



Editor, Rudolph Kneer, Copper Cliff



On the cover . . .

The approach of Christmas brings calm out of chaos, comfort in trouble, goodwill where there was strife, and the first warm glow of that serene and tender happiness which reaches into every heart.

What more appropriate a cover than this bright-eyed youngster, in whose face is reflected the Peace and Goodwill which are the essence of the Christmas spirit.

May this spirit of Goodwill be with you again this Christmas-tide, and may 1977 bring all of us good health, peace and happiness.

December 1976 Volume 36, Number 12

Published for employees by the Ontario Division of Inco Limited, Copper Cliff, Ontario, POM 1N0. 682-0631.

Prints of most photographs appearing in "The Triangle" may be ordered from D. Dionne, 170 Boland Ave., Sudbury, or call 674-0474. Cost is \$3 each.



The 16th annual dinner of the Toronto Chapter of the Quarter Century Club was held at the Royal York Hotel recently. James C. Parlee congratulates Hugh C. Garven, process manager in the process development department, following the presentation of his pin by Inco chairman Edward Grubb. Mr. Parlee, right, former vice-chairman, and Inco president J. E. Carter, previously members of the New York Chapter, were officially transferred to the Toronto Chapter. Unfortunately, Mr. Carter was unable to attend. H. A. Laine, assistant vice-president of Inco and program chairman for the dinner, is at left.

Appointments

Cameron Adams, process assistant, Copper Chift copper retinery.

Jim Ashcroft, superintendent, Crean Hill mine.

Barry Bowerman, project leader, Copper Cliff nickel refinery.

Thomas Christoff, general foreman, Port Colborne nickel refinery.

Stanley Cole, industrial evaluating analyst. Copper Cliff.

Ryan Cooke, project geologist, Copper Cliff

Barry Cooper, engineering graduate. Copper Cliff North mine.

Ralph Crichton, training supervisor, iron ore recovery plant.

Jim Elliott, coordinator, surplus depot. Frood-Stobie mine.

Elizabeth Grooms, keypunch operator. Copper Cliff.

Robert Hughson, maintenance general foreman, Creighton mine.

Frank Kelly, superintendent. Stobie mine.

Bruce Kerr, shift foreman, iron ore recovery plant.

Jean Lalande, mine foreman. Little Stoble mine.

Dennis Landriault, process chemist, matte processing, Copper Chtt Wayne Lavaille, plant maintenance coordinator, Garson mine.

Mike Lizotte, specialist, maintenance engineering, Copper Cliff.

Joseph Loring, mine foreman, Stobie mine.

Don MacKeigan, superintendent, Little. Stoble mine.

Gary MacLean, general mine foreman. Creighton mine.

Robert Matthews, project leader, Copper Chiff copper retinery.

Ray Mayer, general foreman, iron ore recovery plant.

Don McLeod, superintendent, Garson mine.

William Merrick, process chemist. Copper Cliff copper refinery.

Gary Moore, superintendent, Coleman mine

Pat O'Hearn, dust sample analyst, mines ventilation. Copper Clift.

Harry Pentney, supervisor, purchasing and warehousing, Shebandowan mine. James Phair, planner, Shebandowan mine.

Robert Ross, process foremain, matter processing, Copper Cliff.

Alexander Rutherford, process assistant, Port Colborne nickel refinery. Michel Sylvestre, surveyor, Frood mine

Before Trouble Occurs:

Inco Trouble-Shooters Use Infrared Camera to Detect Potential Electrical Problems

Trouble-shooters working in Inco's Nondestructive Testing section have been singling out faults in the massive electrical systems before trouble occurs. Their new vision into correcting problems can be directly attributed to "Thermovision", an infrared camera used to locate potential points of power failure.

The camera works on the basic principle that all objects emit heat, or infrared radiation. "Thermography" is the term used to describe the process of making a visible picture of this thermal radiation.

The infrared camera is panned across the various parts of company substations until a possible fault shows up on the camera display screen. Variations in the temperature of a surface can be seen as lighter and darker areas. Points of potential failure appear as hot (light) spots on the viewing screen. Since deviation from a normal temperature can be detected at a distance, the unit makes possible the study of an entire substation from the ground.

A portable equipment mount, made up of an integrated tripod, display platform and camera panorama head, allow for fixed location viewing. In order to adjust to the various challenges it will face, the camera is also equipped with interchangeable front lenses and extension rings for different fields of view, varying from telephoto to wideangle and close-up.

The Thermovision's characteristics are stored in computer memory so that the severity of the trouble spot can be quickly and accurately determined.

The system is also used for trouble shooting refractories, motors, printed circuit boards and environmental studies



Working on the principle that all objects emit heat, "Thermovision" has given inco's Nondestructive Testing section a new approach to detecting potential electrical problems. Possible faults are indicated on the camera's display screen as variations in temperature are indicated through lighter and darker areas. Norm Pigeon, a specialist assistant, pans the camera across a company substation during a routine inspection.



You're invited – Greenhouse Christmas Displays

Again this year, Inco's greenhouse on School Lane in Copper Cliff is inviting the public to enjoy its special Christmas displays. This third annual exhibition will feature poinsettias, cyclamens, amaryllis, azaleas, mistletoe, Christmas peppers, holly, and new varities of bromeliads. There'll be a special wall of hanging baskets and, of course, many varieties of tropical plants, including African violets, Reiger begonias, lemon tree and miniature orange tree.

The displays will be available for public viewing beginning December 10 and continuing through till January 2, with the exception of Christmas and New Year's days. Hours run from 2:00 p.m. to 10:00 p.m., Monday to Saturday, and from noon till 10:00 p.m. on Sundays. Special hours will be in effect December 24 and 31, from 8:00 a.m. till 4:30 p.m., and specific hours have been set aside for school tours.

In addition to housing tropical and temperate plants for display purposes, the twin greenhouses, which were officially opened in 1974, continue to provide a working area for Inco's program of agricultural research.







Family Album

Then and Now Remember?

September, 1957 — Angelo and Prassede DeFaveri, with Maria, 13, and Lucy, 8. Angelo's at the Port Colborne nickel refinery.



September, 1976 — Angelo and Prassede, with Lucy and Maria. Angelo is with the yard department at Port Colborne nickel relinery.



May, 1954 — Tom and Kay Peters, with Martha, 5, and Michael, 3. Tom is with the Copper Cliff agricultural department.



January, 1976 — Tom and wife Kay, with a grown-up Martha and Michael. Tom is an agriculturist with Inco's agriculture department.



April, 1956 — Pat Dinan and wife Helen, with Lorna, 4, and Kirk, 2. Pat was a Creighton miner.



May, 1957 — Don and Pat Horne, with Eric, 1, and Danny, 3. Don works out of Frood-Stobie mine and lives in Lockerby.



November, 1976 — Pat and Helen, with Lorna and Kirk. Pat is a safety supervisor at Copper Cliff South mine.



October, 1976 — Don and Pat, with sons Ron, 19, Eric, 21, Jason, 17, and Dan, 23. Don is with mines engineering in

First Aid First

It's all part of the examination which will award St. John Ambulance standard first aid certificates — Denise Vallieres, left, agriculture department, applies an elbow bandage on "patient", Rasinder Bhagrath, maintenance mechanic at the Clarabelle mill.

Examination time for this year's first

For Hank Derks, chief first aid co-ordinator with safety and plant protection, first aid really does come first — and always has, even before he joined the company in 1959.

"First aid is my life; sometimes i'm amazed at how many people with families don't know the basics of first aid. The course definitely makes for a safer worker, and enables the individual to use first aid techniques, should the need arise, on his family and friends, as well as on the job. My aim, really, is to promote wall-to-wall first aid".

Sure looks like that goal is being reached: last year, Hank and his group arranged first aid training for over 1,500 company employees; this year, the figure will stand at over 2,200!



Examiner, Ron Gilchrist, first aid attendant at the Copper Cliff smeiter, observes as Stephen Cleary, left, design engineer, general engineering, splints a supposed fracture of the lower leg. "Patient" is George Cochren, process labourer, F.B.R. building, matte processing.

at the Inco Club aid instruction course



Marty Marion, crusherman at Creighton mine No. 9 shaft, applies mouth-to-mouth artificial respiration to special mannikin, "Anatomic Anne".

