtailment programs, with consequent work reduction and lay-offs — nor do we expect to sacrifice essential portions of our large construction program — although some projects may be cancelled and others have to be stretched out or postponed.

"But we are going to be forced to look very, very hard at costs — costs of all types — in our day-to-day operations, as well as in our construction programs.

"Meanwhile, long-term trends

affecting all of us continue. The most significant of these is the continued development of ore bodies outside of Canada.

The New Challenge

"Sudbury Basin nickel has always had to meet the competition of other metals and other materials," Mr. Parlee said. It had been the success of nickel stainless steel, of high nickel alloys and of nickel-plating in everything from spacecraft to frying pans, that provided the investment, growth and jobs here. "But today," he warned, "Sudbury is facing a new form of competition — not from aluminum or plastics or other materials, but from potentially very significant ore bodies outside of Canada."

For example, he said, last month 9,000 miles from here in Noumea, New Caledonia, the French company, Le Nickel and its partner, the Kaiser Company, opened increased production facilities using New Caledonia's almost limitless oxide and silicate ores. Later this year, Falconbridge will start deliveries of ferronickel from its lateritic ore property in the Dominican Republic.

This is but the beginning, he said. In the years ahead, Inco and its competitors will increase nickel production from the lateritic ores. "And competition it is," Mr. Parlee stressed, "for while laterites involve complex

(Continued on Page 12)



Robert Saddington (left) led a standing ovation for Inco's pensioners, and Alton Browne replied to the toast. Richard Dow (right), was chairman of the banquet.



With the Triangle Came
**At the 22nd Ann
Quarter Centur
Club Banquet**
Sudbury Arena, June 1

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FACING THE REALITIES

(Continued from Page 9)

processing, mining costs are low and exploration costs to maintain ore reserves are relatively minor — thus overall production costs are comparable with the new lower grade sulphide deposits we are increasingly having to utilize.

What It Will Take

"What does this mean for the Sudbury area and for all of us?" he asked. "It means we must meet this new form of competition. We must not price our ore bodies here out of the market. To do so we must control costs of all types, and we must develop and use new technology and new methods. Productivity must increase, production costs must not be burdened with taxation, or with anti-pollution or other costs to the degree that some of the Sudbury ores are made no longer competitive."

In no way did he wish to imply, Mr. Parlee said, that there is a sudden threat to this area. "Nickel mining is going to go on in the Sudbury Basin as far as one is capable of projecting. But it would be equally unwise for any of us to assume, as was once assumed, that the Sudbury ores have no competition. Those days are over. The competition is here and is increasing. The future level and scale of nickel mining in the Sudbury district is under challenge. To a significant degree, all who work here can and will control that level and scale.

People Deeply Involved

"One of the most important elements of success in the competitive struggle will be the human element — the human performance. This covers a whole spectrum of factors: safety, working conditions, job training, pride in a job well done, relationships and co-ordination between men working side by side, and last, but certainly not least, the proper relationships between Company and Union.

"The record as respects this last factor has not been good — two successive long strikes — costly to all. While the right to strike is an essential part of free labor negotiations, the habit of a strike with each negotiation is not at all an essential. It's a habit that none of us can afford, and it works strongly against the development of the Sudbury ores. It means that customers unable to count on a reliable supply of nickel in some cases turn to other metals or other producers. This hurts our competitive position and works severe hardship and monetary loss to employees, and to the Company's resources available for development and expansion programs. Both the Company and the Union must find ways and

means to settle differences at the bargaining table without strikes. We must both examine positions so as to avoid getting ourselves into rigid boxes we cannot get out of. We must be willing to be flexible, to examine new approaches — to evolve new solutions.

Encouraging Progress

"In this regard I am becoming encouraged. I see real signs of progress. The periodic meetings that have occurred between union and management between contract negotiations are, I believe, a step forward; the more rapid resolution of problems and grievances that have occurred are a good sign. The general and strong effort by both Company and Union to work together — without either one giving up proper responsibilities — is most encouraging.

"The whole effort has, I believe, been well received — it has been noticed and commented upon in the press and by various government bodies," Mr. Parlee declared.

"This is what encourages me about the capacity of the Sudbury area to compete with new ore bodies that are being developed outside of Canada. For more than six decades, this area has been the world's largest single source of nickel. Despite the current temporary slowdown, and remember these have occurred before and will occur again, the world needs nickel.

Foresee Steady Rise

"Over the long pull, nickel consumption is expected to increase at a rate of seven per cent annually. Production in the Sudbury area, if we all have the will to be highly efficient, is capable of continuing to rise — despite the lower grades of ore — and of reaching the Company's goal of an annual production capacity in Canada of some 600 million pounds, the lion's share of it here in the Sudbury district.

"It is up to the long-term employees of Inco — the people who represent the experience and know-how — to set the tone and lay the foundations for improved human relations in our Company so that the human element in Inco is a proud and healthy one," Mr. Parlee said in conclusion. "If we of the Quarter Century Club work and act with this in mind, we will be making a lasting contribution to the Company and to the prosperity of those who live and work in the Sudbury area."

"It is always a pleasure to be with you," he added on a personal note. "Thanks for all you have done for Inco — and for all you are going to do in the future."



Two real old-timers of Inco were snapped by the Triangle as they chatted at the Quarter Century Club banquet. Centre is Charlie Heale, a Copper Cliff Smelter pensioner since 1944, who is in his 92nd year, talking with Bob Pascoe, Creighton Mine pensioner since 1955, in his 81st year. On the left is Charlie's son Ron, chief accountant, sales tax, at the Copper Cliff offices.

2,000 Had a Great Time

(Continued from Page 9)

ally for paying 100% of the fringe benefits enjoyed by the pensioners, and had a pat on the back for "the people responsible for making up and mailing our monthly cheques on time — this has taken some doing in times of stress". He expressed appreciation of the Inco retirement system, and with a puckish sense of humor concluded with a quote from an Irishman's letter to a nephew in Toronto: "God bless ... and keep the money coming."

