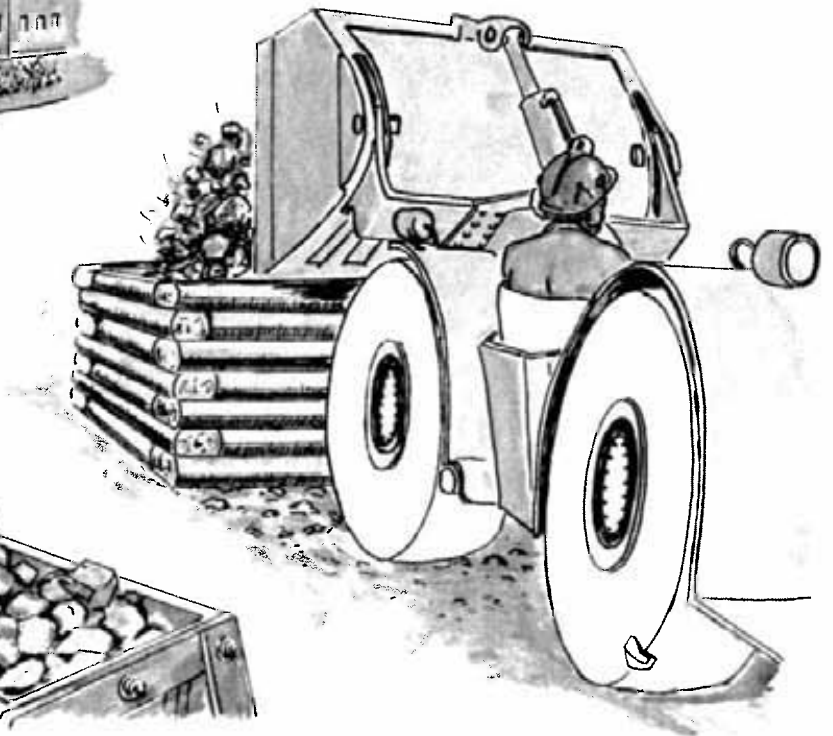
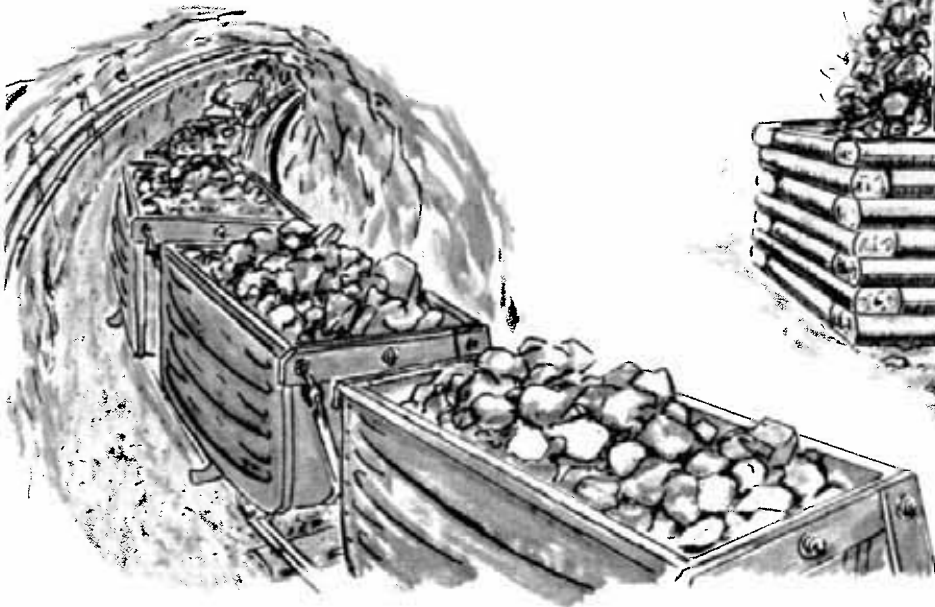
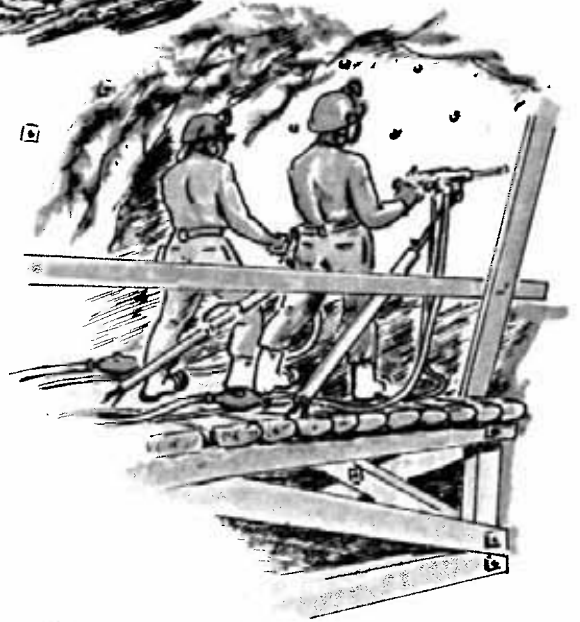
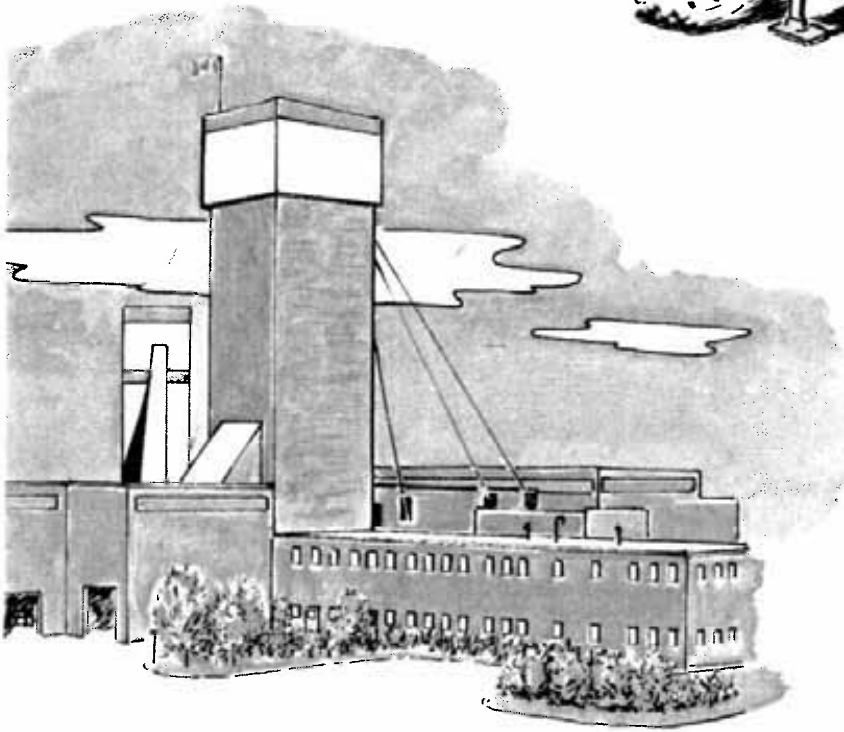
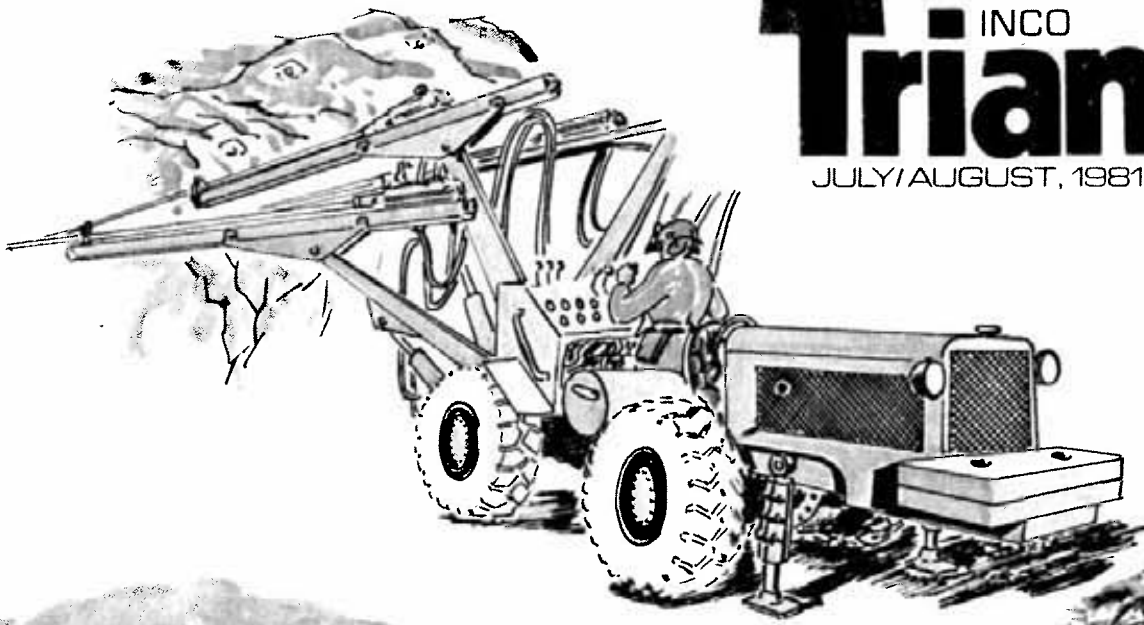


INCO Triangle

JULY/AUGUST, 1981



In this issue

Publications
Editor

Peter vom Scheidt

Writers

Meribeth Dingwall
Frank Pagnucco

Port Colborne
correspondent

Dino Iannandrea

Published monthly for employees and pensioners of the Ontario division of Inco Metals Company. Produced by the public affairs department and printed in Canada by Journal Printing Company in Sudbury. Member of the International Association of Business Communicators.

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



New home at Scotia Tower

Several departments have relocated their offices to the seventh and eighth floors of one of Sudbury's newest landmarks, the Scotia Tower. The new offices are centrally located in the downtown core of the city.

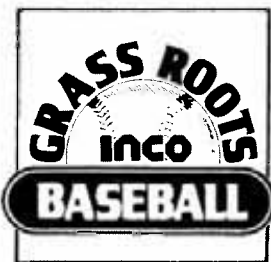
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New product — old idea

Nickel battery powder is a new product produced at the Copper Cliff nickel refinery. Besides the powder's obvious conventional use it could also be employed in batteries that may make an electric car a practical alternative to the gas powered car.

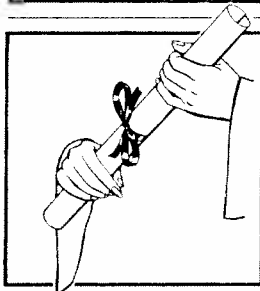
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Grass Roots Baseball

A unique approach to teaching the fundamentals of baseball was offered to Sudbury youngsters and coaches courtesy of Inco. The idea was developed and sponsored by Inco in conjunction with local baseball people.