"We're putting through a lot of people each year because it's not just the annual course any more, it's become a day-today thing".

With four full-time instructors now available, the methods of offering first aid instruction have become more diverse; for example, one full day a week for two consecutive weeks provides the same results as the annual course, which is based on two sessions a week for four weeks. And now, first aid's being taught at the local plant level, right on the job.

Successful completion of the courses gives the participant a St. John Ambulance standard first aid certificate. And, of course, the training can easily be put to use for the Parker Shield competition, held early in the new year!



Andre Houle, left, switchman at Frood mine, applies the revised Sylvestre method of artificial respiration to "patient", "Fergie" Boyd, security guard, Copper Cliff complex. Checking technique is examiner, Bob Sallows, plant protection officer. Frood-Stoble complex.



Plant protection personnel admire the new "Resusci-baby" which will be used to instruct mouth-to-mouth resuscitation on infants. From left are Wayne Wilson, Lionel Rochon, John Burke, Hank Derks, Bruce Wagg, Kurt Fuerniss, and Frank Mazzei.

Open House at Nickel Refinery



Some of the people who helped make the open house a success. From left, Glino Gualtieri, Len Horner, Karen Curry, Eric Arndt and Shirley Harper.

The Copper Cliff nickel refinery recently held its third open house when 125 visitors toured its facilities. Employees familiar with the plant were allowed to act as four guides for members of their own families and friends.

Throughout the hour-long tour, visitors viewed the top-blown rotary converters, the control room, the utilities section, the reactor area and the packaging section where samples were handed out.

Back in the administration building, refreshments and donuts were served, and visitors were shown the film "Winning of Nickel".

A special tip of the hat to the many volunteers who helped make the day a success. Special thanks also to Karen Curry, Mary Sitko, Joe Dippong and Joe Nicholls, members of the organizing committee.



A display of nickel products in the packaging section catches the interest of, from left, Helen Logothetou, Kali Patitsas, Pantelis Relias and Tom Patitsas. Pantelis is a control-room supervisor and was acting as the tour guide for this group.



Joe Nicholls explains the tour route to visitors. From left, Arthur Poirier, a process foreman in the reverb section of the Copper Cilff smelter, Paul Quesnel, Ricky Poirier, Bernice Poirier, Anita Poirier and nickel retinery employee Irene Poirier.

Ontario Youth Choir Charms Sudbury Audience

Members of the Ontario Youth Choir were recent guests of Inco at a Copper Cliff Club luncheon. The choir, comprised of 47 students from various Ontario schools and universities, was in Sudbury to perform at St. Andrew's Place as part of its Northern Ontario tour.

Performances by the choir also took place in Timmins, Thunder Bay, Dryden and Brandon, Manitoba, the choir's first engagement outside the province of Ontario.

The tour ended with a taping session in Ottawa for the CBC Television. Christmas Special and an appearance at the National Arts Centre in honor of World Music Day. Along with performances throughout the tour, the choir also sponsored workshops for both the general public and student audiences.

In its short history, the choir has rocketed to success. In 1975, the Ontario Youth Choir was chosen by the CBC as their entrant in the BBC "Let The Peoples Sing" international choral competition. It has also been announced that the Ontario Youth Choir has reached the finals of the CBC national choral competition.

Needless to say that such an outstanding choir has no shortage of applicants; as a matter of fact, more than 170 young people auditioned for the choir in March of this year. Besides the reward of learning from true professionals such as conductor Jon Washburn and assistant conductor Robert Cooper, choir members benefit from many other rewards. Bursaries are given deserving young men and women by public spirited citizens and service groups.

The Ontario Youth Choir 76 will be seen on Wednesday. December 15, at 10 P.M. on CBC TV when they will present a 30-minute Christmas program.



John Washburn conducting the Ontario Youth Choir before a capacity audience at Sudbury's St. Andrew's Place. In its short history, the choir has rocketed to success.

Megan Brown, the only Copper Cliff member of the Ontario Youth Choir, with proud father, Ron Brown, assistant to Inco Limited's vice-president, responsible for mining and milling.



With letter membership of well over a million industry' the Boyal Order of Meaker to come a fend was a near is indeed on 1990 in an all orders in Order of the responsibility of Standard in Order of the membership is stage up of indeed made in 4 feet membership is stage up of indeed made in 4 feet membership is made up of indeed mode of your mode of the Mede of the Meaker in Meaker in Meaker in the Meaker in Meake

But not what Sit up out the Magnetic Courses in the Property of the Order of the Property of the Order of the Grand of the Subsection of t

I Wo no so to bed to which wire using, if at us. There also compress the public to a underlying of the underlying to the total when you get a unit bown is to the underlying the fact bown is to be underlying the factors of the factors of the total half of the underlying the factors of the total half of the total half

The Levil Order of Medral is known us from the father to the analysis are action internal phalification in Spiciary. Fininged Inspudit Islawh Lindke sing ethological Moses in total year be pubblished existing on the property of disgos instituciones en arcarantes. cures requies annoes les cuerns a certaevents. Through beene veribula ettarta and a complete of the Systemy Covert high a Clayed Titre Missey (V.C.) acted to support feed for and exibyconverge, agained equipment. For example in particular fund machine was peed and death the Suspey line. District Beauty on the interest on thems. Control of the enjoyment of your prior of ut fra Algeria Santonum i jedija in tea Ordán upichagang Brotheringog Week. on large and printing supremental programs. places so meaning by in Alberta.

It's Open Season all year round . . . for the Loyal Order of Moose

And in Popular with the enternition haute updated about a composition of the thesical alphaness, therefore is used to publish the control of the very unique asing isometric in Vegocondition of Mapped and in the control of the Mapped and in the control of the Mapped and in the control of the control of the Mapped and the control of the control of the Mapped and the control of the control of the Mapped and the control of the control of the Mapped and the control of the control of the Mapped and the control of the control of the Mapped and the Mapped and the Mapped and Mapped Mapped and Mapped Mapped Mapped and Mapped Ma

Modisent (t), I the online of Juliante of the members on later who must lost one or cath premiers to later a complete of the rest of the members of later incomplete of the control AC or less west of Cricisos laterally in the modistry of the west of Cricisos laterally in the modistry of the west of Cricisos laterally between work of the west of the action of the second to the action of the second to the action of the control of the action of the action of the control of the control

nd uning your objets from tox Sudduty: you

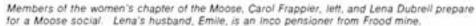
Measanther Televisic contentment in a content of the whole for a page of type that the companies with the content of the conte

Indeed too Late. Grown of Model case proceeds to held to a concern to the first place are acceptable to the case of generality and the case of generality and the case of generality and the case of t

Members quitible proud



The newly elected officers for the Sudbury Loyal Order of Moose. From left, Claude Plette, secretary; Bill Howard, Inner guard; Emile Dubrieul, treasurer; Clarence White, trustee; Joe MacDonald, junior governor; Ross Chadwick, governor; Joe Bedard, sergeant-at-arms; D'Arcy Bedard, outer guard; Gennaro Rossi, trustee, and Paul Dorion, trustee.







The second annual Moose Casino Night was held recently at the Sudbury Lodge. Above, Lloyd Howard, from the mechanical department at Clarabelle mill, tosses his winnings. Below, sorting funny money, are Claude Piette, engineer at Coleman mine; Alex Bellrose, drittman at Creighton mine; Lorraine Holmes, and Mickey James. All are members of the Moose.





Deep in thought, Marie Emery, a process labourer at the Copper Cliff smeller, sits down for a well-earned lunch break.

Lunchpail Ladies . . . here

Nearly three years ago, wom for – and obtaining-hourly-ra previously been considered "Triangle's been keeping track and a recent visit to Dave Ch and benefits department in \$100 women are now employe surface operations.

Our last report, in May of 1975, featured Bonnie Hearn, at that time single, 21, and a process labourer in the acid recovery plant at the Copper Cliff copper refinery. Last month, we talked to her in the electrowinning section of the refinery, and not a day too soon! In fact, we caught her the day before she left the company - for the best of all possible reasons . . . Bonnie's since become a missus and is now expecting! A grinning Bonnie told us that Inco was in some way responsible for her whirlwind romance! Seems that last winter, Bonnie accidentally pulled a pendulum crane off its guide wire. Richard Leduc was called over to fix it ... they met, dated, and 63 days later, they married! Richard, now a first-class electrician with Inco's construction group, has been with the company for going on eight years. When asked if she'd ever return to Inco. Bonnie gave us an emphatic "yes!". "I've been here 21/2 years; there've been trials and tribulations, sure, but I've had a good time. And I'll tell you, working here has set me up, both emotionally and mentally, for anything I'd ever want to do in the future. I've worked for and with the greatest guys, and I'm really happy that Inco's given women a chance to come here and work". Farewell words? "I'll

miss the peope I work with, they're really special".