In introducing Mr. Parlee as the speaker of the evening, Vice-President John McCreedy referred briefly to the current decline in the demand for nickel, and the consequent necessity "that we reach our objectives with the greatest attainable efficiency and with a close eye on costs". Inco's strength and resources, he said, were dependent on the quality and performance of its people, "and none of these people are more important, more essential to our success, than those of you gathered here tonight. As your general manager, I simply want to say that I count on each one of you personally to use your long experience, your knowledge and your energy to see us through this period in the Company's history."

Joyce Perras sang O Canada to start the program, accompanied by Mrs. Mary Crozier. A Moment of Remembrance was observed for deceased members of the club.

Longest Service

The invocation was pronounced by Alex Godfrey, assistant to the divisional general manager, who was given an ovation when it was announced that on June 14 he completed 51 years with the Company, the longest individual continuous service among Inco's present 37,300 employees in 20 countries of the world.

Richard Dow, executive administrative assistant, and long-

time secretary of the Quarter Century Club, was chairman. Along with John Thompson and Jack van Delden of Special Projects, he organized the highly enjoyable evening's entertainment. J. C. Bischoff, well-known Copper Refinery pensioner, was back at his old job of assisting in the presentation of gold badges to the new members.

The women's associations of St. Andrew's and St. Paul's United Churches and their platoon of helpers came up with their usual highly efficient performance in serving the fried chicken dinner to the huge crowd.

High-Class Stage Show

Some of the most spectacular acts ever seen at a Quarter Century Club meeting were included in the 1½-hour stage presentation by Paul Simmons, Toronto producer. Headlining the show were the Almiros Trio, who dazzled the audience with their fantastic juggling feats and worked some refreshing comedy into their finale which resulted in almost the whole stage being ringed with spinning plates atop 7-foot poles. Limbo dancer Peggy Jackson kept her cool as she slipped under a flaming bar only inches above the stage floor. The other acts were Canada's own Trampchamps, who showed their championship style on the trampoline, the Williams Brothers, whose casual air and dead-pan expressions belied their tumbling skill and incredible balancing stunts, and Florence Hansen and Edith Eaton, the charming violin-accordion duo, who played many of the audience's old favorites and were rousing encored. Emcee of the fast-paced show was Montreal comedian Dave Broadfoot, who did uncanny imitations of Lester Pearson talking to the prime minister and of Foster Hewitt announcing his three-star selection to a hockey-night audience. A snappy 3-piece combo played for the performers.

420 Players In Sudbury's Soccer Boom

With 420 players registered in two amateur leagues, organized soccer is booming in the Nickel Capital, and soccer fans have the opportunity to watch more games than ever before. Over 150 matches will be staged by local players ranging from the pint-size "atoms" in the minor league to senior amateurs of near-professional calibre.

The six teams in the Sudbury Soccer Association play high-grade senior amateur soccer. Sudbury United, Cleanol Hawks, Polish White Eagles, Croatia Adria and Tridents are well-established clubs, joined this year by Davedi Garlands from North Bay.

Sports fans can take in the action at Queen's Athletic Field, where game time is 7:00 p.m. on Wednesdays, Saturdays and Sundays. Each of the teams will play 10 games before the schedule ends in August, followed by the playoffs.

The league's first-place finishers win the Anderson Cup, the Centennial Cup goes to the playoff victors, while the Charity Cup is the prize in the annual charity game during the Labor Day weekend.

Executive members of the association are: Frank Musico, president, Angus MacDonald, vice-president, George MacDonald, secretary, Julius Dubis, treasurer, and John Young, director. Greg Pierce is the league statistician and John Ward is the chairman of the local referee organization.

300 Youngsters Involved

Sudbury and District Minor Soccer Association grew from 14 teams last year to 18 this year. Over 300 youngsters are involved in this league's five divisions: atom (under 10), mosquito (12 and under), pee-wee (14 and under), bantam (16 and under), and Junior B (18 and under).

Five teams are battling it out in the atom division: coach Duncan Storie's Falcons, Tony Monohan's Elks, Chris Smith's De-



Sudbury United goalkeeper Mike Delebasic hustles to stop a strong attack by Cleanol Hawks.

Marcos, Don Murray's Chelmsford Voyageurs and Steve Ross's Alouettes.

The Mosquito division's five teams are Falcons, Barrydowne, Metallos, Caruso Club and Chelmsford Beavers, coached by John Mior, Doug Hill, Charlie Weiler, Bruno Malvoso and John Babos respectively.

The pee-wees are another five-team division coached by Charlie Radu, Doug Hill, Paul Hollock, Pete Sevarino and Jim MacPherson; their teams are Falcons, Barrydowne, Steelworkers, Lockerby Kiwanis and Elks.

The bantam and Junior B division teams, Sudbury City and Cleanol Hawks "B", coached by Carmello Gigliotti and Jack Anselmo, play exhibition games only because they are orphans in their divisions.

The minor season opened June 2, and 104 games will be played before the playoffs start in September. The champions in each division will receive trophies donated by International Nickel, while the playoff champions get trophies given by Falconbridge Nickel.

The minor league's executive is: George MacDonald, president; Pat Thompson, vice president, Peter Venus, secretary, and Doug Chapman, treasurer. Directors are John Cirillo, in charge of referees, Tom Conaty, games convenor, and Ron Lant, in charge of player registrations.

Help Badly Needed

George MacDonald said that the minor league would have had

more teams this year but for the difficulty of recruiting enough people to run them. Instruction clinics in coaching and refereeing are being tried in an effort to solve the manpower problem. Mr. MacDonald said both leagues are particularly interested in getting help from former players or fans with good soccer knowledge. "We



Sudbury's amateur teams play a hard-driving brand of soccer.

need lots of help from soccer-minded people," he said, "because it's getting to the point where we have to stop registering players unless more referees and coaches come forward." Volunteers should contact Mr. MacDonald at 674-2913.

