



The Trough

MARCH 1977

The Triangle

Editor,

Rudolph Kneer

Paul Derro, Writer-Photographer

Peter vom Scheidt, Writer-Photographer



On the cover . . .

A moment of peace, and the crystal beauty of a February day is captured on celluloid for our cover. The icy boundaries of winter's frozen grip display their symmetry in a sunbath of light following the cold touch of mid-winter sleet. Soon the grip will lessen in strength as the sunlight takes its toll, and the glacial gloss exits into spring. The reign is glorious, however temporary, and the ice palaces that make their stand, like this one not far from Lively, can be found a walk away.

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Victors of the men's slalom competition mounted the podium to accept their awards, following the second leg of the Inco Cup, held in mid-February at Mont Kanasuta in Rouyn. Jack Eldridge, right, technical director of the Rouyn meet, and a chemist at the Copper Cliff copper refinery, presented the medals. This event saw Ed Eibl of Sudbury capturing the gold, Paul Girolametto, also of Sudbury, winning the silver, and Kevin Cox, of North Bay, taking home the bronze medal. Ski racers from across Northern Ontario also met in Sudbury soon after to engage in the third Inco Cup competition. The final meet is scheduled for mid-March and will take place in Sault Ste. Marie.

Appointments

Michael Barrette, audio visual aids technician, personnel, Sudbury.

James Bellisle, maintenance foreman, Levack mill.

Ray Campbell, dewatering foreman, Copper Cliff mill.

Alfred Cevraini, controller, maintenance field force.

Chris Cobbledick, planner, mines engineering, Little Stobie mine.

William Conley, surveyor, mines engineering, Creighton mine.

Dan Cuomo, maintenance foreman, Levack mine.

Dennis Dmytrow, maintenance general foreman, Levack mill.

Robert Johnson, assistant to mill superintendent, Levack mill.

Margaret MacLean, accounts pay clerk, Copper Cliff.

Wilhard Maenpaa, mine foreman, Crean Hill mine.

Raimo Majuri, surveyor, mines engineering, Garson mine.

Percy Morrison, ventilation assistant, Creighton mine.

Barry Nicholson, mine engineer, Levack West mine.

Francis Paradis, safety foreman, Crean Hill mine.

Donald Pierce, general foreman safety, Copper Cliff.

Gerald Tarnopolsky, mine foreman, Copper Cliff North mine.

Denise Taylor, clerk-stenographer, Port Colborne nickel refinery.

Sadiq Zaidi, mine engineer, Little Stobie mine.

Egon Zohar, programmer analyst, computer systems, Copper Cliff.

Inco Announces Additional Scholarships

Ron Taylor, president of Inco Limited, Ontario Division, has announced the establishment of two additional Inco Limited Continuation Scholarships and four In-Course Annual Scholarships for students at Sudbury's Laurentian University.

Valued at \$10,000 over a maximum of four years, the INCO LIMITED BILINGUAL SCHOLARSHIP has been established to encourage students to continue their education in a bilingual university undergraduate degree program. The scholarship will be awarded to a full-time, first-year student entering any degree program, and who has achieved conspicuously high first-class academic

standing (85% or better) with six credits in Ontario Grade XIII or equivalent, including a minimum of one course per year in French if the student's courses are taken primarily in the English language, or one course per year in English if courses are taken primarily in the French language.

An additional four INCO LIMITED BILINGUAL SCHOLARSHIPS, valued at \$750 each, will be awarded annually to a full-time student in each of the four faculties (Humanities, Social Sciences, Science and Professional Schools) entering second, third and fourth year of an undergraduate degree program.

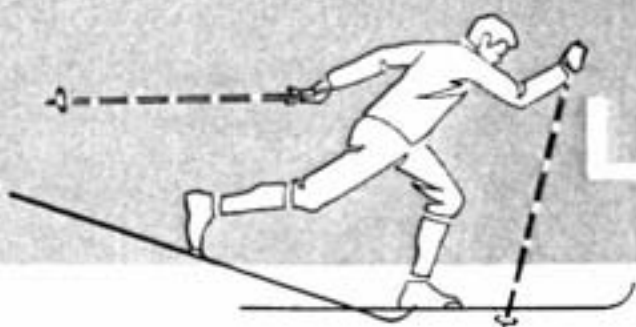
An additional scholarship, THE INCO

LIMITED MINING OR MINERAL PROCESSING SCHOLARSHIP, will be awarded annually to a first-year, full-time student entering the School of Engineering and planning to follow an undergraduate degree program in Mining and Mineral Processing. To be considered, the recipient will be required to have achieved an average of 80% or better with six credits in Ontario Grade XIII or equivalent. To maintain this scholarship in subsequent years of the undergraduate program, the student will be required to maintain a 75% average or better. The value of the scholarship will include tuition fees and a \$500 stipend for the student.



Ron Taylor, president of Inco Limited, Ontario Division, met with Laurentian University officials to announce the establishment of six additional Inco scholarships. Discussing the scholarships are, from left, Professor Rev. Allaire, vice-president of academic studies for Laurentian; Roman Woloszczuk, students' awards officer and chairman of the senate committee for undergraduate awards; Dr. B. M. Best, who will assume the title of president of Laurentian on July 1; Ontario Division president Ron Taylor; Dr. Edward Monahan, president of Laurentian; and Mel Young, assistant to Inco's Ontario Division president, and administrator for university and school awards.

INCO



LOPPET



Cross-country skiers, young and old, off to a good start.



Applying the proper wax combination helped on the long run.

the best ever, with 565 entrants

An excellent turnout was recorded for the second annual Inco Loppet, held February 13 at the Voima Athletic Club on Sunnyside Road in Sudbury, with 565 skiing enthusiasts entering this year's event. Unfortunately, the weatherman didn't co-operate, and for the first time this winter, the temperature was well above the freezing mark, making snow conditions very difficult for skiing.

Heaps of steaming pancakes and sausages, smothered in maple syrup, disappeared at a rapid rate during the early morning pancake breakfast as all skiers fortified themselves for the task ahead.

Because of the extremely warm weather, proper waxing was very important. Too hard a wax, and the skis would backslip — too soft a wax, and you might as well be on snowshoes. If you were fortunate enough to hit the right combination of wax, the skiing excursion was both pleasant and wholesome.

Entrants came from all age groups, with varying degrees of skiing ability. One couple, who had never skied before, came from as far away as San Francisco, just proving that you don't have to be an expert at cross-country skiing to have a good time.

All entrants completing the course received a certificate, noting their time and distance. They were also given official Inco Loppet buttons.



Earl Hanna is the mine geologist at Creighton mine. He and his wife Joanne are raising three children, Wayne, 10, Bruce, 14, and Beth, 16. Pictured with them is "Gus", their pet dog. Summer months are spent at the family's camp on Lo'Hie Lake.



This is the Macoretta family from Port Colborne. Peter and Rena are raising two children, David, 7, and Sandy, 4. Peter works in the electrical department of the nickel refinery and enjoys woodworking and golf in his spare time.

Family Album



Meet the Bob Shaw family from Sudbury. Bob is assistant to the superintendent at the Clarabelle mill and he and his wife Karen are very proud of their three children, from left, Diana, 1, Dara, 4, and Debbie. Bob is active in numerous community affairs.



Meet the Bill O'Riordan family, from Burlington. Bill and his wife Lorraine have two fine children, Dominique, 9, and Jamie, 4. The proud father is supervisor of recruitment and benefits, Inco Limited, Toronto office. Photography and gardening are Bill's hobbies.



His Excellency, Giorgio Smoquina, the Italian Ambassador to Canada, and his guests examine an assay print-out at the Clarabelle mill control room. Hilton Fowler, right, Inco's manager of central mills, explains the results to, from left, Dr. Roberto Grosso, Dr. Luigi Menichini, Mr. Giorgio Smoquina and Dr. Guido Nicosia.

Italian ambassador visits Inco



Mel Young, assistant to the president of Inco's Ontario Division, welcomed the ambassador. Chatting prior to lunch at the Copper Cliff club, are, from left, Dr. Luigi Menichini, Mel Young, Giorgio Smoquina, and Dr. Guido Nicosia.

Hilton Fowler, left, explains how different operations in the Clarabelle mill are monitored by remote control television. Giorgio Smoquina, the Italian Ambassador, was extremely impressed with the sophisticated equipment in the Clarabelle mill control room.



His Excellency, Giorgio Smoquina, the Italian Ambassador to Canada, recently visited the Sudbury area and took time out from his busy schedule to tour Inco facilities.

The ambassador was accompanied by the Italian Consul General, Dr. Guido Nicosia, the Italian Trade Commissioner, Dr. Luigi Menichini, and Dr. Roberto Grosso, from Sudbury. Dr. Grosso is the newly appointed vice-consul of Italy for the Sudbury and North Bay regions.

The Ambassador and guests made two stops on their Inco tour; one at Copper Cliff North mine, where modern hoisting equipment was observed, and the other at the control room of the Clarabelle mill. At both places the visitors remarked on the impressive array of technology that is present in modern day mining operations. They also talked briefly with Inco employees with an Italian heritage, and commended them on the contribution these people have made to both Inco and Sudbury.

A brief luncheon followed at the Copper Cliff Club where the guests were officially welcomed by Mel Young, the assistant to the president of Inco Limited, Ontario Division.

Nancy Newburn Chosen As Carnival Queen

The motorcycles were tuned to perfection, the skis were waxed, and the rocks in the steambath were steaming hot, ready for the Sudbury winter carnival. Tom Flanagan would have been proud to see the thousands of Sudbury citizens taking part in Flanagan's Fair, the young and promising celebration with a future as bright as the city that sponsored it.

The events catered to every taste, from the gruelling test of a 30-kilometer cross-country ski run to the sleigh rides for the kids. Participants were dropping out of the sky, diving below the ice and wrist-wrestling the thick-armed locals, all in the spirit of the North.