Over at matte processing, we talked to Caroline Ruttan, a process labourer in the fluid bed roasting building. Caroline's been with the company for over a year now, and was one of the first females to work in the F.B.R. building, "At first, I guess they didn't know what to do with us, but they're pretty used to us now". What first attracted Caroline to Inco? "Well, Inco's a large company and there's room for advancement - lots of potential." Shiftwork? Caroline admitted that "you really have to reorganize your lifestyle, but I don't mind it. I think straight days'd be more tiring. This way. you get long weekends every four or five weeks, so that's pretty good". The future? Right now, I'm just a process labourer, but eventually, I'd like to get into the control room. And the longer I stay, the more opportunities I see opening up".

A co-worker, Debbie McLaughlin, started in matte processing's separation building over a year ago. We asked her, 'why Inco?' ... "Well, I guess you could say my family influenced me. I have two sisters working for Inco (Vivian Douglas, in matte processing's F.B.R. building, and Jane Proulx, in the electrowinning plant, at the copper refinery) and a third sister

trying to get on now; my brother works at Inco (Ralph Chapman, Creighton mine), my husband's with Inco (Guilmond McLaughlin, scale clerk at the copper refinery) and so was my dad. (John Chapman, iron ore recovery plant). Actually, I was very determined to work here. And I figured if I didn't like it, I could quit. Well, I'm still here, I'm serious about it, and I think I'll be staying for some time!"

We found Marie Emery, process labourer, over at the Copper Cliff smelter, reverberatory furnaces section. "I started at the copper refinery last November and came here to the smelter in January. I'd worked at other places in Sudbury, but the pay wasn't as good". Shiftwork? "I recently turned down steady days and weekends off back at the copper refinery. because I like shifting. Guess some of the others thought I was crazy, but shift work goes good with my family - like, it's very handy for taking the kids to doctor and dentist appointments". The future? . . . "I wouldn't mind working at the rolling mill when it's ready: I live just past Whitefish, and it'd put me about ten miles closer to home"

Looks like our "lunchpail ladies" are here to stay! They've got career on their minds, and they're making it work.

to stay!

en began applying
te positions that had
for men only." The
, of these "lunchpail ladies,"
apman at Inco's employment
judbury revealed that almost
d at various of the company's



Operating a hoist is just one of the many new things learned by Caroline Ruttan, process labourer, matte processing.



On her next-to-tast day on the job — Bonnie Ledwc (nee Hearn), a process labourer at the Copper Cliff copper refinery.

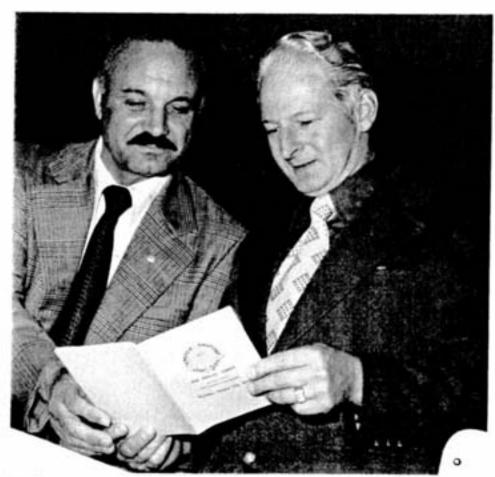


Debble McLaughlin, process labourer, matte processing, measures the level of feed in a surge bin at the F.B.R. building.



Joe Fabiano, left, of the sample department, reminisces with pensioner Mike Hanuszchuk.





Mike Citrigno, left, and Louis Schneider look at their photos in the program. Both are newly inducted members of the Port Colborne Chapter of the Inco Quarter Century Club.

Membership in the Port Colborne
Chapter of the Inco Quarter Century Club
has reached 861 with the recent induction
of 101 new members who had their first
opportunity of attending the regular
annual dinner meeting at the Inco
Recreation Hall recently. Many of the
new members, along with a large
contingent of veteran employees, turned
out for the gala event.

The evening started with a brief welcoming address by Charles Ott, assistant to the manager of the Port Colborne nickel refinery, with the invocation given by Herb Roberts.

The entertainment portion of the evening was hosted by cartoonist-comedian Les Barker, of Toronto, and featured songstress Sandra Sidwell, of Columbus, Ohio; a fast moving dance act, The Toppers, and a versatile musician, Andy Blumauer, originally from Craz, Austria.

The entertainment was excellent and the meal superb, but it was evident that the most popular part of the evening was the break at the end of the meal when everyone had a chance to renew old acquaintances and reminisce with friends about the "good old days."

Port Quarter Century Club Now Has 861 Members



Andy Blumauer, a versatile musician, provides entertainment for part of the evening.



Checking through the quarter century program prior to dinner are, from lett, George Lambert, John Tronko, Bob Duke, Art Byng and Grant Lampman.



Pretty Sharon Wayne performs a solo to the delight of the large audience.



Frank Michael, lett, and Leo Julien enjoy an alter-dinner chat. Recalling memories of the good old days dominated the evening's conversation.

A Touch of the Past ... Inco's

To those unfamiliar with the hobby, the initial thought of the model railroader conjures images of someone who spends too much time locked in the basement, watching his toys running in circles. The assessment, which is patiently tolerated by the members of the Sudbury Northern Railroad Club, is not completely accurate.

The initial step into model railroading usually starts with a Christmas gift to a youngster. Often model railroaders come from backgrounds linked to the railways. and parents and relatives add their knowledge to fuel the interest. Most members of the club, however, come from occupations not directly involved in the hobby. Yet they bring their interpretations to the monthly meetings for discussion, for they all share a deep interest in the hobby of model railroading.

The dedicated model railroader can take his hobby as far as the imagination, budget and available space will allow. Many members of the Sudbury Northern Railway Club have constructed large layouts in their basements or corners of their homes. These layouts, complete with detailed scenery and landscaping, are often the result of years of collecting and planning. Despite the hours of forethought that may go into a layout, many are never "finished", although they reach a stage of completion. The owner finds the original plan was not really what he was after, so the layout is terminated and another started in its place.



Art Davies, left, and Michael Squirell examine a section of track at the layout's edge. An added fouch of realism is created through backdrop scenery which borders the perimeter of the layout. Available in stores, many members choose to paint their own which often extend to a few feet in height, while some have the scenery painted on the walls for added effect.



During a recent gathering of the Sudbury Northern Railway Club, George Bulmer, left, supervisory timekeeper at the Copper Cliff time office, discussed his layout with Michael Squirell, a sampler at the Copper Cliff mill, and Art Davies, a stationary engineer at the iron ore recovery plant. Club members take turns hosting the monthly meetings.

Model Railroaders Making Tracks

Collection also plays a major role in the hobby.

Through the accumulation of hundreds of models of engines and cabooses, the hobbyist develops a unique sense of history. Trains, once the marvel of a changing society, have not lost their ability to fascinate mankind.

Unlike the antique dealer, whose concern is based on an original artifact and its story, the model railroader is content with a facsimile. The trains are technical perfection to scale. In true collector's gumption, the model railroader obtains a sense of personal satisfaction from looking at, handling and particularly owning examples of splendid craftsmanship.

Much of this sense is picked up while discussing the models owned by members of the club. Through the meetings, members touch on many subjects. While some discuss the government's approach to transportation development, others talk about the development of new blasting techniques used by the railways to tunnel through mountain ranges. Electrical problems are a favorite topic and many members, having constructed large layouts on their own, are quite knowledgeable about wiring and are willing to share their ideas and experience with the novices. A number of the club members have no layout at all, yet take an active part in the Sudbury Northern Railway Club simply because they are fascinated by trains.