Excellent co-operation has been received from the Sudbury Board of Education in making some playing fields available for the soccer boom.

Big League Games Too

Sudbury is again represented in Canada's only semi-professional

soccer league. Sudbury City plays in a 14-club circuit with teams from Toronto, Hamilton, Niagara Peninsula, London, Ottawa and Quebec City. Previously known as Sudbury Italia, the local team was inactive last year and many of its players temporarily swelled the ranks of the senior amateur clubs. Under new ownership, the team's name was changed when it rejoined the National Soccer League this year. It's a highly polished brand of soccer which is proving very popular with fans who are turning out in large numbers for the Saturday evening games at Queen's Athletic Field.

Killarney Park is Named a 'Primitive'

Killarney Provincial Park, 60 miles south of Sudbury on Georgian Bay, has been designated as Ontario's second primitive park. Premier William Davis announced.

Ontario's only other primitive park is Polar Bear Provincial Park, a 9,300-square-mile wilderness on the shores of Hudson and James Bays.

A primitive designation means an area is left in its natural state. Buildings, roads, campgrounds, motor-boats and snowmobiles are prohibited.

Mr. Davis said Killarney's 140 square miles of wilderness was chosen as a primitive area because it is within "reasonable driving range" of major population areas.

The park is in the central core of the La Cloche range, a series of white quartzite hills popularly known as the Killarney Mountains.

Existing buildings and leases on park land will be phased out. A timber agreement was cancelled recently and the company moved elsewhere. Timber roads into the park will be blocked. Trap-lines are also being removed.

To drive a nail without hitting your thumb, hold the hammer with both hands.



Smallest and youngest in the league, these atom-division players scramble for possession of the ball.

Frood-Stobie Team Best in Ontario Mine Rescue Test

For the second year in succession an Inco team has captured the Ontario mine rescue championship, in competition with 36 other teams from six mining areas of the province. The Frood-Stobie squad, captained by Joe Shlemkevich with Nelson Allen as briefing officer, convincingly demonstrated its superiority in a thorough and tricky test of mine rescue work. Other members of the victorious lineup were Barry Deacon (vice-captain), Dave Bruce, Carl Moore, Dick Lampman and Ed Johnston.

Presentation of the impressive provincial championship trophy was made to the Frood-Stobie team at a special luncheon by Harold Davis, director of mines inspection, Ontario. John McCreedy, Inco vice-president and divisional general manager, presented each member with an inscribed wood sculpture of a fully-equipped mine rescue man carved by Charles Paxy. Each member also received an engraved memento from Mine Safety Appliance Company, donors of the trophy.

Announcement of the competition result was made in the Legislature by Honorable Leo Bernier, minister of mines and northern affairs.

Garson Mine, captained by Denis Lepage, won the title in 1970.

Frood-Stobie hit the champion-

ship trail this year for the first time when it won the John McCreedy trophy, emblematic of mine rescue laurels in Inco's Ontario Division. Five other teams were entered in this annual competition which, as with the Inco first aid contests, always sparks keen rivalry.

Other Inco Teams

Along with Frood-Stobie the squads vying in the McCreedy event were **Creighton Mine:** Phil Fournier (captain), Royce Simpson (vice-captain), Bill Horner, Al Simpson, Leo Seguin, Gerry Buchanan, and Pat Boyle (briefing officer); **Levack Mine:** Fred Mooney (captain), Bob Parker (vice-captain), John Schneider, Don Knight, Bob Nerpin, Pat Arthurs and Andy Wisniewski (briefing officer); **Garson Mine:** Placide Dubois (captain), Gerry Cluke (vice-captain), Jack Laking, Bill Glogger, Bert Taylor, Sid Penney and Denis Lepage (briefing officer); **Murray Mine:** Ron Baudette (captain), Len Hirvela (vice-captain), Leo Madore, Bob Croteau, Harold Brooks, Jorma Heikkila and Gerry Joliat (briefing officer); **Crean Hill Mine** (making its debut in the competition): Ron Lawlor (captain), Leo Beaudoin (vice-captain), Alex Zelinski, Hugh Currie, Leo Renaud, Morley Gauthier, and Howard White (briefing officer).

Scene of the Inco competition this year was the Falconbridge

Chief of the provincial mines inspection branch, Harold Davis (left) turned over the Ontario mine rescue championship trophy to Joe Shlemkevich (centre), captain of the Frood-Stobie team. Inco Vice-President John McCreedy presented an individual memento to each man on the Frood-Stobie squad.



Arena, which became the 800 level of the "Hank-Len-Jock" Mine, with burlap being used to simulate the walls of the drifts and crosscuts in the problem area.

Underground Explosion

A telephone report had been received from the 800 level lunchroom from a diamond driller who said he and his partner had felt dizzy as they approached their designated work area; his partner had remained temporarily in the area. He said a terrific explosion had since occurred somewhere on their level.

When the mine rescue team arrived, all the mine's personnel had been brought safely to surface except the two drillers. Cause of the explosion was suspected to be methane gas — an extremely rare occurrence in metal mining — seeping from old drill holes and collecting in a section of the level due to a weekend shutdown of ventilation fans for repairs.

Entering the mine, the rescue team wore their self-contained oxygen breathing apparatus and carried a gas detector. Their only light was from their hat lamps. They gave first aid treatment to the driller in the lunchroom and then investigated. They found that two fires had been started by the explosion, one burning out of control. After removing the driller who was killed by the blast, they first had to restore the flow of ventilation — short-circuited by the blast — in such a way that remaining gas was no further threat. They then had to extinguish the smaller fire, build brattices to seal off the fire out of control, and then establish ventilation throughout the level.

The dazed driller could not be moved from the lunchroom to surface before the level was fully ventilated because he was wearing a full beard which prevented fitting him with a breathing apparatus.

Chief judge of the all-day competition was Len Groom of the Department of Mines, who set the test problem. He was assisted by



During suiting-up the mine rescue team captain checks out each man's equipment, especially his oxygen breathing apparatus.