The crowning of Miss Teen Sudbury, Carnival Queen of Flanagan's Fair, held a special appeal this year with the selection of Nancy Jane Newburn, 15, of Copper Cliff, daughter of Tom Newburn, assistant division comptroller of Inco Limited, Ontario Division. From left, carnival princess Francine Rivet, Nancy Jane Newburn, Cathy Ross, Sudbury's 1976 Miss Teen Sudbury, and princess Cheryl Destrochers.



A snow-ploughed lake makes a perfect surface for "Flat Track" type racing, allowing riders to race around tracks at unbelievable speeds. Some of the best Canadian ice racers competed at the Carnival grounds.

Organizers of Flanagan's Fair were justly proud of the most successful festivities. All events were well received, and none fell through, except, of course, this piece of heavy equipment.



The Minnow Lake Lions Polar Bear Dip proved to be one of the most popular events for the spectators. The offer was open for anyone who cared to join in the fun, with most fair-goers preferring to stand by and watch.

The Carnival Queen and her two princesses met many area residents during the Flanagan's Fair festivities, taking time to talk with each one, including these three popular characters from a local restaurant.



Thunder Bay Media Tours Shebandowan Mining And Milling Complex



Community television reporter Jan Burns tries her hand at operating a jackleg drill, watched by Shebandowan mine superintendent Bill Anderson.

Photographers and reporters inspect a loaded scooptram, operated by Leonard Allary on the 1,000-foot level.



Representatives of three Thunder Bay television stations and two local daily newspapers recently toured the Shebandowan mining and milling complex. Following a short briefing session and an extensive tour of the mill and tailings pond area, the visitors donned coveralls, boots, safety belt, hat, light and safety glasses.

Descending to below the 2,000-foot level at the rate of some 1,600 feet per minute may be old hat to thousands of Inco employees, and the trip is made shift after shift in a "ho-hum" manner. However, when cage passengers include six first-timers — two of them women — comments and facial expression are something to witness. It is interesting to note that, on the first leg of the cage's descent to the 1,000-foot level, one female reporter refused to open her eyes until the cage stopped.

As the tour progressed, led by mine superintendent Bill Anderson, the group began to relax and feel more at home. Visitors interviewed drillers — even taking a hand themselves at one of the drills — and visited an underground maintenance depot and lunchroom. Following a trip further downward to the 2,080-foot level for a view of the crusher, the media representatives returned to surface, one reporter still refusing to open her eyes while the cage was moving.

Purpose of the tour was to make Thunder Bay area media more aware of the environmentally-sound presence of Inco's Shebandowan operations and to give the district citizens, through the media, a closer look at an operation carried out by the more than 300 Incoites who are their neighbors.

Reporter Paul Fox, left, displays a keen interest in an ore sample, held by assistant mine engineer Frank Reynolds.



Ian McDougall Elected Inco Senior Vice-President Assumes Corporate Responsibility For Finance

Ian McDougall, Comptroller of Inco Limited since April 1973, was elected a Senior Vice-President of Inco Limited, effective February 7, it was announced by L. Edward Grubb, Chairman and Chief Officer. As Senior Vice-President, Mr. McDougall assumes the corporate responsibility for finance, which was formerly held by Charles F. Baird, the Company's Vice-Chairman. Mr. McDougall joined Inco in 1947. Inco's Board of Directors also elected Harold R. Hiser, Comptroller, succeeding Mr. McDougall. Mr. Hiser joined Inco in 1965 and had been Treasurer of the Company since April 1972. Robert T. deGavre was elected Treasurer, succeeding Mr. Hiser. Mr. deGavre joined Inco in 1972 and had been Assistant Treasurer since April 1976.



Ian McDougall

Mr. McDougall served as Assistant to the Comptroller of Inco's U.S. subsidiary, Inco United States Inc., from 1962 until 1966. In that year, he was named Assistant Comptroller of the U.S. subsidiary, becoming in addition, in 1968, Assistant Comptroller of the parent Company. Immediately prior to his election as Comptroller of Inco Limited in April 1973, Mr. McDougall had been Vice-President, Comptroller and Chief Financial Officer of Inco United States Inc.

Mr. McDougall received a Bachelor of Business Administration degree from Pace University in 1954, and a Master of Science degree from Columbia University in 1958. He is a member of the Financial Executives Institute, Pace University President's Advisory Council, the Accounting Committee of the American Mining Congress, and a Director of The Toronto-Dominion Bank Trust Company. Born in Hamilton, Scotland, Mr. McDougall is married to the former Janet Elvira Nielsen. They have three children and reside in Lynbrook, New York.



Harold R. Hiser, Jr.

Prior to his election as Treasurer of the parent Company in 1972, Mr. Hiser was Treasurer of the United Kingdom subsidiary, Inco Europe Limited, for four years (1967-1971). He had also been Assistant Treasurer of the parent company from 1966 to 1972. He served, as well, for a time as Assistant Treasurer of the U.S. subsidiary, Inco United States, Inc.

Before joining Inco, Mr. Hiser was Vice-President of Science Capital Corporation, a venture capital firm in Philadelphia. Mr. Hiser received his Bachelor of Science degree in engineering from Princeton University in 1955. He is a member of the New York Society of Security Analysts and the Society of Investment Analysts (London).

Born in Decatur, Illinois, Mr. Hiser is married to the former Marguerite L. West. They have three children and reside in Ridgewood, New Jersey.



Robert T. deGavre

Mr. deGavre's first position with Inco Limited was as Area Finance Manager in the Office of the Treasurer. He became Manager, Project Finance in June 1975. Mr. deGavre joined Inco from the Exxon Corporation where he held financial positions in several subsidiary companies during the period from August 1968 until February 1972.

Mr. deGavre was an officer in the U.S. Navy Submarine Service from 1962 to 1968.

He is a graduate of Princeton University, where he earned a Bachelor of Arts degree in International Affairs in 1962.

He was elected to Phi Beta Kappa in his senior year at Princeton. He has a degree from Pau University, Pau, France, where he majored in French, and a Master of Public Administration degree from the Woodrow Wilson School, Princeton University, where he majored in International Economics.

Born in Oxford, England, Mr. deGavre is married to the former Angela Hulse. They have two children and reside in Hopewell, New Jersey.



After the storm had vented its fury, the Port Colborne area was turned into a winter wonderland.

Port Colborne's Winter of '77

One of the worst winter storms in the history of the Niagara Peninsula swooped down with a mighty fury and brought normal activities in Port Colborne and other area municipalities to a sudden halt. Striking almost without warning, the storm hit with snow and winds gusting to nearly 80 m.p.h. at its peak, causing poor or zero visibility and heavy drifting.

Travel in the area was impossible on anything other than snowmobiles, and often high, steep drifts made it difficult for them also. Many motorists were forced to abandon their vehicles and seek shelter in nearby homes. It was reported that several motorists, stranded in remote areas, were trapped in their automobiles for nearly 24 hours. Others, marooned in their homes for the entire length of the storm, ran short of food and other supplies. Nearly 1,500 school children and teachers in the storm area were stranded in schools. Some homes and at least one school were without electrical power for many hours as a result of hydro trucks being unable to reach the trouble spots.

Radio stations in the area stopped regular programs to take calls for assistance and relay them to those willing to help. Emergency centres were set up in Port Colborne City Hall and at the Division Street fire hall in Welland. Equipped with emergency phone lines and citizen band radios, volunteer snowmobiles were dispatched with food and other supplies to those in need.

All municipalities in the southern part of the Niagara Peninsula declared states of emergency and Armed Forces personnel were sent into the area. The Ministry of Transportation and Communications sent removal equipment to

make an attempt at opening the highways and main streets in the towns; however, the move proved to be futile until the storm subsided. Equipment came from as far away as Owen Sound.

Adding to the problem were the record cold temperatures, freezing water pipes in homes, causing many to rupture. Many residents left their water taps running in order to prevent freeze-ups, resulting in a lower than normal water reserve in Port Colborne.

Four days after it began, the storm finally subsided, revealing a winter wonderland of snow, with many homes nearly completely buried, or branches sagging under the weight of the snow. Many familiar landmarks were completely covered by giant snow drifts, up to 40 feet high. Drifts 15 and 20 feet high were a common sight.

With the help of six extra snow plows and two large snow-blowers from the Ministry of Transportation and Communications, streets in the urban area of Port Colborne were soon opened to traffic. In the rural areas, drifts were much higher, and wind-driven snow was packed very hard, making it difficult for the snow-blowers to clear the roads. After breaking down several times, large front-end loaders were brought in to break through the drifts.

Many people were trapped inside their homes for five days, not leaving until rescue workers removed snow from doors and windows. Several industries donated equipment and manpower to aid in the rescue work and to help individuals salvage personal property. Thirty workers from the Port Colborne nickel refinery were sent to the hard hit Long Beach area in Wainfleet Township.



Brian Scott, left, and Allan Dagenais clean off the walk, while Larry Virag shovels snow from inside.



The owner of this house wasn't at home when the storm struck. The gale-force winds broke this window, and snow filled the house.



Cleanup operations in the city of Port Colborne were carried out around the clock, with special equipment imported from as far away as Owen Sound. This is a view of King Street in downtown Port Colborne.



This barn in the township of Wainfleet just couldn't take the weight of snow and collapsed.



This garage was almost totally buried in snow and probably would have collapsed if the owner hadn't removed the snow from the roof.



Inco employees Fern Plouffe, left, and Enrico Machio, who helped clear the snow.

Fire Razes Copper Cliff Machine Shop



Firemen fighting the blaze in sub-zero temperature.

An early morning fire on Monday, February 7, gutted the Copper Cliff machine shop, the largest and most extensively equipped among the series of specialized maintenance buildings, along "shops alley".

The fire was quick to spread to the roof structure of the building, and after hours of battling the blaze, the combined forces of the Sudbury and Inco fire departments were able to bring the fire under control.