Shopping for a model railroad can be confusing because of the variety of makes, models, gauges and layouts available to the beginner. It is wise to consult an expert before making a purchase, and members of the Sudbury Northern Railway Club are always willing to lend a hand to those looking for information. Talking with the man behind the counter of a reputable hobby shop is another smart move, as he can supply the advice, opinions, prices and literature essential to a good purchase.

It is easy to see why the model train is such a popular gift at Christmas. Their traditional appeal, coupled with the modern trend toward creativity, make the model train an ideal present for a friend with a growing mind.



Sharing their interest in model railroading, Art Davies and his son, John, enjoy comparing collection pieces with those depicted in the many books available about railroads. Many members of the club have become fascinated with the history of railroads and collect volumes of information on the subject.



Since collection plays a major part of the model railroading hobby, Sudbury Northern Railway Club members have the chance to discuss their acquisitions with other enthusiasts. George Bulmer, left, swaps stories with Dick Grattoni, a carpenter at the Copper Cliff carpenter shop. Needless to say, Dick enjoys visiting the Copper Cliff locomotive shop.

A Christmas Fantasy

Story and Muenations by Amy-Lynn Kneer.

The digital time calculator on the starship Alpha Centauri, bound for the star of the same name, described the exact time: it was 8:04 p.m. December 24, 2074.

Crispin could usually be found in the lounge of his father's starship, listening intently to his grandfather's stories. The knowledgeable old man would tell him all about the starship Alpha Centauri and its destiny. He would inform him of the myriads of other stars in the universe besides Alpha Centauri, and the constellations which they formed. Crispin's grandfather especially liked describing, in great detail, the planet Earth. This he would do with indefatigable enthusiasm as he firmly believed that each young boy should know something about his origin.

That evening, however, the old man was unusually anxious to tell his grandson about Christmas which he had been accustomed to celebrate on Earth many, many years ago. In fact, according to the calculations of the scientists aboard, Earth had been pulled out of orbit in March of 2067, and after a few months of wandering around its solar system, had collided with the planet Venus, causing a fantastic explosion.

"Did you know that tonight is Christmas Eve?" he asked, his eyes filled with eagerness. He knew very well that Crispin did not know anything about Christmas, as the boy had never experienced any of the customs and traditions of Earth, having been born on more, if you really want to get technical, the winter solstice doesn't fall on the twenty-fifth either, but that is of no importance. The true spirit of Christmas doesn't need a date."

Enchanted, Crispin continued to listen to the story of Christmas.

"In the years that followed, 'Christ's Mass', or Christmas, was celebrated in family gatherings. Everyone was happy, because the Christmas Spirit filled them with love. They gave each other presents to show their love just as Wise Men had given gifts to the Christ Child. Soon, children became the focus of Christmas.



People brought gargeous evergreen trees into their homes.

the starship three entire light years away from the original planet.

"I don't think so," Crispin replied, and he began to prepare himself for a most enjoyable evening of story-telling.

After taking a few moments to adjust himself in his cosmic couch, the grandfather began . . .

"Christmas," he explained, "all started with the story of Jesus Christ, who was born of the Virgin Mary in a humble stable in Bethlehem. Jesus was not just any child, for He was the Son of God. The Christians, who were the followers of Christ on Earth, would celebrate Jesus' birthday with a special ceremony, "Christ's Mass". Actually, the Son of God was probably born some other day but the Romans chose December 25th because it was already a holiday to celebrate their winter solstice. What's

and they quickly began to believe in an imaginary but powerfully wonderful bearded man named Santa Claus, who showered gifts on everyone who had been good in the past year. The people brought gorgeous evergreen trees into their homes during the Christmas season and decorated them with pretty ornaments and garlands. They put coloured lights on the outside of their homes and sang Christmas Carols. They also took great interest in telling Christmas stories and sending greetings to friends whom they were unable to see at this holiday time. Outside, the entire landscape would be enveloped in a blanket of white snow which glistened under the bright lights."

The grandfather's eyes sparkled. He could see that his grandson was enjoying the story.



The starship was bound for another star, Alpha Centauri.

"But after a white," he said in a solemn tone, "the Christmas feeling, with all of its joy and beauty, began to fade."

Crispin's curiosity was aroused. "How could something so mysteriously mighty fade?" he inquired.

"People are haughty creatures," his grandfather claimed. "Once they have gained a certain amount of knowledge, there is no telling what they'll do. In this case, the people on Earth became too proud and, no longer being the humble creatures they once were, failed to believe in the story of Jesus, because they had completely lost what had once been so valuable to their faith — their innocence. Even the children, because they were now educated at such an early age, figured they knew more than their parents, and no longer wanted to believe in Santa Claus, or the Spirit of Christmas.

Families began to lose the special force of love which had once bound them so closely together, and gradually they stopped having a Christmas reunion.

"Because the people had been so wasteful of their energy, they couldn't use lights on the outside of their houses anymore; they had to conserve it now.



Crispin listened intently to his grandlather's story.

"In the homes, beautiful green Christmas trees which had once filled the air with the scent of fresh evergreen, were replaced by cold metallic "Christmas trees" because their needles didn't shed.



They gave each other presents to show their love.

"Christmas cards became too expensive to mail from one town to another, and everyone was too selfish to pay out extra.

"People began commercializing Christmas to such an extent that they began to place more emphasis on receiving than giving. Thus, they completely lost the spirit of Christmas which was giving, in love, the best of oneself to another."

Crispin's crystal blue eyes began to water. He suddenly felt very sad. With unspoken gentleness, the aged grandfather put his trembling arm on the boy's shoulder.

"Perhaps," he said softly, "we can revive the spirit of Christmas when we make a new start on Alpha Centauri. If we keep on recognizing the date every year, we shall not lose the feeling — but our feeling has to be strong and sincere from the start."

Crispin felt comforted by his grandfather's words. Happily, he looked out of the window, his eyes scanning the wonders of the universe. Suddenly, the young boy caught sight of a superbly bright star. In these few moments, Crispin, like the Shepherds of old, had heard the angelic hosts singing and praising God with those words of Faith, "PEACE ON EARTH TO MEN OF GOOD WILL".



Homes were decorated with pretty ornaments and garlands.

Included in Inco's "Salute to Mining" display were a number of carvings by Creighton mine's artist-in-residence, Charles Paxy. Using one of Paxy's models, tour guide Robert Fleming, left, explains the operation of a slusher hoist to interested spectator, Jackie Martin of Toronto. Needless to say, the carvings attracted many viewers.

There's more than one use for some of the gigantic equipment used in the mining industry! These grade four and five students of St. Aloysius Separate School in Sudbury perched themselves alop a huge ST-8 Scooptram tire to watch inco's audio-visual presentation, "Mining for Nickel".



City Centi Salute

Well, it was certainly a "first" for the Sudbury area, and, without a doubt, a total success! City Centre's recent "Salute to Mining" provided a unique opportunity for the unfamiliar to acquaint themselves with the complexity and magnitude of our mining industry; in particular, family and friends of people directly involved in mining were able to gain a working knowledge and better understanding of the many different phases of Sudbury's number one industry.

The "salute", which included a comprehensive representation of the mining, milling, smelting and refining areas, featured information centres, heavy equipment displays, films, ore samples and related products, slide presentations, and mining models. In addition to generating a great deal of interest, the week-long event helped to satisfy the curiosity of adults and children alike.

Local school boards were invited to have classes of children tour the display areas and take in audio-visual presentations; questions were answered by the various mining and equipment representatives on hand for that very purpose.

"All in all, we feel it was a complete success; we're hearing good comments, and all of the participants want a repeat", said Doris Liske, assistant property manager at City Centre for Marchland Holdings, who was responsible for originating and co-ordinating the event which resulted in one of City Centre's biggest promotions ever. "It really caused a lot of interest. People were taking the time to watch the various demonstrations and ask questions. And that was the

e presents a special

to Mining

whole purpose — to promote knowledge and, in some way, help acquaint people with the many aspects of mining. I'm looking forward to doing it again".

Certainly, it was an outstanding effort on the part of City Centre; one that is deserving of special congratulations and the hope for a repeat performance!