Hank Derks, Inco safety assistant (mines) and Jock Thom, Falconbridge safety supervisor, who also acted as field judges. Inco supervisory mine rescue personnel also gave a hand in briefing the teams and conducting oral tests.

Honored at Banquet

The six Inco teams were wined and dined at Cassio's Venetian Room in the evening. The McCreedy trophy was presented to the Frood-Stobie team by G. R. Green, assistant general manager (mining). Chairman at the banquet was John Rickaby, superintendent of safety (mines), who introduced Inco, Department of Mines, and other officials at the head table.

Mr. Green and M. E. Young, manager of mines, both heartily congratulated the winning team as well as all others in the competition. The mine rescue men were praised for their dedication to their work, and for their high proficiency.

Mr. Young made a special presentation to Ed Johnston of the Frood-Stobie team, honoring his 23 years' participation in mine rescue work, a distinctive record.



Taken following presentation of the John McCreedy trophy to the boys from Frood-Stobie. 1971 Inco Ontario Division mine rescue champions, this picture shows: front row, Barry Deacon, Carl Moore and Dave Bruce; standing in centre with trophy, Team Captain Joe Shlemkevich and Frood-Stobie Area Superintendent Bill Collis; the back row, G. R. Green, assistant general manager (mines), Ed Johnston, Hank Derks, competition field judge, Stan Snider, Frood-Stobie safety supervisor, Nelson Allen, briefing officer and Richard Lampman.



Young Ukrainian, Indian and Italian dancers entertained at the Folk Arts concert. The celebrated Folklorists danced at Bell Park.

Crowned Miss Sudbury during the Festival was Jo-Anne Proulx, shown here between her two princesses, contest runners-up Barbara Blakely and Madelaine Gorzynski. A total of 30 young ladies entered the competition.



Multicultural Festival Hails Canada's 104th Birthday

A five-band parade, exotic food, a regatta, a beauty contest, and a folk arts concert: that's how Sudbury celebrated Canada's 104th birthday. Organized by the Festival Canada committee, the July 1 fete happily mirrored the city's multicultural make-up.

The combined food fair and arts and crafts display was the popular attraction at the Arena throughout the afternoon. Seventeen food counters were laden with homemade delicacies from international recipes. New this year to tempt palates were beef cutlets and cheese balls from Bengali, Ojibway corn soup and squirrel meat served by the Indian Cultural Centre, and French-Canadian baked beans. Arts and crafts demonstrations included pottery making, sketching, oil painting, sculpturing and weaving. Young accordionists played as they strolled through the crowds.

A special attraction was the first annual Boy Scout kayak regatta, in which 320 Scouts and Venturers paddled their small craft over the 300-yard course on Lake Ramsay. Forty kayaks, built by the boys themselves to a uniform design, were entered with their two-man crews from many distant points as well as the Nickel District.

Whistling Applause

Appearing at the Bell Park Theatre, the 10 finalists in the Miss Sudbury contest were introduced to the overflow crowd by CKSO-TV's Joe Cook. The pretty girls were greeted with whistling applause as they paraded on stage in bikinis.

Miss Sudbury 1971 is Jo-Anne Proulx, 18, a member of the Sudbury Youth Centre's talented dance troupe, the Ontario Folklorists, now touring Europe. First runner-up was 20-year-old Made-

laine Gorzynski, a fourth year student at Laurentian University, and second runner-up was 17-year-old Barbara Blakely, a Grade 12 student at Sudbury High.

Grand finale of the national holiday was the folk arts concert at Sudbury High School. The Caruso Club treated the audience of 200 to a tour of Italy, complete with music, dances, and provincial costumes. The Ukrainian community's Dnipro Choir and energetic Veselka dancers contributed a colorful and exciting song and dance display, and seven traditional Indian dances were performed by the Wikwemikong Public School's "powwow" dancers from Manitoulin Island.



Greighton Mine's "sculptor of the stipes", Charles Paxy, as usual attracted a fascinated audience as he produced one of his realistic wood carvings.

Answering questions about Croatian cuisine and handicrafts at the Food Fair were this cheerful couple. Seventeen different counters sold samples of ethnic specialties.



Working in pastel chalks, Freda Smith completes a portrait at the art display in the Arena.

Kayak races and war canoe jousts kept the Boy Scouts busy. A campfire and bean supper ended the day for the 320 competitors.



Retired on Inco Pension

WITH 20 OR MORE YEARS OF SERVICE

JOHN MARTIN (See Front Cover)

Taken in early June, our cover picture shows John and Dorothy Martin in a corner of the colorful and neatly tailored garden of their home at 5 Orford Street, Copper Cliff. In the pleasant scene John, who has retired on early service pension after nearly 42 years with the Company, is gallantly surprising his wife with a bouquet of the lovely flowers they both enjoy so much.

A maintenance foreman at the Iron Ore Recovery Plant for the last 15 years, John was born in Campbell's Bay, Quebec, and was 21 when he signed on with the electrical department at Copper Cliff in 1929. Following a move to the mechanical department in 1931, he was employed in the crushing plant until his transfer to the IORP in 1955.

John and a Copper Cliff girl, Dorothy Lineham, were married in 1932. They have three daughters and two grandchildren.

The magnificent lilac bush in the picture was just 4 feet high when they bought their house on Orford Street seven years ago. "We've pruned the suckers and the dead blooms every year," said John. "This is our reward." He also uses his green thumb to produce a goodly supply of fresh vegetables and cut flowers throughout the summer.

CHARLES MISENER

Retiring Yard Foreman Charlie Misener's service dates back to September, 1928, practically all of it in the Yard Department, where he started in as a weigher and was appointed yard foreman in May, 1969.

Charlie was born in Queenston in 1906, but the family moved to Humberstone while he was very young. His carpenter father found the construction business slow so decided to try farming on the Erie Peat Road. "The farm



Mr. and Mrs. Misener

business was certainly steady," said Charlie, "— from early morning to late at night! I was the general chore boy." After finishing high school he worked for the Imperial Bank for three years before coming to the Port Colborne Nickel Refinery.