In a letter to members of the Sudbury Fire Department, the company extended its appreciation for their valuable help in fighting the blaze, pointing out that their prompt and efficient action did much to contain the fire and keep it from spreading to adjacent buildings.

No one was working in the shop when the blaze started, and no injuries were reported as a result of the fire.

There was a feeling of shock among the 90 employees who had worked in the shop, many of them for a major portion of their lives. It had become, in fact, a home away from home.

There was little time for tears, however, for a few days after the tragedy struck, employees were busy setting up shop in temporary relocation areas: the Copper Cliff copper refinery, Froid-Stobie mine and the Coniston complex, with many of the men doing their part in salvaging much of the equipment that escaped the brunt of the fire.

In the past, the deceptive ease and efficiency with which the machine shop's activities were conducted often inclined some to play down the size and scope of the workers' achievements. Actually, over the years it had earned a reputation for skill, ingenuity and high-class workmanship that reached far beyond the borders of its own sphere of operations.



Above and below, photographs depicting the aftermath of the blaze. Scorched by flame, blackened with ashes, and coated with ice, a large portion of the equipment is presently being restored.



With wire brush in hand, the machinists are setting out to restore the machinery caught in the blaze. Much of the work is being handled at the Coniston Complex. Machinists Richard Gray, left, and Gerry Levesque interrupt their work as Bill Van Allen, third from left, superintendent of central shops, and shop foreman Custer Barazzuol inspect portions of the restored lathe.

Two veterans of the Copper Cliff machine shop, shop co-ordinator Dave Small, left, and machinist Hans Fritzemeier appraise the restoration carried out by the machinists now based at the old Coniston complex. This machine is one of many that promises to be back in action turning shafts, pinions and sprocket blanks in the near future.





The Freeman Marshall rink in deep thought. The rink ended up in second place after a hard-fought contest. Team members, from left, Bob Forth, mines exploration, Garson mine; Freeman Marshall, mines exploration, Copper Cliff; John Perry, field exploration, Copper Cliff; and Vince Karlewicz, mines exploration, Frood mine.

Foot and Hangingwall Bonspiel

The 22nd annual Foot and Hangingwall Bonspiel proved to be a big attraction to curling competitors from across the country. Over 120 members and guests converged on the Copper Cliff Curling Club to compete in the event.

Participants from Milwaukee, Fredericton, Montreal, Noranda, Haileybury, Houghton, Winnipeg and Toronto took part in the competition which saw the Dave Anderson rink edge out the Freeman Marshall rink in a closely-fought battle.

The annual bonspiel is the largest event sponsored by the Foot and Hangingwall Club. In order to be a lifelong member, most applicants are involved with field or mines exploration, although members not associated with either department take part in the many activities. The Foot and Hangingwall Club has been in existence since the early 1930's when geologists and those engaged in exploration gathered to compare notes.



The Grand Aggregate Champion first place winner in the Foot and Hangingwall Bonspiel, was the Dave Anderson rink. Team members are, from left, Rolly Horst, field exploration, Copper Cliff; Dave Anderson, manager, Morrisette Drilling, Haileybury; Bob Bennett, field exploration, Copper Cliff; and Gerhard Pflug, mines exploration, Creighton mine.



Clarence Watson, from Morrisette Drilling, Haileybury, releases. He was one of more than 120 curlers who participated in the highly successful event.

NOCA Bonspiel

The Neil Harrison rink, out of the Annandale Curling Club of Toronto, won the grand aggregate final of the recent 90th Annual Northern Ontario Curling Association Bonspiel. "We had a good time here in Sudbury and we got a real thrill from winning the 90th NOCA," said Neil Harrison. "Actually we haven't been playing that well going into this bonspiel, but throughout we had good luck and some close games."

The match, which was played at the host Copper Cliff Curling Club, drew a large section of spectators. It ended when defending champion Dumontelle conceded after throwing the first rock in the 10th end. Harrison was leading 6-4 coming home and allowed the Coniston foursome little chance to count by employing a successful takeout strategy.

In the other events, Bill Buchanan's rink from Sudbury edged Roy Eaton, of Little Current, 9-3 to take the Cochrane-Dunlop trophy. Winner of the Falconbridge trophy was Bill MacFarlane, of North Bay, who beat Joe Matte, of Sudbury, 11-7.



The Neil Harrison rink of Toronto beat out the Don Dumontelle rink of Coniston to take home the Grand Aggregate Championship at the NOCA Bonspiel. The winning team of Dave Walker, Neil Harrison, George Shaw and Rick Bishop also took top spot in the Dorans Northern Event, beating Halleybury's Bill Gozelle in the finals.



Combining careful aim, a steady hand and the will to win, participants in the 90th Annual Northern Ontario Curling Bonspiel in Copper Cliff drew capacity crowds.



Top spot in the Inco event at the Northern Ontario Curling Association Bonspiel went to the Don Dumontelle rink of Coniston after close contests with the Napier, Ash and Coulter rinks. Accepting the Inco trophy from Sid Forster, the company's community relations supervisor, centre, are, from left, Gerry Cleaver, Don Dumontelle, Leo Boyer and Walter Sattic.

What's in



A native of Neguac, New Brunswick, Ed Williams is a laborer at Inco's matte processing complex in Copper Cliff, where he's been working since 1969. Although single, Ed has a small family to care for . . . two little brothers, named Mike and Gary, became fast friends with Ed soon after he joined the Big Brothers Association three years ago.



John Thompson, a maintenance mechanic at the matte processing complex in Copper Cliff, is also coach of Atom Division hockey in Walden and a volunteer fireman at the Lively Fire Hall. In the summer months, John works at improving his golf handicap, which "hovers somewhere around eleven". His wife, Mildred, is a clerk at Inco's general office in Copper Cliff.



With 12 years of service at the Port Colborne nickel refinery, Arthur Brown is currently a dissolving tankman in the electrolytic nickel refining department. Art is active in the scouting movement, being a leader of the 12th Port Colborne Troup, and with wife, Susan, is also co-leader of the "Co-Ed" Rover crew.



Keeping things in order at the Inco Surplus Disposal Depot at Little Stobie mine, is Al Smith, one of 74 employees carrying that name in the Ontario Division. Al and his family find plenty of room to pursue their show-machining hobby on their farm in Markstay. During his 11 years with the company, and prior to his move to Little Stobie, Al has worked in many locations, including the old Coniston smelter, Froid mine, Garson mine, and Copper Cliff North mine.



Having recently come upon a U.S. study of census figures listing the ten most common names in America, The Triangle decided to conduct a little survey of its own. A search for the most prevalent surname to be found at the company's various operations revealed that "Roy" is by far the most popular name, shared by 80 Inco employees. While "Roy" doesn't show up in the American top ten of most common names, the following do . . . Smith, Johnson, Williams, Jones, Brown, Miller, Davis, Anderson, Wilson, and Thompson. We've searched out an Inco counterpart, to put a face to each name, and where possible, we've indicated how many people there are at Inco with each of the ten names.

a name?



An instrumentman at Clarabelle mill, Ted Wilson is one of 29 employees in the Ontario Division sharing that particular last name. An active participant in community affairs, Ted is chairman of the Sudbury and District chapter of the Multiple Sclerosis Society. Outdoor interests include snowmobiling and ice fishing.



Marty Johnson, a Sudbury native with nearly 20 years of service, is one of 26 "Johnsons" who work at Inco. A roaster operator at the Iron Ore Recovery Plant, Marty is a local hockey booster who enjoys cheering the young players at arena playgrounds. Plans to build a cottage on the shore of Lake Nipissing keep Marty looking forward to summer.



The most popular surname in the Ontario Division — "Roy" can be found 80 times on our payroll! Aurel Roy, a surface crane operator at Clarabelle mill, has spent over 40 years with Inco and began his career as a carpenter's helper at Creighton No. 5 shaft. Fishing and watching television are two of Aurel's favourite pastimes.



A maintenance mechanic at the Copper Cliff mill, Ed Miller is also a dedicated member of the Historical Automobile Society of Canada and spends much of his spare time restoring his 1928 Ford, 1949 Dodge, and 1960 DeSoto. When he's not tinkering with the cars, Ed enjoys camping with wife, Gwen, and their four children. There are 20 "Millers" in the Ontario Division.

Keeping up with the Jones family isn't always easy, particularly if they're as active as Arnold Jones, a second-class machinist at the Port Colborne nickel refinery. Arnie is active in hockey, and spends much time hunting, fishing, and camping. He and wife, Leigh, are planning a trip to the east coast this summer. There are 35 "Jones" in the Ontario Division.

One of twelve "Davises" employed at Inco's Ontario Division, Dave Davis is a mould temperature controller at the Copper Cliff copper refinery's number three furnace. Dave's been with the company since 1970 — two years after he came to Canada from his native Barbados. "What I miss most is the ocean", says Dave. "I don't get to see too much of it here in Sudbury". Light classical music keeps Dave entertained during the winter.





From Levack and Dowling, a fine performance by Tammy Jane Conners and Mark Trahan.

Levack-On Winter

The new Levack-Onaping arena was the scene of much activity recently, as it played host to many of the major events of the 1977 Onaping Falls winter carnival, held in mid-February.

Highlighting the four-day affair was a spectacular carnival ice revue, comprised of top skaters from the Sudbury region and featuring guest soloists Leisa Telenko, Tommy Perala, Heather Blain, Cynthia McInnis, Carrole Gosselin, Patric Greasley, Marie Solski, Linda Kangur, and Northern Ontario champion, Wendy Farquahaison.



Skaters Kim Jalsich and Laura Lynn Kay.



A whiz on blades — guest soloist, Leisa Telenko of Capreol.

Onaping Falls Carnival

Crowning of the Carnival King and Queen saw a full house pay tribute to the new sovereigns, Kenny Benard and Vicki Jackson, who replaced last year's royalty, Mike Nowicki and Cindy Laberge.