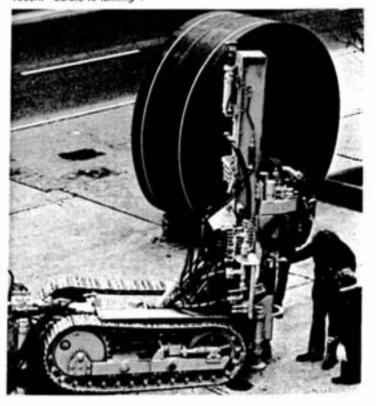


Fronting City Centre during "Salute to Mining" week, this particular dump truck has a capacity in excess of 27 tons. Many passersby were at first startled by the huge sidewalk displays of industrial equipment.

Inco's display also featured "Big Jim", the model miner, manning a stoper drill. Victor Walberg, centre, an electrician at Creighton mine, describes drilling procedures to interested onlookers, Leah Hackett and Linda Fuerniss.



In the foreground is a CIR in-the-hole drill; behind is a Blackwood-Hodge 1225-foot-long, 42-inch-wide conveyor belt, weighing over 11 tons — all part of the many displays featured during City Centre's recent "Salute to Mining".



Just in Time For Christmas:

Dave Fairbairn is Winner of \$5,000 Suggestion Plan Award

The spirit of giving made many appearances throughout the Ontario Division of Inco Limited this month, as dozens of employees shared in the benefits offered by the company suggestion plan. Top winner for the month, **Dave Fairbairn** of Garson mine, carted away the maximum award available in the plan. Dave's suggestion to replace all cribbed chute guards with steel chute guards in scoop cutand-fill stopes was good enough to pull in \$5,000.

Frederick Gilpin, of central shops, was another big winner, pocketing \$1,105 for a recommendation to design a triple-decked rotary table to machine Copper Cliff copper refinery cake moulds.

A suggestion to install vent pipe by using a spear on a scooptram bucket was good enough to put \$645 into the wallet of Francois Quesnel, of Little Stoble mine.

At Coleman mine. **Daniel Sherrington** suggested replacing transfer cars with a chute system, and was presented with a cheque for \$530.

Another big winner from Little Stobie mine was **Robert Brawley**, who was awarded \$450 for a recommendation leading to the installation of less expensive valves on scooptrams.

Fabricating wheel pullers for scooptrams was an idea worth \$265 to Florient Seguin, of Stobie mine.

Tom Hall, of Copper Cliff North mine. designed a puller to remove wrist pins, and was awarded \$175 for his effort.

Another winner from Little Stobie mine.

Mike Campanale, won \$150 for a
recommendation to use steel rails to

reinforce cement walls in front of ore and rock passes.

Reno Tessarolo, of Stobie mine, recommended installation of custom sized liner plates in loading pockets and picked up \$120 in the process.

A team from Shebandowan mine split a prize of \$110. James McLeod and John Valiquette came up with a method to prevent bolts on spider assemblies from loosening.

Awarded \$75 this month were: Garry Bradley, of central utilities, for recommending installation of electrical outlets on each corner of a cold box and on top of the regenerator platform: Donald Gibson, of Frood Stobie mill, for a suggestion to run tygon tubes through plastic sections on the header plate for the X-ray analyzer: Leande Lalonde, of Frood Stobie mill, for suggesting increasing the water spray line to 11/2" to the top of the launders: Larry Lebel, of the central repair depot, for prescribing thicker walls on cylinders of ST4 scooptram hoists; Victor Serhienko, of Frood mine, who suggested a method to relocate scoop cylinder hoses on top of the cylinder; and Keith St. John, of Copper Cliff South mine, who suggested placing a ditch in the center of the roadway. and using a ditching device on scoops.

Walter Little and John Dingwall, of Creighton mine, shared \$70 for suggesting modifications to Jarco scoop control pedal shafts.

Wayne LaFlamme, of the Clarabelle open pit, was the sole winner at the \$60 mark with his suggestion to make modifications to the No. 10 shovel dipper grizzly.



Frederick Gilpin \$1,105

A suggestion to replace fire extinguisher holding brackets with hood clamps on mobile equipment was good enough to award **Harold Reid**, of Copper Cliff North mine \$55.

The following employees received \$50 awards: Francois Champagne and Craig Bradley, of Copper Cliff North mine; Walter Deveau, Levack mine; Enci Diffilippo, Creighton mine; Perry Kirkbride, Creighton mine; Richard Lawrence, IORP; Leonard McGuire, Copper Cliff North mine; Robert McJannet, Copper Cliff North mine; Richard MacLeod, Shebandowan mine; Chris Nadjiwan, Frood mine.

At the \$40 mark we have Michael Belanger, Levack mill; Raymond Gouin and Gerry Guitard, Copper Cliff smelter; Normand Mailhot, Stobie mine; Daniel Patrie, Copper Cliff copper refinery; and Reginald Worthing, Frood Stobie mill.

Winners in the \$35 category were: Frank Chirka, Frood Stobie mill; Donald Piotto, Frood Stobie mill, and Gilbert Rochefort, Stobie mine.

In the \$30 category awards were presented to Roland Boesch and Glenn Smith, Frood Stobie mill, Colin Davey, IORP; Lidano Dimario, IORP; Raymond Guse, Clarabelle open pit; Loyd Kitler, Copper Cliff South mine; Jack Mikkola, IORP; Paul Noseworthy, central utilities; and Dan Robertson, Copper Cliff North mine.

Glenn Smith, of Frood Stobie mill, won a total of \$75 for three \$25 suggestions.

Marcel Dubois also won \$75 for three \$25 suggestions. Paul Barten, of Shebandowan mine, won a total of \$50 for two \$25 suggestions. Other winners in the \$25



Francois Quesnel \$645



Daniel Sherrington \$530



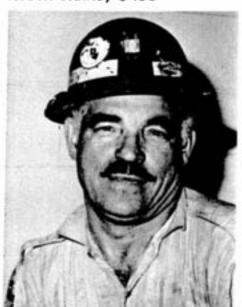
Robert Brawley \$450



Florient Seguin \$265



Tom Hall \$175



Mike Campanale \$150

category included Richard Brown, IORP;
Victor Collin and Leonard Hirvela, Copper
Cliff South mine: Raoul Corbeil, IORP;
Gerard Coupal, Copper Cliff copper
refinery: Mike Demers, maintenance field
force: William Dryland, Copper Cliff South
mine: Monty Duff, IORP; Larry Fielding,
Copper Cliff North mine: Loyal Lagrove,
central shops: Allen Neely, Copper Cliff
copper refinery: John Passi, Copper Cliff
South mine: Adrien Savole, Clarabelle
open pit: Marcel Servals, IORP; George
Solomon, Copper Cliff South mine: Mark
Tinkis, Copper Cliff South mine: and
Ronald Wigmore, IORP

Receiving \$20 awards were the teams of Richard Coupal and Tim Morse, Frood Stobie mill; Kenneth Randall and Marcel Dubois, Frood Stobie mill; Monty Duff, IORP; Maurice Gaudette, IORP; Colin Hurley, Coleman mine; Joe Koritko, IORP; Roger Landry, Copper Cliff South mine; Richard MacLeod, Shebandowan mine; Jack Mikkola, IORP; Ronald Wigmore, IORP; and Jean Wolfe, IORP

Winners in the \$15 category were:
Richard Coupal, IORP: John Duggan,
Frood Stobie mill: David Flake, matte
processing: Gerald Forest, Stobie mine:
Irme Horvath, Stobie mine: George
Kennedy, of central utilities, picked up a
total of \$30 for two \$15 suggestions: Walter
Kienapple, Copper Cliff smiller: Romeo
Lepage, IORP: Bruno Marassato, IORP:

Leo Pagnutti, IORP: William Phillips, Creighton mili; Leo Vincent, Copper Cliff copper refinery: Ron Wigmore, IORP; and Reginald Worthing, Frood Stoble mili.

Awards of \$10 were given to the team of Victor Powers and Gregg Doniec, Stobie mine: Charles Adams, Coleman mine: Wayne Austin, central utilities: Robert Bainbridge, central utilities: Garry Bradley, central utilities: Monty Duff, IORP. John Duggan, Frood Stobie mill: Charles Fraser, IORP; Rheal Gaudet, Coleman mine. George Kennedy, central utilities: Phillippe Larente, Stobie mine; Romeo Lepage, IORP; Bruno Marassato, IORP; Glen Smith, Frood Stobie mill; and Ronald Wigmore, IORP.