Charlie was married in Port Colborne in 1928 to Lillian Page, formerly of Penatanguishene. They have one son and four grandchildren.

Several hobbies and interests will occupy Charlie almost on a full-time basis. He enjoys wood-working and lawn furniture making, and has 2¼ acres of fruit trees, berry bushes and vegetables to cultivate. He and Mrs. Misener have already travelled extensively through Canada and the United States but have not yet been to Newfoundland, a trip they plan to make soon. They also plan on returning to some favorite spots they had previously visited.

"DUTCHY" GOEDHARD

"Dutchy" Goedhard was born in Nijmegen, Holland and came to Canada in 1950, the same year he started to work for Inco at the Coniston Smelter. Transferring to the Copper Cliff Smelter in 1954, he worked consecutively



Mr. and Mrs. Goedhard

at the sinter plant, the separation building and the fluid bed roaster building. He was a maintenance mechanic's helper in the Planned Maintenance Department. Before coming to Canada he worked on fruit farms in Holland.

Dutchy's wife, the former Susan Burwala, is also Dutch by birth and came to Canada in 1950. They were married in Sudbury in 1951 and have two children.

Mrs. Goedhard received her B.A. degree at this year's convocation exercises at Laurentian University; studying in the extension department, she obtained an overall average of 75%.

Dutchy is quite limited in his activities by the back trouble that caused his disability retirement but he does enjoy swimming and fishing in small doses.

The Goedhards are living in Sudbury.

KEN PETCH

At his new home in Little Current, Ken Petch will see lots to jog his memory of earlier days when he worked as a Great Lakes sailor. Born in Bracebridge, he started with Inco in 1940 at the Copper Refinery where he was a process clerk.

Ken married Vera Quinn in



Mr. and Mrs. Petch

Little Current in 1941. Mrs. Petch was a schoolteacher and taught for 12 years in Little Current and then for 21 years in Sudbury.

Enjoying the "very best" health on his early service retirement, Ken has been busy remodelling the Petch residence and exercising the green thumb in the garden. He and his wife plan to summer at their cottage just outside Little Current and will go south for part of the winters.

Beginning in October they will start a five-month trip around the world.

ANGUS JOHNSTON

"You often hear that alcohol and gasoline don't mix; well I discovered at a very early age that groceries and horse manure don't mix either. I was delivering groceries on a horse-drawn wagon for C. H. Parry in Copper Cliff, and one evening I got caught taking an after-hours load of horse manure to a friend in the



Mr. and Mrs. Johnston

new wagon Mr. Parry had just bought. That ended my career in the grocery business."

Angus Johnston was relating one of the funny incidents of his youth in Copper Cliff. He was born in Schreiber but moved to the Cliff as a boy of three. His father, the late Chas. Johnston, worked for the Company in the locomotive shop. Angus started with Inco in 1926, working always in the Copper Cliff smelter. He was a shift boss in the coal plant from 1942 onwards.

He married a Sudbury girl, Eileen Arthur, in 1931, and they were blessed with two children and three grandchildren. Mrs. Johnston died in 1965. Two years later he married Mrs. Margaret Gilbert, thereby gaining three children and five grandchildren. Mrs. Johnston's former husband,

the late Harry Gilbert, was a general foreman on the Copper Cliff smelter nickel converters. Daughter Lois is married to Creighton mill crusherman Jack Rauhala.

Angus has taken an early service pension with the Company. The Johnstons plan to travel a lot, and make full use of their cottage at McFarlane Lake.

JIM BARLOW

"This is kind of a coincidence, getting my retirement picture taken here." Special early service pensioner Jim Barlow was referring to the fact that one of his very first jobs with Inco was to put up floodlights to allow work around-the-clock on construction of the Inco medical centre and employees' club in Sudbury, where the Triangle's pensioner picture-taking sessions are now held in the new Training and Development Institute.



Jim Barlow

Jim started with the Company as an electrician's helper at Copper Cliff in 1937, working in the smelter until 1945 and then in the coal plant for the balance of his service. He was a 1st class electrician for the last 30 years.

Jim was born in Cooksville. In 1926, he married a Toronto girl, Ethel McGowan, who died in 1956. He remarried in 1959, taking Mrs. Merle Patterson as his bride. Jim is the father of three children, two from his second wife's former marriage. He was again bereaved by the death of his wife in 1968.

Jim likes taking on small carpentry jobs and spending summers at the cottage he built in 1961 on the French River. Although now living in Sudbury, he plans to join a brother-in-law in retirement in Toronto.

GERRY VAILLANCOURT

On the advice of his doctor, Gerry Vaillancourt is taking a disability pension due to back trouble. Gerry started with Inco in 1947 at Copper Cliff but transferred four months later to Leveck, where he remained until retirement. He had worked in a



Mr. and Mrs. Vaillancourt

Timmins gold mine prior to coming to the Company. Gerry's wife is the former Mercedes Leduc of Larchwood. They were married in Chelmsford in 1947. Daughter Pierrette, one of four children, is the wife of Richard Blais, a sand blaster at Clarabelle Open Pit.

Although retired, Gerry will

keep busy with the gas bar he operates in Chelmsford; his wife runs a confectionery store across the street.

Once in a while Gerry takes time off from the pumps to go fishing.

FRED HOPPING

Fred Hopping started his working career in the baking industry. It all began in his home town of



Mr. and Mrs. Hopping

Deseronto, Ontario, where he was born in 1912. He then worked in shops at Napanee and Belleville, baking bread and buns for 11 years.

His continuous service with Inco began in 1944; he worked in the nickel refinery's electrolytic department at Port Colborne until 1951, when he was transferred to the mechanical department. He was a boxmaker in the carpenter shop at the time of his retirement on disability pension.