Planned to please both indoor and outdoor types, the roster of carnival activities offered something for everyone . . . wine and cheese social, a minor hockey house league tournament, high school curling bonspiel, gala carnival dance, kiddies' fishpond, cross-country and downhill ski races, and, finally, a torchlight parade and bonfire to wind up the affair.



Onaping Falls 1977 Winter Carnival Queen and King, Vicki Jackson and Kenny Benard.



Mayor Jim Coady officially opened the carnival, assisted by Cathy Kaitola, left, and Debbie Benoit.



Pretty young soloist, Copper Cliff's Margaret Coyle.

More than 500 entries as Triangl

The closing date for entries in the Triangle photo contest is now officially past. Naturally, we are amazed at the response, having received more than 500 entries in all shapes and sizes. Quite frankly, we are pleasantly surprised at the quality of work submitted, and we have come to the conclusion that there are many talented photographers working for the company.

The four entries on these pages were chosen to give our readers a taste of what they can expect next month, when the official winning entries will be published. Please take into consideration that these shots are not prize winners — only potential prize winners. All entries will be judged by an independent panel of judges, and their decisions will be final.

In talking with some of the participants we learned that many of them have been interested enough in photography to attend outside photo courses, usually at night school. We also found out that, although techniques can be taught, it is still the creativity of the individual which shines through in the end. Too many people seem to get wrapped up in the "hardware" game, spending hundreds of dollars on the latest photo equipment with the idea that if they own the best, they will turn out the best pictures. In most cases, this is not true. Sometimes the youngster with a simple box camera can capture the mood of an event far better than the fellow with expensive equipment — something to keep in mind.

Again, we wish to thank everyone who submitted an entry. Check next month's Triangle for the winning photographs.



Frank Carucci, from Sudbury, captured this express taken with available light, with exposure computed father, Benedetto, works in the nickel reverbs in the



This shot, submitted by John Lezyw, of Sudbury, is a night view of Notre Dame Street, with St. Mary's Ukrainian Catholic Church in the background. John works for Inco's construction group and has been involved in photography for about two years.



Delores Ferguson, from Lively, sent in this photograph sitting between her and the sun, so she exposed her Delores is the wife of Charlie Ferguson, director of

e Photo Contest comes to a close



ion on the face of Girgie, his sister's cat. It was using the camera's built-in light meter. Frank's Copper Cliff smelter.



ph of a sunset in Nassau. She noticed a person film for the sun, creating this tranquil silhouette. environmental control.



David Cooper is a nickel residue operator at the Copper Cliff copper refinery. He captured this sunrise off the coast of Key West, Florida, during a recent vacation. The shot was taken without a tripod, with exposure determined from his camera's built-in light meter.



This is an overall view of the industrial area where roof bolt washers are manufactured for Sudbury area mines. Both Inco Limited and Falconbridge are supplied by the Jarrett Centre. In 1976 alone, almost 1.5 million washers were delivered to the mining companies.

The Ja Cen

The long, low building is deceptively small from the outside. In fact, if you were in a hurry, you'd probably not even notice it. But there it is, nestled among other buildings in a small industrial park at the outskirts of Sudbury. The name on the front — Jarrett Centre.

Inside is a beehive of activity. Poke your head into the kitchen and you'll find a group of people preparing meals for outside delivery and their own cafeteria. Down the hall, the high-pitched snarl of saws ripping through wood beckons the visitor to take a closer look. A large, well-lit carpentry shop presents itself, with a dozen people hard at work. Next door, others are busily engaged in producing ceramic pottery. The overall operation resembles any other diversified small industry. The only difference is that, in this case, the people employed are mentally retarded.

The Jarrett Centre, officially opened in November, 1975, is the culmination of over 10 years of effort by the Sudbury and District Association for the Mentally Retarded. The first work shop was situated in the old Sudbury Band Hall, located adjacent to the CPR tracks on Lorne Street. Later, space was acquired on Lisgar Street, where woodworking and furniture refinishing were carried out. With the advent of urban renewal, the workshop found a new location in the United Church, at the corner of Glenow and Irving Streets.

It was at this time, in mid-1970, that Brodie Hart, the present director of the



Saw operator Peter Gorgosch and helper Fernando Battachio work as a team, slicing washers into a predetermined size. Plywood sheets, measuring 4 x 8 feet, are cut lengthwise into strips before Peter and Fernando cut them into squares.

rrett tre

centre, took over the reins. One of his first tasks was to finalize a proposition concerning the manufacturing of mine roofbolt washers with the Rotary Club of Sudbury and Inco Limited. The Rotary Club donated the necessary equipment, and Inco placed its first order for 5,000 washers. That amount has increased to the point where the Jarrett Centre supplied 1,100,000 washers to Inco in 1976.

"The object of the Jarrett Centre is to provide vocational training, by giving our people an exposure to as real a working environment as possible," said Brodie Hart. "But, at the same time, this allows us to take some of the burden off the tax payers. We're partially subsidized by the government, and we need and thank them for their help; however, we're not satisfied with relying on government funds. We want to become as self-sufficient as possible."

Besides the industrial area, which produces roofbolt washers, survey stakes, and snow fences, there is also a ceramics section. It's called "Cactus — The Kiln and Klay Ceramic Studio." Here pitchers, ash trays, coffee sets and flower pots are manufactured.

The kitchen provides a catering service to the immediate industrial area; it is also equipped to cater to groups of 100 or more right at the Jarrett Centre.

Next time you drive by the Jarrett Centre, why not stop in for a cup of coffee and take a look around? We're sure you'll be pleasantly surprised.



Marcel Roussel, left, and Gaetan Kingsley load one of the Jarrett Centre's vans with a shipment of roof bolt washers, destined for Inco's Levack mine. Once an order is placed, the washers are manufactured and delivered on schedule by employees of the Jarrett Centre.



Tim Bowerman, left, and Leslie McLeod are busy drilling and stacking the completed roof bolt washers. After holes are drilled in the wooden squares, they are stacked in piles of 25 and fastened with wire before being piled on skids, ready for delivery.



Shaping fire clay for use in budding up matte tap holes are clayman helper, Gerry Larade, left, and clayman Gerry Niehoff. The fire clay, which will be distributed to the tappers, can easily handle the 2,200°F. temperatures of matte from the reverberatory furnaces.

400 tons of clay —



Tapper's helper Gilbert Lafreniere prepares to bud up a tap hole. The bud is attached to a steel bar and jammed into the tap hole.



Slag from the tap hole is a sizzling 2,200°F. but freezes much more readily than matte at the same temperature. When the slag hits the bud, it freezes in a matter of seconds and helps to plug the hole. Tapper's helper Gilbert Lafreniere uses a "50-50" clay to do the job.

Clay — more than 400 tons each month — plays a very important role in the daily operations at the Copper Cliff smelter. Basically, the clay is used for refractory purposes, where no metal could stand up to the terrific heat and chemical action of molten matte or slag. Various uses include patching moulds, lining matte and slag chutes, making buds (plugs) for furnace tap holes, and claying the lips of converter stacks.

Some of these jobs call for a tougher clay than others, so three different types of clay are used — fire clay, which is free of impurities and is the strongest; swamp clay, which contains some sand and loam, and "50-50", which is a mixture of the two.

Fire clay gets the important assignments. It's used to bud up the matte

tap holes in the reverberatory furnaces and for lining the bowls of matte chutes. Matte coming out of the reverbs at about 2,200° F. would quickly eat through buds and linings made of an impure clay.

Like the matte, slag comes out of the tap hole at about 2,200° F., but it freezes much more readily and can therefore be stopped by a bud made of the "50-50". When the slag hits the bud, it freezes in a matter of seconds and helps to plug the hole. The bowl of the slag chute is also lined with "50-50".

Swamp clay is the workhorse. It's used for "streamlining" matte moulds, lining matte chutes, sealing the gas line and lining the lips of converter stacks.

Two mills are at work during each shift to keep up with the clay requirements: one exclusively produces fire clay,

and the other provides the necessary swamp clay and "50-50". It takes only a few minutes for the mill to churn the clay into a pliable substance which can be moulded into any desired shape. A batch of "50-50" and swamp clay is mixed every shift and sent to various locations in the smelter. Pure fire clay is made up and left to season in blocks for 16 hours prior to use, to insure uniform moisture content. The secret of turning out a good fire clay mix is knowing how much water to add; too much water in the clay results in a bursting of the bud when the matte hits it.

Fire clay, which comes from mines at Mount Jewett, Pennsylvania, is stored in a bin at the Orford building, while swamp clay, which is purchased locally, is stored near the pug mills at the east end of the smelter.

Buds for the taps made on each furnace during an eight-hour period are moulded by the tapper, who must be sure they are worked into a solid, tough, cone-shaped mass that will not break when the matte strikes it.

The bud is firmly fixed to a steel tapping bar and, at the end of a tap, is jammed into the small tap hole, stopping the stream of matte. A three-man team is required to bud up the tap hole, because the pressure of the matte and the kick of the stream driven from the bud when the matte hits it, would blow out the clay if it were not held firmly in place during the first few seconds, until the heat has baked it solid.

Claying up the lips of converters takes up a large amount of the clay used in the building. Here it acts as a buffer so that when frozen matte is chipped from the converter lip, the brick underneath won't be damaged. It also forms a pouring lip to allow the matte to flow out of the converter, minimizing damage to the steel plates.

The Garr gun also takes in a big portion of the clay. After every addition of flux, the Garr gun has to be filled with clay to block the hole and prevent seepage from splashing. This occurs up to six times a shift on each converter.

every month!



After every addition of flux to the converters, the Garr gun or intake valve has to be filled with clay to block any seepage, a procedure that occurs up to six times each shift. "Claying the gun" at number 12 converter are puncher Danny Henderson, left, and skimmer Phillip Gouin.