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



The Copper Cliff Mines Association had little trouble finding a full state of contenders for their annual curling bonspiel at the Sudbury Curling Club recently. A bevy of prizes were available to the winning rinks. Checking awards prior to the presentations are, from left, Willie Galipeau, Dave Stalker and Len Bouillon, all of whom played an active part in organizing the event. Below, Copper Cliff Mines Association president Ed Udeschini assists Joseph Dufresne and James McLean in preparation for the annual Fall Draw.



A capacity crowd was in attendance at the monthly meeting of the Sudbury Branch of the Canadian Institute of Mining and Metallurgy to hear Dr. Louis Renzoni speak on mining and metallurgy in the U.S.S.R. Along with his interesting address, the recently retired vice-president of Inco Limited also presented a vast assortment of slides. depicting mining in that part of the world. Discussing the evening's presentation are, from left, Levack area manager Milt Jowsey; Dr. Louis Renzoni; division director of environmental control Charlie Ferguson; Iron Ore Recovery Plant manager George Nowlan, and George Reed, vice-president of the Sudbury Branch, CIM.





Touring a mine proved to be an educational experience for **George Waldrum**, right, Deputy Minister of Education for Ontario and a recent visitor to Creighton mine's No. 3 shaft Accompanied by **Nick Sajatovic**, principal of George Vanier Public School in Lively, the deputy minister was taken on an extensive tour of underground workings.



Jim Crawford, senior timekeeper at the Port Colborne nickel refinery, spends a great deal of time painting scenery for the Port Colborne Operatic Society's presentations. Having applied his skills to many displays for first aid competitions in Port Colborne, Jim also created this Remembrance Day display which appeared in the refinery's changehouse.



A number of recent works by members of the Onaping Falls Art Club were on display throughout November at the Rothman Canada Centre in Sudbury. The exhibit featured prints. lithographs, oils, woodcuts, batiks and line etchings, with many of the works depicting scenes of the Levack-Onaping area. Studying one of the paintings on display are, from left, Helen White, Mary Mallette, Debbie Graham and Mary Jowsey.



Keith Henderson, the retiring superintendent of Crean Hill mine, found himself surrounded by friends and gifts on his last day at work. A firm believer that "a safe mine is really the best mine", Keith was presented with a plaque of his working motto. Mine employees also presented him with a recliner chair and numerous other gifts, including a "chainsaw" to pass the time. Presenting the gifts to Keith, center, are, from left, Fred White, Bill Turpelinen, Palma Bertrand, Reg Taylor, Willy Maenpaa, Frank Paradis, Romeo Brisebois, Howard Scott, Bob Hughes and Vic Deline. Elmer Manninen kneels beside the new chair.



Always strong contenders in the Sudbury Miners' Hockey League, the Levack mine entry guarantees action-packed games to fans in attendance. Levack team members include, front row, from left, Reg Duguay, Melvin Labine, Jules Dufresne, Don Stewart, Marcel St. Amour, and Jack Brisson. Back row, from left, Gilles Brunet, John Janakowski, Bob Rivet, Henry Blais, Gaetan Paquette and Andy Tremblay.



Considered by many to be the most improved team in this year's competition, the Copper Cliff South mine hockey team stands an excellent chance of taking top honors in the Sudbury Miners' Hockey League. Team members include, front row, from left, Ted Tinkis, Brad St. Jacques, Larry Fortin, Dennis Bacon, John Cyr, Mike Monette, and Ron Herbert. Second row, from left, trainer Mike Gaudette, Dave Lyons, Mike Chaput, Mark Bidal, John McLeod, Don Robertson, Roger Timony, and coach Verne Welss.



The Sudbury Symphony Orchestra has been pleasing the area's classical music lovers for quite some time. Two Incodes from the general engineering department, design engineer **Dennis Berryman**, left, and designer **John Durjancik**, have been performing with the orchestra under the direction of **Dr. Metro Kozak**.



Senior citizens, convalescents and the handicapped have all been benefitting from "Meals on Wheels", a voluntary, non-profit organization whose aim it is to provide nutritious meals to these deserving citizens. Volunteers are always needed to help in the "Meals on Wheels" campaign. Preparing to make their deliveries in the Sudbury area, three members of the Copper Cliff United Church review their supplies with Pioneer Manor kitchen supervisor Albert Mitchell, From left, Goldie Wynacht, Verna Shaw and Pat Hobden.



Although operating a switchboard and acting as a receptionist requires the skills of a juggler and the diplomacy of a mild mannered magistrate, **Elaine Blanchard** of general engineering, manages her job quite well. Elaine handles 14 incoming lines, along with the inter-office calls and four attendant trunks and always finds a smile for the visitors in the course of her duties.

"What kind of man deserves the most pity?" someone once asked Benjamin Franklin at a dinner party. Replied Franklin: "A lonesome man on a rainy day who does not know how to read."



Don Bradley, right, manager of engineering. Ontario Division, checks out final arrangements for the forthcoming maintenance and plant engineering conference, mechanicalelectrical division, CIM, to be held in Sudbury, January 25 to 27. With Don, who is chairman of the mechanical-electrical section of the Canadian Institute of Mining and Metallurgy, are Dave Unger, assistant manager of the Sheraton-Caswell Motor Inn. where the conference is being held. Design engineer Norman Connor lends an attentive ear as concept design coordinator John Gullick points out the guest speakers' schedule. According to Don, the conference will discuss the mechanics of mine maintenance.



The "Separation Rockets" lived up to their name, rocketing to the top of the Copper Cliff Matte Processing Softball League and picking up the championship. The Matte Processing Athletic Association donated trophies to the winners who included, seated, from left. Stan Killeen, Richard Trottler and coach, Bud Flindall, Standing, from left, Dave Reid, Bill Lawson, Clarence Senior, and Don Dorion. Other team members include most valuable player. George Chomitsch, Stan Pasierowski, Pat Lacelle, Jim Rafuse, Willy Larose and Al Cooper.



With property donated by Inco Limited, and built with the assistance of Wintario and the Community Centre grants, the new Levack-Onaping Community arena recently opened its doors to area residents, who vividly recall the original Levack arena where most of Levack's young people spent numerous hours during the long winter months. Names which bring back memories are those of the arena's first commissioner. Mel Young, and early community organizers Wally Kellett, Frank Doyle, Dwight Simpson, Jack Arthurs, Doug Parenteau and Doug Stead. Some of the members of the arena building comittee are, from left, Glenn Strutt, Harry Tuer, Gordon Moore, Pat Owens and Harold Bondett; seated in front is Mayor Jim Coady, of Onaping Falls. Other members of the building committee are Henry Koski, Colin Van Wallegham and John Mallek, Below, area residents line up for the recent official opening festivities.



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



The safey-conscious operations crew at the Iron Ore Recovery Plant's recovery building recently won the IORP Plant Safety Shield for the sixth time this year. The award is presented monthly to the crew with the best severity rating in the plant. IORP manager George Nowlan, left, presented the award to recovery building superintendent Tom Kirwan. Looking on in approval are, from left, Mike Lewis, Alf Bellerose, Bill Hurteau, Stan Savarle, Gord Ettinger, Bruce Williamson, Roy Busschaert, Ernie White and Reg Park.



Inco's Copper Cliff greenhouse isn't the only place raising trees, shrubs and flowers. The bright and roomy hoistroom at Coleman mine provides plenty of sunshine, and a number of plants are growing well since hoistman **Eric Wolfram** introduced them to their elevated residence. Hoistmen **Paul Berube**, left, and **Joe Kuhle** look over the leafy residents of the loft.



Apple Day was held recently in the Port Colborne area, and workers coming off shift at the nickel refinery were greeted at the gates by smiling boy scouts with baskets of shiny apples. Here Louis Bonfoco, Jr., 14-yearold son of Louis Bonfoco, of the yard department, receives a donation from Roger La Porte, an ironworker at the refinery. The day was termed successful, with enough money raised to carry on the scouting movement in the area for some time.



The coveted general engineering Blooperball Championship was captured again this year by the environmental control team, retaining their championship status for the third year in a row. Proudly holding the trophy aloft are Debbie Olfert, left, and Mary Buchanan. Standing, from left, are team members Jim Cox, Brian Bell, Pete Fabricios, Andy McCullough, Frank Bruhmuller, Hans Schmidt, Al Lippold, Bob Stanzel, Vic Gazzola and Jeff Grieve. Other team members include Mike Peters, Wayne Wilson, Bruce Urquhart, Phil Salo, Bill Elliott, Mike Carr and Bob Butler.