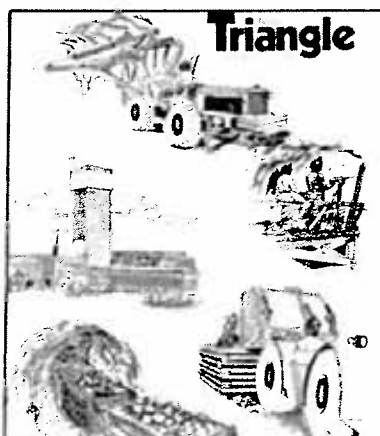
12



Inco Scholars

A total of 17 Inco Reserved Scholarships were awarded to sons or daughters of Inco Ontario division employees or pensioners. Students receive the award for a maximum of four years.

20



Our Cover

This month's cover celebrates the 80th anniversary of the Creighton mine complex. The cover, which depicts Creighton mine of yesterday and today, was designed and painted by Bob Peters. Bob, a visual aids co-ordinator at the Creighton complex, used water colors to portray 80 years of mining. For an historical look at the complex, see pages eight and nine.

Inco provides Forum for disabled

At the request of the Ontario Welfare Council, the Ontario division of Inco Metals Company hosted a luncheon meeting for business and community leaders to provide a forum to discuss improving employment opportunities for disabled people and to learn more about the Ontario Welfare Council's plans for a Conference on Employment and Disabled People to be held in Toronto, September 17, 18, 1981.

On hand to address the luncheon meeting was Dr. Robert Elgie, Ontario Minister of Labour, Winton Newman, Ontario Division president, Bud Krone, a special advisor to the upcoming Conference on Employment and Disabled People and Heather Marshall, conference director with the Ontario Welfare Council.



At the meeting in Sudbury, Winton Newman, president of the Ontario division of Inco Metals Company, left, Heather Marshall, Dr. Elgie and Bud Krone briefly discussed plans for the upcoming conference.

Recent Staff Appointments

Terri Aho, general clerk,
engineering, Copper Cliff

Richard Bailey, mill general
foreman, Frood-Stobie mill

Nancy Baldisera, maintenance clerk-
stenographer, employee relations,
Stobie mine

Joe Cappelletti, maintenance
assistant, Creighton nine shaft

George Certossi, smelter foreman,
Copper Cliff smelter

Perry Conlon, surveyor, mines
engineering, Creighton nine shaft

Evelyn Cook, terminal operator,
engineering, Copper Cliff

Joyce Donohue, maintenance clerk-
stenographer, Frood-Stobie nine shaft

Victor Engelsakis, senior project
coordinator, engineering, Copper Cliff

Henry Fiacconi, supervisor planning
and scheduling, engineering,
Copper Cliff

Richard Godin, mines research
engineer, mines research,
Copper Cliff

Slobodan Golubovich,
environmental control analyst,
environment control, Copper Cliff

Syd Irvine, run coordinator,
computer services, Copper Cliff

Ken Langille, project coordinator,
engineering, Copper Cliff

Brian Lyons, mill superintendent,
Shebandowan mill

Cheryl Massey, load computer
operator, computer services,
Copper Cliff

Scott McDonald, staff assistant,
Copper Cliff smelter

John Moore, supervisor estimating
and cost control, engineering,
Copper Cliff

Bill Oldenburg, technical support
programmer, computer services,
Copper Cliff

Robert O'Reilly, incentives
administrator, mines engineering,
Little Stobie mine

Norman Pagan, industrial relations
representative, employee relations,
Frood mine

Jeff Prince, data control clerk,
division comptroller, Copper Cliff

John Putinta, computer operator,
computer services, Copper Cliff

Keith Robinson, engineer,
engineering, Copper Cliff

Celia Rodney, senior data control
clerk, division comptroller, Copper
Cliff

Norman Rowlands, analyst, Iron Ore
Recovery Plant

Evan Russell, maintenance general
foreman, Copper Cliff nickel refinery

Melan Sekerak, senior design
engineer, engineering, Copper Cliff

Joanne Sonier, receptionist,
engineering, Copper Cliff

Michel Sylvestre, planner, mines
engineering, Creighton nine shaft

Wayne Taylor, senior construction
coordinator, engineering, Copper Cliff

Michael Throssell, mill
superintendent, Clarabelle mill

Edward Traill, maintenance general
foreman, Iron Ore Recovery Plant

Robert Tyers, supervisor contract
administration, engineering, Copper
Cliff

Albert Vitone, senior analyst, Copper
Cliff mill

Several departments move to Scotia Tower in Sudbury

Moving never seems to be an easy or brief undertaking however big or small it may be.

But in the case of several Inco departments, moving to new facilities at the Scotia Tower in downtown Sudbury was a major, well-planned operation.

"The move went very smoothly," commented Gail Assmann, supervisor of office services, "considering the

size of the move."

The benefits and internal audit departments from Copper Cliff, training and development, employment, financial and family counselling, audio-visual and drug and alcohol counselling departments from the Inco Club building on Frood Road, began moving the week of May 18.

On May 25, the new Inco offices,

covering approximately 23,000 square feet, were opened on the seventh and eighth floors of the Scotia Tower. Some 40 employees were relocated there.

The employment, benefits, audio-visual, internal audit and some training facilities are located on the seventh floor. Alcohol and drug counselling, financial counselling, a public affairs office used primarily for



Paulette Seguin, left, and Lorna Fleury, right, both of the benefits department, classify files with Larry Chamberland prior to relocation.



Isabel Scott of training and development tidies up her desk after the move to the Scotia Tower.



Dave Chapman of the employment department transfers files from boxes to cabinets in the new employment office.



Larry Chamberland of office services, left, and Terry Duncan, supervisor of benefits, discuss moving plans for the benefits department.

meetings and pensioner interviews, a 76 seat theatre, meeting rooms and other major training facilities are located on the eighth floor.

The move to the new downtown offices on Durham Street followed ten months after Wint Newman, president of the Ontario division, announced plans to move many of the division's functions to a more centrally located office facility in downtown Sudbury.

"We devoted a considerable amount of time and effort in analyzing the types of functions that would better be located downtown and the alternatives available to us," said Mr. Newman. "In August, 1980 we announced that we would relocate various departments from the Inco Club and the Copper Cliff general offices to the top two floors of the Scotia Tower.

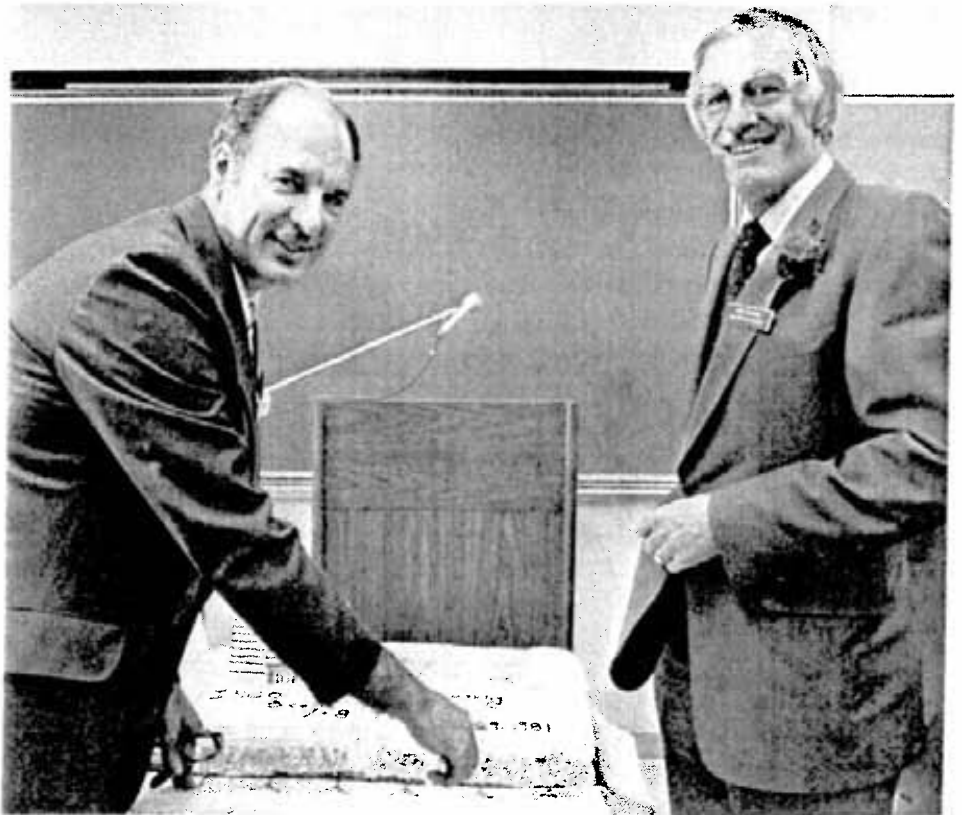
"These new facilities in downtown Sudbury will certainly be of major importance to us as a company in offering employee-related services and conducting business in the community," Mr. Newman continued. "They also serve to represent our interest in and on-going commitment to the Sudbury community."

Office services personnel and all the departments involved followed a well-organized moving plan. All furniture, office supplies and files were tagged before leaving the original location, then shipped to the appropriate office areas. Some original pieces of office furniture were reupholstered, filing cabinets were refinished and painted, new furniture to outfit office and reception areas was ordered and delivered.

An official opening ceremony of the new Inco offices was held on June 29 at the Scotia Tower. Approximately 100 guests, including representatives from Sudbury Regional Council and senior regional staff, the Sudbury media, the United Steelworkers of America, local provincial ministries and Sudbury business and community representatives attended the afternoon event which included tours of the new facilities.



Wilma Zahavich and Lorne Constantineau of training and development decide which boxed office supplies go where at the new training facilities.



Sudbury mayor Maurice Lamoureux, accompanied by Ontario division president Wint Newman, cuts a cake to officially open the new Inco offices in the Scotia Tower.

The fine tuning has begun on the system that will produce C.C.N.R.'s newest product, nickel battery powder. Construction of the battery powder plant, an extension on the south end of the existing nickel powder plant at the Copper Cliff nickel refinery, began last summer and was completed in April at a cost of \$2.5 million.