Maintenance Specialists

Today, more than ever before, there's a definite trend towards "specialism", if such a word exists. There's specialty medicine, specialty law, even specialists in auto repairs, construction, and painting. The idea of specializing has now become prevalent in the maintenance areas of Inco's various operations; two prime examples are evident in the company's relatively new Central Skip-Cage Repair Depot and Central Bucket Repair Depot, both located at the company's Creighton complex, just west of Copper Cliff.

The skip-cage repair depot, housed in the Creighton No. 7 shaft mill building, has been repairing skip cages since October of 1975. The skips, by the way, are self-dumping buckets used to carry ore from underground to surface, and are usually operated in counterbalance to each other in two separate shaft compartments which helps to reduce the amount of power needed for hoisting.

The original crew for this particular repair depot came from the heavy-duty plate shop at Frood mine and, according to Creighton area maintenance superintendent, Ray Condie, "the crew is really coming along. They've initiated a lot of good ideas that are standardizing repair methods and improving the quality of materials, which makes for longer wear and shaft life". The crew also has "a very good relationship with maintenance engineering people and the hoisting specialists, making sure that any design changes meet required high standards".

Since each mine has different hoists and different specifications, the repair depot accommodates a wide variety of skips, from Copper Cliff South mine's largest lightweight skip, capable of carrying twenty-one-and-a-half tons, to the 10-ton skips at Garson mine.

The bucket repair depot has been working out of the old hoistroom at Creighton mine's No. 3 shaft since early 1976, and provides a combination of expertise and fine workmanship that results in a very efficient operation.

Originally intended to handle all repairs



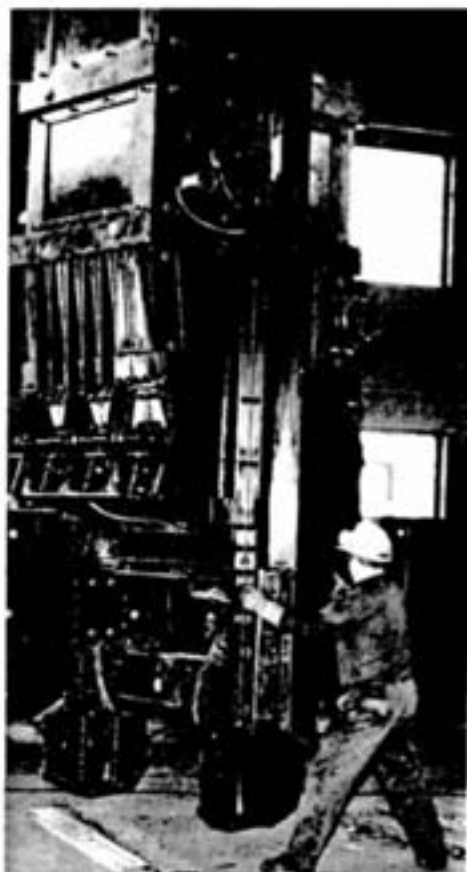
Throwing off a shower of light as he works, Rheel Brosseau, a plateworker apprentice at the Central Bucket Repair Depot, cuts off the side of a scooptram bucket. The sides are checked regularly, and replaced when necessary, to ensure peak performance.

at Inco



At the Central Bucket Repair Depot, first-class welder, Perry St. Jacques, welds a tooth and adapter lip on a scooptram bucket, using an automatic wire-feed welding machine. In addition to repairing scoops, the depot now handles repairs to loader buckets.

to scooptram buckets, the depot has since broadened its capabilities to include the repair of loader buckets from surface operations. Says Ray, "the bucket repair depot has a really good work group, and they take a lot of pride in their workmanship, which is excellent".



First-class rigger, Steve Walch, ensures that this 10-ton skip is properly balanced before being returned to Garson mine.



Before welding a scooptram bucket in the Central Bucket Repair Depot, area maintenance foreman, Walter Szpyt, left, and first-class plater, Eddie Pitton, line up the bushings in the scooptram's bucket. The depot has been in operation since early 1976.



Douglas Morrison and Ernst Obratz



Peter Vachon



John Akkanen

\$uggg

The company's suggestion plan program continues to produce numerous economical and practical ideas for improvements in operations, maintenance, safety, and working conditions. Needless to say the suggestion plan is also a good source for some extra "found" dollars for the award winners.

Top award for the month, \$1,250, went to **Ernst Obratz**, of the Copper Cliff copper refinery, for a recommendation to place gas burners on swing-type booms to heat ladles. Doubling on his good fortune, Ernst teamed up with **Douglas Morrison** to split the second prize of \$680, which was won for recommended modifications to No. 3 vertical furnace air valves.

Coming up with revisions to the rapping cycle on the No. 5 cottrell put \$550 in the pocket of **Peter Vachon**, of the Copper Cliff smelter.

A familiar name to the pages of past suggestion plans, **Albert Ouellet**, of Copper Cliff North mine, took home two more big awards this month. Albert's recommendation to use plastic in-the-hole drill hole plugs in place of the wooden plugs gave him \$480. An additional \$215 was added to his bank account when he came up with a method to strengthen SAL-60 handles.

John Akkanen, of central shops, was the recipient of \$370 for a suggestion to improve clevises used for mine cages.

An award of \$310 was presented to **Elmer Zinkle**, of the Copper Cliff smelter, for suggesting a redesigned toggle plate and bearing on the No. 1 Traylor crusher.

At the Port Colborne nickel refinery, **Ferland St. Louis** developed a new type of Die for use as a bender on presses and was awarded \$215.

An improved method of resocketing and inspecting cappings used for tail ropes resulted in a \$180 award for **Henry Burton**, of Coleman mine.

Coming up with a method to remove flat bars from primary and secondary screens resulted in a \$125 award for **David Mazerolle**, of the Froid-Stobie mill.

Terry Pigeau, of the Copper Cliff smelter, won \$100 for a recommendation to install two-pronged jones plugs in the bunker "C" oil meters.

Awards of \$75 were presented to **Charles Briggs**, of Froid mine; **Noel Gauthier**, of the Copper Cliff copper refinery; **Helmut**

IDEAS PAY OFF!

e \$ t i o n \$

Grabner, of the Copper Cliff copper refinery; **William Ingram** and **Camil Mathieu**, of the Copper Cliff copper refinery; **John Krnich**, of Frood mine; **Laurence Lamothe**, of the Copper Cliff copper refinery; **Paul Levesque** and **Gerard Sabourin**, of the Copper Cliff smelter; **Constantine Maragopoulos**, of the Copper Cliff smelter; **Paul McDonald**, of matte processing; **Jack McFadden** and **Bernard Newman**, of Frood mine; **Dennis Pidgen** of the Copper Cliff smelter.

A \$70 award was presented to **Don Blue** of Copper Cliff South mine.

Awards in the \$50 category were presented to the team of **Enzo Cacciottli** and **Halg Elliott**, of Copper Cliff South mine; **Ugo Crozzoli**, of Frood mine; **Mike Demers**, of the maintenance field force; **Ernest Everitt**, of the Copper Cliff smelter; **Leonard Gervais**, of Frood mine; **Theodor Koleszko**, of the Copper Cliff smelter; **Paul Latvala**, of Copper Cliff South mine; and **Gabriel Prevost**, of the Copper Cliff copper refinery.

Awards of \$40 were presented to **Jean Dumont**, of the Frood-Stobie mill, and **Herb Grubber**, of the Iron Ore Recovery Plant.

In the \$35 category, awards were presented to **Harold Boluk**, of the Copper Cliff copper refinery; **Bryan Grace**, of the Copper Cliff copper refinery; and **Guy Theriault**, of Little Stobie mine.

Winners in the \$30 category were **Don Gibson**, of Frood-Stobie mill; **Roy Manning**, of central utilities; **Clayton McCoy** and **Leo McLaughlin**, of the Copper Cliff copper refinery; **Ossie Parker**, of the Copper Cliff smelter; **Douglas Scott**, of the Frood-Stobie mill.

Awards in the \$25 category were presented to **Real Bergeron**, of the Copper Cliff copper refinery; **Don Blue**, of Copper Cliff South mine; **Leo Bourgeois**, of Stobie mine; **Joseph Burns** and **Hector Savage**, of the Copper Cliff copper refinery; **Frank Chirka**, of the Frood-Stobie mill; **Ken Cresswell**, of Garson mine; **Gurmit Dhaliwal**, of the Copper Cliff copper refinery; a double winner, **Patrick Granfield**, of the Copper Cliff copper refinery; **Len Hirvela**, of Copper Cliff South mine; **Eugene Laframboise**, of the Frood-Stobie mill; **Michel Lalonde**, of the Copper Cliff smelter; **Leo Leblanc**, of central utilities; **Leonard Leclair** and **Vernon**

Whiting, of the Copper Cliff copper refinery; **Paul McDonald**, of matte processing; **Fern Michaud**, of Frood mine; **Gerald Perron**, of the Copper Cliff mill; **Josef Rabski**, of the Copper Cliff copper refinery; **George Solomon**, of Copper Cliff South mine; **Eric Stuart**, of Copper Cliff North mine; **Antonio Venier**, of the Copper Cliff copper refinery; **Winston Walker**, of the Copper Cliff smelter; **George Wall**, of Shebandowan mine; **Stanley Zahorouski**, of matte processing; **Robert Leveille**, of the Port Colborne electronic refining department; **Larry LaHaie**, of the Port Colborne mechanical department.

In the \$20 category awards went to **Yvan Blais**, of transportation; the team of **Edward Casey**, **Bill McAuliffe**, **Grant Moody** and **Bernard Whalen**, of Crean Hill mine; **Rene Dellaire**, of the IORP; **Raymond Dubreuil**, of transportation; **Larry Galipeau**, of Clarabelle mill; **Juergen Henning**, of the IORP; **Tom Hodgins**, of the IORP; **William Leach**, of central utilities; **William Leeson**, of the Copper Cliff smelter; **Adelmo Marchioni**, of the Copper Cliff smelter; **Jim McLaren**, of the IORP; **Allen Oliver**, of the Copper Cliff copper refinery; **Michael Oshell**, of the Copper Cliff copper refinery; **George Prusila**, of Frood mine; **Erwin Schmitt**, of the IORP; **Garnet Schroeder**, of Copper Cliff South mine; **Joe Urban**, of the Copper Cliff smelter; and **William Wilkinson**, of Little Stobie mine.