That's **Alex Gray**, Inco's agricultural technician, in front of the TV camera during a taping session for the popular **"Inco Presents"** program. **Andrew Welyhorskyj**, CKNC-TV cameraman, focuses in on Alex, who devoted most of the program to plant identification, with emphasis on the basic care of common house plants.



While on a recent visit to the Port Colborne nickel refinery. **Bill Edwards Sr.** visited the public affairs department. The retired foreman of the composing room of the Northern Miner Press Ltd., where the very first issue of The Triangle was printed, Bill vividly recalled the "good old" days back in 1936. Now 82 years young. Bill was pleasantly surprised when he was shown a copy of the first issue. He later toured the refinery with his daughter, **Betty**, wife of **Harvie Simmons**, a shear operator in the warehouse.



Keeping the iron ore recovery plant well equipped with the proper working materials is the responsibility of this IORP warehouse crew, from left, Frank Coyle, Wayne Trinier, Dennis Moxam, Ron Crate, Hardy Doherty, Art Erickson and Joe Kohan.



Executive secretary students from Cambrian College recently toured Inco's main office in Copper Cliff to become familiar with some of the business equipment being used daily by the staff. During the tour, clerk-stenographer Marlene Closs, of public affairs, demonstrated the use of an electronic composer and pointed out a finished copy from the machine.

"Memories And Music" To Have New Host

Since its inception some two years ago. "Memories and Music", aired over CIGM-FM Radio every Sunday at Noon, has presented in excess of 100 interviews with Inco Pensioners. For the month of December, four programs are scheduled: Frank Lavigne, December 5. Cecil Comba, December 12: Lorrenzo Chessi, December 19; and Napoleon Carriere, December 26. In January, the program will take on a new dimension, with well-known Bert Meredith looking after the interviews. Bert, an inco pensioner, is a longtime resident of Sudbury.

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



Sudbury's recently completed **LaSalle Boulevard extension** has been saving numerous inco employees time and gasoline money. LaSalle, a major thoroughfare of the New Sudbury area, now stretches an additional 1.8 miles before joining up with the relocated Highway 144 which links Sudbury with Levack. The highway received a major facelift and straightening, now joining Elm Street in Sudbury, opposed to Spruce Street in its original location. Entire cost of the project was \$6.7 million.



Hosted by the town of Rayside-Balfour, the Northern Ontario Municipal Recreation Association held its annual conference in Sudbury recently. The conference consisted of a series of workshops aimed at recreation committee members as well as recreation directors. The banquet for the 200 conference delegates was sponsored by Inco. Some of the delegates attending were, from left, Armand Houle, Gilles Pelland, Mayor of Rayside-Balfour, Ron Jodouin, conference chairman and member of the Sudbury Regional Police. Hector Poulin, Louis Mourot, and Pat Hamilton,



Two students currently enrolled in second year of the mining technology program at the Haileybury School of Mines campus of Northern College, Rae McGregor, above, and Gary Bell, below, were recently awarded Inco Scholarships based on their academic standing at the end of their undergraduate year. The awards cover fuition, fees and a grant to the student.



There are nine requisites for contented living: health enough to make work a pleasure; wealth enough to support your needs; strength to battle with difficulties and overcome them; grace enough to confess your sins and for-sake them; patience enough to toil until some good is accomplished; charity enough to see some good in your neighbor; love enough to move you to be useful and helpful to others; faith enough to make real the things of God; hope enough to remove all anxious fears concerning the future.



Visitors to Inco's Copper Cliff greenhouse never really know what to expect these days! Before inspecting everything from banana trees to jumbo sized lemons, guests will first be greeted by a metal sculpture, entitled "Futility in Motion". The water-pouring metal tree will act as a climbing post for ivy plants. Agricultural technician, Alex Gray, constructed the sculpture from an idea he picked up on vacation. Despite the futility of the motion, visitors Phyllis and John MacKay, of Montreal, found the sculpture most entertaining.



Emile Cousineau, right, a popular lampman at Copper Cliff South mine, retired recently and "The Triangle" visited him on his last day at the mine. Emile was born in Sudbury on St. Charles Street and has lived in this area all his life. "I've seen a lot of changes in this town," Emile stated, "I've had a good life and plan to stay here during my retirement." Here Emile jokingly gives last minute instructions to George Klimek, who replaces him as lampman.



In solemnly impressive memorial services throughout the Sudbury area on Remembrance Day, citizens and civic, military and service club organizations joined in tribute to loved ones and comrades killed in the wars for freedom. At the Sudbury Cenotaph, the veterans of war marched with the youth of the modern military establishment to reaffirm faith in their warrior dead.



Chemical engineering technology students from Loyalist College in Belleville were in for an informative tour during their recent visit to Inco's process technology lab in Copper Cliff. Above, development chemist Bill Flora explains the filtering procedure used in total sulphur analysis. Right, Loyalist College instructor Jack Sontrop examines rainbow trout fingerlings used in toxicity testing of company effluents, as Dr. John Bozic, supervisor of analytical services, second from left, adds technical advice. Chemical engineering student Laurie Taylor and Dr. Dave Thackray pay close attention.



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

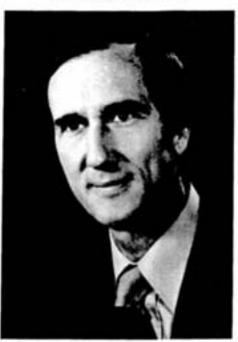


Inco Limited chairman and chief officer **Edward Grubb** paid a recent visit to Inco's Sudbury operations where he toured the Copper Cliff smelter, the new rolling mill site and the tailings area. Here **Bob Neal**, manager of the Copper Cliff smelter, points out an item of interest to Mr. Grubb, while Ontario Division president **Ron Taylor** looks on.



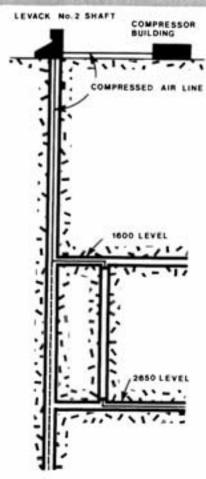
The Sudbury Miners' Hockey League is well into its fifth season of competition, with nine teams vying for the championship title. League president **Ken Zayette**, left, a mine foreman at Frood mine, handles arrangements for the games played at the Azilda Arena. He also shares referee duties with **Pat Soucy**, centre, a loaderman at Frood mine, and **Ray Bechard**.

DR. J. STUART WARNER ELECTED VICE-PRESIDENT OF INCO LIMITED



Dr. J. Stuart Warner has been elected a vice-president of Inco Limited. In this position, Dr. Warner, a former assistant vicepresident, has corporate responsibility for environmental and occupational health policies and programs as well as for special technical projects. He continues to be based in Toronto. Dr. Warner had been director of the company's J. Roy Gordon Research Laboratory in Mississauga, Ontario, from 1969 until early this year. Prior to that, he had been science adviser to the director of the laboratory. Dr. Warner joined Inco in 1966 after serving as a consultant to the company for three years. Educated in extractive metallurgy at Columbia University, Dr. Warner earned several degrees, including a Doctor of Engineering Science. He taught at Columbia University's Henry Krumb School of Mines from 1960 to 1968 as an instructor and assistant professor, specializing in thermodynamics and kinetics as applied to problems in extractive metallurgy. He has authored various technical papers and is co-inventor of pyrometallurgical processes for the recovery of nickel from sulphide ores.

What an individual wants — or thinks he wants — rarely remains constant. At Age twenty he is likely to want fame, at thirty-five money, and at fifty peace of mind. Examine yourself; do you want the same things today that you wanted fifteen years ago?