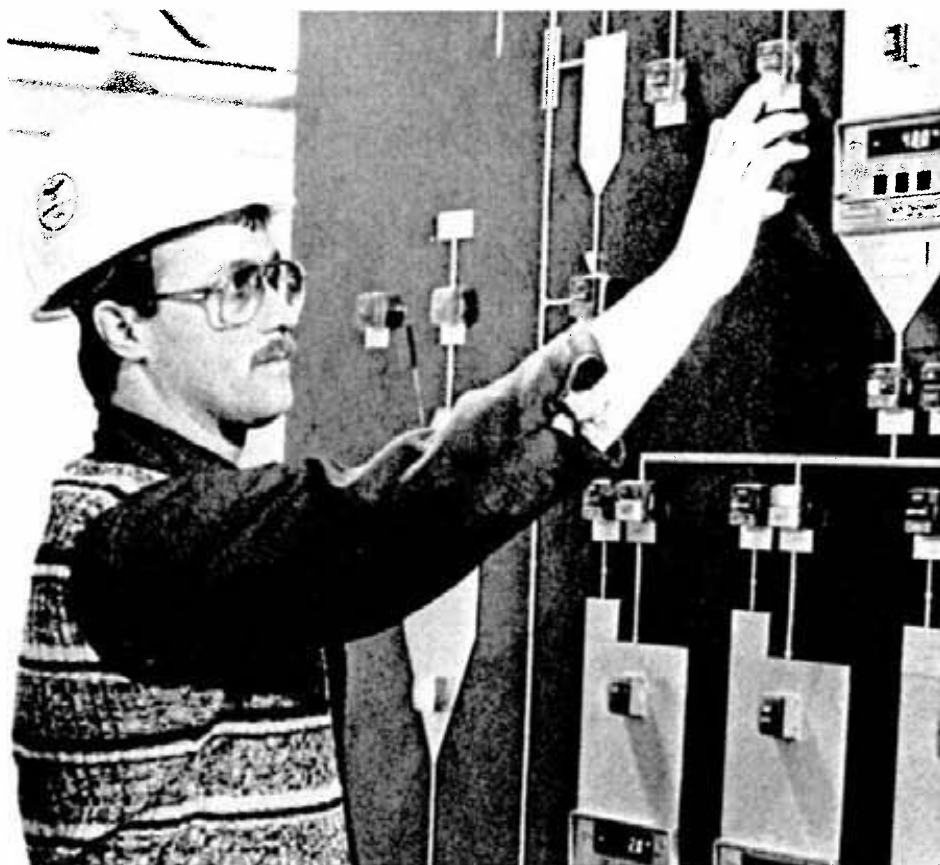
The battery powder plant houses a multi-stage process that will produce 2.5 million pounds of nickel powder known as the "200" or "battery grade" series. Clive Lewis, superintendent of the I.P.C. department and overseer of the new plant, describes it as "a process to prepare the nickel powder for eventual use in nickel based batteries."

Prior to the expansion of the Copper Cliff nickel refinery, battery type powders were only produced at Inco's Clydach refinery in Wales.

The plant's construction was supervised by concept engineer Tom Price and field engineer Jimmy Tyres. The operational aspects of the project were coordinated by Gunnar Will, I.P.C. shift foreman.

With the fine tuning of the system and its equipment well underway Gunnar reports that everything is going according to schedule. The official opening of the nickel battery powder plant is slated for September of this year.

Nickel battery powder CCNR's newest product



Shift foreman Gunnar Will operates the panel that controls the entire battery powder process except packaging.



Bob Bray, a packaging and shipping operator, watches as containers are filled with battery powder destined for the North American market.



Clive Lewis, superintendent of IPC holds a bag of nickel powder

Battery powered cars Not a new invention



A prototype car bursts through one of the battery powders that may make electric cars practical: INCO nickel battery powder type 287.

At the turn of the century Thomas Edison had developed an automobile that was powered by nickel alkaline batteries. It remained a viable means of locomotion until the 1920's when came the development of internal combustion engines and the discovery of relatively cheap fossil fuels throughout the world.

Over the last ten years, people have been rudely awakened to the fact that the exhaustion of oil and gas is inevitable. Now we necessarily seek alternative, preferably renewable sources of energy. Canada, blessed with abundant hydro and mineral resources, will turn to electricity. In a few short years we will be rediscovering the electric car and nickel powder will play a large role in making it practical.

Nickel powder, a product of the carbonyl process, has some properties that suit it particularly well to holding a charge in batteries. It is a filamentary type of powder; that is, rather than being round it looks like a little hair. Each granule of nickel is covered with "spikes" which link it to other granules in a kind of loose chain.

Once sintered (welding the powder together partially without melting it).

nickel powder forms a structure that is like a porous, metallic sponge. The more porous a material is, the more active mass can be loaded into it. As a result, more power can be stored. Nickel powder is considered an optimal material for battery manufacture because its porosity can be up to 80 per cent.

One type of nickel powder battery in wide use today is the nickel cadmium battery. Once nickel powder has been sintered and formed into a porous plaque structure, the plaques are soaked in a solution of nickel salts to make positive plates and in cadmium salts to make negative plates. Nickel tabs are welded to each plate and separator material is placed between the plates to prevent contact and act as a gas barrier. Each cell contains a micro-resealable vent which opens to allow any excess gas pressure to be released.

Nickel cadmium batteries are used as a source of power in everything from toys and tape recorders to jets and locomotives. They have an advantage in that they are rechargeable over their very long lives, up to 40 years in some cases. Nickel cadmium batteries also

maintain a virtually constant voltage for the life of each charge. It is estimated that this type of battery delivers 50 to 100 per cent more energy than lead-zinc batteries on a pound for pound basis.

A more recent application of nickel powder in the area of fuel cells is in the production of nickel hydrogen batteries. Developed by Ford Aerospace and Communications Corporation at Palo Alto, California, nickel hydrogen batteries will power a number of INTELSAT satellite series which will be used by nations around the world for international and domestic communications. Not only is it a lighter, more durable system that can be recharged by solar cells during orbit, but it also delivers much more power. They, in the future, will undoubtedly play a role in powering manned space stations, space shuttles and long range space exploration vehicles.

It is possible that nickel powder will form the basis of the battery that one day will make the electric car practical. Beyond that researchers will aim for developing fuel cells that convert synthesis gas directly into energy, an efficient, pollution free source of energy for the world.

Creighton mine celebrates 80

Back in 1923 Creighton mine became the object of a little corporate espionage. An official of the British America Nickel Corporation, one of a number of companies with interest in the Sudbury Basin at the time, gathered information, by various means, for his superiors on the status and future outlook of Creighton mine.

His letter to head office included meticulous calculations on how much ore had been extracted up until that point and how much ore International Nickel planners thought they could extract in the near future.

Basing his assumptions on conversations with various people associated with the mine, the informant reported that "there is relatively very little ore left in Creighton mine and that conditions are such that they could not produce a greater tonnage than their present output without getting into trouble."

While International Nickel engineers had made statements indicating that exploratory proddings had uncovered even greater mineral wealth in the Creighton ore body, the BANC official concluded that "so strong is the evidence to the contrary that I would have to see such statements and check the figures before I could believe that all my information has been wrong."

History has proven the BANC official dead wrong. The Creighton ore body has been found to be one of the most significant nickel-copper reserves in the world. Since mining began at Creighton in 1901, a total of 70 million tons of ore have been hoisted to the surface through number 1, 2, 3, 5 and 9 shafts. An additional 62 million tons of caving production have been mined through number 7 shaft, from the time of its inception in 1951 to the closure of the caving operation in 1972.

The first hint of the Creighton orebody's existence came in 1856 when a land surveyor named Albert Salter noticed erratic compass needle deflections in the area of what is now Creighton mine. Rock samples taken at the time revealed evidence of magnetic iron ore with traces of copper and nickel in the grains of non-magnetic mineralization. It was not until over three decades later, when patent rights to the property were granted to the forerunner of Inco, the Canadian Copper Company, the development of the orebody was undertaken.

Initially ore was extracted by the open pit method. As miners followed the ore further into the earth, shafts

were sunk and underground mining methods employed. The Creighton complex consists of 11 shafts, some of which have been abandoned or are used for ventilation or exploration. Two shafts, 5 and 9, are used for production purposes.

Creighton 9 is the deepest continuous mine shaft in Canada. It extends an incredible 7,125 feet below the earth's surface. More astounding is the fact that geologists have proven that the orebody goes even deeper. A future shaft, to be called No. 10 shaft, will be required to develop the ore from 7,000 to a potential of 8,500 level.

Currently, 1,450 men and women are employed at the Creighton



Taken somewhere about 1905, this photo shows a group of visitors and guides standing in front of a 25-foot pillar on the fourth level at Creighton mine. On the left is the famous "Cap" Hambley, then superintendent. Note the candles, then the means of illumination underground: each miner received an issue of four candles a day, two in the morning and two at noon.

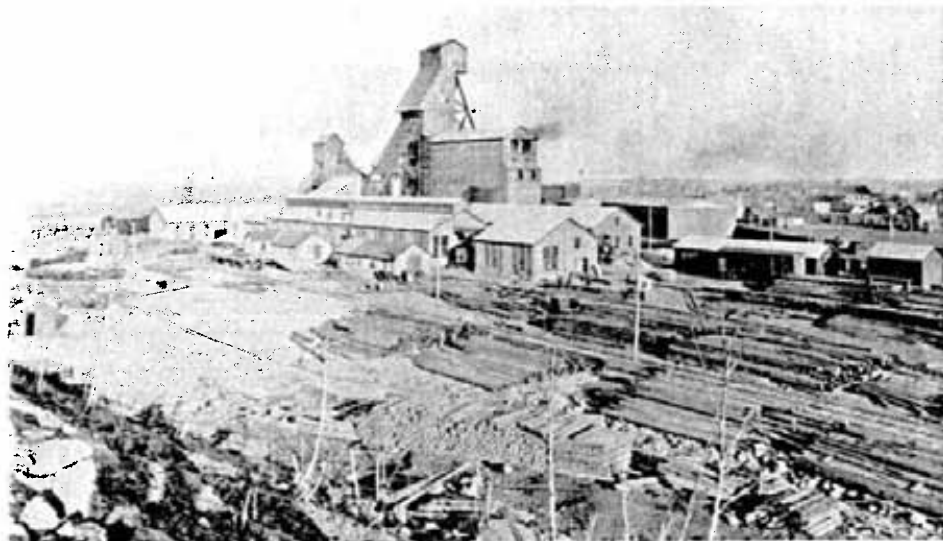
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complex. Through their efforts, 1.6 million tons of ore will be extracted from the mine this year. That translates into 103 million pounds of copper and nickel or nearly 20 per cent of the metals produced by the company in Sudbury.

As Creighton mine celebrates its 80th anniversary this month, people can look at a colourful past and a bright future. It has developed from a glory hole in the days of hand mucking, to a mining marvel that lays claim to the latest in technology. We salute Creighton mine by acknowledging a milestone that a poor, misinformed person could not envisage more than half a century ago.



Taken about 1911, this photo shows Louis Marois, left, and his partner, L. Fera, manning one of the old piston drills in the open pit at Creighton mine. The machine was operated by compressed air and the steel was cranked into the drill hole by hand.



All three of the original headframes at Creighton mine appear in this photo, taken in 1917. The skeleton of little number one is visible on the left, number two is in the centre, and the then majestic number three on the right, with a skip coming up the inclined shaft from underground to the dump in the top of the headframe.



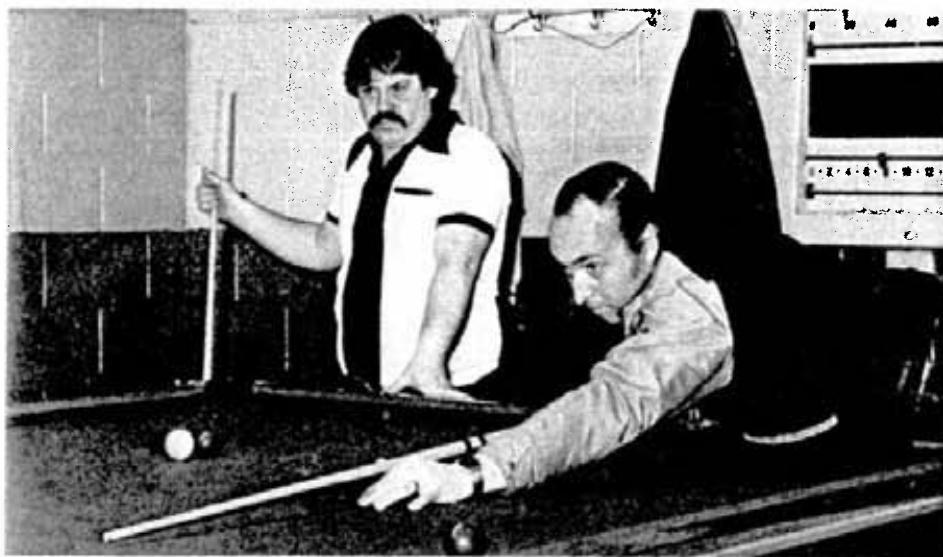
These men are beginning work on the sinking of three shaft at Creighton. The year was 1915.