Fred married Frances Shoener in 1940 in her home town of Belleville. Their family consists of a son, a daughter and three grandchildren.

Fishing, "for anything I can get — these days you can't be fussy," and flower gardening suit Fred's fancy. The Hoppings are considering the purchase of a camper trailer to travel around a bit; their first goal is western Canada. They plan to continue living in Port Colborne.

CLIFF LLOYD

"I sure had a nice bunch of guys to work with. It's nice being on pension but I do miss the gang."

Cliff Lloyd was looking back on more than 37 years he had spent with the Company, all in the Orford Building at Copper Cliff Smelter, operating the big



Mr. and Mrs. Lloyd

overhead cranes. Cliff's respect for the safety of his workmates is reflected in the fact that he never had an accident during the countless lifts he handled of molten material and heavy equipment.

Born in Newmarket, Ontario, Cliff moved to Western Canada with his parents as a boy of 7. He worked at farming and ranching before joining Inco in 1934.

He was married to Elizabeth Moxam in Sudbury in 1930; they have five children and 12 grandchildren. Mrs. Lloyd grew up in Waters Township where the Lloyds have their home.

Cliff is taking an early service pension and feels fine. He enjoys gardening and both he and his wife like ice-fishing. The Lloyds plan to stay in the Sudbury area.

CEC COMBA

When Cec Comba and his wife, Eva, came to the Sudbury area, a little bit of the Ottawa Valley was brought to the Nickel Capital; both are from Renfrew and were married there in 1933, the year before Cec started with Inco at the Frood. Mrs. Comba, the former Eva Levesque, is a registered nurse and has nursed for 25 years, 15 of them in Sudbury.

Cec was a shift boss for 18 years of his long career at the Frood. Of the four Comba chil-



Mr. and Mrs. Comba

dren, son Stu works as an oxygen control room operator in the Copper Cliff Smelter.

The grandchildren tally so far for Cec and Eva is seven. Both enjoying good health as Cec begins his full service pension, the Combas plan to travel to the east coast and perhaps Florida this winter. Their home will remain in Sudbury.

LORNE HUESTON

Fishing, hunting and gardening are going to get a bigger play now that Lorne Hueston has the time on his special early service pension. Lorne was born at Carp between Armprior and Ottawa.



Mr. and Mrs. Hueston

He worked as a mechanic and on the railroad before joining the Company in 1938 at Copper Cliff Smelter. He worked for 30 years on the slag dump, six of them on supervision.

He married Jean Pritchard of Armprior at Sudbury in 1938. They have one child.

Lorne enjoys good health as he relaxes to retirement. The Huestons plan to do some winter travelling to warmer, sunnier climes. They are presently living in Lively.



Some 300 friends and associates of Eli Lamontagne and Jim Childs gathered to fete them and their wives at the Italian Club on their retirement from the Copper Cliff Police Department after a combined service of 70 years. The two men received watches from the Copper Cliff Police Association and life memberships in the Police Association of Ontario. Seated are the honored couples, Eli and Colombe Lamontagne and Jim and Pearl Childs; standing are Constable Ray Phillion, president of the Copper Cliff Police Association, Deputy Chief Chuck Greenough, and Malcolm Mills, association vice-president.

ELI LAMONTAGNE

Sheenboro, Quebec, across from Pembroke, was the home town of Eli Lamontagne, retiring on a disability pension after 40 years of service. He was a police constable for the Town of Copper Cliff, working half his seniority at the Frood detachment and the other half at Copper Cliff. Before coming to Inco, Eli was a barber in Montreal and Toronto for three years.

Eli married Colombe Brisebois in Sudbury in 1931. They have two children; their son Maurice is a maintenance mechanic 1st class at Kirkwood mine and a 20-year Inco man. Eli and Colombe are also grandparents of six. The Lamontagnes would like to repeat some of the travelling they have done to Jamaica, Nassau and Florida but unfortunately Eli's back trouble will probably keep them close to their Sudbury home.

JIM CHILDS

Jim Childs worked four years in a gold mine east of Sudbury and as a police officer at the Haileybury jail prior to becoming constable on the Town of Copper Cliff police force in 1941. He saw duty in Copper Cliff and at the Copper Refinery, and was stationed at the Iron Ore Plant from 1955 until his retirement.

Jim was born near Aylmer, Quebec but grew up in Haileybury, where Pearl Mawhinney of Huntsville became his wife in 1928. They have two children and nine grandchildren.

For a pastime, Jim enjoys carpentry and general handyman work. His wife likes playing bridge. Both enjoy travelling and have some interesting trips planned. The Childs are living in Sudbury presently but will move back to Haileybury where they both have relatives and many friends.

FRED BLACKMORE

Fred Blackmore left his birthplace, Croydon, England, in 1926 for Canada and Ingersoll, Ontario. He worked for the Ingersoll Tool and Machine Co. for nine years before coming to Port Colborne and the Inco nickel refinery in 1936.

"They were completing No. 5 Building and I was offered three months work. The wages were good compared to what I was making, so I took it." Thirty-four years later, Fred is electing special early service retirement.



Mr. and Mrs. Blackmore

He was a machinist 1st class, doing an excellent job of looking after the shears in the warehouse since about 1940. "I'm really fussy—anybody who has worked with me will tell you that — maybe too fussy," reflected Fred.

December 11, 1937, was the date of Fred's marriage to Alice May Shelton in Ingersoll. He recalled the severe snowstorms that winter and the difficulty he had in getting to his wedding and then bringing his bride back to Port Colborne.

Fred enjoys gardening, with roses his prime favorites. He also tinkers at woodworking and does a bit of fishing in the bay in front of his home. Retirement for him and his wife will mean doing the things that need doing around home, and otherwise simply relaxing and enjoying the golden years of their lives.



This was the Pirate bench, backed by some of the 400 spectators. Pirates downed the Cards 10-2 in the pre-season exhibition opener.