Winners in the \$15 category were **Paul Clement**, of central utilities; **Roland Demers**, of matte processing; **John Filiatrault**, of transportation; **John Grant**, of the Clarabelle mill; **John Halushenski**, of matte processing; **Donald Hamel**, of the Copper Cliff copper refinery; **William Leeson**, of the Copper Cliff smelter; **Roger Michaud**, of the Copper Cliff copper refinery; **Vic Samuels**, of transportation; **Ernest Stelmakowich**, of Frood mine; and **Lorenzo Trahan**, of the Frood-Stobie mill.

Picking up two \$10 awards was **Wayne Austin**, of central utilities. Other winners in the category were **Bert Behenna** and **Alvin Scott**, of Creighton mine; **Marcel Dubois** and **Claude Genereux**, of the Frood-Stobie mill; **Ray Beaudoin** and **Richard Lemieux**, of Creighton mine; **William Zyma** and **Derek Hardacre**, of Creighton mine; **Robert Henry**, of the Copper Cliff mill; **Garry Moulton**, of central utilities; and **Albert Thiel**, of the Copper Cliff smelter.



Albert Ouellet



Ferland St. Louis



Henry Burton

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



Some 250 representatives from mining companies across Canada gathered in Sudbury recently for the First Annual Mechanical Electrical Operators' Conference. Termed a resounding success by conference chairman **Don Bradley**, a total of 31 technical papers were presented. During the course of the conference, **Largo Albert**, right, Inco's hoisting specialist, presented a seminar on Lilly controllers. Receiving some first-hand information, above, are, from left, **Ted McInnes**, Tantalum Mining; **George Carley**, a hoist inspector for Inco; **Jerry Lazurko**, chief electrical-mechanical engineer, with the Ontario Government; and **Ralph Adams**, from R. D. Adams and Associates. Below, **Norm Creet**, centre, Inco's manager of maintenance, mines and mills, in discussion with **Fred Walden**, left, manager of training, Crothers Limited, and **John Hartley**, vice-president of Crothers Limited. Mr. Walden was the guest speaker at the regular monthly CIM meeting, attended by many of the conference delegates.



Oli Cajanek, centre, senior specialist, general engineering, checks the registration roster for the CIM's First Mechanical Electrical Operators' Conference, assisted by **Dorothy Lundgren**, left, of the Sudbury Convention Bureau, and **Joyce McLeod**, engineering clerk, Copper Cliff general engineering. The conference was designed as a communication and work session for maintenance and plant engineering personnel of operating mining companies across Canada. Below, **Bill Rogers**, right, information officer for the CIM, Montreal office, goes over final arrangements with Inco's **Largo Albert**, whose technical presentation on hoist controllers drew a wide response.



"**Summer Flame Winter Ashes**", is the name of a new play produced for television and sponsored by Inco. It will be aired on March 24, at 8:00 p.m., on CKSO-TV in Sudbury. The author of the play is Marliese Nawroth, who hails from Parry Sound. Her first effort, "Tomorrow We'll Weep for the Sky", was televised on CKSO-TV last year and was also sponsored by Inco. The new production was filmed entirely on location at Webbwood, near Espanola, Ontario. The play is directed by Bill Hart and Bob Brazeau and features actors from the Espanola Theatre Group.

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



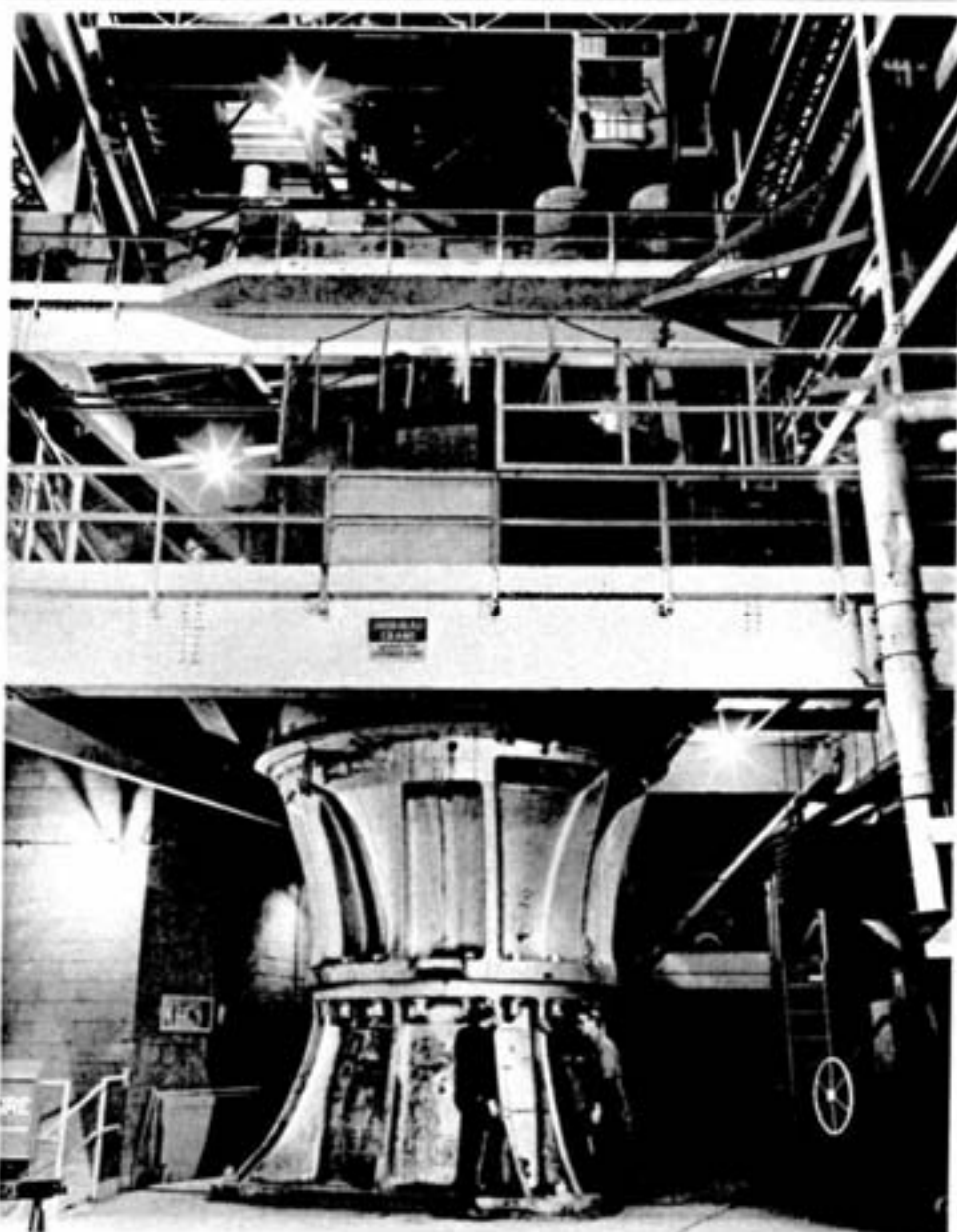
Sizing up the situation before moving into action, the maintenance team from the Copper Cliff nickel refinery await the signal from team captain **Everett Hopkin**, standing at right before going into action during the Annual First Aid Competitions. Examiner **Hans Zappel**, left, was one of several observers scorekeeping the team's moves. Team members **Claude Belanger**, **Larry Doner**, **Everett Hopkin**, **Serge Conte** and **Roy Hillier**. Below, the "victims" take a break between competitions. **Donald Ferguson**, at left, doesn't seem to be bothered by his gunshot wound as **Gary Rams**, right, shows off his lacerations to the nickel refinery's safety foreman, **Harvey Gere**.



Following the semi-final first aid competitions, winners will compete on Thursday, March 10, at 7:30 p.m., for the

R. D. PARKER SHIELD,

emblematic of First Aid Supremacy in the Ontario Division. The event will be staged at the Inco Club in Sudbury.



Secondary crusher at Copper Cliff North has handled over 34 million tons to date



Believe it or not — but since the Copper Cliff North mine came into production in 1961, this secondary crusher has handled in excess of 34 million tons of ore! Car loader helper **Claude Lavigne**, left, and crusherman **Jim King** are pictured at the crusher's base, while conveyorman **Gerry Talbot**, at left, is operating the No. 4 conveyor which removes the crushed ore to the 1,500-ton capacity storage bin. From there the ore is loaded into railroad cars and transferred to the Clarabelle mill.

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



Despite the tremendous effect technology has had on the mining industry, an ancient invention still holds a valuable place in the mine. The ladder, ordered in bulk shipments and found on all levels, is still one of the most reliable methods of getting from one place to the other. At Creighton No. 9 shaft, planners **Larry Carriere**, left, and his brother, **Norm**, inspect the ladders prior to their shipment underground.



The Port Colborne Lions Club recently held a community skate-a-thon, with proceeds going towards their \$45,000 pledge for repairs to both arenas. More than \$8,000 were raised through the skate-a-thon, with the balance to be raised by other community functions. One of the many skaters taking part in the skate-a-thon was **Margaret Benner**, secretary for the maintenance and engineering departments at the Port Colborne nickel refinery. A skater since she was four years old and a member of the St. Catharines Skating Club, Margaret had no problem completing two hours on the ice. She received nearly \$250 in pledges towards the cause. She is shown adjusting the tension on her skate laces after a short warm-up period.