Pool anyone?



Yvan Beauchamp prepares to make a tricky shot called a massé. He's trying to put a spin on the cueball so that it will curve around the ball blocking his path and hit the furthest ball in such a way that it will go in the direction he wants to.



From left, tournament coordinator Roger Spencer watches intently as Gary Constantineau attempts to drop a ball in the corner pocket.

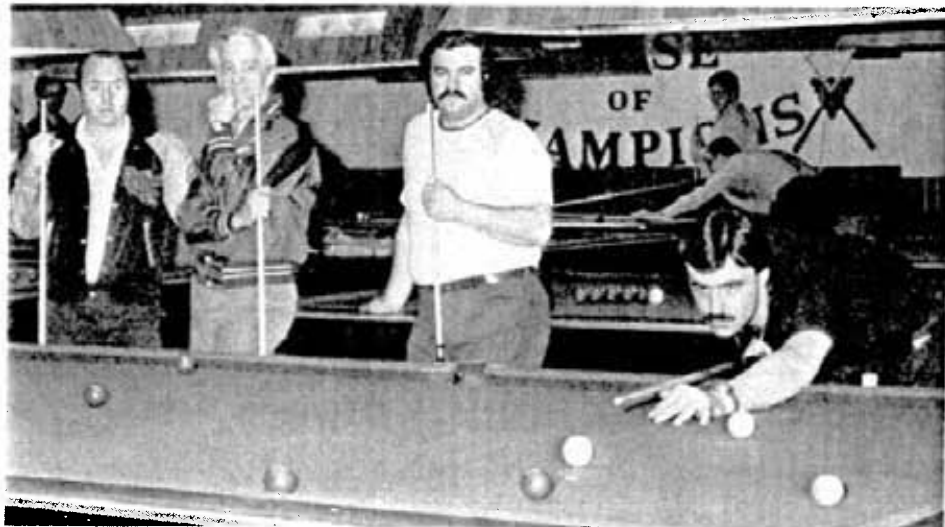
The Copper Cliff copper refinery Athletic Association recently held its Second Annual Snooker Tournament at Holiday Lanes. Some 36 players from the refinery came out to compete in the singles and group competitions. The tourney was followed by a banquet meal at the bowling establishment.

Tournament coordinator, Roger Spencer, explained that a decision was made to change the group competition size from two to four

players so that the better players would be split up more evenly, giving everyone a chance to win. "The finals were really close," Roger said, "and the title was won by only one game."

The winner of the singles competition was Saverino Dagostino, while the winning team consisted of brothers Saverino and Mike Dagostino, Michel Desarmeaux and Al Vincent.

From left, Gary Constantineau, Ivan Labelle and Mike Dagostino look on as Mike's brother, Saverino Dagostino, attempts to make a difficult cross-side shot.



AROUND THE PORT

news and views from the Port Colborne nickel refinery



NEW TRAINING ROOM IN E.N.R.

The M.T. & S. training program is continuing at the Port Colborne Nickel Refinery. Permanent facilities are being established in each department. In the photo **Bob Leveille** instructs a class the operation of the carbonate floor in the electrolytic nickel refining department. The new training room is located in the former old building sewing room. The students from left to right are **Ed Richert, Roger Marleau, Nick Seredine, Clifford Duquette, Mike Mascitelli and John Gilbert**.



CHECKING JEWELLERY FOR RADIOACTIVITY

New stories of radioactive gold jewellery dominated the headlines in New York City and Buffalo, New York recently. Apparently gold "seeds" used as radioactive tracers by hospitals some 40 years ago, somehow found their way into jewellery. This radioactive gold was melted down into jewellery and caused cancerous sores. Because of the proximity of Port Colborne to Buffalo, many people were concerned that they may have purchased some of the contaminated gold. These fears were set aside when Inco Metals Company loaned a Geiger counter to the Welland-Port Colborne Tribune. Hundreds of articles were checked by the staff at the newspaper's Port Colborne office. No jewellery was found to be radioactive. In the photo, Tribune employees **Dana Shaubel** and **Judy Haist** check out a gold wedding band.



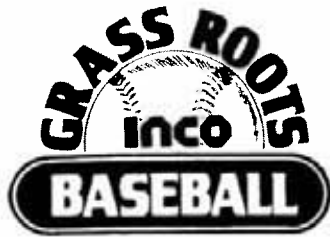
CERTIFICATE FOR 100 DONATIONS

Ed Mitchell, right, a machinist in the maintenance department at the Port Colborne Nickel Refinery, was recognized at a recent blood donors clinic held at the Inco recreation hall for his 100th donation. Presenting him with the certificate was **Grace Knoll**, (centre), executive secretary of the Port Colborne branch of the Canadian Red Cross. The Port Colborne area Boy Scouts sponsored the clinic and were represented at the ceremony by **Bob Pressey**, district commissioner and a process assistant in the process technology department at the refinery.



DONATION FOR NEW BOY SCOUT HEADQUARTERS

The Port Colborne and district boy scouts have undertaken the project of building new headquarters. **Bill Gaboury**, assistant district commissioner in charge of training and a planner in the maintenance department and **Bob Pressey**, district commissioner of the Port Colborne and area boy scouts and a process assistant in the process technology department, accept a \$750 cheque presented by **Elaine Arnold**, supervisor of public and community relations at the Port Colborne nickel refinery.



A unique learning ex

Hundreds of youngsters between the ages of 10 and 18 flocked to the Lasalle Sports Complex throughout the last weekend in May to participate in a unique baseball learning experience sponsored by Inco known as Grass Roots Baseball. By the end of the two day affair, young baseball enthusiasts and local baseball coaches came away with new insights on the fundamentals and techniques of the sport provided by Dick Rockwell, head baseball coach at LeMoyne College in Syracuse, and his clinic staff.

The idea of Grass Roots Baseball was conceived by Inco and presented to people involved in the baseball scene for reaction and input. Once defined, the Grass Roots program was planned and organized by Sid Forester, superintendent of public

affairs and other company officials with the help of local people. It was decided that the emphasis was to find instructors who specialized in teaching pre-teen and teenage players.

In Dick Rockwell and his assistants, Grass Roots organizers found men with impeccable credentials in developing player and coaching programs. Dick, a former All-American catcher out of Ithaca College, was a professional player and manager in the Philadelphia Phillies organization. As head coach at LeMoyne he has compiled a 372-145 won-loss record in Division II collegiate baseball.

Dick was joined by Jim Ferrante, Fiore Decosty, Ted Kerley and Rudy Tucci. Each individual draws upon extensive and impressive experience

as players and coaches of high schools in the Syracuse area. Six local coaches were asked to help with Grass Roots instruction. They were; Bill McLaughlin, a maintenance mechanic at the Iron Ore Recovery Plant, Gerry Mills of the Copper Cliff copper refinery warehouse, George McKay, John Rawlings, Jack Rumball and John Zimany, a blasting boss at South mine. Each of these men has played senior baseball and they are all heavily involved in coaching baseball in Sudbury and area at the minor or senior level.

Two coaching seminars were offered to local coaches. Over 100 coaches registered and took in the seminars that covered a wide spectrum of baseball basics. On Saturday and Sunday morning the



All the facilities at the Lasalle Sports Complex were put to good use during Grass Roots weekend.

perience

coaches took to the various fields of the Lasalle Sports Complex with 285 boys and girls between ten and 13 years of age. The first day was devoted to fielding and catching while the second day was spent on learning the finer points of batting. The exercise was repeated at a slightly more advanced level for players between the ages of 14 and 18 each afternoon.

The participants, all wearing a Grass Roots baseball cap, found the experience to be enjoyable and enlightening. Many, for the first time, were exposed to the proper way of performing the basics of the diamond. They were taught hitting, fielding and catching skills through the time honoured method of personal, coach-to-player instruction. They learned also from doing hitherto



Dick Rockwell, head coach of the LeMoyne College baseball team, demonstrates a baseball technique at the coaching clinic.

unknown exercises, such as hitting "puffballs", or batting balls flung at them by pitching machines, rare commodities in this area for certain.

This, according to Dick Rockwell, was the first time he had ever conducted a clinic in Canada. He

praised Grass Roots organizers for the excellent preparatory work they had done. "It is one of the best clinics we have ever had," Dick said. "All we had to do was come in and teach. I don't believe we've ever run a clinic this smoothly."

Comparing Canadian ball players to the American youngsters he regularly coaches Dick commented: "They (Canadians) seem to be much more enthusiastic and they are much more lacking in fundamental skills." He attributed this lack of skill to not having been exposed to as much baseball as soon in life as most American players. Dick added: "The potential for very good players is here."

Dick and his clinic assistants were greatly impressed with the receptiveness of their Canadian charges throughout the Grass Roots weekend. "Most of the kids here over the weekend were much more appreciative of what we were trying to get across," he commented. "The kids in the States take it for granted."

The American coaches also had much praise for their Canadian counterparts. "It's by far the most cooperative and the most worthwhile day we've ever had for coaches," commented Dick, citing the 25



Jim Ferrante, varsity coach of Solvay High School in Syracuse, talks about pitching to a group of youngsters. He is being assisted by local coach George McKay, standing.

Grass Roots Cont'd . . .

coaches and members of the Sudbury Shamrocks who helped with the clinic. "It could never have taken place without the local coaches."

More importantly the Americans found Grass Roots to be a mutual, give-and-take affair rather than one where they dominated completely. "We took the approach that we're not five guys from the States who came up here to tell you what to do," said Dick. "We're five guys who came up from the States to share some ideas with you. We learned as much from them (the local coaches) as they did from us."

John Zimany, a Sudburian who pitched in the old Nickel Belt league in the 1940's and who spent some time playing professional ball in the New York Giants and Pittsburgh systems, worked with the pitchers during Grass Roots assisting Rudy Tucci. John said of his experience at the clinic: "I learned a few things. Those fellows are very good. I was really impressed." The kids, he felt, were "pretty receptive" and parents on hand to witness the event made very favourable comments. "They thought it was a very good idea that should have been done a long time ago." That, he continued, reflected his sentiments on Grass Roots: "They shouldn't let it be discontinued. I think it should be followed up."