What to do when a mine's main compressed air line ruptures due to corrosion and requires extensive repairs, complete with new pipe and couplings? Take a tip from the Levack mine engineering department, who came up with a novel idea to solve the problem. Instead of replacing the 16-inch diameter air line along the wall of No. 2 shaft from 1600 to 2650 level, engineers decided to drill a 1046-foot hole some 300 feet from the main shaft. The mines drilling department did the rest: a 61R raise borer was set up. drilling the 11-inch diameter pilot hole and back-reaming it to 22 inches with a Reed reaming head. Once the "raw hole" was completed, with minimum deviation, pipe connections were grouted into place on both 1600 and 2650 levels and properly secured. Activated in early September, the new air line is the first of its kind at Inco operations in the Sudbury District. According to Tom Parris, executive assistant to Inco Limited's vicepresident, responsible for mining and milling. Ontario Division, in future mine development this application will be considered in lieu of pipelines running the length of main shafts. Compressed air constitutes a major underground power source for drilling, slushing, pumping, ventilating and numerous other applications.



Inco carpenters didn't waste any time starting renovations to the second floor of the main office building in Copper Cliff. New heating, lighting and air conditioning systems are all on the blueprint, as well as new walls, drop ceilings and carpeting. Removing one of the old walls are, from left, carpenters **Pompeo Daminato**, **Gluseppe Leon**, and **Michael Shaltynski**. Former occupants of the floor, including industrial relations, geological and mines departments, have set up temporary quarters in the old Copper Cliff Hospital, and will be returning to their newly renovated offices later in the new year.



Members of Sudbury's media were in for an informative tour of Creighton mine's No. 3 shaft recently when they were accompanied underground by Inco Limited's Director of Public Relations, **Tom Canning**, and Public Affairs Director. Ontario Division, **Harry Tompkins**. After being transported underground via Unimog, the media crew viewed numerous mine workings including the operation of drill jumbos. Among those taken on the tour were from left, Tom Canning, **Betty Meakes**, of Noront Publishing, Harry Tompkins, CKSO's **Jim Marchbank**, Creighton area manager **Paul Parker**, CFBR Radio's **Rene Reil**, Sudbury Star reporter **Andrea Bertrim** and **John Jackson**, of CKSO-TV

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



Safety procedures play an important part at the Copper Clift North mine, and safety supervisor. Garnet Smith, second from left, accompanied Sudbury media members on an underground tour to familiarize them with inco's approach to safety. With Garnet at the crusher station are, from left, CKSO reporters Mike Krizanc, Kathy Gooch, and Marc Labelle, La Voyageur reporter. Taking a breather in an underground lunchroom gave reporters a chance to meet driller Clyde McCullough who, in his typical fashion, swapped stories with Kathy and Mike.





in Indonesia, many employees of the research stations at Port Colborne were transferred on a temporary basis in order to take advantage of their experience during startup of the new plant and for training Indonesian operators. With the completion of the project in the not too distant future, some of the Fort Colborne people are biginning to return. One of the tirst to return will be Garry Wills, general foreman of No. 3 Research Station in Port Colborne. On his return trip to Canada, Gary will stop in Hawaii for a twoweek vacation, where he will be met by his wife Nancy. Here she is preparing for her top. to meet her husband for the first time in more than three months



Canada Pension Disability Benefits are available after 90 days from injury or sickness. More information can be obtained by phoning Benefits at 682-4438 in Copper Cliff.



Many Inco employees will be meeting Mike Armillotta, the recently appointed audiometric technician. Formerly a sampler with the metallurgical department, Mike will be travelling with the audiometric test unit to all mines and plants where he will test hearing thresholds with the unit's sensitive equipment. Here Mike conducts a hearing test, while audio test coordinator Livio Visentin checks the historical file which lists the hearing test results of all employees in years gone by. Below, Mike prepares to test ingmar Anderson, of the Copper Cliff Waste Water Treatment Plant.



Make Hotline A Daily Habit

Sudbury 682-0626

Port Colborne 835-2454



Equipped with a 180 horsepower Caterpillar V-8 engine, this new 24-man personnel carrier will be moving miners between surface and the 1725-foot level of Creighton mine's 3 shaft ramp. Below, training supervisor **Wilf Little**, right, instructs boom-truck operators **Augusto Ferri**, left, and **Lawrence Martin** on the operation of the vehicle.





A large gathering was on hand at the Royal York Hotel for a reception in honor of retiring Inco Limited vice-president, Louis S. Renzonl. The popular incoite is shown with his wife, Germalne, and his daughter, Mrs. Joanne Tomlinson.



A total of \$27 million will be spent over the next four years to provide increased ventilation facilities for the No. 9 shaft area of Creighton mine. The appropriation provides for the sinking of No. 11 shaft, a 6,000-foot, 21-foot diameter return air shaft, with horizontal connections on 1,280, 5,000 and 6,000 levels, main return air fans on surface and booster fans underground. Completion is scheduled for 1,980. Scanning a print outlining the proposed ventilation system are, seated, from left, Paul Parker, area manager, and Ted Flanagan, mine superintendent. Standing, from left, Derek May, mine engineer. George Reed, area engineer, and Walter Tuttle, project engineer.

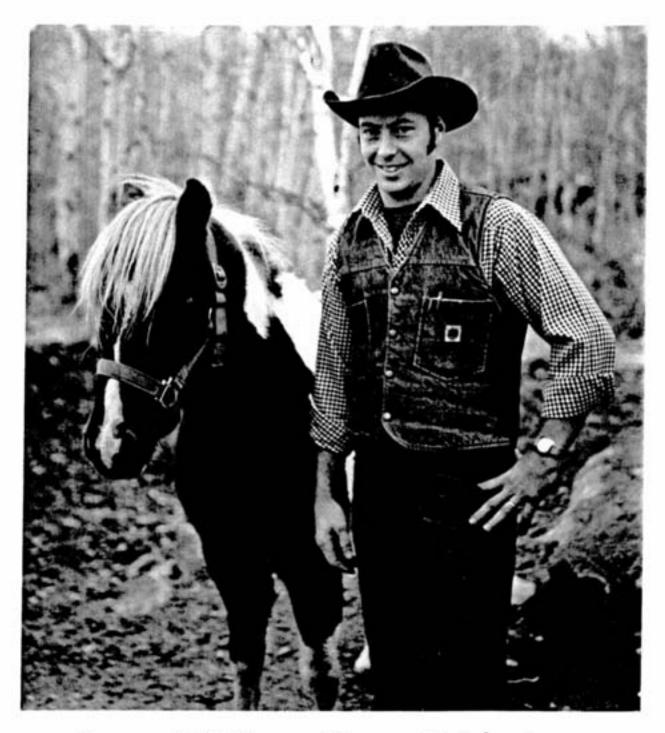
The appointment of Ray Gilbert and Sid Forster to the Public Affairs Department of the Ontario Division of Inco Limited has been announced by Charlle Hews, vice-president. Mr. Gilbert comes to inco from the Ministry of the Environment of Ontario, where he was assistant director of public information. A former newspaper reporter, he had industrial editing experience in the Canadian Steel Industry and promotional background in the Department of Industry and Tourism. A well known conservationist, Mr. Gilbert has been President of the Outdoor Writers Association of Ontano and a contributing writer on hunting and fishing to such publications as Argosy Magazine and Field and Stream. Mr. Gilbert will be Supervisor of Public Affairs at Inco, responsible for media relations and general communication with various publics. Sid Forster comes to Inco from the Visitors and Convention Bureau of Sudbury. He is a well known sports figure and booster of Sudbury and will be Community Relations Supervisor at Inco, responsible for fiaison with various community groups in the region.



Ray Gilbert



Sid Forster



Logo Writer - Dave Fairbairn

Dave Fairbairn, a driftman at Garson mine, is this month's logo writer. The first employee in two years to be awarded the maximum amount in Inco's suggestion plan, Dave received \$5,000 for his idea to replace the timber at chute openings in cut-and-fill stopes with regular steel-chute extensions.

The Triangle visited Dave at his home in Wahnapitae and asked him if he had any plans for the money. "It sure came at an opportune time", he said, "what with Christmas just around the corner. However, I don't have any definite plans at the present time." Dave said he will deposit it in the bank for time being where it will collect interest.

He did admit, however, that a portion of his windfall will probably be spent on his hobby: raising ponies for chariot and chuckwagen racing. According to Dave. ponies for chuckwagon racing are specially bred to be no taller than 50 inches in overal! height.

At present, Dave is renting a barn and a few acres of land from a local farmer, a little over a mile from his house. The owner of six fine ponies, Dave is a member of the Central Canadian Charlot and Chuckwagon Racing Association, the sanctioning body for all pony racing.