This straight-shooting team of Inco employees, the Ingersoll-Rand Warriors, is comprised of players from a number of different mines and plants gathered for the action and excitement of shift-league hockey. Team members include, front row, from left, **Maurice Clement**, **Robert Stack**, **Carl Newton**, **Guy Lanteligne**, **Barry Wright** and **Rick Howatt**. Back row, from left, coach **Ivan Thurlow**, **Mike Burnett**, **Clarence Clement**, **Gary McCool**, **Rick Zatylny**, **Steve Arbeau**, **Loman Maloney**, **Peter Lawlis**, **Eddy Thompson**, **Ron Pinder** and assistant coach, **Ron Gray**.



A quick turn of phrase meant money in the pocket for **Gerry Quesnel**, left, a stoop boss at Creighton No. 9 shaft. Gerry entered the monthly safety slogan contest and was awarded \$25 for his effort. **Mike Dixon**, right, mine safety foreman, had the slogan posted in a prominent spot for passers-by to keep in mind.

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



Annette Schertzing, left, a student at Niagara College, recently spent a two-week work period at the Port Colborne nickel refinery. Here she receives direction from key punch operator **Wendy Wainnes**, of the data processing department. Annette gained valuable experience during her two weeks in the working environment. The refinery plays host to many students during the year.



Complete with automatic transmission and four-wheel drive, this new service vehicle will be providing sure-footed transportation for supervision at Creighton mine's No. 3 shaft ramp. A four-cylinder, air-cooled engine will provide adequate power to negotiate the steep grades of the ramp, and disc-brakes ensure that it will stop on a dime. Creighton mine maintenance foreman, **Bill Pattenden**, gave conveyormen **Kerry Brouse**, left, and **Dennis Dickson** a sampling of what the vehicle can do with a ride up the ramp.

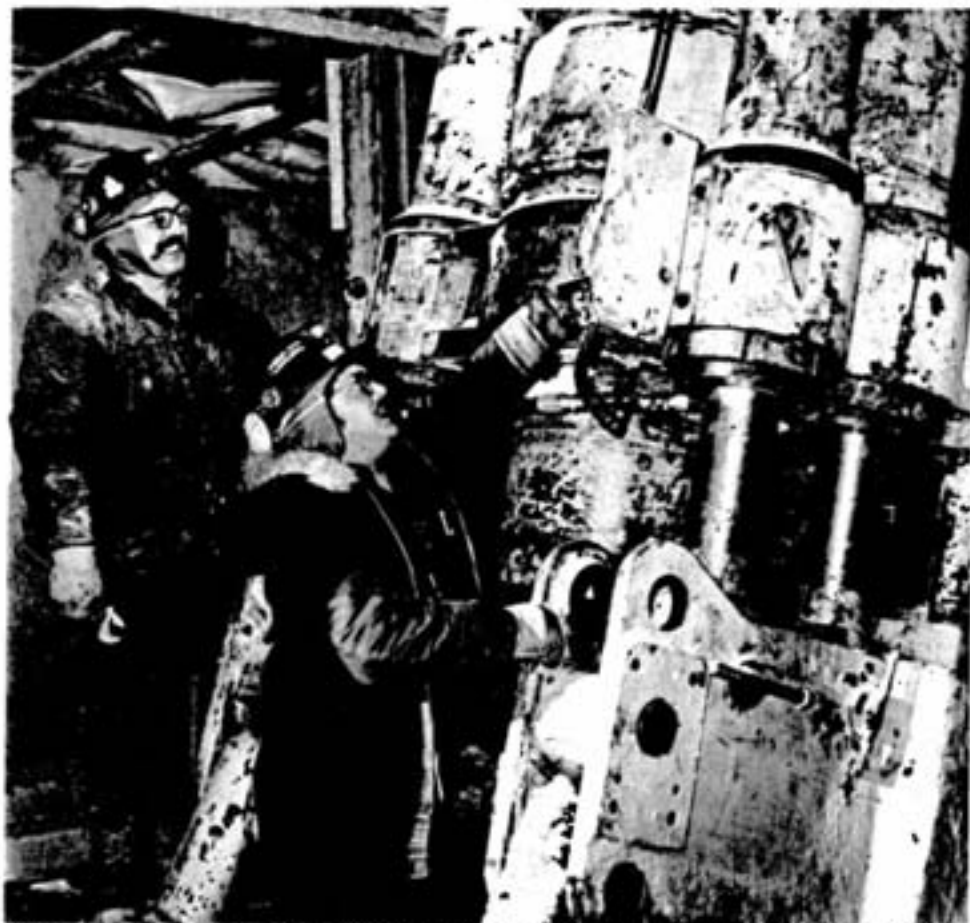


It's a long way to travel from the warm climate of Jakarta to the snow-swept gates of the Copper Cliff copper refinery yet **Anangga Roosdiono**, senior supervisor of public relations for P.T. Inco Indonesia, made the trip and enjoyed it. Anangga, left, viewed copper wire bars and the methods used to produce them with **Bob Mathews**, right, a section leader with Inco's process technology department. The copper refinery tour was just one stop on an excursion through Sudbury area plants. Also accompanying the visitor was **Bob Hamer**, assistant manager of public relations, Inco Limited.



Gordon Revey, left, and **Viido Oja** stand in front of the award-winning ice sculpture, Venus De Milo. The statue won first place in the recent Laurentian University winter carnival, and Gord and Viido, along with members of Laurentian's first-year engineering class, worked many chilly hours to create it. Gord's father, Paul, is with industrial engineering in Copper Cliff, and Viido's father, Alfred, is a dryman at Froid mine.

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



Presently in operation on the Levack West mine property, this RBM7 raise borer is in the process of boring an eight-foot diameter fresh air raise from surface to allow development and production on the lower levels. The 1,075-foot raise will be back-reamed at 74 degrees. Here raise bore operator **Craig Hawkins**, right, adjusts one of the hydraulic cylinders under the watchful eye of **George Martel**, a raise borer helper.



A recent visitor to Inco's Copper Cliff North mine was **Jerry Linfield**, left, an assistant credit inspector with the Canadian Imperial Bank of Commerce, Toronto. Accompanying Mr. Linfield on the tour of underground workings were veteran tour coordinator **Sam Laderoute**, centre, and **Ray Gilbert**, public affairs supervisor, Ontario Division.



Shift league hockey fans will be keeping their eyes on the F.B.R. Flyers, a promising new team that guarantees plenty of action in front of the opponent's net. Team members are, front row, from left, **Jean Paul Trepanier**, **Pete Larose**, **John Liba**, **George Chomitsch**, **Mike Bellehumeur** and **Wayne Byard**. Back row, from left, coach **Bud Flindall**, **Charles Langois**, **Shayne Fletcher**, **Don Belle**, **Richard Mailloux**, **Chuck Racette**, **Pat Lacelle**, **Andy Demers**, **Richard Lacelle**, **Richard Trotter** and manager **Don Doiron**.



This is a microfiche viewer which provides an accurate and compact method of reviewing inventory. Used as a replacement for the bulky master catalogue, a computer printout, the viewer can project the enlarged image of microfilm slides onto a viewing screen. Three of the old books can be condensed onto 23 microfilm slides. **Vic Lumbis**, a materials controller with inventory control, scans the slides, one of which is held by **Frood-Stobie** maintenance clerk-stenographer, **Shirley Sasseville**.

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



Harold Glover, CB, controller of Her Majesty's Stationery Office and formerly deputy master and comptroller of the Royal Mint, has joined Inco Limited as its consultant on coinage, following his retirement from his British government post. Mr. Glover will advise Inco on worldwide coinage matters, with particular emphasis on the use of nickel and cupro-nickel for coinage. As Inco's coinage authority, he will maintain close liaison with mints and issuers of coinage throughout the world to provide guidance in the selection of metals. Mr. Glover's career in the United Kingdom civil service includes 10 years as controller of supplies in the Department of the Environment. He was deputy master and comptroller of the Royal Mint from 1970 to 1974. During that period, he was vice-president of the International Mint Directors' Conference. In Queen Elizabeth's most recent New Year's Honors List, Mr. Glover was appointed a Companion of the Order of the Bath. A fellow and member of Council of the Royal Society of Arts, Mr. Glover was awarded the Society's Bicentenary Medal in 1967. He is an honorary fellow of the Society of Industrial Artists and Designers.



A recent visitor to Inco's Sudbury operations was **Harry Adiwajita**, personnel supervisor for P.T. Inco Indonesia. Harry is pictured here on tour in the Copper Cliff smelter, accompanied by **Don Smith**, process engineer with the converter department.



Basic research and development of sulphur-containing polymers were given an added boost recently with the donation of \$25,000 by the Ontario Division of Inco Limited to Laurentian University's chemistry department. The presentation is the third instalment of a grant from Inco Limited which will total \$105,000 over a five-year period. Inco Limited has been keenly interested in the University's overall progress in the past, and has continued its support in numerous academic fields. Previous grants of \$15,000 were presented to the chemistry department in 1975 and 1976. The \$25,000 cheque was presented by **Dr. Peter Ryan**, left, manager of process technology for Inco's Ontario Division, to **Dr. Wallace Pasika**, professor of chemistry at Laurentian University. "We are pleased to provide this cheque in support of Dr. Pasika's research project," Dr. Ryan said. "I am elated that Inco has seen fit to subsidize our work," replied Dr. Pasika.



Employees working on the beat with mine foreman **Jack Jamieson** have worked over a year without a reported injury at the Copper Cliff North mine. Needless to say, Jack, at right, is proud of the conscientious effort put forth by his crew. Front row, from left, **Luke Dutrisac**, **Andy Bouchard**, **John Lacmanac**, **Jim Armstrong** and **Les Dollard**. Centre row, from left, **Frank Illsley**, **Ivan Kumar**, **Marcel Brabant**, **Frank Upchan**, **Louis Desjardins**, **Richard Ethier** and **Ben Bartasevics**. Back row, from left, **John Roberge**, **Roger Poirier**, **Ken LePack**, **Guy Fournier**, **Jim Kavanagh** and **Ray Marcotte**. Other members include **Joe Platch**, **Ron Lepage**, **Frank Croteau** and **George Brennan**.