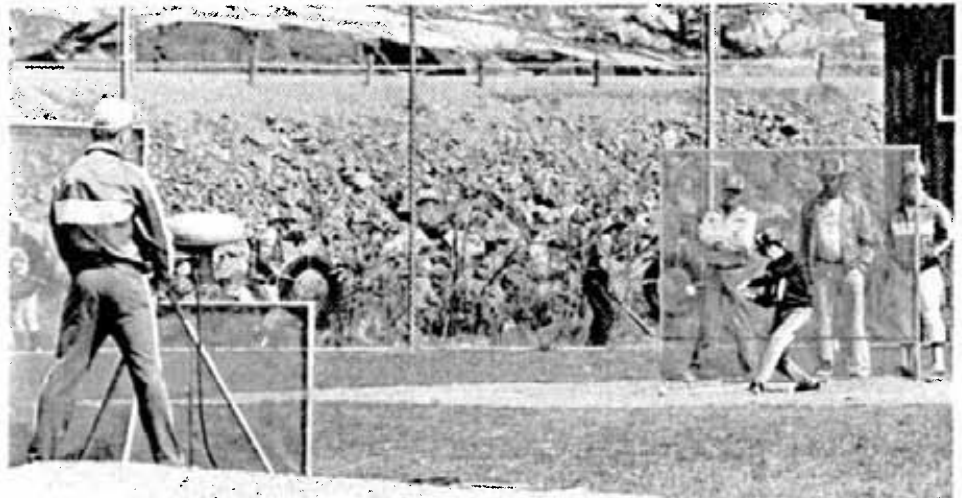
Bill McLaughlin, a former infielder in the Nickel Belt League during the 1950's and coach of the Walden Cubs senior baseball club, thought the program was "excellent and it served the purpose of getting across to coaches and kids the basic fundamentals of baseball." He predicts Grass Roots will have a definite ripple effect in the development of baseball players in Sudbury. Up until now it was entirely possible for a coach of a senior team to have spent great amounts of time teaching players aged 17 and over baseball basics they should've picked up at a much more tender age. Grass

Roots graduates will carry with them into Little League and up through the ranks the things they learned during the clinic. "The kids will have at least some of the fundamentals of the game," noted Bill. "It will allow coaches to get into the more intricate aspects of the game."

Bill agreed that Americans and Canadian coaches worked well together. "The Americans were excellent," he assessed. "They didn't look down their noses at us. We worked together." The best part of the clinic, Bill thought, was "the enthusiasm of the kids, that's what really tickled me." Because "kids in the area are just starving for baseball knowledge" and his own yearning to

see a baseball program established that would allow Sudbury teams to challenge for the national Little League title, Bill hoped he would see another Grass Roots weekend.

As Grass Roots ended on Sunday afternoon it was evident that the clinic staff had delivered the message of baseball and its basics. Filtering away from the Lasalle fields, kids walked and talked baseball. Discussion of the weekend's clinic was animated by individuals assuming batting stances or clutching gloves for imaginary pop flies the correct way, with two hands. It was a fine sight for coaches who had worked hard to give the Grass Roots experience.



One young student of the game takes a swing at a ball thrown by the pitching machine on the mound operated by Wally Davidson, a local volunteer.



A gathering of kids learn some throwing techniques from Rudy Tucci, head baseball coach at North Syracuse High School.

Family Album

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.



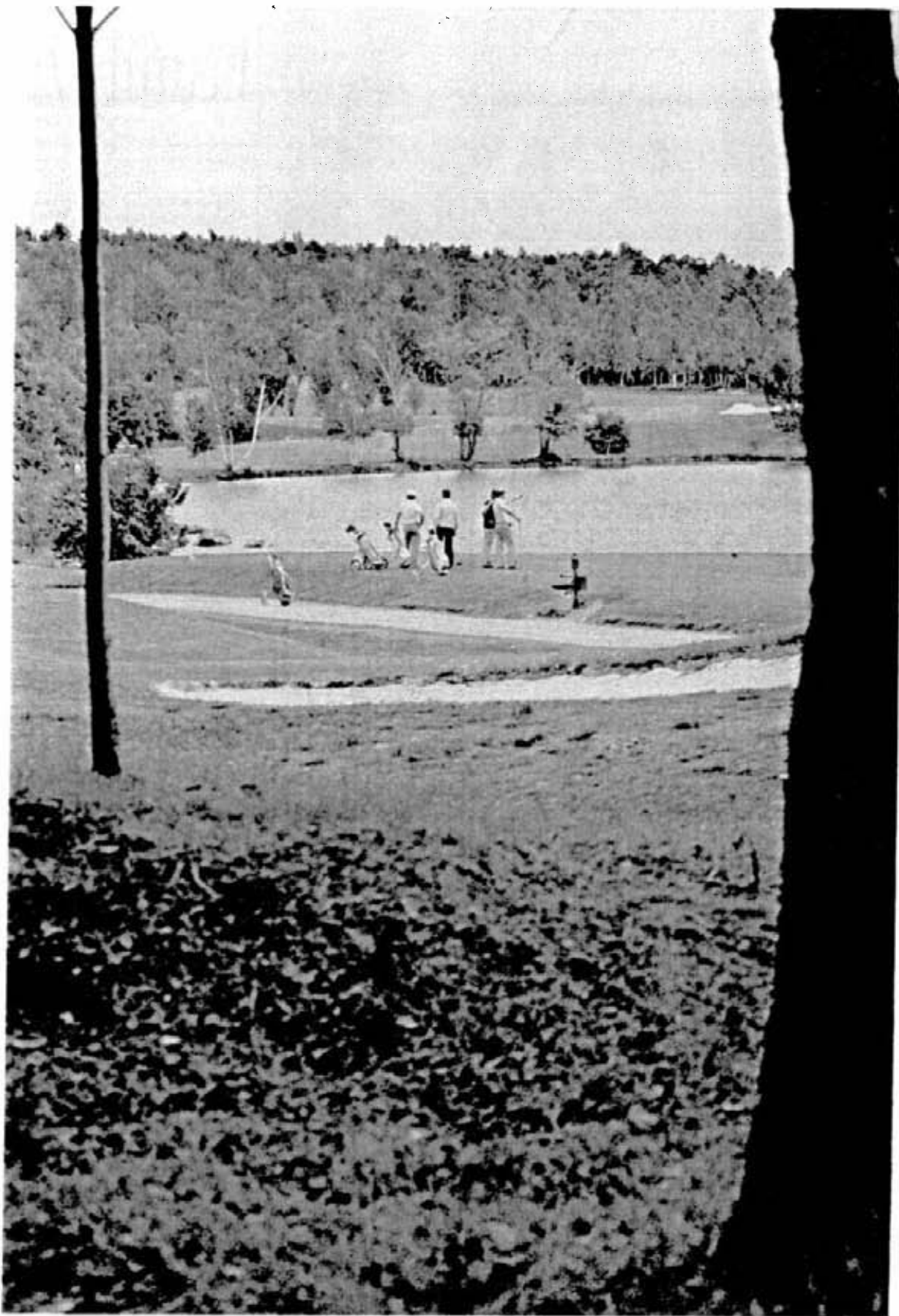
Representing the Shebandowan mining and milling complex is Drago Stojanovic and his family. Drago is a six year veteran of Inco and since his transfer from Sudbury has spent the last four years at Shebandowan as a miner. With Drago are his wife Judy, a computer programmer in Thunder Bay and son Mickey, 6, a grade one student at St. Margaret School. As outdoor enthusiasts, Drago and his family spend much of their leisure time camping and fishing in the Thunder Bay — Shebandowan area.



The George Robinson family of Levack is always on the go. George, a jumbo driller at McCreedy West mine, his wife Linda, sons Craig, 10, centre left, Curtis, 7, and daughter Pamela, 11, are tent camping enthusiasts. They spend most of their summer months roughing it in wilderness parks. This year the family plans to motor to the east coast, camping along the way. Mom and Dad love downhill skiing as does Craig, while Pam pursues dancing and gymnastics. Curtis likes to swim and play baseball. All the children attend Levack Public School.



Bob Scapillato, a 17-year veteran at the Port Colborne nickel refinery, is a clerk in the stores office. Bob is a badminton enthusiast but has been spending a lot of his spare time lately remodeling his home. His wife Selma likes to oil paint and is involved in church organizations, including duties as a Sunday school teacher. Both boys are involved in sports. Richard, 9, has started collecting coins while Michael, 8, enjoys mechanical things he can take apart and investigate. The entire family enjoys camping and they have a beautiful, new hardtop trailer which they intend to give a work out this year.



A view of the course at the Idylwyld Golf and Country Club.

35th Annual Inco Employees' Golf Tourney

Two hundred and sixty five employees teed off at the Idylwyld Golf and Country Club on June 20 in hot pursuit of elusive birdies and pars in the 35th annual Inco Employees Golf Tournament. In addition to enjoying the pleasures associated with divot digging on a sunny Saturday, players also chased one of the top twelve positions in order to

qualify for the President's Cup play-off round played next day.

For the second year in a row scores were tallied by computer. Gisele Lacelle of the computer department tabulated the scores during the tournament. The following Wednesday the top twenty net finishers and the eight low gross finishers attended a banquet in their

honour at the Copper Cliff Club where they were presented with their prizes.

The team of four and one alternate golfers will compete against the representatives of Inco from Thompson, Port Colborne and Toronto in the President's Cup Golf Tournament on August 22 at the Idylwyld Golf and Country Club.



Preparing for the tee off are from left; Albeny Boucher, service boss at Shebandowan mine, Phil Perras of safety and plant protection, Wayne Smith, safety and administration superintendent at the smelter, Arvo Vinni of the engineering department at Shebandowan mine.



Sharpening their golfing skills on the green are from left; Gary Kutschke, Mike Brosseau and Frank Pagnutti, all from the casting building at the smelter and Colan Alkenbrack from the drill fitting department at Creighton nine shaft.



Tallying up their golf scores are from left; Walter Marcolini from smelter maintenance, Leo Groulx from central mills maintenance, Stan Rogers from smelter maintenance and Rudy Toffoli from central mills training.

Top 28 Winners

* Doug Bonden	Brian Crowder
* Joe Church	John Thompson
* Sid Segsworth	Caliste Francis
** Dale Peloquin	Hurley Hreljac
* Mike Curry	Keith Rogerson
Bill Vickman	Les Groulx
Al Massey	Casey Caul
Darcey Meehan	Gary McCool
Wayne Rodney	Bill Allen
Charlie McCoy	Jim Blanchard
Graham Squirell	Rod MacDonald
Rob DiFilippo	John Gauthier
Bill Lawrie	Bob Patterson
Art Fenske	George Atwell

* President's Cup Team

** alternate

1981 Inco Scholars

Congratulations to the 1981 Inco Scholars. Of a total of 21 Inco Reserved Scholarships awarded in Canada, 17 were won by sons and daughters of Inco Ontario division employees and pensioners.

Winners are selected by a scholarship committee comprised of high school principals. Selection is based on academic excellence and personal qualifications.

Students receive the award for a maximum of four years and are not limited to choice of university or course of study. Each scholarship provides annually the cost of tuition and associated academic fees to a maximum of \$1,500 and a personal grant of \$750. The scholarship also includes a supplement of up to \$500 for the department of the university in which the student is enrolled.

In addition to the Inco Reserve Scholarship program, Inco also makes available other scholarships or bursaries for students in the Sudbury and Port Colborne areas.



Caroline Gil, of Sudbury, has decided that her future lies in either the medical or engineering professions. She graduated from Nickel District Secondary School and will be studying science at the University of Toronto this fall. Her father, Frank Gil, is a blaster at the Copper Cliff smelter. Tennis, squash and baseball are some of the pastimes she enjoys.