Pee Wee Baseball Revived At Cliff in 6-Team Loop

They were all there — the Mets and the Cubs, the Pirates and the Phillies, the Cards and the Expos too. Or at least their local miniatures were all on deck, and the play was just as serious as it is in Jarry Park when the six teams of the Copper Cliff Pee Wee Baseball League staged an afternoon triple-header in their official opening at Nickel Park on June 20.

Upwards of 400 parents and interested townsfolk stood by to watch the ceremonies. Copper Cliff Mayor Richard Dow was the pitcher, Legion President E. H. Capstick donned the catcher's glove, and Don Fraser, Inco assistant general manager, was the hitter, slicing one down the third base line. Emcee duties for the afternoon were ably handled by Dan Rosu, the spark plug in re-viving pee wee ball in Copper Cliff.

A total of 144 boys, aged 6 to 12, are seeing action in the all-Copper Cliff loop, which Harold Vatcher helped Dan Rosu organize. The team managers are Cubs (Brian Pearson and Maurice Tessier), Phillies (Eric Lanus, Paul Glenn and John O'Neill), Mets (Vic Jutronic, Gerry Bertrand and Jackie Phillips), Expos



Card pitcher Raymond Smythe is a colorful man on the mound.

(Peter Jordan, Gerry Renaud, Steve Kusan and Dan Rosu), Cards (Hollis Blair, Terry Jackson and Mike Hodkinson), and Pirates (Larry Morden, Bill Carlyle and Ted Bryant).

Sponsorship for the loop is coming from the Legion, the Youth Club and the Town. By season's end each team will have played 10 games. Exhibition games against Coniston and Lively pee wees are also anticipated.

Garson League Celebrates "Coming of Age"

Twenty-one years of organized bowling were celebrated by a happy crowd of 300 attending the Garson Employees Club annual dinner dance at the Sorrento. Tom Scanlon emceed presentation of trophies and awards for the successful season. Captains of the top teams are shown here: Ray Joly's team won the playoffs in the 10-team mixed league, Mrs. Marilyn Bailey's crew came out on top among the 10 teams in the ladies' league, and



Cameron Dittburner's squad were the playoff champs in the 14-team men's league.



League chairman Dan Rosu (foreground) introduced community leaders in attendance. Left to right are Harold Heale, president of the Youth Club, Pat Riley, sports officer of the Legion, E. H. Capstick, Legion president, Rev. J. J. Delaney, representing the clergy, Don Fraser, Inco assistant general manager (administration), and Mayor Dick Dow.



With umpire-in-chief Claude Kerr watching closely, Mickey Prillisauer tries his best to knock a high pitch into orbit for the Pirates. The Card catcher is Raymond Parker.

Creighton-Lively Teen Bowling Finale



Throughout the season, Saturday afternoon was again teen take-over time at the Creighton Employees Club when 65 effervescing young folk punished the pins in the Creighton-Lively teen bowling league. Supervised by perennial organizer Erminio Cozzarini, the league sported eight teams. Shown here is part of the group which whooped it up at the Cahini Hall during their wrap-up dance which followed presentation of awards. Captain-

ed by Gilbert Joly, the "Psychos" cleaned up in no uncertain manner to emerge as league winners as well as playoff champs. On the team were Irene Gasiowroski, Connie Larson, Marie Vigneault, John Tricco, Mike Leblanc, Gordie Vigneault and Tom Kiley. Consolation playoff champs were the "Bold Ones", with captain Brian Besner, Beth Seguin, Sandra Maloney, Ron Pettigrew, Ken McLean, Bob Zyma, Ricky Waine and Tyny Kearney.

Cpl. Walford's "Rodeos" Teach Kids Safe Cycling

There are now at least 150 safer young cyclists in Copper Cliff. That's the number from the public school who attended last month's bicycle "rodeo" in the library parking lot. The annual event was conducted by Corporal Lloyd Walford of the town's police force, who termed it a great success. Registration chores and judging were ably handled by 12 students from Grade 8 under his supervision.

Corporal Walford ran the Levaack "rodeo" for six years before his transfer to Copper Cliff in 1969. He now holds three annually in Coniston, two in Lively, and two in Levaack. He estimates that more than 4,800 children have learned safe cycling habits from this valuable community project.

Each bike gets a thorough safety examination to ensure that everything is in running order and that bells, reflectors, lights, etc., are installed. Six tests, such as balance, knowledge of road signs, hand signals, etc., then check out the riding skills of the children. Typical of the enthusiasm was one Copper Cliff youngster's experience: he suffered the calamity of a blowout halfway through but finished by borrowing a bike from a chum.

Corporal Walford said that bicycles are steadily increasing in popularity, with more on the streets this year than ever before. Too many young riders, however, drive on the left facing traffic because their parents have mistakenly told them to, he said. Getting the youngsters to realize a bike must be driven on the right like any other vehicle is his biggest problem, because it's hard to contradict parental advice.

"By and large the cyclists drive safely and it's just a few that don't observe the rules of the road. But that's the reason we have these rodeos," he said, "to impress the kids with the need for safety and to set them a good example."

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Inco's World Exploration

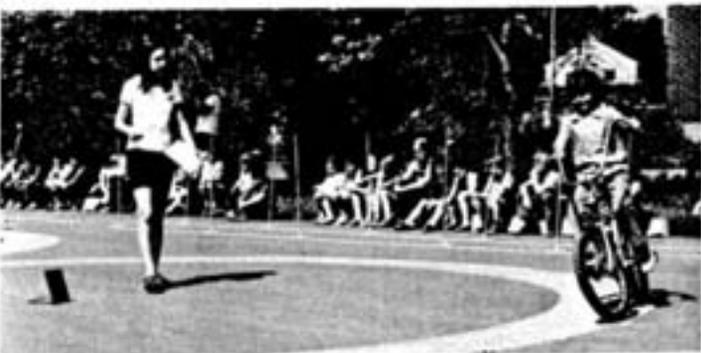
To increase its ore reserves, a major activity of any mining company, International Nickel in 1969 explored for nickel on some 35,000 square miles of land throughout the world. The Company spent a record \$19,896,000 on exploration, compared to \$17,028,000 in 1968, which had been a previous record.