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



The monitoring of large-scale underground blasts is a relatively new field of study, currently under investigation by Inco's mines engineering department. The vibrations from these blasts are studied with sophisticated equipment on lease from Queen's University, Toronto. The equipment utilizes velocity transducers near the site of blasts which are connected by cable to the monitoring equipment, where signals are recorded on an FM tape recorder. The recorder is later played back through an oscillograph and supplies a permanent trace of each blast. From this information, Inco engineers hope to design blasts which will minimize vibration. Above, **Glen Lyle**, left, and **Mike Malkoski**, of mines engineering, Copper Cliff, check settings on the recording equipment. Below, trace analysis is carried out by **George Keast**, division supervisor, Copper Cliff South mine engineering; **Larry Tessier**, South mine engineering; **Mike Malkoski**, rock mechanics technician, Copper Cliff; **Tom Christiansen**, South mine engineering; **Glenn Lyle**, mines engineering department, Copper Cliff; and **Roy Aspden**, C.I.L. explosives division.



The latest addition to the Iron Ore Recovery Plant's fleet of specialized equipment is this 12-ton mobile crane, used for various purposes around surface operations. Besides loading and unloading material, the crane is capable of transporting materials from one location to another. Here maintenance mechanics **Ken Hilderbrand**, left, and **Al Wilkie** direct mobile crane operator **Al Gallen** as he transports a five-stage blower to the roaster building.



Knowing how to cope with any emergency is a positive step in the right direction. An operating shaft boss at Coleman mine, **Ron Sinclair**, recently completed a course in advanced mine rescue, receiving an honorable mention for his conscientious attitude during the course. Ron, right, proudly displayed his certificate to cage tender **Andy Roberge**.

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



Budding young writers took up their pens in response to an essay contest advertised in the Port Colborne Evening Tribune and came up with hundreds of reasons "Why I Like Port Colborne". Winning top prize was **Filomena Tamburri**, 16, a student at Notre Dame College School in Welland. Second place winner was 15-year-old **Nancy Beckett**, with third place going to 9-year-old **Diane Gehl**. There were more than 125 entries in the contest. This is **Filomena Tamburri** accepting the first-place prize of \$100 from **Charles Ott**, assistant to the manager at the Port Colborne nickel refinery.



Providing an easier access for crane inspections and maintenance was the idea behind the installation of this elevated platform at the Frood-Stobie mill. Checking a section of floor grating are **Alpo Punkkinen**, left, a first-class maintenance mechanic, and **Lloyd Landstrom**, mechanical foreman.



Working safely has become second nature to this group of veteran employees from Copper Cliff North mine, who have worked a minimum of 10 years without a reported injury. Members of this safety-conscious crew include, front row, from left, **Oliver Helkkila**, **Harvey Hautamaki**, **Ron Vincent**, **Lucien Poulin**, **Wally Elneron** and **Paul Poulin**. Second row, from left, **John DuFresne**, **Red Larocque**, **Rudy Kendel**, **Scotty Ferron**, **Bruno Bartasevico**, **Harold Reid** and **Marcel Brisson**. Third row, from left, **Ivan Dubnewycz**, **Henry Vezina**, **Hector Poulin**, **Aldino Tonelli**, **Laurent Lamoureux**, **Fred Oickle**, **Henry Prinoski**, **Charlie Shelswell**. Top row, from left, **Joe Bedek**, **John McNamara**, **Richard Fortin**, **Aurel Martel** and **Mickey Terrick**.



Being Number One in Canada is a big thrill for members of the **Walden Atoms** hockey team who took the Silver Stick Atom "A" Championship in Sarnia recently. Team members include, front row, from left, **Craig Duncanson**, **Garnet Ace**, **Darran Moxam**, **Sean Evoy**, **Darren Gilbert**, **Glen Fordy**, **Brent Gilbert**, **Donny Longe** and **Bobby Naponse**. Back row, from left, **Mike Forestell**, **Todd Crowder**, **Brent Wisniewski**, **Steven Narasnek**, **Troy Crowder**, **Andy Morbin**, **Stuart Sirkka** and **Robbie Nootchtai**. The team is coached by **Les Taylor** and **Kevin Moxam**, and managed by **Murray Duncanson**. Trainers are **Randy Mulligan** and **Fred Buchy**.

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



Over 250 pints of blood were collected at two highly successful blood donor clinics, held recently at Garson mine. It was the first time a blood donor clinic was held at the mine site, and Red Cross officials are extremely pleased with the fine turnout. Above, **Barb Knight**, a student in the lab technician course at Laurentian Hospital, takes a blood sample from driller George Valiquette. In background are **Bev Jarrett**, lab technician instructor, and student **Candice Decevit**. Below, Red Cross volunteer nurse **Nell Shamess** checks the blood flow on **George Valiquette** and **Robert Rivet**, both drillers on the 3200-foot level of Garson mine.



A popular fellow around the Creighton mine complex, **John Moore** was in for a number of surprises on his last shift before his retirement. John was presented with gifts by his fellow employees, and area manager, **Paul Parker**, right, joined in and presented him with a cribbage board, inscribed with congratulations from everyone at Creighton. John's safety record was outstanding at the mine, having worked underground for 30 years without an accident of any kind.



Daniel Adams, Inco Limited's director of venture capital management, was inducted into the Order of St. John recently by **Governor-General Jules Leger**, Prior of the Order, at a ceremony in Government House, Ottawa. Mr. Adams was made a member of the Order of St. John for his work on behalf of the Battle Harbour Foundation, which develops primary health care systems, particularly in medically isolated areas of Canada.

"INCO PRESENTS"

The Following Programs will be Televised Over CKNC Television:

March 4 — Bowl For Millions
(Big Brothers Celebrity Bowl)

March 11 — Good Buddies
(Sudbury CB Radio Clubs)

March 18 — Northern Trampoline
(Trapping in the North)

March 25 — Made in Sudbury
(Local Products)

ALL PROGRAMS WILL BE SHOWN AT 7:30 P.M.

Plan Now To Attend The

Blood Donor Clinic

to be held at the

General Office, Copper Cliff
Tuesday, March 8, 1977
2 p.m. and 4 p.m.

The clinic will be held in the lunchroom area of the general office building.
SUPPORT THIS WORTHWHILE CAUSE!



WALT DISNEY'S MAGIC KINGDOM CLUB

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Lucky you, if you're planning to get away from it all this month, or next. You not only leave all the snow and slush behind, but, if you're planning to make use of your Magic Kingdom Club membership, you've got some pretty spectacular adventures ahead.

Exclusive vacation plans at Walt Disney World in Florida include the special Vacation Kingdom Holiday, which offers prime accommodation in the futuristic Contemporary Resort Hotel or in the relaxing island atmosphere of the Polynesian Village. Or, if you're a bit more adventurous, you'll want to take advantage of the Camping Jamboree at Fort Wilderness Campground, which boasts fully-equipped campsites in the seclusion of the Florida pines. River Country, the newest attraction in Walt Disney World, is also located in Fort Wilderness.

And golfers will find paradise itself, with the Golf Getaway plan; two championship courses surround the Golf Resort Hotel, and are challenging to even the most expert golfer.

The newest and most exciting Magic Kingdom Club plan for 1977 is the World Vacation in Lake Buena Vista. You'll stay three nights in a luxurious Vacation Villa, perched along a beautiful lagoon, or in a unique treehouse. And you'll enjoy four days' unlimited admission to the Magic

One of the Lake Buena Vista treehouses in Walt Disney World. Treehouse accommodation is just part of the Magic Kingdom Club's exciting new World Vacation plan, available exclusively to Club members and their families.



Photo courtesy Walt Disney Productions ©

Kingdom and full use of the Walt Disney World transportation system.

If your intentions are to head for Disneyland in California, well, special holiday plans are available here, too, for members of the Magic Kingdom Club. Stay for two days or twenty, you'll find the prices are right and the accommodations absolutely superb.

If you're already a member of the Magic Kingdom Club, you probably already know about these special vacation plans; if you're not why not join right now? Simply send a written request for your FREE membership card to: MKC Director, "The Triangle", Inco Limited, Copper Cliff. And have a happy winter holiday.



Logo Writer – Frank Homer

This month's logo writer is Copper Cliff's Frank Homer, supervisor of employee benefits. He joined Inco's accounting department 26 years ago and moved into the benefits group when it was formed in 1971. His natural interest in people's well-being, plus his liking of people in general, make him a natural for the job.

His activities on the job are quite satisfying, Frank claims. He takes an active part in directing Preparing for Retirement Sessions. "The sessions are a give-and-take learning process that people, years away from retirement, should look at. The sessions teach the proper way to approach that time of one's life," Frank says. "Personally, I could never retire to take it easy. I would retire to do something."

Keeping active is another of the many things Frank does well. With an artistic talent and an eye for perspective, Frank is becoming one of the better known local artists. His work is in demand, and many local homes boast one or more of his

bright and interesting paintings of the Sudbury area. One of his drawings, now on exhibit at Muzak, recently won an award from the Northern Ontario Artist Association.

Frank is also a cross-country ski enthusiast, claiming the sport is good exercise and fun. It gives him a chance to get outdoors with his two daughters, who also like the sport. With all these activities, Frank still finds time to read two books each week, with his taste leaning toward autobiographies, Russian history and anthropology. He also plays piano, "for the entertainment of my family", and enjoys modern music, "in small doses at a time."

Frank also has faith in the youth of today. He and his wife, Sally, have raised five children, and he feels that the trend is moving back toward the traditional values of life. He is particularly impressed with the ability of youth to travel and see the sights of the world. "I hope to see some of the places I've read about," Frank says.