Gerry Eng, of Sudbury, is the son of Fred Eng, a visual aids designer in the general safety department. Gerry lists math and science, science fiction, chess, playing the guitar and physical fitness as his hobbies and interests. Now that he has graduated from Lasalle Secondary, Gerry plans to take computer science at the University of Waterloo and then become an aerospace engineer.



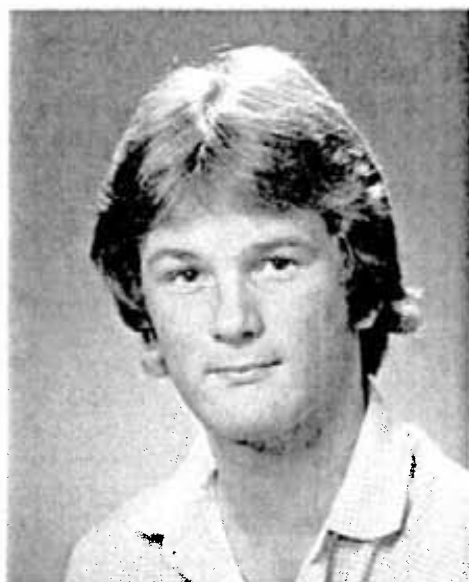
Eleanor Young, of Lively, will attend the University of Waterloo and study chemical engineering. A graduate of Lively District Secondary School, she is the daughter of Charles Young, an Inco pensioner. Eleanor plans a career in the science-technology field. She lists sailing, jogging, skiing, sewing, tennis and swimming as some of her hobbies.



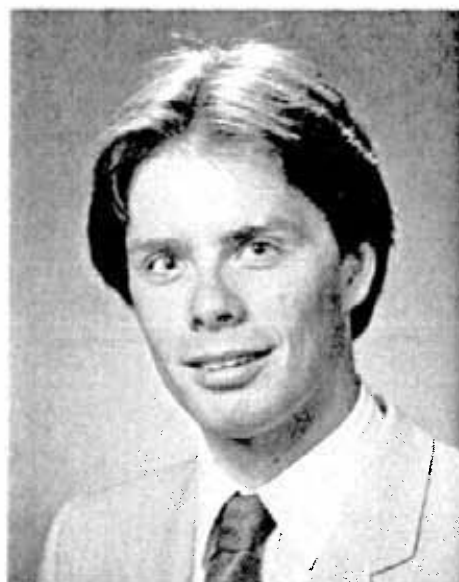
Rosemarie Schmandt, of Lively, is the daughter of Hans Schmandt, a slusherman at Creighton mine. She graduated from Lively District Secondary School and will, in the fall, be studying chemistry at Laurentian University. Rosemarie would like to become involved in hospital lab work and research. Her hobbies and interests are art, volleyball, soccer and crafts.



Diana Cooper, of Sudbury, is the step-daughter of Ernest Armitt, the assistant superintendent of engineering and maintenance for P.T. Inco in Soroako. She graduated from Bishop Strachan High School in Toronto and plans to study pharmacy at the University of Toronto. Diana's interests lean toward the musical as she enjoys playing the piano and the guitar.



Peter Jay, of Sudbury, is a graduate of Lo-Ellen Park Secondary School. He plans to take engineering sciences at the University of Toronto and then become involved in research and development, possibly in the aerospace field. Peter is the son of Frank Jay, a senior advisor in mines research. Peter's hobbies and interests include all sports, especially football, math and sciences.



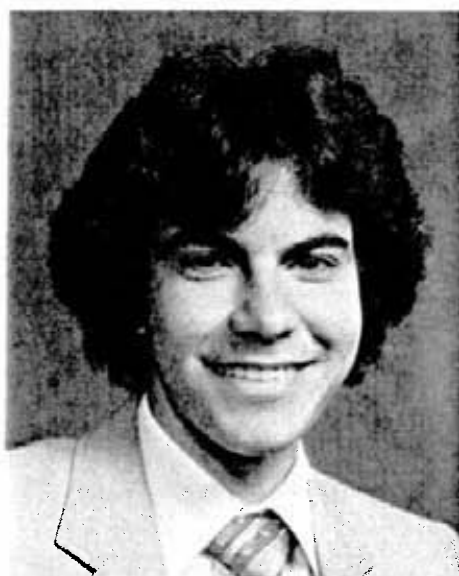
Glenn Parker, of Levack, is the son of Robert Parker, a blaster boss at McCreedy West. He intends to study engineering at McMaster University and then pursue a career in project management and cost analysis. Glenn, a graduate of Levack District High School, likes skiing, tennis and swimming.



Lynn Prior, of Lively, thinks she would like to become a medical researcher. This fall she will attend Queen's University and study chemistry. Lynn is a graduate of Lively District Secondary School. Her hobbies are playing the piano and downhill skiing. Her father, Tom Prior, is maintenance superintendent at the Copper Cliff copper refinery.



Caroline Wong, of Sudbury, is a graduate of Nickel District Secondary School. She will be studying natural sciences at the University of Western Ontario and may go on to pursue studies in medicine. Reading, card playing, art, ping-pong and badminton are some of her interests. Caroline is the daughter of George Wong, a shift engineer at the Copper Cliff smelter.



Robert Paola, is the son of Victor Paola, a plating tankman at the Port Colborne nickel refinery. Robert will attend the University of Toronto in pursuit of a degree in science with long range plans to become a meteorologist. He graduated from Centennial Secondary School in Welland and lists sports and photography as areas of interest.



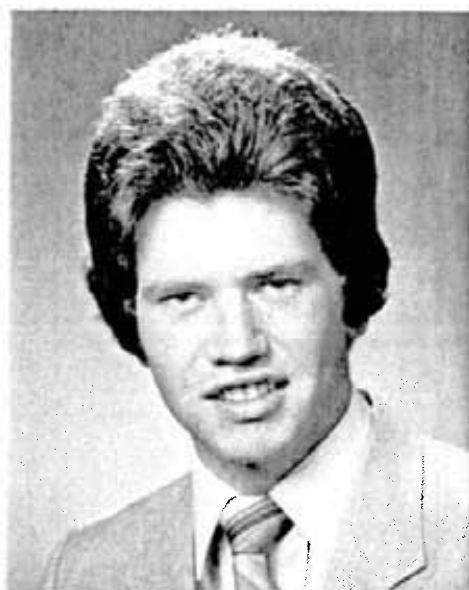
Jolanta Malicki, of Sudbury, will be studying arts at the University of Western Ontario. A graduate of Nickel District Secondary School, she is the daughter of Stan Malicki, an Inco pensioner. Law or commerce are the fields which Jolanta would like to explore for a career. Playing badminton and tennis as well as sewing and reading are her hobbies.



Karen Shook, of Hanmer, plans to attend the University of Toronto and study English literature. She is a graduate of Lester Pearson College of the Pacific. Previous to winning a scholarship to Lester Pearson College, she had spent three years at Confederation Secondary School. Karen's interests are figure skating, scuba diving, writing and travelling. She is the step-daughter of Dennis Babcock, a diesel mechanic at Little Stobie.



Beverly Church, of Sudbury, is a graduate of Lockerby Composite School. She plans to pursue an accounting degree at the University of Waterloo after which she would like to become a chartered accountant and open her own accounting firm. Reading, sewing and all sports are Beverly's hobbies. Her father, Joe Church, is regional manager of field exploration.



Edward Robb, of Lively, is a graduate of Lively District Secondary School. He plans to attend McMaster University and study computer engineering and management. He would eventually like to establish a small business setting-up and designing software for computers. Among his interests are golfing, chess, playing the guitar and listening to short-wave broadcasts. He is the son of Bob Robb, maintenance superintendent at the Frood-Stobie complex.



Peri Tate, of Sudbury, has aspirations of becoming a biologist or a scientific translator. Peri is the daughter of Rod Tate, assistant manager of mines exploration. She will be studying biology and French at either Trent or Carleton University. Peri's hobbies are cross-country skiing, dance and theatre.



Brian La Freniere, of Port Colborne, graduated from Port Colborne High School and will be attending Royal Military College to study engineering. His father Raymond, is a weiger at the Port Colborne nickel refinery. Brian would like to become a pilot or an engineer.



Hugh Dunkley, of Sudbury, would like to study systems design engineering at the University of Waterloo. A graduate of Lockerby Composite School, he is the son of pensioner Chris Dunkley. Hugh enjoys sports, particularly downhill skiing, water skiing, badminton and tennis.

Tomorrow's scientists today



Grant Downey, a St. Raphael student, explains how rocketry mechanisms work to Sudbury Science Fair publicity chairman Sylvie Lachapelle, left, and Karen Tregonning. Grant won second place in the engineering division, junior category.



Peter Toth, a St. Charles college student, explained his theories on the distillation of wood to Mirka Ziolkowski. It looks as if he's as eager as everyone else to find an alternate source of energy! His efforts won him second place in the intermediate category of the physical science division.

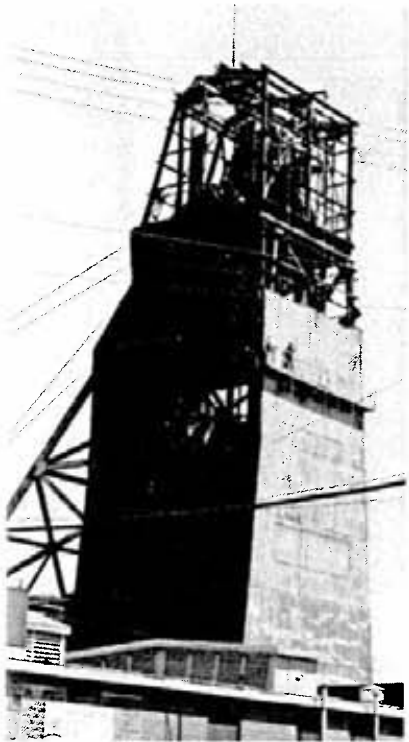
Inco Metals recently supported the Sudbury Science Fair and assisted in sending the local winners to the Canada-Wide Fair in Waterloo.

In addition, five Inco employees with knowledge in the various sciences offered their services as judges at the show, on behalf of Inco. The five Inco judges were; Jim Amson, general foreman of maintenance, matte processing; Dr. Stu Gendron from process technology; Dr. Bill Kipkie, process technologist, matte processing; Dr. George Tyroler, superintendent of process technology, Copper Cliff copper refinery; and Con Walker, administrative assistant to the manager, matte processing. The judges' job was to evaluate the science projects for scientific thought, originality, skill, dramatic value, technical explanation and presentation.