David Blair zig-zags his bike around the road markers according to "judge" Ed Cuddy's instructions.



Jeanne Tessier makes the correct signal to stop and waits for "judge" Norman Bussolari to tell her to continue.



Gerald Tessier banks around the big figure eight painted on the pavement; Margaret Melhorn checks his performance.



Balancing carefully, Gordon Kuzniar pedals straight down the centre without knocking down the poles.



"Just drive straight down that white line and make a left turn," Corporal Lloyd Walford tells 2-year-old Jonathan Martin, who dropped in to watch the "rodeo" and was encouraged to take the tests on his tricycle.

Honored 13 New Retirees with Almost 450 Years of Inco Service



Murray - Clarabelle - Copper Cliff Mines Employee Association held a sendoff last month for 13 newly-retired associates, representing almost 450 years of Inco service: Adrien Lavallee, James Dickson, Bill Stevenson, George Gibson, Jack Taylor, Ewart Wright, Percy Lloyd, John Burns, Alf Pellatt, August Luoma, Joseph (J. J.) Roy, Felix Lapienis, and Max Brooks. The enjoyable annual dinner-dance was held at the Caruso Club with 136 couples attending. Shown above are members of the dance committee and their wives: Douglas and Ethel Dinnes, Ray and Selja Denomme, Clarence Weist, association chairman and his wife Isobelle, Bill and Marguerite Lang, Leo and Jackie Madore, Pat and Gladys Storie, and Bob and Fran Grotreau. Live-wire association secretary is Tony Basso.



Popular Harry Costello, past-president, accepts his gold watch from his successor, Terry Rupoli.



Al Amos (left) steps in to congratulate Archie Marcotte as he receives his watch. BELOW, obviously enjoying the evening are Joe Galien, Jim Lewandowski, Jerry Bois, Fergie Boyd.



It's amazing what a pretty girl can get men to do; Sheila Kimberly was lucky in her choice of good sports Ron Green and Jack Quenneville to add comedy to her act.

Maintenance Department's Pension Club Reaches 400

Nineteen new members were welcomed to the Copper Cliff Maintenance Pension Club at its 33rd annual retirement banquet last month. The Italian Club was packed by the 375 who turned out to acclaim the special guests. The club's honor roll now lists nearly 400 members, of whom 210 are still active. Charlie Heale was again the patriarch of the gathering, at 92 being the oldest of the 91 pensioners present.

Elmer Zinkie was emcee for the official part of the program and Club President Terry Rupoli and Vice-President Al Amos

teamed up to make the presentations.

Those on hand to receive their gold watches were: Aldo Bardaglia, Aldo Desanti, Arne Leppinen, Primo Mei, Arcand Marcotte, Joe Arsenaull, Diston Greig, Cecil Rivard, Larry Garand, Harry Costello, Tommy Buchanan, Abraham Bergman, Frank Hawkins and Fred Lampkie; not present were Alex Zeltins, Harold Deighton and Romeo Lafleur, while honored posthumously were Armand Bellefeuille and Harold Lora.

Robert Saddington, assistant to the division general manager,

and Fred Burchell, maintenance superintendent and honorary president of the club, spoke briefly, praising the esprit de corps of the club and congratulating the new members.

A snappy stage presentation with comedian Billy Davis as emcee was enthusiastically applauded.

The club's 1971 executive consists of President Terry Rupoli, Vice-President Al Amos, Secretary Bob Garrow, Treasurer Art Closs, and Directors Bob Roberti, Rolly Spencer and Elmer Zinkie. Committee members are: Jack Clark, Guido Cecchetto, John Pietrobon, Jack Kennedy, Ron Green, Army Conte, George Holder, Ken Cushing, Larry Belanger, Karl Krakovsky, Aime Mossey, Elmer Laakso, Frank Robichaud, Harold Barnes, John Baird and Louis Giroux.

Inco Student Jobs Up 50% This Summer

International Nickel reported a 50% increase in the number of summer jobs for students this year in its Sudbury district operations. Nearly 500 of this summer's 1800 jobs have been filled by local high school students with the balance coming from the university and college levels.

About two-thirds of the young people are from the Sudbury area and are employed mainly as vacation relief throughout the Company's mines and surface plants.

A continuing increase in both temporary and permanent employee requirements, although the latter has temporarily levelled off, is largely the result of Inco's huge Canadian expansion program.

Port Golfers Had a Great Day

After a lapse of two years the Port Colborne Inco Recreation Club golf tournament staged a revival last month and, with an entry of 108 representing all sections of the nickel refinery, was a resounding success.

The Highland Golf Club at Welland got a good going-over from the Inco devotees, who happily wound up the day by devouring a delicious roast beef dinner and dividing a dazzling display of loot that included a prize for just about everything and everybody.

Dan Dobrin brought in the best low net of the meet, a sizzling 66, and was presented with the Recreation Club trophy by Assistant Manager Bill Spence.

Flashing some of his top form, Les Lewis posted a 77 and received the low gross prize from emcee Larry Roach.

If there had been a prize for the golfer who finished in the best shape, it would probably have been won by pensioner Earle Lambert, a lean and lithe 84 years young, who next month celebrates his diamond wedding anniversary.

Co-chairmen John Sullivan and Dave Neff shared praise for the highly enjoyable tourney with their efficient committee of Len Richards, Elmer Anger, Tom Christoff, Fritz O'Neil, Bill Kantymir, Ken Burke and Felix Ventresca.



LEFT: Dan Dobrin with Inco trophy for best net. RIGHT: Emcee Larry Roach congratulates low gross prize-winner Les Lewis.



LEFT: Three of the committee, Len Richards, Bill Kantymir, Tom Christoff. RIGHT: "Most honest golfer" Pat Glynn picks a prize.



There was some swanky swinging on the tees at the clubhouse.