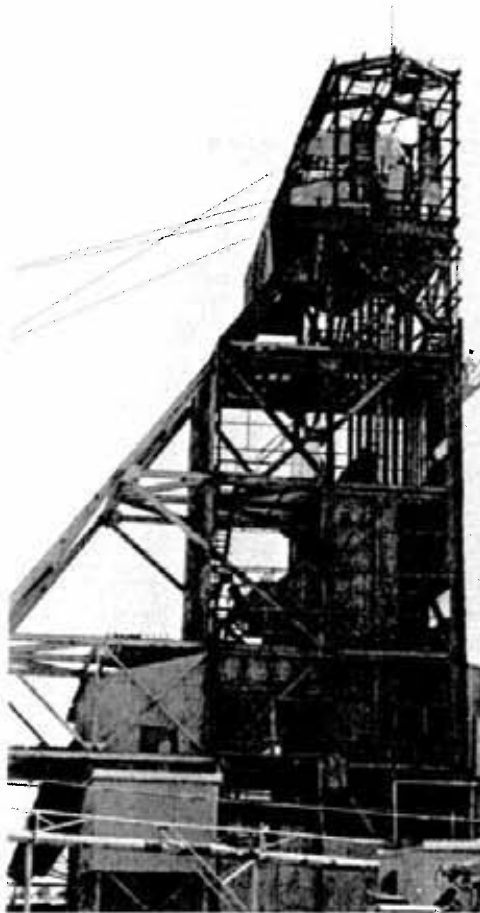


Robert Chambers, a student from Felix-Ricard, shows Paul Downey, an Inco mason, his model solar energy house and explains how this type of power may become an important energy source in the future.

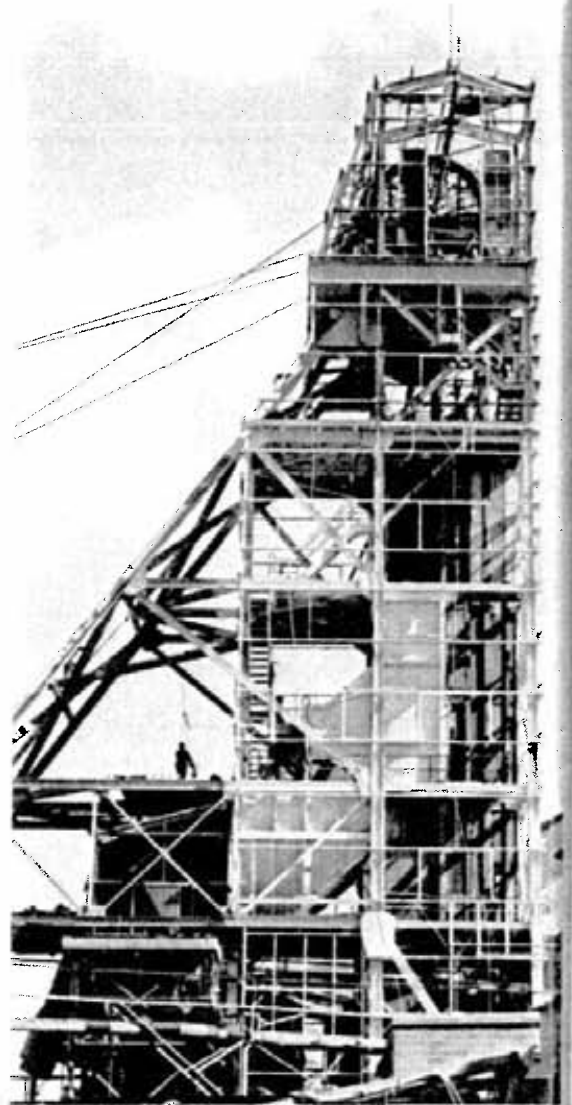
Area landmark



The old cladding being removed from the south wall of the headframe.



The west wall completely uncladded.



Painting the structural members on the west wall.

Anyone passing by the town of Garson will notice a change in one of the town's more visible landmarks. The 120-foot headframe at Inco's Garson mine has had a major facelift.

The deterioration of the original galvanized steel sheeting or cladding on the headframe required Garson mine personnel to undertake an enhancement project, according to Terry Antonioni, formerly divisional supervisor in Garson's engineering department and now mine engineer at Coleman mine. "In addition, we wanted to beautify the surface area of the mine," he explained.

The five-month facelift operation, which began last summer, involved the removal of the original cladding some 40 years old "right from the top

of the headframe down," Terry said.

Once the old cladding was off, the structural members or frame parts were water-blasted to remove the old paint. Two primer, plus one finishing coats of paint were applied to the structural members and the headframe's interior, such as the stairways, handrails, platforms, etc.

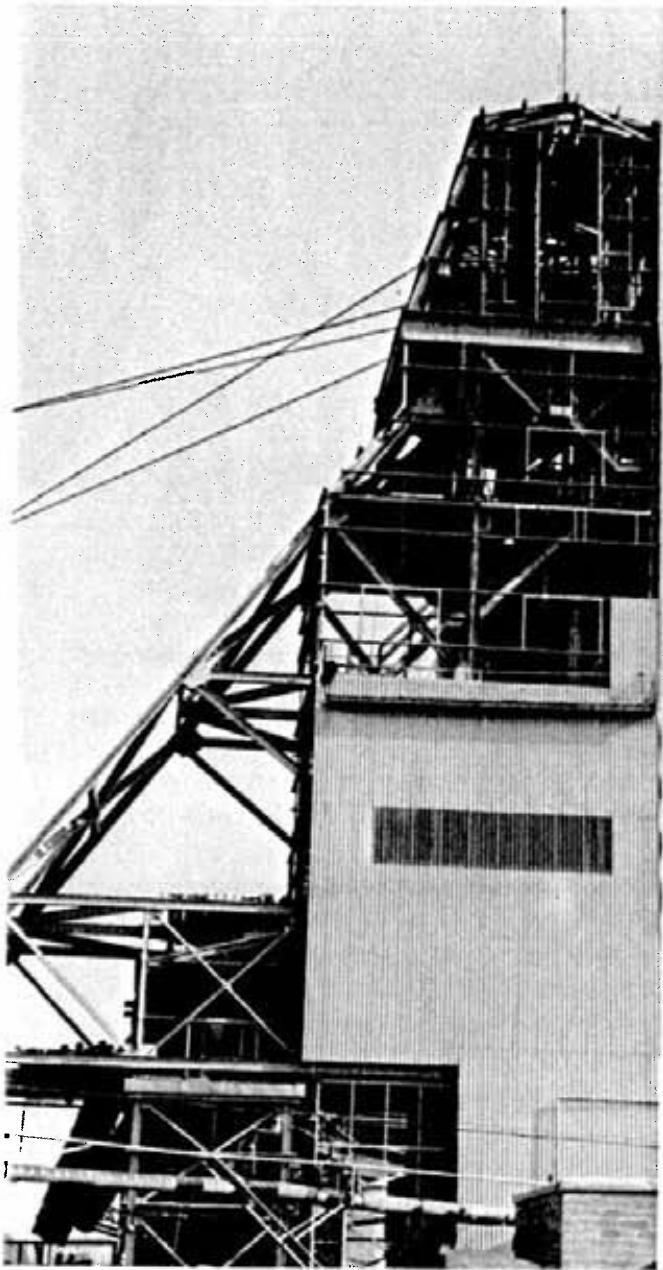
The final step of the project was the application of the steel cladding by a contracting firm. "The new cladding material is durable and

maintenance-free," Terry explained. "It also has anti-rust qualities."

As the sheeting went up, so did window-like translucent panels on the headframe walls. They were installed, Terry added, "to allow more natural light into the headframe."

Along with Gerry Mulligan, a planner in the engineering department, Terry worked closely with the other departments responsible for the recladding project: Garson mine engineering,

gets a facelift



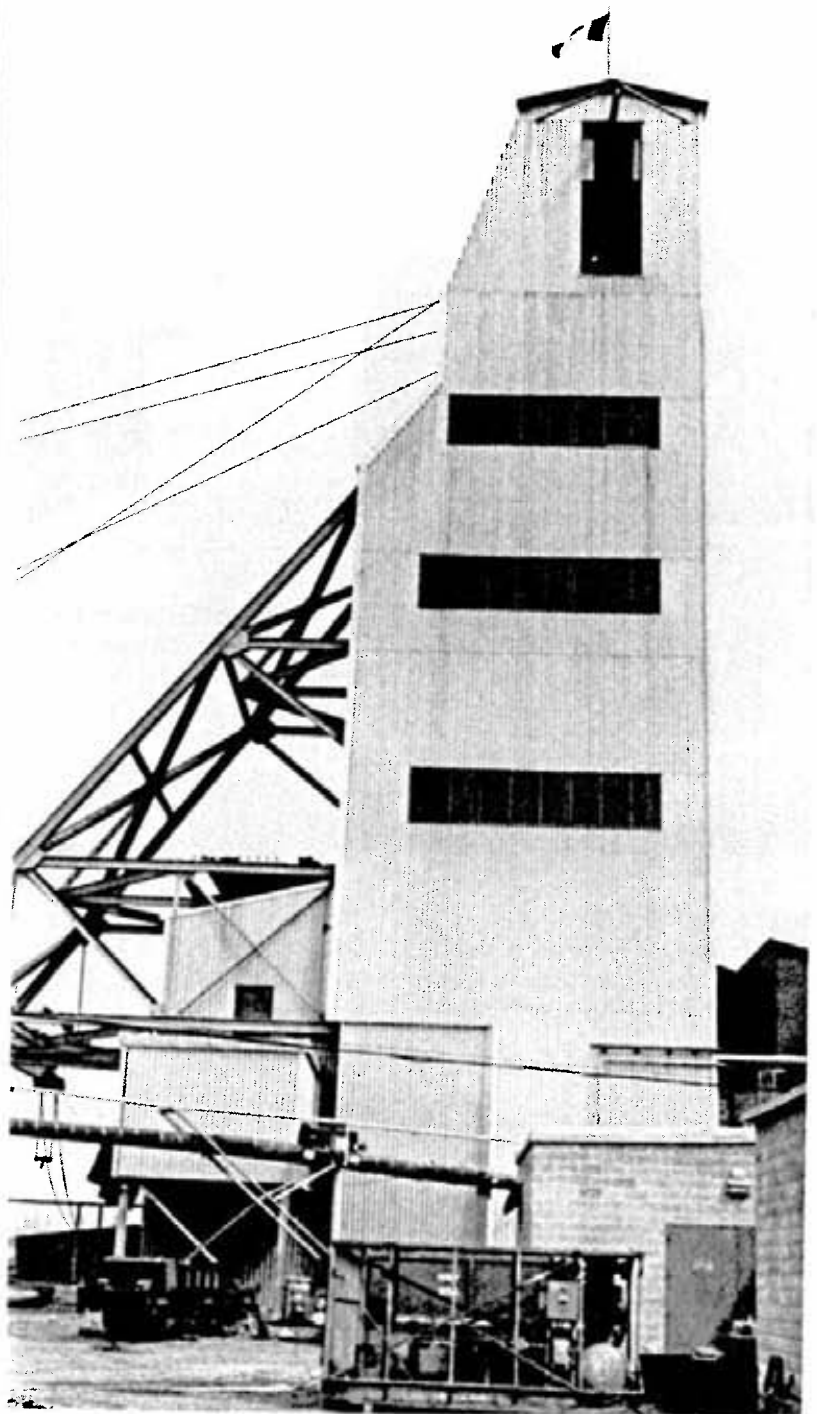
Stainless steel cladding going up.

maintenance, operating and safety, the contracting firm as well as the central maintenance engineering department in Copper Cliff.

"We were working on an integral part of the mining operations," Terry said. "We were able to fit this operation in around mine production

which was not affected."

The recladding project went smoothly and safely with few minor



A successfully completed facelift operation.

problems, according to Terry. "It was one big co-operative effort by all departments involved."



Bob Boyer



WIS
SHO

The Sudbury and District Historical Society's sixth annual Show and Tell was held earlier this year at St. Andrew's Place. Over 300 people attended the affair which featured exhibits of artifacts, collectables and

memorabilia by local individuals and organizations.

The Show and Tell provided visitors with a chance to examine a whole spectrum of historical data ranging from a huge bottle collection to skulls



Richard Jacobs, left, and Paul Eckhoff, both of central maintenance, are shown here with part of Richard's vast bottle collection.

TORICAL SOCIETY W AND TELL

and bones dug up by the Laurentian University archaeology department.

Show and Tell co-ordinator Bob Boudignon, a co-ordinator in accounts payable, points out that the exhibition gives local history buffs an

opportunity to meet with people of similar interests. The exchange of ideas and information that inevitably takes place is one of most appreciated aspects of the Show and Tell.



Some visitors marvel at the many bells that Reuben Phillips, right, an Inco pensioner, has collected over the years.



Mickey Boyer

PEOPLE



This crew at Levack mine has recently completed six months without a medical aid. They are, front from left, **Les Walsh, Ron "Red" Bradley**, mine foreman, **Steve Campbell, Kevin Sexton, Tony Dwyer**, mine foreman. Back, from left, **Moe Rochon, Eugene Godit, Roger Tournegny, Steve Dow, Denis Slyvanne.**



The underground crew at the 7,000 foot level at Creighton nine shaft are a proud bunch of guys and so they should be. They've gone one year without a medical aid injury. They are, back row from left; **Gerry Sander, Bert Morrison, Darryl Adams, Dennis McQuarrie, Boyce Oake, Ron Fahey**; front from left; safety foreman **Danny Lavigne, Jack Hansen, Glenn Crawford, Ed Dumais, Doug Orford**, foreman **Lorne Hamm.**



Since the company's new Records Centre was opened, thousands of documents have flowed into it from Inco archives at various locations. **Bob Boudignon**, accounts payable co-ordinator, has undertaken a special assignment in Public Affairs to research, compile and catalogue historical information concerning the company's Sudbury and District operations from the thousands of documents that have arrived. Working closely with the Records Centre department, Bob will also co-ordinate requests for historical information that the company is receiving from the academic community and the public. Here Bob surveys one of hundreds of file boxes for information on Inco's past. Bob has had a long association with the Sudbury and District Historical Society.

PEOPLE



John Rickaby, superintendent of central services in the safety department, recently received an award of appreciation from the National Safety Council for his contribution of time and knowledge when he served last year as General Chairman for the council. It was John's job to coordinate eight sub-committees, including a mining committee dedicated to promoting safety and accident prevention. The award was presented to John, left, by this year's General Chairman, **Wesley Johnson**, at the National Safety Congress in Chicago.



Early in June, 75 Beavers from throughout the Sudbury district invaded Nickel Park in Copper Cliff for their annual Fun Day. Wearing Indian head-dresses and war paint, the youngsters enjoyed a day of games and contests supervised by parents and Venturers. One of the lads' favourite games was a combination of jai-lai and soccer that, as is shown in the photo, inspired some hot and heavy competition.



At the invitation of the counselling department at Notre Dame College, representatives from Inco Metals visited the school during its Career Week to make presentations in French on careers in the mining industry to grades nine to 13. The presentations included the company's hiring procedures, apprenticeship and training programs, followed by a question and answer period and the distribution of Inco information kits. Inco representatives **Colette Malvaso** of public affairs, left, and **Gerry Dinell** of safety and plant protection, right, discuss the contents of the information kits with students **Paul Bedard**, centre left, and **Luc Roy**.

PEOPLE



Recently third year mining and mineral processing students from Queen's University visited Inco's Sudbury operations to get a first hand look at the practical side of mining. Here company officials and students discuss a paper given on mining equipment. From left, are, student **John Takerer**, **Charles Lush**, formerly superintendent Clarabelle Mill, **Claudio Barsotti**, manager of mines research, and students **Jim MacDonald**, and **Mike Hogan**.



Environmental control analyst **Mary Buchanan** visited Naughton Public School to make a slide presentation on acid precipitation at the school's request to grades four to six. Prior to the presentation, Mary displayed an Inco information kit to students from left, **Stephen Koop**, **Tanja Mergard**, **Jamie Peroff** and **Liisa Bucknell**.



A pair of grade 8 students from MacLeod Public School distinguished themselves by winning top honours in the junior physical science section of the Canada Wide Science Fair held in Waterloo in June. **Kathryn Tate** and **Chris Crowe**, both 14, won gold medals, a set of Popular Science books and a \$200 award of merit for their project on the magnus effect and its applications to ocean travel. They illustrated the magnus effect with a model ship mounted with a cylinder that catches the wind forming a low pressure area on the stern side propelling the cylinder and the ship in a forward direction. Chris is the son of **Patrick Crowe**, a shift foreman at the Iron Ore Recovery Plant.



Inco's agriculturist Tom Peters explains the treeplanting procedure to students and teachers.



Heather Buchanan, a summer student with the agricultural department, prepares the tree for planting while students add top soil to the hole.

Agriculture department assists in tree planting

At the request of St. James elementary school in Lively, members of Inco's agricultural department assisted in the planting of silver maple trees on the school's grounds. Inco gave guidance in staking, planting and watering the trees, the town of Walden recreation department supplied the top soil while the school itself supplied the trees.

Some 260 pupils, from junior kindergarten to grade six, had a hand in planting the trees. One tree was allotted to each class. Once the tree was in the ground, students christened it with a name. One tree was unanimously called High-ho Inco.

Prior to the treeplanting, Inco's agriculturist Tom Peters discussed the significance of the event with the students in the school.

Sister Madelaine Rochon, principal of the school, said it was a beautification project for the students. "We wanted to make the school grounds more attractive," she explained. "By beautifying the school, we are in turn beautifying the town.

"The students have learned to take care of the trees and to respect them, making sure that no one abuses them or the school grounds.

In turn, they respect other people's property. If we learn to take care of things now, our world will be a more beautiful place in which to live."

In the future, Sister Madelaine added, the students can look back and say they had a hand in beautifying their school.



Junior kindergarten students and their teacher had a turn watering their silver maple while Jim Savage from Inco's agricultural department helped to supply the water.



Jim Seuss — \$675



Richard Lindenbach — \$670



George Pari — \$490

Hot suggestions pay off with cool cash

MAJOR WINNERS

- \$1,385** **Ron Tranchemontagne** of **McCreedy West mine** earned this month's top suggestion award for his idea to have the drill cylinder slides on two-boom uphole drill jumbos rebuilt rather than replaced by new ones. As a result, all the drill cylinder slides that can be rebuilt are now done at a considerable cost saving.
- \$855** **Harvey Reid** at the **copper refinery** suggested making use of the original stamping machine at the number three conveyor system. Harvey's suggestion eliminated the manual stamping of copper wirebars when the press had to be by-passed. As a result of his idea, savings have been made on manpower.
- \$695** **James Suess** at the **Port Colborne nickel refinery** came up with the idea to eliminate a bearing adapter for inboard bearings on Durco pumps. By pressing the bearing directly to the shaft, the inboard bearing adapter, woodruff key in the shaft and clips were eliminated and the machining time for the adapter saved.
- \$670** The idea to install smaller exhaust hoses on air slushers underground netted **Richard Lindenbach** at **Frood mine** a healthy suggestion award. The smaller tubing was less expensive, easier to handle and replace, than the original tubing.
- \$490** At the **divisional shops**, **George Parri** came up with the idea to replace roller ball bearing guides in the magnus cleaning tanks with straight teflon bearings. The teflon rollers proved to last longer. Savings were made on material and labor.

- \$225** **John Boggio** at the **Port Colborne nickel refinery** made the suggestion to use a hand tightener connector and a Hansen connector for portable propane heaters to permit an easy connection and eliminate damage and loss.
- \$175** At the same location, **Bill Reich** submitted a suggestion to use open wedge sockets instead of cable clips to attach hooks to cables for car pullers. The sockets were easier to install, more secure and were reusable.
- \$165** At the **Clarabelle mill**, **Ron Garbett** and **Bruce Kutchaw** shared \$165 for their suggestion to replace variacts with solid state triact circuits on the ARL analyzer. The triact circuits proved to be more stable and easier to adjust. They required little servicing and circuit parts were less expensive.
- \$150** Track switch boxes prone to assembly errors and often needing repairs and sometimes complete reconstruction prompted **George Prusila** at **Frood mine** to suggest that self-aligning switch boxes be fabricated. The new switch boxes reduced the possibility of error, required less cost and fewer parts to construct and maintain.
- \$150** **Richard Lindenbach** won a second suggestion award this month for his idea to set up a tank on the amex loader for sandblasting small equipment. The cost of a tank was less than the cost of renting it. The tank was available when needed.
- \$150** At **Garson mine**, **Arthur Reid** devised a way to modify a timber truck to handle reconditioned drills. The suggestion allows for a neater, more uniform placement of drills on the truck. It also contributed to a safe working environment since pinch points were eliminated when the drills were removed.
- \$150** **Ray McKerral** at **Garson mine** thought up the idea to relocate the rear lights on Mack tandum trucks to prevent light damage when they were backing up near sand piles and rock piles. As a result, fewer repairs were needed; savings were made on parts and labor.
- \$150** At **McCreedy West mine**, **Fabian Harnett** and **Michel Blais** split \$150 for their suggestion to make smaller sized pallets for wood washers. The smaller pallets alleviated a handling problem.
- \$150** **Gaetano Bonfiglio** and **Marvin Kiely** at **Shebandowan mine** shared a \$150 award for their suggestion to bolt a steel plate on top of the sider plates in underground chutes. The suggestion proved effective in reducing potentially hazardous spills. The spills were also damaging chute arms, resulting in repair costs. These have been reduced.
- \$150** The notion to install a swing boom on the roof of number one oxygen plant netted **Leo Leblanc** at **central utilities** \$150. The swing boom was already on site having been salvaged from the original oxygen plant. Costs for renting a mobile crane were eliminated and a boom was readily available.
- \$150** At the **copper refinery**, **Bryan Wolfgram** suggested using kilowatt meters with alarm set points rather than amp meters on the bucket elevators. The kilowatt meters have reduced the number of spills in that area.
- \$130** **Jean Leduc** at **Frood mine** noted that the original operator's stand for Eimco loaders had to be removed for transportation and often fell off while in use. Jean suggested that a folding stand be designed and fabricated on the machine so it can't slip off and doesn't have to be removed for transportation. The suggestion improved safety conditions for the operator.
- \$120** The original sample lines to release pressure in the oxygen pumps at the oxygen plant were not large enough, noted **Bill Leach** at **central utilities**, so he submitted a suggestion to install a one inch vent line to purge liquid from the oxygen pumps. The suggestion prevented delays in starting up the pumps and allowed for quicker cooling of the pumps.
- \$100** At the **Iron Ore Recovery Plant**, **Reg Park** noticed that the wash separator pumps often clogged up with debris so he suggested that screens be installed on the pumps. As a result, cleaning time has been reduced.
- \$100** **Don McBain** at the **smelter** made the suggestion to install a cement retaining wall at number seven pit. The wall prevented debris from coming in contact with usable track, making it a safer and cleaner area in which to work.

